

## **Vedlegg A: Artikkel**





## *Kapasitetskontroll av Forve bru og sanntidsovervåking*

«Bryter reglene på en av to bruer» er overskriften på en VG-artikkel som omhandler Statens vegvesens manglende inspeksjoner av bruer. I artikkelen kommer det frem at vegvesenet ikke klarer å gjennomføre inspeksjoner og kontroller innenfor de tidsfristene som er satt.

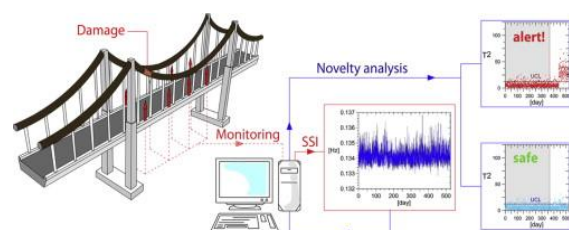
Over 900 bruer hadde i 2017 det vegvesenet omtalte som store eller kritiske skader som går ut over trafikksikkerheten. Ideelt sett burde alle disse bruene blitt oppgradert så raskt som mulig, men begrensede ressurser gjør at vegvesenet ser seg nødt til å prioritere hvilke bruer som skal utbedres.

En slik prioritering er nødt til å basere seg på et stabilt datagrunnlag slik at de mest kritiske bruene blir prioritert vedlikeholdt eller i verste fall stengt. Sanntidsovervåking kan bidra til å skape et slikt datagrunnlag, og dermed øke sikkerheten på vegnettet i Norge. I rapporten er det sett på denne type teknologi, og hvordan sanntidsovervåking kan påvirke fremtidens byggebransje.

Norge står overfor en utfordring med mange gamle bruer i vegnettet. Gamle bruer i kombinasjon med stadig flere og tyngre kjøretøy betyr at mange av bruene må klassifiseres for en større belastning enn de ble dimensjonert for i sin tid.

I den anledning er det gjort en kapasitetsanalyse av Forve bru mot klassifiseringen Bk 10/60. Forve bru er en av disse eldre bruene, bygd i 1938, som har måtte oppgradere klassifiseringen sin for å tilpasse seg dagens bruk.

Ved å benytte seg av sanntidsovervåking på disse bruene vil man enkelt kunne si når det er trygt for tyngre vogntog å kjøre over, samt når disse bruene trenger vedlikehold. Dette er bare en av mange fordeler ved bruk av denne teknologien.



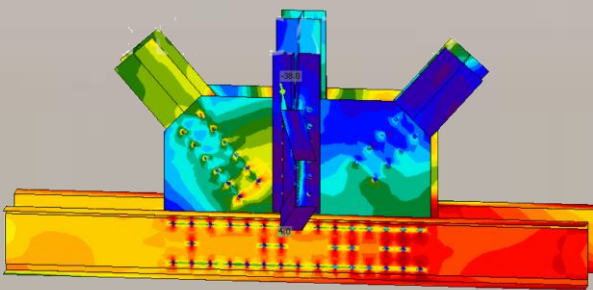
## **Vedlegg B: Plakat**

# Kapasitetskontroll av Forve bru og sanntidsovervåking

Design Verification of Forve Bridge and Real-Time Monitoring

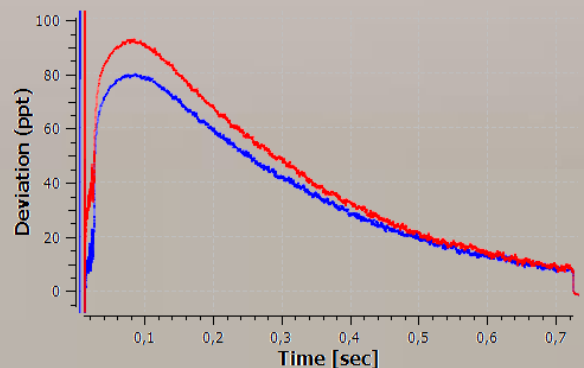
## Mål med oppgaven:

- Utføre en bruksklassifisering av Forve bro
- Simulere overkjøring av vogntog på analyseprogram, sammenlikne resultater med FEMM-målinger, og diskutere bruk av sanntidsovervåking



- Analyser viser at knutepunktene i hovedsak har større kapasitet enn stavene
- Rapporten klassifiserer brua til Bk10/60 som betyr at den tåler belastning av kjøretøy på opptil 60 tonn

**Transient  
Remanent**



- Målinger utført av Ferrx viser sammenheng med analysemodellen
- Data fra sanntidsovervåking kan bidra til bedre og sikrere inspeksjonspraksis av bruer

## **Vedlegg C: Tabellister**

## Vedlegg C.1 Profilverdier



## Vedlegg C.2 Kontroll av profilverdier

Sammenlikning av profilverdier hentet fra SAP2000 og profiltabell "Gamle profiler".

| Elementnavn                                                                                                                       | Profil   | $h$ | $b$ | $t_f$ | $t_w$ | $A$   | $I_y$      | $I_z$     | $W_{y,el}$ | $W_{z,el}$ | $i_y$ | $i_z$ |
|-----------------------------------------------------------------------------------------------------------------------------------|----------|-----|-----|-------|-------|-------|------------|-----------|------------|------------|-------|-------|
| <b>SAP2000</b>                                                                                                                    |          |     |     |       |       |       |            |           |            |            |       |       |
| UG-1                                                                                                                              | C24      | 240 | 85  | 13    | 9,5   | 4243  | 36259502   | 2854899   | 302163     | 47120      | 92,4  | 25,9  |
| UG-8                                                                                                                              | IP18     | 180 | 180 | 14    | 9     | 6408  | 37436736   | 13617234  | 415964     | 151303     | 76,4  | 46,1  |
| OG-1                                                                                                                              | C26      | 260 | 90  | 14    | 10    | 4840  | 48572213   | 3653028   | 373632     | 56924      | 100,2 | 27,5  |
| V-2                                                                                                                               | IDIMEL18 | 172 | 177 | 10    | 6,5   | 4528  | 25157669,3 | 9245534   | 292531     | 104469     | 74,5  | 45,2  |
| V-3                                                                                                                               | IDIMEL16 | 150 | 157 | 9     | 6     | 3618  | 15214986   | 5807216   | 202866     | 73977      | 64,8  | 40,1  |
| V-4                                                                                                                               | C18      | 180 | 70  | 11    | 8     | 2804  | 13641054,7 | 1302709   | 151567     | 26600      | 69,7  | 21,6  |
| D-4                                                                                                                               | C20      | 200 | 75  | 11,5  | 8,5   | 3230  | 19279167   | 1706095   | 192701     | 32197      | 77,3  | 23,0  |
| Endespenn                                                                                                                         | DIP90    | 900 | 300 | 36    | 19    | 37332 | 4932211824 | 162473271 | 10960471   | 1083155    | 363,5 | 66    |
| <b>Profiltabell</b>                                                                                                               |          |     |     |       |       |       |            |           |            |            |       |       |
| UG-1                                                                                                                              | C24      | 240 | 85  | 13    | 9,5   | 4230  | 35980000   | 2480000   | 300000     | 39600      | 92,2  | 24,2  |
| UG-8                                                                                                                              | IP18     | 180 | 180 | 14    | 9     | 6576  | 38330000   | 13630000  | 426000     | 151000     | 76,3  | 45,5  |
| OG-1                                                                                                                              | C26      | 260 | 90  | 14    | 10    | 4830  | 48230000   | 3170000   | 371000     | 47700      | 100   | 25,6  |
| V-2                                                                                                                               | IDIMEL18 | 172 | 177 | 10    | 6,5   | 4697  | 26050000   | 9250000   | 303000     | 104000     | 74,5  | 44,3  |
| V-3                                                                                                                               | IDIMEL16 | 150 | 157 | 9     | 6     | 3786  | 15880000   | 5840000   | 212000     | 75000      | 64,7  | 39,2  |
| V-4                                                                                                                               | C18      | 180 | 70  | 11    | 8     | 2800  | 13540000   | 1140000   | 150000     | 22400      | 69,5  | 20,2  |
| D-4                                                                                                                               | C20      | 200 | 75  | 11,5  | 8,5   | 3220  | 19110000   | 1480000   | 191000     | 27000      | 77    | 21,4  |
| Endespenn                                                                                                                         | DIP90    | 900 | 300 | 36    | 19    | 38105 | 5060400000 | 162700000 | 11245000   | 1085000    | 364,4 | 65,3  |
| <b>Avvik</b> <span style="float: right;">Positivt avvik betyr undervurdert kapasitet, negativt betyr overvurdert kapasitet</span> |          |     |     |       |       |       |            |           |            |            |       |       |
| UG-1                                                                                                                              | C24      | 0 % | 0 % | 0 %   | 0 %   | 0 %   | -1 %       | -15 %     | -1 %       | -19 %      | 0 %   | -7 %  |
| UG-8                                                                                                                              | IP18     | 0 % | 0 % | 0 %   | 0 %   | 3 %   | 2 %        | 0 %       | 2 %        | 0 %        | 0 %   | -1 %  |
| OG-1                                                                                                                              | C26      | 0 % | 0 % | 0 %   | 0 %   | 0 %   | -1 %       | -15 %     | -1 %       | -19 %      | 0 %   | -7 %  |
| V-2                                                                                                                               | IDIMEL18 | 0 % | 0 % | 0 %   | 0 %   | 4 %   | 3 %        | 0 %       | 3 %        | 0 %        | 0 %   | -2 %  |
| V-3                                                                                                                               | IDIMEL16 | 0 % | 0 % | 0 %   | 0 %   | 4 %   | 4 %        | 1 %       | 4 %        | 1 %        | 0 %   | -2 %  |
| V-4                                                                                                                               | C18      | 0 % | 0 % | 0 %   | 0 %   | 0 %   | -1 %       | -14 %     | -1 %       | -19 %      | 0 %   | -7 %  |
| D-4                                                                                                                               | C20      | 0 % | 0 % | 0 %   | 0 %   | 0 %   | -1 %       | -15 %     | -1 %       | -19 %      | 0 %   | -7 %  |
| Endespenn                                                                                                                         | DIP90    | 0 % | 0 % | 0 %   | 0 %   | 2 %   | 3 %        | 0 %       | 3 %        | 0 %        | 0 %   | -1 %  |



## Vedlegg C.3 Kontroll av aksialkapasitet

Undergurter - Kapasitet og krefter (kN)

| Element-<br>navn | Kap.<br>strekk | Kap.<br>trykk |
|------------------|----------------|---------------|
| UG-1             | 1813           | 1359          |
| UG-2             | 2641           | 2177          |
| UG-3             | 3000           | 2383          |
| UG-4             | 2363           | 1779          |
| UG-5             | 2618           | 1973          |
| UG-6             | 2872           | 2164          |
| UG-7             | 3174           | 3000          |
| UG-8             | 1304           | 1133          |

| Undergurt | Stavn. i<br>SAP | Akse,<br>fra - til | Element-<br>navn | Kap.<br>strekk | Krefter,<br>max | Utnyttelse | Kap.<br>trykk | Krefter,<br>min | Utnyttelse |
|-----------|-----------------|--------------------|------------------|----------------|-----------------|------------|---------------|-----------------|------------|
| 1         | 3               | -1-0               | UG-8             | 1304           | -253            | -          | 1133          | -585            | 0,52       |
| 2         | 64              | 0-2                | UG-1             | 1813           | 732             | 0,40       | 1359          | 17              | -          |
| 3         | 65              | 2-4                | UG-2             | 2641           | 1923            | 0,73       | 2177          | 595             | -          |
| 4         | 66              | 4-6                | UG-3             | 3000           | 2227            | 0,74       | 2383          | 560             | -          |
| 5         | 67              | 6-8                | UG-4             | 2363           | 1703            | 0,72       | 1779          | 109             | -          |
| 6         | 68              | 8-10               | UG-1             | 1813           | 486             | 0,27       | 1359          | -721            | 0,53       |
| 7         | 69              | 10-11              | UG-3             | 3000           | -1019           | -          | 2383          | -1904           | 0,80       |
| 8         | 70              | 11-12              | UG-3             | 3000           | -1019           | -          | 2383          | -1904           | 0,80       |
| 9         | 8               | 12-13              | UG-2             | 2641           | -921            | -          | 2177          | -1683           | 0,77       |
| 10        | 9               | 13-14              | UG-2             | 2641           | -921            | -          | 2177          | -1683           | 0,77       |
| 11        | 10              | 14-16              | UG-1             | 1813           | 776             | 0,43       | 1359          | -397            | 0,29       |
| 12        | 11              | 16-18              | UG-5             | 2618           | 1819            | 0,69       | 1973          | 342             | -          |
| 13        | 12              | 18-20              | UG-6             | 2872           | 2081            | 0,72       | 2164          | 538             | -          |
| 14        | 13              | 20-22              | UG-4             | 2363           | 1600            | 0,68       | 1779          | 125             | -          |
| 15        | 14              | 22-24              | UG-1             | 1813           | 776             | 0,43       | 1359          | -708            | 0,52       |
| 16        | 15              | 24-25              | UG-7             | 3174           | -1129           | -          | 3000          | -1979           | 0,66       |
| 17        | 16              | 25-26              | UG-7             | 3174           | -1130           | -          | 3000          | -1979           | 0,66       |

Overgurter - Kapasitet og krefter (kN)

| Element-<br>navn | Kap.<br>strekk | Kap.<br>trykk |
|------------------|----------------|---------------|
| OG-1             | 2068           | 4315          |
| OG-2             | 4375           | 6582          |
| OG-3             | 4546           | 6902          |

| Overgurt | Stavn. i<br>SAP | Akse,<br>fra - til | Element-<br>navn | Kap.<br>strekk | Krefter,<br>max | Utnyttelse | Kap.<br>trykk | Krefter,<br>min | Utnyttelse |
|----------|-----------------|--------------------|------------------|----------------|-----------------|------------|---------------|-----------------|------------|
| 1        | 6               | -1-0               | OG-1             | 2068           | 586             | 0,28       | 4315          | 91              | -          |
| 2        | 40              | 0-1                | OG-1             | 2068           | 871             | 0,42       | 4315          | 326             | -          |
| 3        | 41              | 1-2                | OG-1             | 2068           | -207            | -          | 4315          | -822            | 0,19       |
| 4        | 1               | 2-3                | OG-1             | 2068           | -170            | -          | 4315          | -710            | 0,16       |
| 5        | 4               | 3-4                | OG-1             | 2068           | -490            | -          | 4315          | -1338           | 0,31       |
| 6        | 19              | 4-5                | OG-1             | 2068           | -496            | -          | 4315          | -1321           | 0,31       |
| 7        | 20              | 5-6                | OG-1             | 2068           | -298            | -          | 4315          | -1269           | 0,29       |
| 8        | 22              | 6-7                | OG-1             | 2068           | -367            | -          | 4315          | -1414           | 0,33       |
| 9        | 24              | 7-8                | OG-1             | 2068           | 187             | 0,09       | 4315          | -682            | 0,16       |
| 10       | 26              | 8-9                | OG-1             | 2068           | 91              | 0,04       | 4315          | -870            | 0,20       |
| 11       | 28              | 9-10               | OG-1             | 2068           | 1037            | 0,50       | 4315          | 376             | -          |
| 12       | 50              | 10-11              | OG-1             | 2068           | 969             | 0,47       | 4315          | 243             | -          |
| 13       | 51              | 11-12              | OG-2             | 4375           | 2507            | 0,57       | 6582          | 1451            | -          |
| 14       | 36              | 12-13              | OG-2             | 4375           | 2509            | 0,57       | 6582          | 1447            | -          |
| 15       | 71              | 13-14              | OG-1             | 2068           | 718             | 0,35       | 4315          | -81             | 0,02       |
| 16       | 42              | 14-15              | OG-1             | 2068           | 795             | 0,38       | 4315          | 107             | -          |
| 17       | 43              | 15-16              | OG-1             | 2068           | -131            | -          | 4315          | -1102           | 0,26       |
| 18       | 44              | 16-17              | OG-1             | 2068           | -62             | -          | 4315          | -937            | 0,22       |
| 19       | 45              | 17-18              | OG-1             | 2068           | -504            | -          | 4315          | -1436           | 0,33       |
| 20       | 46              | 18-19              | OG-1             | 2068           | -482            | -          | 4315          | -1352           | 0,31       |
| 21       | 47              | 19-20              | OG-1             | 2068           | -390            | -          | 4315          | -1293           | 0,30       |
| 22       | 48              | 20-21              | OG-1             | 2068           | -457            | -          | 4315          | -1424           | 0,33       |
| 23       | 49              | 21-22              | OG-1             | 2068           | 71              | 0,03       | 4315          | -807            | 0,19       |
| 24       | 72              | 22-23              | OG-1             | 2068           | -86             | -          | 4315          | -1093           | 0,25       |
| 25       | 73              | 23-24              | OG-1             | 2068           | 830             | 0,40       | 4315          | 117             | -          |
| 26       | 82              | 24-25              | OG-3             | 4546           | 722             | 0,16       | 6902          | -75             | 0,01       |
| 27       | 83              | 25-26              | OG-3             | 4546           | 2316            | 0,51       | 6902          | 1320            | -          |

Vertikaler - Kapasitet og krefter (kN)

| Element-<br>navn | Kap.<br>strekk | Kap.<br>trykk |
|------------------|----------------|---------------|
| V-1              | 1198           | 1098          |
| V-2              | 920            | 770           |
| V-3              | 695            | 502           |
| V-4              | 599            | 203           |

| Vertikal | Stavn. i<br>SAP | Akse,<br>fra - til | Element-<br>navn | Kap.<br>strekk | Krefter,<br>max | Utnyttelse | Kap.<br>trykk | Krefter,<br>min | Utnyttelse |
|----------|-----------------|--------------------|------------------|----------------|-----------------|------------|---------------|-----------------|------------|
| 1        | 7               | -1                 | V-1              | 1198           | -288            | -          | 1094          | -666            | 0,61       |
| 2        | 2               | 0                  | V-2              | 920            | -245            | -          | 770           | -547            | 0,71       |
| 3        | 29              | 2                  | V-3              | 695            | -83             | -          | 502           | -243            | 0,48       |
| 4        | 31              | 4                  | V-3              | 695            | -82             | -          | 502           | -235            | 0,47       |
| 5        | 33              | 6                  | V-3              | 695            | -78             | -          | 502           | -230            | 0,46       |
| 6        | 35              | 8                  | V-3              | 695            | -79             | -          | 502           | -234            | 0,47       |
| 7        | 37              | 10                 | V-3              | 695            | -80             | -          | 502           | -232            | 0,46       |
| 8        | 38              | 11                 | V-4              | 599            | -1              | -          | 203           | -6              | 0,03       |
| 9        | 39              | 12                 | V-3              | 695            | -134            | -          | 502           | -307            | 0,61       |
| 10       | 17              | 13                 | V-4              | 599            | 1               | 0,00       | 203           | -4              | 0,02       |
| 11       | 18              | 14                 | V-3              | 695            | -93             | -          | 502           | -260            | 0,52       |
| 12       | 21              | 16                 | V-3              | 695            | -87             | -          | 502           | -250            | 0,50       |
| 13       | 23              | 18                 | V-3              | 695            | -87             | -          | 502           | -250            | 0,50       |
| 14       | 25              | 20                 | V-3              | 695            | -86             | -          | 502           | -247            | 0,49       |
| 15       | 27              | 22                 | V-3              | 695            | -87             | -          | 502           | -255            | 0,51       |
| 16       | 30              | 24                 | V-3              | 695            | -102            | -          | 502           | -270            | 0,54       |
| 17       | 32              | 25                 | V-4              | 599            | -18             | -          | 203           | -34             | 0,17       |
| 18       | 34              | 26                 | V-3              | 695            | -106            | -          | 502           | -262            | 0,52       |

Digonaler - Kapasitet og krefter (kN)

| Element-<br>navn | Kap.<br>strekk | Kap.<br>trykk |
|------------------|----------------|---------------|
| D-1              | 1346           | 815           |
| D-2              | 949            | 571           |
| D-3              | 2138           | 1516          |
| D-4              | 1380           | 1143          |
| D-5              | 1583           | 1273          |
| D-6              | 2094           | 1563          |
| D-7              | 2156           | 1767          |
| D-8              | 2730           | 2105          |
| D-9              | 3182           | 2467          |
| D-10             | 2582           | 2049          |
| D-11             | 2193           | 1576          |
| D-12             | 1662           | 1338          |
| D-13a            | 1541           | 911           |
| D-13b            | 1541           | 1017          |
| D-14             | 1541           | 1037          |
| D-15             | 2292           | 1646          |

| Diagonal | Stavn. i<br>SAP | Akse,<br>fra - til | Element-<br>navn | Kap.<br>strekk | Krefter,<br>max | Utnyttelse | Kap.<br>trykk | Krefter,<br>min | Utnyttelse |
|----------|-----------------|--------------------|------------------|----------------|-----------------|------------|---------------|-----------------|------------|
| 1        |                 | -1-0               | D-2              | 949            | 586             | 0,62       | 815           | 231             | -          |
| 2        | 52              | 0-1                | D-3              | 2138           | -552            | -          | 1516          | -1339           | 0,88       |
| 3        | 53              | 1-2                | D-4              | 1380           | 1035            | 0,75       | 1143          | 380             | -          |
| 4        | 54              | 2-3                | D-1              | 1346           | -218            | -          | 815           | -764            | 0,94       |
| 5        | 55              | 3-4                | D-2              | 949            | 484             | 0,51       | 571           | 51              | -          |
| 6        | 56              | 4-5                | D-2              | 949            | 5               | 0,00       | 571           | -244            | 0,43       |
| 7        | 57              | 5-6                | D-2              | 949            | 5               | 0,00       | 571           | -413            | 0,72       |
| 8        | 58              | 6-7                | D-2              | 949            | 663             | 0,70       | 571           | 201             | -          |
| 9        | 59              | 7-8                | D-13b            | 1541           | -393            | -          | 1017          | -909            | 0,89       |
| 10       | 60              | 8-9                | D-5              | 1583           | 1147            | 0,72       | 1273          | 534             | -          |
| 11       | 61              | 9-10               | D-6              | 2094           | -661            | -          | 1563          | -1365           | 0,87       |
| 12       | 62              | 10-11              | D-7              | 2156           | 1581            | 0,73       | 1767          | 790             | -          |
| 13       | 63              | 11-12              | D-8              | 2730           | -894            | -          | 2105          | -1746           | 0,83       |
| 14       | 84              | 12-13              | D-9              | 3182           | -1002           | -          | 2467          | -1995           | 0,81       |
| 15       | 85              | 13-14              | D-10             | 2582           | 1671            | 0,65       | 2049          | 803             | -          |
| 16       | 86              | 14-15              | D-11             | 2193           | -628            | -          | 1576          | -1386           | 0,88       |
| 17       | 87              | 15-16              | D-5              | 1583           | 1080            | 0,68       | 1273          | 446             | -          |
| 18       | 88              | 16-17              | D-13a            | 1541           | -272            | -          | 911           | -819            | 0,90       |
| 19       | 89              | 17-18              | D-2              | 949            | 544             | 0,57       | 571           | 21              | -          |
| 20       | 90              | 18-19              | D-2              | 949            | 216             | 0,23       | 571           | -301            | 0,53       |
| 21       | 91              | 19-20              | D-2              | 949            | 55              | 0,06       | 571           | -464            | 0,81       |
| 22       | 92              | 20-21              | D-2              | 949            | 699             | 0,74       | 571           | 166             | -          |
| 23       | 93              | 21-22              | D-14             | 1541           | -389            | -          | 1037          | -958            | 0,92       |
| 24       | 94              | 22-23              | D-12             | 1662           | 1194            | 0,72       | 1338          | 531             | -          |
| 25       | 95              | 23-24              | D-15             | 2292           | -692            | -          | 1646          | -1447           | 0,88       |
| 26       | 96              | 24-25              | D-10             | 2582           | 1710            | 0,66       | 2049          | 858             | -          |
| 27       | 97              | 25-26              | D-9              | 3182           | -969            | -          | 2467          | -1877           | 0,76       |

## Vedlegg C.4 Nettoarealer

Beregning av nettoarealer

| Element-<br>navn | Antall<br>bolter | Diameter | Plate-<br>tykkelse | Steg-<br>tykkelse | Sider | Netto-<br>areal |
|------------------|------------------|----------|--------------------|-------------------|-------|-----------------|
| UG-1             | 3                | 16       | 0                  | 9,5               | 2     | 7517            |
| UG-2             | 3                | 19       | 14                 | 9,5               | 2     | 10706           |
| UG-3             | 3                | 16       | 18                 | 9,5               | 2     | 12161           |
| UG-4             | 3                | 16       | 8                  | 9,5               | 2     | 9581            |
| UG-5             | 3                | 16       | 12                 | 9,5               | 2     | 10613           |
| UG-6             | 3                | 16       | 16                 | 9,5               | 2     | 11645           |
| UG-7             | 3                | 19       | 18                 | 9,5               | 2     | 12866           |
| UG-8             | 2                | 19       | 0                  | 14                | 2     | 5288            |
| V-1              | 2                | 19       | 0                  | 8                 | 2     | 4968            |
| V-2              | 2                | 19       | 0                  | 10                | 2     | 3728            |
| V-3              | 2                | 19       | 0                  | 10                | 2     | 2818            |
| V-4              | 1                | 16       | 0                  | 8                 | 2     | 2532            |
| D-1              | 2                | 16       | 0                  | 14                | 2     | 5456            |
| D-2              | 2                | 16       | 0                  | 10                | 2     | 3848            |
| D-2              | 2                | 16       | 0                  | 10                | 2     | 9328            |
| D-4              | 2                | 19       | 0                  | 8,5               | 2     | 5779            |
| D-5              | 2                | 19       | 8                  | 8,5               | 2     | 6419            |
| D-6              | 2                | 19       | 10                 | 14                | 2     | 8488            |
| D-7              | 2                | 19       | 10                 | 11,5              | 2     | 8739            |
| D-8              | 2                | 19       | 8,5                | 14                | 2     | 11067           |
| D-9              | 2                | 19       | 9,5                | 14                | 2     | 13014           |
| D-10             | 2                | 19       | 10                 | 9,5               | 2     | 10526           |
| D-11             | 2                | 19       | 10                 | 14                | 2     | 8888            |
| D-12             | 2                | 19       | 12                 | 8,5               | 2     | 6739            |
| D-13             | 2                | 19       | 0                  | 14                | 2     | 6248            |
| D-14             | 2                | 19       | 12                 | 14                | 2     | 6248            |
| D-15             | 2                | 19       | 10                 | 14                | 2     | 9288            |

## **Vedlegg D: Håndberegninger i Mathcad**



## Vedlegg D.1 Beregning av egenlaster

## Beregning av egenlaster

### Egenlast betongdekket:

bredde hele dekketverrsnittet:  $b := 7.3 \quad m$

areal halve betongtverrsnitt:  $a_b := 0.9387 \quad m^2$

massestetthet betong:  $\rho_b := 25 \frac{kN}{m^3}$  R412 – 4.1.1

egenlast betong omgjort til karakteristisk linjelast påført fagverkene:  $q_{bk} := a_b \cdot \rho_b = 23.468 \quad \frac{kN}{m}$

### Egenlast slitelag:

tykkelse på slitelaget:  $t := 0.070 \quad m$

areal slitelag på halve dekket:  $a_s := t \cdot \frac{b}{2} = 0.256 \quad m^2$

massestetthet slitelag(asfalt):  $\rho_a := 25 \frac{kN}{m^3}$  R412 – 4.1.1

egenlast slitelag omgjort til karakteristisk linjelast påført fagverkene:  $q_{sk} := a_s \cdot \rho_a = 6.388 \quad \frac{kN}{m}$

egenlast per kvadratmeter med tykkelse t:  $Q := t \cdot \rho_a = 1.75 \quad \frac{kN}{m^2}$

Virker litt lite i hht R412 - 4.1.2

oppjusterer egenlasten til:  $Q_s := 2 \quad \frac{kN}{m^2}$

oppjustert egenlast slitelag omgjort til karakteristisk linjelast påført fagverkene:  $q_{sk.sikker} := Q_s \cdot \frac{b}{2} = 7.3 \quad \frac{kN}{m}$

### Egenlast rekkverk:

egenlast fra rekkverkene på  
hver side av broen påføres  
fagverkene som linjelast:

$$q_r := 0.5 \frac{kN}{m} \quad R412 - 4.1.1$$

### Sammenstiller egenlaster som blir påført som linjelast:

sammenstiller egenlast fra  
betongdekket, slitelag og  
rekkverk:

$$q_{tot} := q_{bk} + q_{sk.sikker} + q_r = 31.268 \frac{kN}{m}$$

### Egenlast stål:

massetetthet stål:

$$\rho_s := 77 \frac{kN}{m^3} \quad R412 - 4.1.1$$

tilleggsfaktor på grunn av  
nagler og plater o.l. i  
knutepunkt:

$$f := 1.20$$

massetetthet brukt i analyse:

$$\rho_{s.tillegg} := \rho_s \cdot f = 92.4 \frac{kN}{m^3}$$

## Vedlegg D.2 Beregning av vindlaster

## Beregning av vindlaster

### Beregning av basisvindhastighet:

refereansevindhastighet for Orkdal kommune (data for Fannrem kommune finnes ikke i tabell:

$$v_{b,0} := 25 \frac{m}{s}$$

Tabell NA.4.(901.1)

retningsfaktor:

$$c_{dir} := 1$$

NA.4.2(2)P

årstidsfaktor:

$$c_{season} := 1$$

NA.4.2(2)P

nivåfaktor:

$$c_{alt} := 1$$

NA.4.2(2)P

returperiode:

$$c_{prob} := 1$$

NA.4.2(2)P

basisvindhastighet:

$$v_b := c_{dir} \cdot c_{season} \cdot c_{alt} \cdot c_{prob} \cdot v_{b,0}$$

Likning (NA.4.1)

$$v_b = 25 \frac{m}{s}$$

### Beregning av eksponeringsfaktor:

terrengkategori settes til:

kategorinummer 2

Tabell NA.4.1

kotehøyde toppbrodekke:

$$z_{topp} := 15.90 \text{ m}$$

Originaltegninger

kotehøyde lavvannstand:

$$z_{L.v.st} := 6.52 \text{ m}$$

Originaltegninger

maks høyde ved lavvannstand:

$$z := z_{topp} - z_{L.v.st} = 9.38 \text{ m}$$

$$z_{avrund} := 10 \text{ m}$$

terrengformfaktor:

$$c_{0,z} := 1.0$$

Likning (4.3)

eksponeringsfaktor:

$$c_e := 2.4$$

Figur 4.2  
z=10  
terrengkategori 2

|                                                                                                                             |                                                                                                                               |                         |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <u>Vindkraft i x-retning:</u>                                                                                               |                                                                                                                               | 8.3.2                   |
| kraftfaktor x-retning                                                                                                       | $c_{f.x} := 1.3$                                                                                                              | 8.3.1(1)<br>MERKNAD 2   |
| vindlastfaktor:                                                                                                             | $C_x := c_e \cdot c_{f.x} = 3.12$                                                                                             | Likning (8.2)           |
| luftens densitet:                                                                                                           | $\rho := 1.25 \frac{kg}{m^3}$                                                                                                 | Likning (NA.4.8)        |
| brodekkets høyde:                                                                                                           | $d := 0.34 + 0.22 + 0.070$<br>$d = 0.63 \quad m$                                                                              | Originaltegninger       |
| referanseareal i x-retning med "Åpen parapet eller åpent sikkerhetsrekkverk på begge sider":                                | $A_{ref.x} := d + 0.6 \quad m$<br>$A_{ref.x} = 1.23 \quad m$                                                                  | Figur 8.5 og tabell 8.1 |
| Vurderer at beregning dynamisk respons ikke er nødvendig i henhold til 8.2 (1) MERKNAD 3 og kan dermed bruke likning (8.2). |                                                                                                                               |                         |
| kraft i x-retning - forenklet metode:                                                                                       | $F_{w.x} := \frac{1}{2} \cdot \rho \cdot v_b^2 \cdot C_x \cdot A_{ref.x}$<br>$F_{w.x} = 1.499 \cdot 10^3 \quad \frac{N}{m^2}$ | Likning (8.2)           |
| kraft i x-retning omgjort til linjelast per lengdemeter:                                                                    | $F_{w.x.q} := F_{w.x} \cdot 10^{-3} = 1.499 \quad \frac{kN}{m}$                                                               |                         |
| <u>Vindkraft i x-retning kombinert med trafikklast:</u>                                                                     |                                                                                                                               | 8.3.1 (5) a)            |
| referanseareal med trafikk:                                                                                                 | $A_{ref.x.t} := A_{ref.x} + 2$<br>$A_{ref.x.t} = 3.23 \quad m$                                                                | 8.3.1 (5) a)            |
| anbefalt referansevindhastighet for kombinasjon med trafikk:                                                                | $v_{b,0} := 23 \quad \frac{m}{s}$                                                                                             | 8.1.4 MERKNAD           |

basisvindhastighet for  
kombinasjon med trafikk:

$$v_{b'} := c_{dir} \cdot c_{season} \cdot c_{alt} \cdot c_{prob} \cdot v_{b,0'}$$

Likning (NA.4.1)

$$v_{b'} = 23 \quad \frac{m}{s}$$

kraftfaktor i x-retning med  
trafikk:

$$b := 7.3 \quad m$$

$$d_{tot} := \frac{d}{2} + 2 = 2.315 \quad m$$

8.3.1 brutype b) 3

$$\frac{b}{d_{tot}} = 3.153$$

$$c_{fxt} := 1.55$$

Figur 8.3

vindlastfaktor med trafikk:

$$C_{xt} := c_e \cdot c_{fxt} = 3.72$$

Likning (8.2)

kraft i x-retning med trafikk:

$$F_{w.x.t} := \frac{1}{2} \cdot \rho \cdot v_{b,0'}^2 \cdot C_{xt} \cdot A_{ref.x.t}$$

Likning (8.2)

$$F_{w.x.t} = 3.973 \cdot 10^3 \quad \frac{N}{m^2}$$

kraft i x-retning med trafikk  
omgjort til linjelast per  
lengdemeter:

$$F_{w.x.t.q} := F_{w.x.t} \cdot 10^{-3} = 3.973 \quad \frac{kN}{m}$$

### Vindkraft i z-retning:

kraftfaktor i z-retning (nedad  
rettet eller oppad rettet):

$$c_{fz} := 0.9$$

8.3.3 (1)  
MERKNAD 1

vindlastfaktor i z-retning:

$$C_z := c_e \cdot c_{fz} = 2.16$$

Likning (8.2)

lengdeenhet:

$$L := 1 \quad m$$

referanseareal i z-retning:

$$A_{ref.z} := b \cdot L = 7.3 \quad m^2$$

Likning (8.3)

kraft i z-retning:

$$F_{w.z} := \frac{1}{2} \cdot \rho \cdot v_b^2 \cdot C_z \cdot A_{ref.z}$$

Likning (8.2)

$$F_{w.z} = 6.159 \cdot 10^3 \quad \frac{N}{m^2}$$

kraft i z-retning omgjort til  
linjelast per fagverk per  
lengdemeter:

$$F_{w.z.q} := \frac{F_{w.z}}{2} \cdot 10^{-3} = 3.08$$

$\frac{kN}{m}$

### Vindkraft i z-retning kombinert med trafikklast:

kraft i z-retning med trafikk:

$$F_{w.z.t} := \frac{1}{2} \cdot \rho \cdot v_b^2 \cdot C_z \cdot A_{ref.z}$$

Likning (8.2)

$$F_{w.z.t} = 5.213 \cdot 10^3 \quad \frac{N}{m^2}$$

kraft i z-retning med trafikk  
omgjort til linjelast per  
fagverk per lengdemeter:

$$F_{w.z.t.q} := \frac{F_{w.z}}{2} \cdot 10^{-3} = 3.08$$

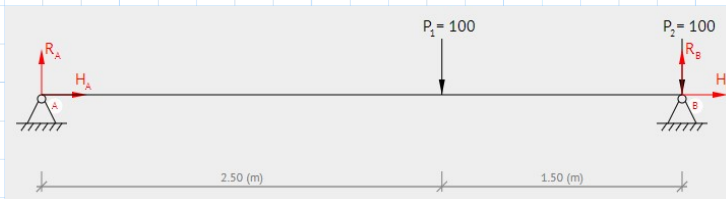
$\frac{kN}{m}$



## Vedlegg D.3 Betraktninger av lastplassering ved influenslinjer

# Betraktning av lastplassering vha. influenslinjer

Modellens situasjon:



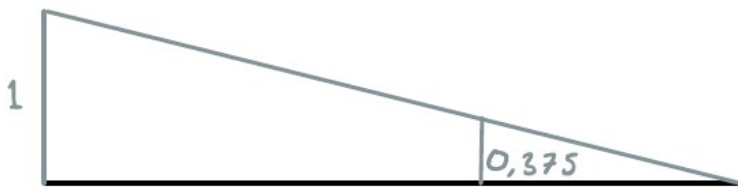
$$P1 := 100 \text{ kN}$$

$$P2 := 100 \text{ kN}$$

$$L_m := 4 \text{ m}$$

Ser på effekten av laster i felt B på opplager A:

Influenslinje for opplagerkraft  $A_z$ :



Stigningstall for influenslinjen:

$$a := \frac{1}{L_m} = 0.25$$

Effekt av P1:  $a_{2.5} := 1 - a \cdot 2.5 = 0.375$

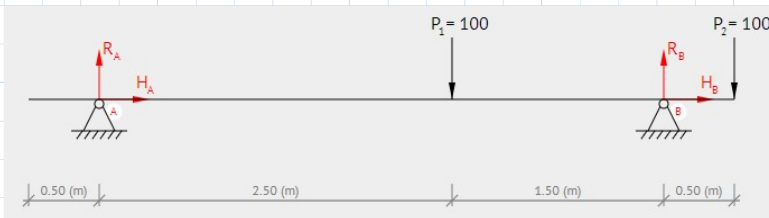
Effekt av P2:  $a_4 := 1 - a \cdot 4 = 0$

Total kraft i  $A_z$

pga. laster i felt B:  $A_{m.tot} := P1 \cdot a_{2.5} + P2 \cdot a_4 = 37.5 \text{ kN}$

Kommentar: Bidrag fra P2 er lik null i  $A_{m.tot}$ .

Broens situasjon:



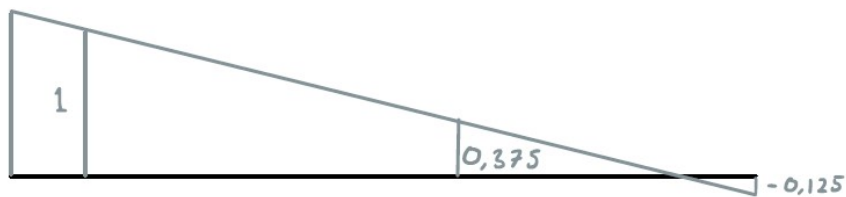
$$P1 := 100 \text{ kN}$$

$$P2 := 100 \text{ kN}$$

$$L_b := 5 \text{ m}$$

Ser på effekten av laster i felt B på opplager A:

Influenslinje for opplagerkraft Az:



Setter opplager A som 0-punkt

Stigningstall for influenslinjen:

$$b := \frac{1}{4} = 0.25$$

$$\text{Effekt av } P1: \quad b_{2.5} := 1 - b \cdot 2.5 = 0.375$$

$$\text{Effekt av } P2: \quad b_{4.5} := 1 - b \cdot 4.5 = -0.125$$

Total kraft i Az

$$\text{pga. laster i felt B:} \quad A_{b,tot} := P1 \cdot b_{2.5} + P2 \cdot b_{4.5} = 25 \text{ kN}$$

Disse utregningene viser at i virkeligheten blir effekten på Az av last i felt B mindre enn på SAP2000-modellen. I og med at P2 ikke har noe effekt på modellen må P1 reduseres for at kraften Az skal bli riktig. Finner denne reduserende faktoren, f:

$$f := \frac{A_{b,tot}}{A_{m,tot}} = 0.667$$

Kontroll med faktor f  
Moment om B=0:

$$A_z \cdot 4 - 100 \cdot f \cdot 1.5 = 0$$

$$A_z := \frac{(100 \cdot f \cdot 1.5)}{4} = 25 \text{ kN}$$

Kontroll OK

## Vedlegg D.4 Knekkapasitet undergurt

## Aksialkapasitet UG-1, 14-16:

Kommentar: Når det i denne beregningen er henvist til:

- EC3 vil det si NS-EN 1993-1-1:2005+A1:2014+NA:2015
- Hb.R412 vil det si Statens vegvesens håndbok R412 rundskriv
- SPF. vil det si "Stålkonstruksjoner profiler og formler; Institutt for konstruksjonsteknikk NTNU"

*Inngangsdata:*

Profil: 2xC24

$$\gamma_{M0} := 1.1$$

$$\gamma_{M1} := 1.2$$

$$\gamma_{M2} := 1.35$$

Materialfaktorer iht. Hb.R412

$$f_y := 235 \frac{N}{mm^2}$$

Flytegrense iht. Hb.R412

$$f_u := 370 \frac{N}{mm^2}$$

Strekkfasthet iht. Hb.R412

$$A := 8486 \text{ mm}^2$$

Areal UG-1

$$A_{net} := A - 3 \cdot (16 + 1) \text{ mm} \cdot 9.5 \text{ mm} \cdot 2 = (7.517 \cdot 10^3) \text{ mm}^2$$

Nettoareal trukket fra boltehulldiameter

$$L := 6500 \text{ mm}$$

lengde mellom knutepunkt  
14 og 16

$$I := \begin{bmatrix} 72519004 \text{ mm}^4 \\ 137059852 \text{ mm}^4 \end{bmatrix}$$

2. Arealmoment om hhv. y og z

$$E_s := 2.1 \cdot 10^5 \frac{N}{mm^2}$$

E-modul stål iht. EC3 pkt. 3.2.6

$$i := \sqrt{\frac{I}{A}} = \begin{bmatrix} 92.443 \\ 127.088 \end{bmatrix} \text{ mm}$$

Treghetsradius for hhv. y- og z-akse

*Beregning av knekkapasitet:*

Verdien for  $\beta$  er kommentert under kapittel knekk lengde.

$$\beta := \begin{bmatrix} 0.7 \\ 1 \end{bmatrix}$$

Reduksjon av lengde

$$L_k := \beta \cdot L = \begin{bmatrix} 4.55 \\ 6.5 \end{bmatrix} \text{ m}$$

Knekk lengde for begge akser

$$N_{cr} := \frac{\pi^2 E_s \cdot I}{L_k^2} = \begin{bmatrix} 7.26 \cdot 10^3 \\ 6.72 \cdot 10^3 \end{bmatrix} \text{ kN}$$

Eulerlasten for hhv. y- og z-aksen

$$\lambda_{rel} := \sqrt{\frac{A \cdot f_y}{N_{cr}}} = \begin{bmatrix} 0.52 \\ 0.54 \end{bmatrix}$$

Relativ slankhet iht. EC3 pkt. 6.3.1.2

$$\alpha := 0.49$$

Imperfeksjonsfaktor iht. EC3 tabell 6.1 - knekkurve c

$$\phi := 0.5 \cdot (1 + \alpha \cdot (\lambda_{rel} - 0.2) + \lambda_{rel}^2) = \begin{bmatrix} 0.72 \\ 0.73 \end{bmatrix}$$

Funksjonen  $\phi$  iht. EC3 pkt. 6.3.1.2

$$\chi := \frac{1}{\phi + \sqrt{\phi^2 - \lambda_{rel}^2}} = \begin{bmatrix} 0.83 \\ 0.82 \end{bmatrix}$$

Reduksjonsfaktor iht. EC3 (6.49), kontrollerer at  $\chi \leq 1$  - OK

$$N_{b.Rd.1} := \frac{\chi \cdot A \cdot f_y}{\gamma_{M1}} = \begin{bmatrix} 1.378 \cdot 10^3 \\ 1.359 \cdot 10^3 \end{bmatrix} \text{ kN}$$

Dimensjonerende knekkapasitet om hhv. i plan og ut av plan iht. EC3 (6.47)

$$N_{b.Rd} := \min(1378 \text{ kN}, 1359 \text{ kN}) = (1.359 \cdot 10^3) \text{ kN}$$

Dimensjonerende knekkapasitet er minste verdi av y- og z-verdien

*Beregning av trykkapasitet:*

$$N_{c.Rd.1} := \frac{A \cdot f_y}{\gamma_{M1}} = (1.662 \cdot 10^3) \text{ kN}$$

Trykkapasitet i henhold til EC3 (6.10)

Dimensjonerende trykkapasitet vil være minste verdi av knekkapasitet og trykkapasitet:

$$N_{c.Rd} := \min(N_{b.Rd}, N_{c.Rd.1}) = (1.359 \cdot 10^3) \text{ kN} \quad \text{Dimensjonerende trykkapasitet}$$

*Beregning av plastisk strekkapasitet:*

$$N_{pl.Rd} := \frac{A \cdot f_y}{\gamma_{M1}} = (1.662 \cdot 10^3) \text{ kN} \quad \text{Bruttotv.snittets plastiske kapasitet iht. EC3 (6.6)}$$

$$N_{u.Rd} := \frac{0.9 \cdot A_{net} \cdot f_u}{\gamma_{M2}} = (1.854 \cdot 10^6) \text{ N} \quad \text{Nettotv.snittets dimensjonerende kapasitet iht. EC3 (6.7)}$$

Dimensjonerende strekkfasthet settes lik minste verdi av plastisk kapasitet og nettotv.snittets kapasitet iht. EC3 6.2.3(2):

$$N_{t.Rd} := \min(N_{pl.Rd}, N_{u.Rd}) = (1.662 \cdot 10^3) \text{ kN} \quad \text{Dimensjonerende strekkapasitet}$$

## Vedlegg D.5 Knekkapasitet bjelkesøyle



### Kontroll bjelkesøyle, OG-1, 20-21:

$$f_y := 235 \frac{N}{mm^2}$$

Flytegrense

$$\gamma_{M0} := 1.1$$

Materialfaktor

$$\gamma_{M1} := 1.2$$

$$I_{OG.1} := \begin{bmatrix} 97144427 \text{ mm}^4 \\ 160562667 \text{ mm}^4 \end{bmatrix}$$

2. Arealmoment OG-1

$$E_s := 2.1 \cdot 10^5 \frac{N}{mm^2}$$

Elastisitesmodul stål

$$W_{y.pl} := 889040 \text{ mm}^3$$

Plastisk motstandsmoment stål

$$W_{z.pl} := 1218000 \text{ mm}^3$$

$$A_{OG.1} := 9680 \text{ mm}^2$$

Areal OG-1

$$N_{Rd.OG1} := 4315 \text{ kN}$$

Dimensjonerende trykkapasitet OG-1

$$M_{y.Ed.OG1} := 87.7 \text{ kN} \cdot \text{m}$$

Maksimalt påkjent moment om y

$$M_{z.Ed.OG1} := 0 \text{ kN} \cdot \text{m}$$

Maksimalt påkjent moment om z

$$N_{Ed.OG1} := 1424 \text{ kN}$$

Maksimalt påkjent aksialkraft

$$\Delta M_{y.Ed.OG1} := 0 \text{ kN} \cdot \text{m}$$

Tillegsmoment om y

$$\Delta M_{z.Ed.OG1} := 0 \text{ kN} \cdot \text{m}$$

Tillegsmoment om z

$$M_{y.Rk.OG1} := W_{y.pl} \cdot f_y$$

Karakteristisk  
momentkapasitet

$$M_{z.Rk.OG1} := W_{z.pl} \cdot f_y$$

$$\chi_{LT} := 1$$

Antar overgurten er avstivet mot vipping pga. samvirke

Beregning av knekk lengde  $L_{k.OG1}$ , verdier er begrunnet tidligere

$$\beta_{OG1} := \begin{bmatrix} 0.7 \\ 1 \end{bmatrix}$$

$$L_{OG1} := 3251 \text{ mm} \quad \text{Lengde på undersøkt element}$$

$$L_{k.OG1} := \beta_{OG1} \cdot L_{OG1}$$

Knekkurve er lik som over, noe som medfører lik imperfeksjonsfaktor

$$\alpha := 0.49 \quad \text{Imperfeksjonsfaktor iht. EC.3 tabell 6.1}$$

$$N_{cr.OG1} := \frac{\pi^2 E_s \cdot I_{OG1}}{L_{k.OG1}^2} = \begin{bmatrix} 3.888 \cdot 10^4 \\ 3.149 \cdot 10^4 \end{bmatrix} \text{ kN} \quad \text{Eulerlast stål OG-1}$$

$$\lambda_{rel.OG1} := \sqrt{\frac{A_{OG1} \cdot f_y}{N_{cr.OG1}}} = \begin{bmatrix} 0.24 \\ 0.27 \end{bmatrix} \quad \text{Relativ slankhet iht. EC3 pkt. 6.3.1.2 (1)}$$

$$\lambda_{rel.y} := 0.24 \quad \lambda_{rel.z} := 0.27$$

$$\phi_{OG1} := 0.5 \cdot (1 + \alpha \cdot (\lambda_{rel.OG1} - 0.2) + \lambda_{rel.OG1}^2) = \begin{bmatrix} 0.54 \\ 0.55 \end{bmatrix}$$

$$\chi_{OG1} := \frac{1}{\phi_{OG1} + \sqrt{\phi_{OG1}^2 - \lambda_{rel.OG1}^2}} = \begin{bmatrix} 0.98 \\ 0.97 \end{bmatrix} \quad \text{Reduksjonsfaktor for hhv. y- og z-akse iht. EC3 (6.49)}$$

$$\chi_{y.OG1} := 0.98 \quad \chi_{z.OG1} := 0.97$$

Momentpåkjenning på undersøkt element:

$$M_{y.Ed.v} := 55.1 \text{ kN} \cdot \text{m} \quad M_{y.Ed.m} := 15.2 \text{ kN} \cdot \text{m} \quad M_{y.Ed.h} := 87.8 \text{ kN} \cdot \text{m}$$

$$\alpha_s := \frac{-M_{y.Ed.m}}{M_{y.Ed.h}} = -0.173$$

$$C_{my} := \begin{cases} \text{if } 0.1 - 0.8 \alpha_s \geq 0.4 & = 0.4 \\ \parallel 0.1 - 0.8 \alpha_s \\ \text{else if } 0.1 - 0.8 \alpha_s < 0.4 & \\ \parallel 0.4 \end{cases}$$

Beregning av interaksjonsfaktorene iht. EC3 Tillegg B, Metode 2

$$k_{yy} := \min \left( C_{my} \cdot (1 + \lambda_{rel,y} - 0.2) \frac{N_{Ed.OG1}}{N_{Rd.OG1} \cdot \chi_{y.OG1}}, C_{my} \cdot \left( 1 + 0.8 \cdot \frac{N_{Ed.OG1}}{\chi_{y.OG1} \cdot N_{Rd.OG1}} \right) \right) = 0.14$$

$$k_{zy} := 0 \quad k_{yz} := 0 \quad k_{zz} := 0 \quad \text{Settes lik 0 da det er enakset moment}$$

$$K_{rav.1} := \frac{N_{Ed.OG1}}{\chi_{y.OG1} \cdot N_{Rd.OG1}} + k_{yy} \cdot \left( \frac{M_{y.Ed.OG1} + \Delta M_{y.Ed.OG1}}{\chi_{LT} \cdot \frac{M_{y.Rk.OG1}}{\gamma_{M1}}} \right) + k_{yz} \cdot \left( \frac{M_{z.Ed.OG1} + \Delta M_{z.Ed.OG1}}{\frac{M_{z.Rk.OG1}}{\gamma_{M1}}} \right) = 0.41$$

$$K_{rav.2} := \frac{N_{Ed.OG1}}{\chi_{z.OG1} \cdot N_{Rd.OG1}} + k_{zy} \cdot \left( \frac{M_{y.Ed.OG1} + \Delta M_{y.Ed.OG1}}{\chi_{LT} \cdot \frac{M_{y.Rk.OG1}}{\gamma_{M1}}} \right) + k_{zz} \cdot \left( \frac{M_{z.Ed.OG1} + \Delta M_{z.Ed.OG1}}{\frac{M_{z.Rk.OG1}}{\gamma_{M1}}} \right) = 0.34$$

$$K_{ontroll} := \begin{cases} \text{if } K_{rav.1} \leq 1 & = \text{"Ok"} \\ \parallel \text{"Ok"} \\ \text{also if } K_{rav.2} \leq 1 & \\ \parallel \text{"Ok"} \end{cases}$$

## Interaksjon mellom aksial og moment

$$b_{OG.1} := 90 \cdot 2 \text{ mm} \quad \text{Bredde 2x flens UG-1}$$

$$t_f := 14 \text{ mm} \quad \text{Tykkelse flens UG-1}$$

$$n := \frac{N_{Ed.OG1}}{N_{Rd.OG1}} = 0.33 \quad \text{Faktor n iht. EC3-1-1 pkt 6.2.9.1 (5)}$$

$$a := \frac{A_{OG.1} - 2 \cdot b_{OG.1} \cdot t_f}{A_{OG.1}} = 0.479 \quad \text{Faktor n iht. EC3-1-1 pkt 6.2.9.1 (5)}$$

$$K_{ontroll.a} := \begin{cases} \text{if } a < 0.5 & \text{= "Ok"} \\ \text{|| "Ok"} \\ \text{else if } a > 0.5 & \\ \text{|| "Ikke ok"} \end{cases}$$

$$M_{N.y.Rd} := \begin{cases} \frac{M_{y.Rk.OG1}}{\gamma_{M0}} \cdot (1-n) & \leq \frac{M_{y.Rk.OG1}}{\gamma_{M0}} & = 167.364 \text{ kN} \cdot \text{m} \\ \text{||} \\ \frac{M_{y.Rk.OG1}}{\gamma_{M0}} \cdot (1-n) & & \text{Iht. EC3-1-1 (6.36)} \\ \text{||} \\ \frac{M_{y.Rk.OG1}}{\gamma_{M0}} \cdot (1-n) & & \\ \text{else if } \frac{\gamma_{M0}}{1-0.5 a} > \frac{M_{y.Rk.OG1}}{\gamma_{M0}} & & \\ \text{||} \\ \frac{M_{y.Rk.OG1}}{\gamma_{M0}} & & \end{cases}$$

$$K_{ontroll.interaksjon} := \begin{cases} \text{if } M_{N.y.Rd} \geq M_{y.Ed.OG1} & \text{= "Ok"} \\ \text{|| "Ok"} \\ \text{else if } M_{N.y.Rd} < M_{y.Ed.OG1} & & \text{Iht. EC3-1-1 (6.31)} \\ \text{|| "Ikke ok"} \end{cases}$$

## Vedlegg D.6 Kapasitet samvirke

## Inngangsdata:

Kommentar: Når det i denne beregningen er henvist til:

- EC3 vil det si NS-EN 1993-1-1:2005+A1:2014+NA:2015
- EC4 vil det si NS-EN 1994-1-1:2004+NA:2009
- Hb.R412 vil det si Statens vegvesens håndbok R412 rundskriv

## Inngangsdata:

$$\gamma_{M0} := 1.1$$

$$\gamma_{M1} := 1.2$$

$$\gamma_{M2} := 1.35$$

Materialfaktorer stål iht. Hb.R412

$$\gamma_c := 1.4$$

Materialfaktor betong iht. Hb.R412

$$f_{yd} := \frac{235}{\gamma_{M0}} \frac{N}{mm^2} = 213.636 \text{ MPa} \quad \text{Dimensjonerende flytespenning stål iht. Hb.R412}$$

$$f_{ud} := \frac{370}{\gamma_{M2}} \frac{N}{mm^2} = 274.074 \text{ MPa} \quad \text{Strekkfasthet stål iht. Hb.R412}$$

$$f_{cd} := \frac{14}{\gamma_c} \frac{N}{mm^2} = 10 \text{ MPa} \quad \text{Betongfasthet iht. Hb.R412}$$

## OG-1:

$$L_1 := 2876 \text{ mm}$$

Minste lengde for overgurt 1,  
konservativt å anta at dette gjelder alle

$$L_{e1} := 0.7 \cdot L_1 = 2.013 \text{ m}$$

Ekvivalent spennlengde etter  
EC4 Figur 5.1

$$b_{01} := 0.3 \text{ m}$$

Antatt avstand mellom skjærdebyler (horisontal avstand  
mellom midten av utstikkende flens i de to profilene)

*Effektiv bredde mot kant:*

$$b_{11} := 1490 \text{ mm}$$

Avstand fra skjærdebyel til  
kant betongdekke

$$b_{e11} := \min\left(\frac{L_{e1}}{8}, b_{11}\right) = 0.252 \text{ m}$$

Iht. EC4 pkt. 5.4.1.2(5)

Effektiv bredde mot midten:

$$b_{12} := 1.45 \text{ m} + 0.35 \text{ m} + 0.04 \text{ m} = 1.84 \text{ m}$$

$$b_{e12} := \min\left(\frac{L_{e1}}{8}, b_{12}\right) = 0.252 \text{ m} \quad \text{Iht. EC4 pkt. 5.4.1.2(5)}$$

$$b_{eff} := b_{01} + b_{e11} + b_{e12} = 0.8 \text{ m} \quad \text{Effektiv bredde for et felt iht. EC4 (5.3)}$$

Effektivt betongareal:

$$A_{c,eff.1} := 2 \cdot \left(0.2 \text{ m} \cdot (0.15 \text{ m} + 0.23 \text{ m}) + 0.2 \text{ m} \cdot \frac{0.15 \text{ m}}{2} + 0.2 \text{ m} \cdot 0.23 \text{ m}\right) = 0.274 \text{ m}^2$$

$$A_{s,OG1} := 9680 \text{ mm}^2 \quad \text{Areal stål OG1}$$

$$A_{eff1} := A_{c,eff.1} - A_{s,OG1} = (2.643 \cdot 10^5) \text{ mm}^2 \quad \text{Effektivt betong areal uten stål:}$$

$$N_{pl.Rd,OG1} := A_{s,OG1} \cdot f_{yd} = (2.068 \cdot 10^3) \text{ kN} \quad \text{Bruttotv.snitt strekkap. iht. EC3 (6.6)}$$

$$A_{s,red,OG1} := A_{s,OG1} - 2 \cdot 19 \text{ mm} \cdot 2 \cdot 10 \text{ mm} = 0.009 \text{ m}^2 \quad \text{Nettotv.snitt}$$

$$N_{u,Rd,OG1} := 0.9 \cdot A_{s,red,OG1} \cdot f_{ud} = (2.2 \cdot 10^3) \text{ kN} \quad \text{Nettotv.snitt strekkapasitet iht. EC3 (6.7)}$$

$$N_{t,Rd,OG1} := \min(N_{u,Rd,OG1}, N_{pl,Rd,OG1}) = (2.068 \cdot 10^3) \text{ kN} \quad \text{Dimensjonerende strekkapasitet iht. EC3 pkt. 6.2.3(2)}$$

$$N_{c,Rd,OG1} := A_{eff1} \cdot 0.85 \cdot f_{cd} + A_{s,OG1} \cdot f_{yd} = (4.315 \cdot 10^3) \text{ kN} \quad \text{Dimensjonerende trykkapasitet for samvirke iht. EC4 (6.30)}$$

**OG-2:**

$$L_2 := 2896 \text{ mm}$$

Lengde minste spenn OG-2

$$L_{e2} := L_2 \cdot 0.7 = 2.027 \text{ m}$$

Ekvivalent spennlengde iht. EC4 figur 5.1

$$b_{02} := 0.314 \text{ m}$$

Avstand mellom skjærdebyler

*Effektiv bredde mot kant:*

$$b_{21} := 1.483 \text{ m}$$

Avstand fra skjærdebyel til kant betongdekke

$$b_{e21} := \min\left(\frac{L_{e2}}{8}, b_{21}\right) = 0.253 \text{ m}$$

Iht. EC4 pkt. 5.4.1.2(5)

*Effektiv bredde mot midt:*

$$b_{22} := 1.45 \text{ m} + 0.35 \text{ m} + 0.033 \text{ m} = 1.833 \text{ m}$$

$$b_{e22} := \min\left(\frac{L_{e2}}{8}, b_{22}\right) = 0.253 \text{ m}$$

Iht. EC4 pkt. 5.4.1.2(5)

$$b_{eff.2} := b_{02} + b_{e21} + b_{e22} = 0.82 \text{ m}$$

Effektiv bredde for et felt iht. EC4 (5.3)

*Effektivt betongareal:*

$$A_{c.eff.2} := 2 \cdot \left( 0.2 \text{ m} \cdot (0.15 \text{ m} + 0.23 \text{ m}) + 0.21 \text{ m} \cdot \frac{0.15 \text{ m}}{2} + 0.21 \text{ m} \cdot 0.23 \text{ m} \right) = 0.28 \text{ m}^2$$

$$A_{s.OG2} := 20480 \text{ mm}^2$$

Areal stål OG2

$$A_{eff.2} := A_{c.eff.2} - A_{s.OG2} = 0.26 \text{ m}^2$$

Effektivt betong areal uten stål

$$N_{pl.Rd.OG2} := A_{s.OG2} \cdot f_{yd} = (4.375 \cdot 10^3) \text{ kN}$$

Brutto strekkap. iht EC3 (6.6)

$$A_{s.red.OG2} := A_{s.OG2} - 4 \cdot 16 \text{ mm} \cdot 24 \text{ mm} = 0.019 \text{ m}^2$$

Nettoareal



$$N_{u.Rd.OG2} := 0.9 \cdot A_{s.red.OG2} \cdot f_{ud} = (4.673 \cdot 10^3) \text{ kN}$$

Netto strekkap. iht. EC3  
(6.7)

$$N_{t.Rd.OG2} := \min(N_{u.Rd.OG2}, N_{pl.Rd.OG2}) = (4.375 \cdot 10^3) \text{ kN}$$

Dim. strekkap. iht. EC3 pkt.  
6.2.3(2)

$$N_{c.Rd.OG2} := A_{eff.2} \cdot 0.85 \cdot f_{cd} + A_{s.OG2} \cdot f_{yd} = (6.582 \cdot 10^3) \text{ kN}$$

Dim. trykkapasitet iht. EC4  
(6.30)

### OG-3

$$L_3 := 3251 \text{ mm}$$

Minste lengde OG-3

$$L_{e3} := 0.7 \cdot L_3 = 2.276 \text{ m}$$

Effektiv spennlengde iht. EC4 figur 5.1

$$b_{03} := 0.316 \text{ m}$$

Avstand mellom skjærdebyler

*Effektiv bredde mot kant:*

Avstand fra skjærdebyel til kant betongdekke

$$b_{31} := 1.5 \text{ m}$$

$$b_{e31} := \min\left(\frac{L_{e3}}{8}, b_{31}\right) = 0.284 \text{ m}$$

Iht. EC4 pkt. 5.4.1.2(5)

*Effektiv bredde mot midt:*

$$b_{32} := \frac{1.45 \text{ m} + 0.35 \text{ m} + 0.05 \text{ m}}{2} = 0.925 \text{ m}$$

$$b_{e32} := \min\left(\frac{L_{e3}}{8}, b_{32}\right) = 0.284 \text{ m}$$

Iht. EC4 pkt. 5.4.1.2(5)

$$b_{eff.3} := b_{03} + b_{e31} + b_{e32} = 0.88 \text{ m}$$

Effektiv bredde for et felt iht.  
EC4 (5.3)

*Effektivt betongareal:*

$$A_{c.eff.3} := 2 \cdot \left( 0.2 \text{ m} \cdot (0.15 \text{ m} + 0.23 \text{ m}) + 0.24 \text{ m} \cdot \frac{0.15 \text{ m}}{2} + 0.24 \text{ m} \cdot 0.23 \text{ m} \right) = 0.298 \text{ m}^2$$

$$A_{s. OG3} := 21280 \text{ mm}^2$$

Areal stål OG3

$$A_{eff.3} := A_{c. eff.3} - A_{s. OG3} = 0.277 \text{ m}^2$$

Effektivt betong areal uten stål:

$$A_{s. red. OG3} := A_{s. OG3} - 4 \cdot 16 \text{ mm} \cdot 26 \text{ mm} = 0.02 \text{ m}^2$$

Nettoareal

$$N_{u. Rd. OG2} := 0.9 \cdot A_{s. red. OG3} \cdot f_{ud} = (4.839 \cdot 10^3) \text{ kN}$$

Netto strekkap. iht. EC3  
(6.7)

$$N_{pl. Rd. OG3} := A_{s. OG3} \cdot f_{yd} = (4.546 \cdot 10^3) \text{ kN}$$

Brutto strekkap. iht EC3 (6.6)

$$N_{t. Rd. OG3} := \min(N_{pl. Rd. OG3}, N_{u. Rd. OG2}) = (4.546 \cdot 10^3) \text{ kN}$$

Dim. strekkap. iht. EC3 pkt.  
6.2.3(2)

$$N_{c. Rd. OG3} := A_{eff.3} \cdot 0.85 \cdot f_{cd} + A_{s. OG3} \cdot f_{yd} = (6.902 \cdot 10^3) \text{ kN}$$

Dim. trykkkapasitet iht. EC4  
(6.30)

## Vedlegg D.7 Kontroll av endespenn

## Endespenn:

Kommentar: Når det i denne beregningen er henvist til:  
- EC3 vil det si NS-EN 1993-1-1:2005+A1:2014+NA:2015  
- Hb.R412 vil det si Statens vegvesens håndbok R412 (rundskriv)

Inngangsdata:

$$f_y := 235 \frac{N}{mm^2} \quad \text{Flytegrensestål iht Hb.R412}$$
$$\gamma_{M0} := 1.1 \quad \text{Materialfaktorer iht EC3-1-1 og EC3-2}$$
$$\gamma_{M1} := 1.2$$
$$f_{cd} := \frac{14}{1.4} \frac{N}{mm^2} \quad \text{Dim. betongfasthet iht Hb.R412}$$

Profilverdier hentet fra SAP200:

$$h_{DIP90} := 900 \text{ mm} \quad b_{DIP90} := 300 \text{ mm} \quad t_{w,DIP90} := 19 \text{ mm} \quad t_{f,DIP90} := 36 \text{ mm}$$
$$A_{DIP90} := 37332 \text{ mm}^2 \quad I_{y,DIP90} := 4932211824 \text{ mm}^4 \quad I_{z,DIP90} := 162473271 \text{ mm}^4$$
$$W_{y,el,DIP90} := 10960471 \text{ mm}^3 \quad W_{z,el,DIP90} := 1083155 \text{ mm}^3 \quad r_{DIP90} := 29.5 \text{ mm}$$
$$W_{y,pl,DIP90} := 12587724 \text{ mm}^3 \quad W_{z,pl,DIP90} := 1694727 \text{ mm}^3$$
$$i_{y,DIP90} := 363.5 \text{ mm} \quad i_{z,DIP90} := 66.0 \text{ mm}$$
$$h_{w,DIP90} := h_{DIP90} - 2 \cdot t_{f,DIP90} = 0.828 \text{ m}$$

Beregning av tverrsnittsklasse:

$$\varepsilon := \sqrt{\frac{235 \frac{N}{mm^2}}{f_y}}$$

$$C_{w,DIP90} := h_{DIP90} - 2 \cdot t_{f,DIP90} - 2 \cdot r_{DIP90}$$

Steghøyde uten flensbredde og radius

$$\begin{aligned}
 \text{Tverrsnittsklasse} := & \text{if } \frac{C_{w.DIP90}}{t_{w.DIP90}} \leq 72 \varepsilon & = \text{"1"} & \text{Tverrsnittsklasse 1 for steg} \\
 & \parallel \text{"1"} & & \text{utsettes for trykk iht. EC3} \\
 & \text{else if } 72 \varepsilon < \frac{C_{w.DIP90}}{t_{w.DIP90}} \leq 83 \varepsilon & & \text{Tabell 5.2} \\
 & \parallel \text{"2"} & & \\
 & \text{else if } 83 \varepsilon < \frac{C_{w.DIP90}}{t_{w.DIP90}} \leq 124 \varepsilon & & \\
 & \parallel \text{"3"} & & \\
 & \text{else if } 124 \varepsilon < \frac{C_{w.DIP90}}{t_{w.DIP90}} & & \\
 & \parallel \text{"4"} & &
 \end{aligned}$$

Endespenn har rullelager, og det vil derfor ikke oppstå mye trykk. Kontrolleres ikke mot dette

$$C_{f.DIP90} := \frac{b_{DIP90} - t_{w.DIP90} - 2 \cdot r_{DIP90}}{2} \quad \text{Flensbredde uten steg og radius}$$

$$\begin{aligned}
 \text{Tverrsnittsklasse} := & \text{if } \frac{C_{f.DIP90}}{t_{f.DIP90}} \leq 9 \varepsilon & = \text{"1"} & \text{Tverrsnittsklasse 1 for flens} \\
 & \parallel \text{"1"} & & \text{utsatt for trykk iht. EC3} \\
 & \text{else if } 9 \varepsilon < \frac{C_{f.DIP90}}{t_{f.DIP90}} \leq 10 \varepsilon & & \text{Tabell 5.2} \\
 & \parallel \text{"2"} & & \\
 & \text{else if } 10 \varepsilon < \frac{C_{f.DIP90}}{t_{f.DIP90}} \leq 14 \varepsilon & & \\
 & \parallel \text{"3"} & & \\
 & \text{else if } 14 \varepsilon < \frac{C_{f.DIP90}}{t_{f.DIP90}} & & \\
 & \parallel \text{"4"} & &
 \end{aligned}$$

Kontrollberegning av plastisk motstandsmoment  
hentet fra SAP2000 mot profiltabell:

$$S_{y,DIP90} := 6294 \text{ cm}^3$$

1. Arealmoment, "gamle profiler"

$$W_{y,pl.DIP90.kontroll} := 2 \cdot S_{y,DIP90}$$

Motstandsmoment,  
dobbeltsymmetrisk tv.snitt

$$\frac{W_{y,pl.DIP90.kontroll}}{W_{y,pl.DIP90}} = 1$$

Forholdet motstandsmomentet om y

Plastisk nøytralakse i z-retning går gjennom midten av steget da  
profilen er dobbeltsymmetrisk og Areal trykk=Areal strekk

Deler alle tverrsnittsdelenene inn i rektangler som medfører  $W_{z,pl} = \frac{1}{4} * \sum hb^2$

$$W_{z,pl.DIP90.kontroll} := \frac{1}{4} \cdot \text{mm}^3 \cdot (36 \cdot 300^2 \cdot 2 + (900 - 2 \cdot (36 + 29.5)) \cdot 19^2) = (1.689 \cdot 10^6) \text{ mm}^3$$

$$\frac{W_{z,pl.DIP90.kontroll}}{W_{z,pl.DIP90}} = 1$$

Forholdet motstandsmomentet om z

Plastisk motstandsmomentet for DIP90 stemmer mellom verdier fra SAP2000 og profiltabell

### Kapasiteter:

*Momentkapasitet:*

$$M_{y,pl.Rd.DIP90} := \frac{W_{y,pl.DIP90} \cdot f_y}{\gamma_{M0}} = (2.689 \cdot 10^3) \text{ kN} \cdot \text{m}$$

Plastisk momentkapasitet i y- og  
z-retning EC3 (6.13)

$$M_{z,pl.Rd.DIP90} := \frac{W_{z,pl.DIP90} \cdot f_y}{\gamma_{M0}} = 362.055 \text{ kN} \cdot \text{m}$$

*Skjærareal om z og y:*

Beregnet iht. EC3 pkt. 6.2.6(3)

$$A_{V,z} := \max(A_{DIP90} - 2 b_{DIP90} \cdot t_{f,DIP90} + (t_{w,DIP90} + 2 r_{DIP90}) \cdot t_{f,DIP90}, 1 \cdot h_{w,DIP90} \cdot t_{w,DIP90})$$

$$A_{V,z} = (1.854 \cdot 10^4) \text{ mm}^2$$

$$A_{V.y} := A_{DIP90} - h_{w.DIP90} \cdot t_{w.DIP90} = 0.022 \text{ m}^2$$

$$A_{V.y} = (2.16 \cdot 10^4) \text{ mm}^2$$

Skjærkapasitet:

$$V_{z.pl.Rd} := \frac{A_{V.z} \cdot f_y \cdot \sqrt{3}}{\gamma_{M0}} = (6.86 \cdot 10^3) \text{ kN}$$

Plastisk skjærkapasitet i z- og y-retning iht. EC3 (6.18)

$$V_{y.pl.Rd} := \frac{A_{V.y} \cdot f_y \cdot \sqrt{3}}{\gamma_{M0}} = (7.993 \cdot 10^3) \text{ kN}$$

$$V_{z.Ed} := 622 \text{ kN}$$

Dimensjonerende skjærkraft

|                                                                                                                                                                                                                                  |                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| $\text{Interaksjonskontroll} := \begin{cases} \text{if } V_{z.pl.Rd} \geq 2 \cdot V_{z.Ed} \\ \quad \parallel \text{ "Ok" } \\ \text{else if } V_{z.pl.Rd} < 2 \cdot V_{z.Ed} \\ \quad \parallel \text{ "Ikke Ok" } \end{cases}$ | $= \text{ "Ok" }$ <p>Trenger ikke interaksjon pga. skjær iht. EC3 pkt. 6.2.8(2)</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|

$$M_{y.Ed} := 2385 \text{ kN} \cdot \text{m}$$

Dimensjonerende moment om y

Kontroll moment iht. EC3 (6.12):

|                                                                                                                                                                                                                                     |                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| $\text{Kapasitetskontrollmoment} := \begin{cases} \text{if } M_{y.pl.Rd.DIP90} \geq M_{y.Ed} \\ \quad \parallel \text{ "Ok" } \\ \text{else if } M_{y.pl.Rd.DIP90} \leq M_{y.Ed} \\ \quad \parallel \text{ "Ikke Ok" } \end{cases}$ | $= \text{ "Ok" }$ |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|

$$\text{Utnyttelse} := \frac{M_{y.Ed}}{M_{y.pl.Rd.DIP90}} = 0.887$$

Her er det i tillegg antatt at stålet tar opp 100% av momentet

### Vippekontroll av endespenn:

$$f_y := 235 \frac{N}{mm^2} \quad \text{Flytegrense iht. Hb.R412}$$

$$\gamma_{M1} := 1.2 \quad \text{Materialfaktor iht. Hb.R412}$$

$$W_y := 12587724 \text{ mm}^3 \quad \text{Plastisk motstandsmoment fra SAP2000}$$

$$h := 900 \text{ mm} \quad b := 300 \text{ mm} \quad t_f := 36 \text{ mm} \quad t_w := 19 \text{ mm} \quad h_w := h - 2 \cdot t_f$$

$$E := 2.1 \cdot 10^5 \frac{N}{mm^2} \quad \text{E-modul stål}$$

Dimensjonerende moment:

$$M_{y.Ed} := 2385 \text{ kN} \cdot \text{m}$$

Fastholdelse av endespenn iht. EC3-1-1 okt. 6.3.2.4:

$$M_{c.Rd} := W_y \cdot \frac{f_y}{\gamma_{M1}} = (2.465 \cdot 10^3) \text{ kN} \cdot \text{m}$$

Relative slankhet:

$$k_c := 0.94 \quad \text{Korreksjonsfaktor for momentform Iht. EC3-1-1 tab. 6.6}$$

$$I_{f.z} := \frac{1}{12} \cdot t_f \cdot b^3 \quad \text{2. Arealmoment for ekvivalent trykkflens om svak akse}$$

$$A_{trykk} := t_f \cdot b + \frac{1}{6} \cdot t_w \cdot h_w \quad \text{Areal trykkflens + 1/3 av trykkpåkjent stegareal}$$

$$i_{f.z} := \sqrt{\frac{I_{f.z}}{A_{trykk}}} \quad \text{Treghetsradius for ekvivalent trykkflens om svak akse}$$

$$\lambda_1 := \pi \cdot \sqrt{\frac{E}{f_y}} \quad \text{Flyteslankhet}$$

$$\lambda_{LT.0} := 0.4 \quad \text{Parameter}$$

$$\lambda_{c0} := \lambda_{LT.0} + 0.1 \quad \text{Relativ grenseslankhet}$$

$$L_{c.1} := 4 \text{ m} \quad \text{Test av kritisk vippelengde}$$



$$\lambda_{f.1} := \frac{k_c \cdot L_{c.1}}{i_{f.z} \cdot \lambda_1}$$

$$\begin{aligned} \text{Kontroll.fastholdelse} &:= \text{if } \lambda_{f.1} \leq \lambda_{c0} \cdot \frac{M_{c.Rd}}{M_{y.Ed}} && = \text{"Ok"} \\ &\quad \parallel \text{"Ok"} \\ &\text{else if } \lambda_{f.1} > \lambda_{c0} \cdot \frac{M_{c.Rd}}{M_{y.Ed}} \\ &\quad \parallel \text{"Ikke Ok"} \end{aligned}$$

Iht. EC3-1-1 (6.59)

### Test av ny vippelengde:

$$L_{c.2} := 4.05 \text{ m}$$

Ny kritisk vippelengde

$$\lambda_{f.2} := \frac{k_c \cdot L_{c.2}}{i_{f.z} \cdot \lambda_1}$$

$$\begin{aligned} \text{Kontroll.fastholdelse} &:= \text{if } \lambda_{f.2} \leq \lambda_{c0} \cdot \frac{M_{c.Rd}}{M_{y.Ed}} && = \text{"Ikke Ok"} \\ &\quad \parallel \text{"Ok"} \\ &\text{else if } \lambda_{f.2} > \lambda_{c0} \cdot \frac{M_{c.Rd}}{M_{y.Ed}} \\ &\quad \parallel \text{"Ikke Ok"} \end{aligned}$$

Iht. EC3-1-1 (6.59)

## Vedlegg D.8 Kontroll av knutepunkt

## Knutepunkt 18

Stålkvalitet

$$f_y := 235 \frac{N}{mm^2} \quad f_d := \frac{f_y}{1.2} = 195.833 \frac{N}{mm^2}$$

Nagler etter Hb R412

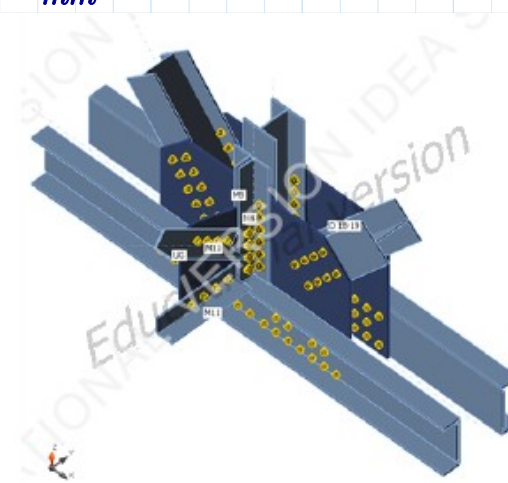
$$f_u := 340 \frac{N}{mm^2}$$

Input:

Diagonal 18-19

Last:

$$V_{ed} := 301 \text{ kN}$$



$$d_0 := 16 \text{ mm}$$

$$d := d_0 + 1 \text{ mm}$$

$$t := 10 \text{ mm}$$

Flensen på diagonalstaven er 10mm. Platen har samme tykkelse 10mm.

$$e_1 := 35 \text{ mm} \quad \text{Endeavstand, horisontal ende}$$

$$e_2 := 45 \text{ mm} \quad \text{Kantavstand, vertikal kant}$$

$$p_1 := 70 \text{ mm} \quad \text{Hullavstand, horisontal}$$

$$p_2 := 90 \text{ mm} \quad \text{Hullavstand, vertikal}$$

$$n_{nagler} := 16 \quad \text{4 Nagler per rad, 2 rader, på begge flenser/} \\ \text{dobbeltsnittet. } 4 \times 2 \times 2 = 16$$

$$A_0 := \pi \cdot \left( \frac{d_0}{2} \right)^2 = 2.011 \text{ cm}^2$$

$$f_{ub} := 340 \frac{N}{mm^2} \quad \text{Naglers bruddspenning, etter HB R412}$$

$$f_u := 370 \frac{N}{mm^2} \quad \text{Grunnmaterialets} \\ \text{bruddspenning}$$

$$\gamma_{m2} := 1.25$$

$$\text{Naglers avskjæringskapasitet:} \quad F_{v.Rd} := \frac{0.6 \cdot f_{ub} \cdot A_0}{\gamma_{m2}} = 32.813 \text{ kN}$$

## Hullkanttrykkkapasitet

### Hullkanttrykk

$$\text{For endeskruer: } \alpha_{d.ende} := \frac{e_1}{3 \cdot d_0} = 0.729$$

$$\text{for innvendige skruer: } \alpha_{d.inn} := \frac{p_1}{3 \cdot d_0} - \frac{1}{4} = 1.208$$

Velger minste verdi for innvendig eller endeskruer

$$\alpha_d := \min(\alpha_{d.inn}, \alpha_{d.ende}) = 0.729$$

$$\text{Skruer langs randen } k_{1.rand} := \min\left(2.8 \cdot \frac{e_2}{d_0} - 1.7, 1.4 \cdot \frac{p_2}{d_0} - 1.7, 2.5\right) = 2.5$$

$$\text{Innvendige skruer } k_{1.inn} := \min\left(1.4 \cdot \frac{p_2}{d_0} - 1.7, 2.5\right) = 2.5$$

Velger minste verdi langs randen eller innvendige skruer. Konservativ metode

$$k_1 := \min(k_{1.inn}, k_{1.rand}) = 2.5$$

$$\text{Tab. 3.1, her: } 8.8 \quad f_{ub} := 800 \frac{N}{mm^2} \quad \alpha_b := \min\left(\alpha_d, \frac{f_{ub}}{f_u}, 1\right) = 0.73$$

### Hullkantkapasitet

$$F_{b.Rd} := \frac{k_1 \cdot \alpha_b \cdot f_u \cdot d \cdot t}{1.25} = 91.729 \text{ kN}$$

$$\frac{F_{b.Rd}}{F_{v.Rd}} = 2.795$$

### Utringing av skruegruppe

$$\gamma_{M0} := 1.20$$

$$A_{nt} := (90 - 17) \text{ mm} \cdot 10 \text{ mm} \cdot 2 = (1.46 \cdot 10^3) \text{ mm}^2$$

$$A_{nv} := 3910 \text{ mm}^2 - 162 \text{ mm} \cdot 6.5 \text{ mm} = (2.857 \cdot 10^3) \text{ mm}^2$$

Kapasiteten for symmetriske skruegrupper med sentrisk belastning er gitt ved NS-En 1993-1-8:

$$N_{eff.Rd} := \frac{f_u \cdot A_{nt}}{\gamma_{m2}} + \frac{f_y \cdot A_{nv}}{\sqrt{3} \cdot \gamma_{M0}} = 755.185 \text{ kN}$$

Ant er nettoarealet utsatt for strekk

Anv er nettoarealet utsatt for skjær, erstattes med brutto skjærareal Av

Sammenlignet med kapasitet for skruegruppen:

$$F_{v.Rd} \cdot n_{nagler} = 525.013 \text{ kN}$$

Ser at utrivning ikke er aktuelt.

Naglers kapasitet er da gitt ved avskjæringskapasiteten:

$$F_d := \min(F_{v.Rd}, F_{b.Rd}) = 32.813 \text{ kN}$$

Avskjæringskraft pr skrue:

$$F_{v.Ed} := \frac{V_{ed}}{n_{nagler}} = 18.813 \text{ kN}$$

Utnyttelsesgrad:

$$\frac{F_{v.Ed}}{F_d} = 0.573$$

## Knutepunkt 22

Stålkvalitet

$$f_y := 235 \frac{N}{mm^2} \quad f_d := \frac{f_y}{1.2} = 195.833 \frac{N}{mm^2}$$

Nagler etter Hb R412

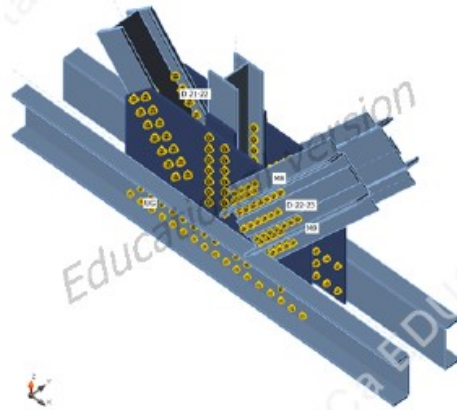
$$f_u := 340 \frac{N}{mm^2}$$

Input:

Diagonal 22-23

Last:

$$V_{ed} := 958 \text{ kN}$$



$$d_0 := 19 \text{ mm}$$

$$d := d_0 + 1 \text{ mm}$$

$$t := 8.5 \text{ mm}$$

Steget på diagonalstaven er 8,5mm. Platen har tykkelse 10mm.

$$e_1 := 35 \text{ mm} \quad \text{Endeavstand, horisontal ende}$$

$$e_2 := 37 \text{ mm} \quad \text{Kantavstand, vertikal kant}$$

$$p_1 := 60 \text{ mm} \quad \text{Hullavstand, horisontal}$$

$$p_2 := 63 \text{ mm} \quad \text{Hullavstand, vertikal}$$

$$n_{nagler} := 30 \quad \text{4 Nagler per rad, 2 rader, på begge flenser/} \\ \text{dobbeltsnittet. } 4 \times 2 \times 2 = 16$$

$$A_0 := \pi \cdot \left( \frac{d_0}{2} \right)^2 = 2.835 \text{ cm}^2$$

$$f_{ub} := 340 \frac{N}{mm^2} \quad \text{Naglers bruddspenning, etter HB R412}$$

$$f_u := 370 \frac{N}{mm^2} \quad \text{Grunnmaterialets} \\ \text{bruddspenning}$$

$$\gamma_{m2} := 1.25$$

Naglers avskjæringskapasitet:

$$F_{v.Rd} := \frac{0.6 \cdot f_{ub} \cdot A_0}{\gamma_{m2}} = 46.272 \text{ kN}$$

## Hullkantrykkkapasitet

### Hullkantrykk

$$\text{For endeskruer: } \alpha_{d.ende} := \frac{e_1}{3 \cdot d_0} = 0.614$$

$$\text{for innvendige skruer: } \alpha_{d.inn} := \frac{p_1}{3 \cdot d_0} - \frac{1}{4} = 0.803$$

Velger minste verdi for  
innvendig eller endeskruer

$$\alpha_d := \min(\alpha_{d.inn}, \alpha_{d.ende}) = 0.614$$

$$\text{Skruer langs randen } k_{1.rand} := \min\left(2.8 \cdot \frac{e_2}{d_0} - 1.7, 1.4 \cdot \frac{p_2}{d_0} - 1.7, 2.5\right) = 2.5$$

$$\text{Innvendige skruer } k_{1.inn} := \min\left(1.4 \cdot \frac{p_2}{d_0} - 1.7, 2.5\right) = 2.5$$

Velger minste verdi langs randen eller  
innvendige skruer. Konservativ metode

$$k_1 := \min(k_{1.inn}, k_{1.rand}) = 2.5$$

$$\text{Tab. 3.1, her: 8.8 } f_{ub} := 800 \frac{N}{mm^2}$$

$$\alpha_b := \min\left(\alpha_d, \frac{f_{ub}}{f_u}, 1\right) = 0.61$$

### Hullkantkapasitet

$$F_{b.Rd} := \frac{k_1 \cdot \alpha_b \cdot f_u \cdot d \cdot t}{1.25} = 77.246 \text{ kN}$$

$$\frac{F_{b.Rd}}{F_{v.Rd}} = 1.669$$

### Utriving av skruengruppe

$$\gamma_{M0} := 1.20$$

$$A_{nt} := (90 - 17) \text{ mm} \cdot 10 \text{ mm} \cdot 2 = (1.46 \cdot 10^3) \text{ mm}^2$$

$$A_{nv} := 3910 \text{ mm}^2 - 162 \text{ mm} \cdot 6.5 \text{ mm} = (2.857 \cdot 10^3) \text{ mm}^2$$

Kapasiteten for symmetriske skruengrupper med  
sentrisk belastning er gitt ved NS-En 1993-1-8:

$$N_{eff.Rd} := \frac{f_u \cdot A_{nt}}{\gamma_{m2}} + \frac{f_y \cdot A_{nv}}{\sqrt{3} \cdot \gamma_{M0}} = 755.185 \text{ kN}$$

Ant er nettoarealet utsatt  
for strekk

Anv er nettoarealet utsatt  
for skjær, erstattes med  
brutto skjærareal Av

Sammenlignet med kapasitet for skruegruppen:

$$F_{v.Rd} \cdot n_{nagler} = (1.388 \cdot 10^3) \text{ kN}$$

Ser at utrivning ikke er aktuelt.

Naglers kapasitet er da gitt ved avskjæringskapasiteten:

$$F_d := \min(F_{v.Rd}, F_{b.Rd}) = 46.272 \text{ kN}$$

Avskjæringskraft pr skrue:

$$F_{v.Ed} := \frac{V_{ed}}{n_{nagler}} = 31.933 \text{ kN}$$

Utnyttelsesgrad:

$$\frac{F_{v.Ed}}{F_d} = 0.69$$



## **Vedlegg E: Håndberegninger i Excel**

## Vedlegg E.1 Aksialkapasiteter

Beregning av stavenes strekk- og trykkapasitet etter NS-EN 1993-1-1, detaljert fremgangsmåte er beskrevet tidligere

|                |               |            |
|----------------|---------------|------------|
| Inngangsdata:  |               |            |
| Flytegrense:   | $f_y$         | 235 Mpa    |
| Strekkfasthet: | $f_u$         | 370 MPa    |
| Materialfaktor | $\gamma_{M0}$ | 1,1        |
|                | $\gamma_{M1}$ | 1,2        |
|                | $\gamma_{M2}$ | 1,35       |
| E-modul stål   | $E_s$         | 210000 Mpa |
| Flyteslankhet  | $\lambda_1$   | 93,91      |

| Tverrsnittsverdier er hentet fra SAP2000 |       |                  |      | Knekkning ut av planet |           |                  |                |            |                   |          |          |                     |                | Knekkning i planet |                  |                |            |                   |          |          |                     |                     |                   |                   |                   |
|------------------------------------------|-------|------------------|------|------------------------|-----------|------------------|----------------|------------|-------------------|----------|----------|---------------------|----------------|--------------------|------------------|----------------|------------|-------------------|----------|----------|---------------------|---------------------|-------------------|-------------------|-------------------|
| Element navn                             | A     | A <sub>net</sub> | L    | I <sub>z</sub>         | $\beta_z$ | L <sub>k,z</sub> | i <sub>z</sub> | $\alpha_z$ | $\bar{\lambda}_z$ | $\phi_z$ | $\chi_z$ | N <sub>b,Rd,z</sub> | I <sub>y</sub> | $\beta_y$          | L <sub>k,y</sub> | i <sub>y</sub> | $\alpha_y$ | $\bar{\lambda}_y$ | $\phi_y$ | $\chi_y$ | N <sub>b,Rd,y</sub> | N <sub>c,Rd,1</sub> | N <sub>b,Rd</sub> | N <sub>t,Rd</sub> | N <sub>c,Rd</sub> |
| UG-1                                     | 8486  | 7517             | 6500 | 1,37E+08               | 1         | 6500             | 127,1          | 0,49       | 0,54              | 0,73     | 0,82     | 1359                | 7,25E+07       | 0,7                | 4550             | 92,4           | 0,49       | 0,52              | 0,72     | 0,83     | 1378                | 1813                | 1359              | 1813              | 1359              |
| UG-2                                     | 13526 | 10706            | 5750 | 2,06E+08               | 1         | 5750             | 123,3          | 0,49       | 0,50              | 0,70     | 0,84     | 2238                | 8,61E+07       | 0,7                | 4025             | 79,8           | 0,49       | 0,54              | 0,73     | 0,82     | 2177                | 2890                | 2177              | 2641              | 2177              |
| UG-3                                     | 14966 | 12161            | 5750 | 2,28E+08               | 1         | 5750             | 123,5          | 0,49       | 0,50              | 0,70     | 0,85     | 2478                | 9,00E+07       | 0,7                | 4025             | 77,6           | 0,49       | 0,55              | 0,74     | 0,81     | 2383                | 3197                | 2383              | 3000              | 2383              |
| UG-4                                     | 11366 | 9581             | 6500 | 1,74E+08               | 1         | 6500             | 123,8          | 0,49       | 0,56              | 0,74     | 0,81     | 1801                | 8,03E+07       | 0,7                | 4550             | 84,1           | 0,49       | 0,58              | 0,76     | 0,80     | 1779                | 2428                | 1779              | 2363              | 1779              |
| UG-5                                     | 12806 | 10613            | 6500 | 1,95E+08               | 1         | 6500             | 123,3          | 0,49       | 0,56              | 0,75     | 0,81     | 2027                | 8,42E+07       | 0,7                | 4550             | 81,1           | 0,49       | 0,60              | 0,78     | 0,79     | 1973                | 2736                | 1973              | 2618              | 1973              |
| UG-6                                     | 14246 | 11645            | 6500 | 2,17E+08               | 1         | 6500             | 123,3          | 0,49       | 0,56              | 0,75     | 0,81     | 2255                | 8,81E+07       | 0,7                | 4550             | 78,6           | 0,49       | 0,62              | 0,79     | 0,78     | 2164                | 3043                | 2164              | 2872              | 2164              |
| UG-7                                     | 16166 | 12866            | 3250 | 2,18E+08               | 1         | 3250             | 116,0          | 0,49       | 0,30              | 0,57     | 0,95     | 3008                | 1,03E+08       | 0,7                | 2275             | 80,0           | 0,49       | 0,30              | 0,57     | 0,95     | 3000                | 3454                | 3000              | 3174              | 3000              |
| UG-8                                     | 6408  | 5288             | 2408 | 3,74E+07               | 1         | 2408             | 76,4           | 0,34       | 0,34              | 0,58     | 0,95     | 1193                | 1,36E+07       | 0,7                | 1686             | 46,1           | 0,49       | 0,39              | 0,62     | 0,90     | 1133                | 1369                | 1133              | 1304              | 1133              |
| V-1                                      | 5608  | 4968             | 1360 | 8,47E+07               | 1         | 1360             | 122,9          | 0,49       | 0,12              | 0,49     | 1,00     | 1098                | 2,73E+07       | 0,7                | 952              | 69,7           | 0,49       | 0,15              | 0,50     | 1,00     | 1098                | 1198                | 1098              | 1198              | 1098              |
| V-2                                      | 4528  | 3728             | 2750 | 2,52E+07               | 1         | 2750             | 74,5           | 0,34       | 0,39              | 0,61     | 0,93     | 824                 | 9,25E+06       | 0,7                | 1925             | 45,2           | 0,49       | 0,45              | 0,67     | 0,87     | 770                 | 967                 | 770               | 920               | 770               |
| V-3                                      | 3618  | 2818             | 3902 | 1,52E+07               | 1         | 3902             | 64,8           | 0,34       | 0,64              | 0,78     | 0,82     | 578                 | 5,81E+06       | 0,7                | 2731             | 40,1           | 0,49       | 0,73              | 0,89     | 0,71     | 502                 | 773                 | 502               | 695               | 502               |
| V-4                                      | 2804  | 2532             | 3897 | 1,36E+07               | 1         | 3897             | 69,7           | 0,49       | 0,59              | 0,77     | 0,79     | 433                 | 1,30E+06       | 0,7                | 2728             | 21,6           | 0,49       | 1,35              | 1,69     | 0,37     | 203                 | 599                 | 203               | 599               | 203               |
| D-1                                      | 6408  | 5456             | 5074 | 3,74E+07               | 1         | 5074             | 76,4           | 0,34       | 0,71              | 0,84     | 0,78     | 979                 | 1,36E+07       | 0,7                | 3552             | 46,1           | 0,49       | 0,82              | 0,99     | 0,65     | 815                 | 1369                | 815               | 1346              | 815               |
| D-2                                      | 4528  | 3848             | 5024 | 2,52E+07               | 1         | 5024             | 74,5           | 0,34       | 0,72              | 0,85     | 0,77     | 686                 | 9,25E+06       | 0,7                | 3517             | 45,2           | 0,49       | 0,83              | 1,00     | 0,64     | 571                 | 967                 | 571               | 949               | 571               |
| D-3                                      | 10008 | 9328             | 4014 | 7,00E+07               | 1         | 4010             | 83,6           | 0,34       | 0,51              | 0,68     | 0,88     | 1724                | 2,33E+07       | 0,7                | 2810             | 48,3           | 0,49       | 0,62              | 0,79     | 0,77     | 1516                | 2138                | 1516              | 2138              | 1516              |
| D-4                                      | 6459  | 5779             | 4014 | 9,96E+07               | 1         | 4014             | 124,2          | 0,49       | 0,34              | 0,59     | 0,93     | 1172                | 3,85E+07       | 0,7                | 2810             | 77,2           | 0,49       | 0,39              | 0,62     | 0,90     | 1143                | 1380                | 1143              | 1380              | 1143              |
| D-5                                      | 7739  | 6419             | 4826 | 1,16E+08               | 1         | 4826             | 122,3          | 0,49       | 0,42              | 0,64     | 0,89     | 1344                | 3,92E+07       | 0,7                | 3378             | 71,2           | 0,49       | 0,51              | 0,70     | 0,84     | 1273                | 1653                | 1273              | 1583              | 1273              |
| D-6                                      | 10408 | 8488             | 4308 | 7,36E+07               | 1         | 4308             | 84,1           | 0,34       | 0,55              | 0,71     | 0,86     | 1760                | 2,70E+07       | 0,7                | 3016             | 50,9           | 0,49       | 0,63              | 0,80     | 0,77     | 1563                | 2224                | 1563              | 2094              | 1563              |
| D-7                                      | 10459 | 8739             | 4384 | 1,36E+08               | 1         | 4384             | 113,9          | 0,49       | 0,41              | 0,64     | 0,89     | 1827                | 5,19E+07       | 0,7                | 3069             | 70,4           | 0,49       | 0,46              | 0,67     | 0,86     | 1767                | 2234                | 1767              | 2156              | 1767              |
| D-8                                      | 12867 | 11067            | 4384 | 1,22E+08               | 1         | 4384             | 97,3           | 0,49       | 0,48              | 0,68     | 0,85     | 2153                | 5,22E+07       | 0,7                | 3069             | 63,7           | 0,49       | 0,51              | 0,71     | 0,84     | 2105                | 2749                | 2105              | 2730              | 2105              |
| D-9                                      | 14894 | 13014            | 4728 | 1,54E+08               | 1         | 4728             | 101,8          | 0,49       | 0,49              | 0,69     | 0,85     | 2467                | 8,61E+07       | 0,7                | 3310             | 76,0           | 0,49       | 0,46              | 0,67     | 0,86     | 2518                | 3182                | 2467              | 3182              | 2467              |
| D-10                                     | 12086 | 10526            | 5074 | 1,70E+08               | 1         | 5074             | 118,5          | 0,49       | 0,46              | 0,67     | 0,87     | 2053                | 8,22E+07       | 0,7                | 3552             | 82,5           | 0,49       | 0,46              | 0,67     | 0,87     | 2049                | 2582                | 2049              | 2582              | 2049              |
| D-11                                     | 10808 | 8888             | 4826 | 7,72E+07               | 1         | 4826             | 84,5           | 0,34       | 0,61              | 0,75     | 0,83     | 1763                | 3,14E+07       | 0,7                | 3378             | 53,9           | 0,49       | 0,67              | 0,84     | 0,74     | 1576                | 2309                | 1576              | 2192              | 1576              |
| D-12                                     | 8379  | 6739             | 5057 | 1,25E+08               | 1         | 5057             | 122,0          | 0,49       | 0,44              | 0,66     | 0,88     | 1436                | 3,96E+07       | 0,7                | 3540             | 68,7           | 0,49       | 0,55              | 0,74     | 0,82     | 1338                | 1790                | 1338              | 1662              | 1338              |
| D-13                                     | 7368  | 6248             | 4907 | 3,79E+07               | 1         | 4907             | 71,8           | 0,34       | 0,73              | 0,85     | 0,77     | 1108                | 1,37E+07       | 0,7                | 3435             | 43,1           | 0,49       | 0,85              | 1,02     | 0,63     | 911                 | 1574                | 911               | 1541              | 911               |
| D-14                                     | 8328  | 6248             | 5024 | 4,74E+07               | 1         | 5024             | 75,4           | 0,34       | 0,71              | 0,84     | 0,78     | 1270                | 1,65E+07       | 0,7                | 3517             | 44,5           | 0,49       | 0,84              | 1,01     | 0,64     | 1037                | 1779                | 1037              | 1541              | 1037              |
| D-15                                     | 11208 | 9288             | 5057 | 8,08E+07               | 1         | 5057             | 84,9           | 0,34       | 0,63              | 0,77     | 0,82     | 1799                | 3,67E+07       | 0,7                | 3540             | 57,2           | 0,49       | 0,66              | 0,83     | 0,75     | 1646                | 2394                | 1646              | 2291              | 1646              |
| Kontroll:                                |       |                  |      |                        |           |                  |                |            |                   |          |          |                     |                |                    |                  |                |            |                   |          |          |                     |                     |                   |                   |                   |
| D-13, 7-8                                | 7368  | 6248             | 4232 | 3,79E+07               | 1         | 4232             | 71,8           | 0,34       | 0,63              | 0,77     | 0,82     | 1187                | 1,37E+07       | 0,7                | 2962             | 43,1           | 0,49       | 0,73              | 0,90     | 0,70     | 1017                | 1574                | 1017              | 1541              | 1017              |

## Vedlegg E.2 Dimensjonerende faktor i knutepunkt

Dimensjonerende faktor

| Akse,<br>fra - til | Element-<br>navn | Antall nagler pr<br>diameter |    | Nagle-<br>areal | Kapazität (kN) |            | Dimensjonerende faktor     |
|--------------------|------------------|------------------------------|----|-----------------|----------------|------------|----------------------------|
|                    |                  | 16                           | 19 |                 | Nagler         | Tverrsnitt |                            |
| -1-0               | D-2              | 4                            | 10 | 7279            | 1188           | 571        | Tverrsnitt dimensjonerende |
| 0-1                | D-3              |                              | 22 | 12475           | 2036           | 1516       | Tverrsnitt dimensjonerende |
| 1-2                | D-4              | 22                           |    | 8847            | 1444           | 1143       | Tverrsnitt dimensjonerende |
| 2-3                | D-1              |                              | 12 | 6805            | 1111           | 815        | Tverrsnitt dimensjonerende |
| 3-4                | D-2              | 10                           |    | 4021            | 656            | 571        | Tverrsnitt dimensjonerende |
| 4-5                | D-2              | 8                            |    | 3217            | 525            | 571        | Nagler dimensjonerende     |
| 5-6                | D-2              |                              | 8  | 4536            | 740            | 571        | Tverrsnitt dimensjonerende |
| 6-7                | D-2              | 14                           |    | 5630            | 919            | 571        | Tverrsnitt dimensjonerende |
| 7-8                | D-13             |                              | 14 | 7939            | 1296           | 911        | Tverrsnitt dimensjonerende |
| 8-9                | D-5              | 25                           |    | 10053           | 1641           | 1273       | Tverrsnitt dimensjonerende |
| 9-10               | D-6              |                              | 20 | 11341           | 1851           | 1563       | Tverrsnitt dimensjonerende |
| 10-11              | D-7              | 32                           |    | 12868           | 2100           | 1767       | Tverrsnitt dimensjonerende |
| 11-12              | D-8              | 2                            | 31 | 18383           | 3000           | 2105       | Tverrsnitt dimensjonerende |
| 12-13              | D-9              |                              | 34 | 19280           | 3146           | 2467       | Tverrsnitt dimensjonerende |
| 13-14              | D-10             | 36                           |    | 14476           | 2363           | 2049       | Tverrsnitt dimensjonerende |
| 14-15              | D-11             |                              | 22 | 12475           | 2036           | 1576       | Tverrsnitt dimensjonerende |
| 15-16              | D-5              | 26                           |    | 10455           | 1706           | 1273       | Tverrsnitt dimensjonerende |
| 16-17              | D-13             |                              | 12 | 6805            | 1111           | 911        | Tverrsnitt dimensjonerende |
| 17-18              | D-2              | 12                           |    | 4825            | 788            | 571        | Tverrsnitt dimensjonerende |
| 18-19              | D-2              | 8                            |    | 3217            | 525            | 571        | Nagler dimensjonerende     |
| 19-20              | D-2              | 10                           |    | 4021            | 656            | 571        | Tverrsnitt dimensjonerende |
| 20-21              | D-2              | 14                           |    | 5630            | 919            | 571        | Tverrsnitt dimensjonerende |
| 21-22              | D-14             |                              | 14 | 7939            | 1296           | 1037       | Tverrsnitt dimensjonerende |
| 22-23              | D-12             | 30                           |    | 12064           | 1969           | 1575       | Tverrsnitt dimensjonerende |
| 23-24              | D-15             |                              | 22 | 12475           | 2036           | 1646       | Tverrsnitt dimensjonerende |
| 24-25              | D-10             | 40                           |    | 16085           | 2625           | 2049       | Tverrsnitt dimensjonerende |
| 25-26              | D-9              |                              | 32 | 18146           | 2961           | 2467       | Tverrsnitt dimensjonerende |

## Vedlegg E.3 Knutepunktets utnyttelse

Utnyttelse av knutepunktene kapasitet mot faktisk belastning (kN)

| Akse<br>Fra - Til | Element-<br>navn | Kapasitet<br>nagler | Strekk-<br>krefter | Utnyttelse | Trykk-<br>krefter | Utnyttelse |
|-------------------|------------------|---------------------|--------------------|------------|-------------------|------------|
| -1-0              | D-2              | 1188                | 586                | 0,49       | 231               | 0,00       |
| 0-1               | D-3              | 2036                | -552               | 0,00       | -1339             | 0,66       |
| 1-2               | D-4              | 1444                | 1035               | 0,72       | 380               | 0,00       |
| 2-3               | D-1              | 1111                | -218               | 0,00       | -764              | 0,69       |
| 3-4               | D-2              | 656                 | 484                | 0,74       | 51                | 0,00       |
| 4-5               | D-2              | 525                 | 5                  | 0,01       | -244              | 0,46       |
| 5-6               | D-2              | 740                 | 5                  | 0,01       | -413              | 0,56       |
| 6-7               | D-2              | 919                 | 663                | 0,72       | 201               | 0,00       |
| 7-8               | D-13             | 1296                | -393               | 0,00       | -909              | 0,70       |
| 8-9               | D-5              | 1641                | 1147               | 0,70       | 534               | 0,00       |
| 9-10              | D-6              | 1851                | -661               | 0,00       | -1365             | 0,74       |
| 10-11             | D-7              | 2100                | 1581               | 0,75       | 790               | 0,00       |
| 11-12             | D-8              | 3000                | -894               | 0,00       | -1746             | 0,58       |
| 12-13             | D-9              | 3146                | -1002              | 0,00       | -1995             | 0,63       |
| 13-14             | D-10             | 2363                | 1671               | 0,71       | 803               | 0,00       |
| 14-15             | D-11             | 2036                | -628               | 0,00       | -1386             | 0,68       |
| 15-16             | D-5              | 1706                | 1080               | 0,63       | 446               | 0,00       |
| 16-17             | D-13             | 1111                | -272               | 0,00       | -819              | 0,74       |
| 17-18             | D-2              | 788                 | 544                | 0,69       | 21                | 0,00       |
| 18-19             | D-2              | 525                 | 216                | 0,41       | -301              | 0,57       |
| 19-20             | D-2              | 656                 | 55                 | 0,08       | -464              | 0,71       |
| 20-21             | D-2              | 919                 | 699                | 0,76       | 166               | 0,00       |
| 21-22             | D-14             | 1296                | -389               | 0,00       | -958              | 0,74       |
| 22-23             | D-12             | 1969                | 1194               | 0,61       | 531               | 0,00       |
| 23-24             | D-15             | 2036                | -692               | 0,00       | -1447             | 0,71       |
| 24-25             | D-10             | 2625                | 1710               | 0,65       | 858               | 0,00       |
| 25-26             | D-9              | 2961                | -969               | 0,00       | -1877             | 0,63       |

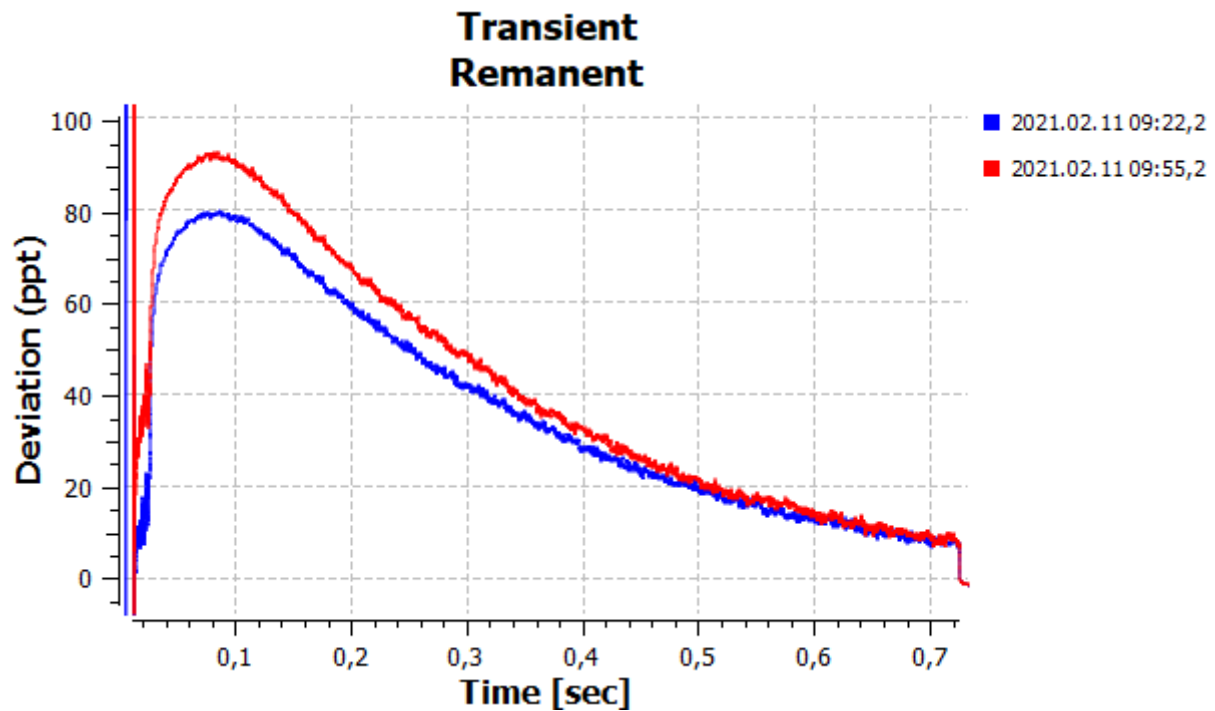
# **Vedlegg F: Kalibreringsmåling Ferrx og forsøk i SAP2000**



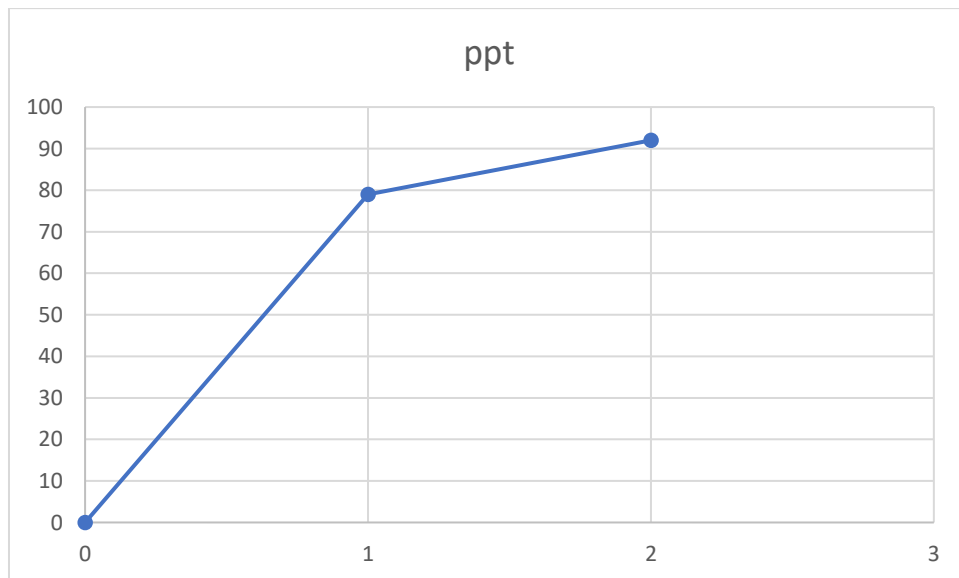
## Vedlegg F.1 Kalibreringsmåling Ferrx

## 1.1 Kalibreringsmålinger Forve 11.02.2021,

### 1.1.1 Stav 1 sensormatrise 1



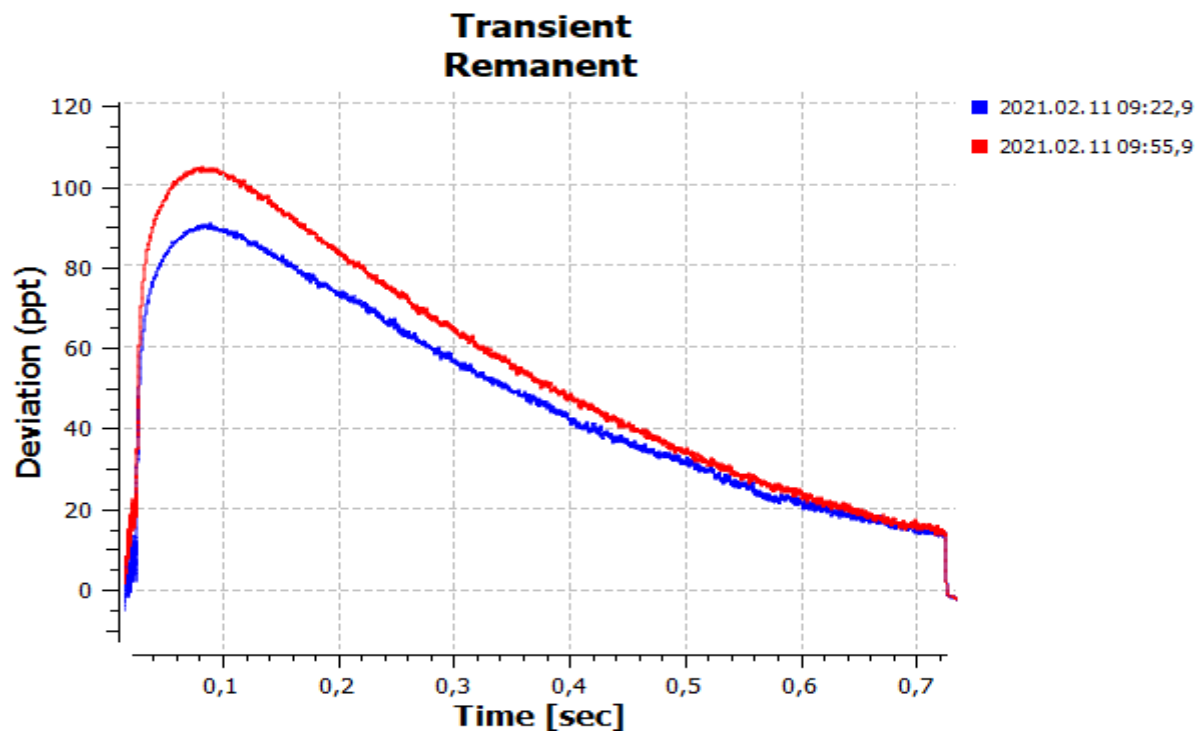
Figur 9. Data fra midterste pinnepar. Remanente målinger, maks verdiene er brukt i kalibrerings kurven under. Blå er måling 24 etter en lastebil, rød er måling 27 etter to lastebiler.



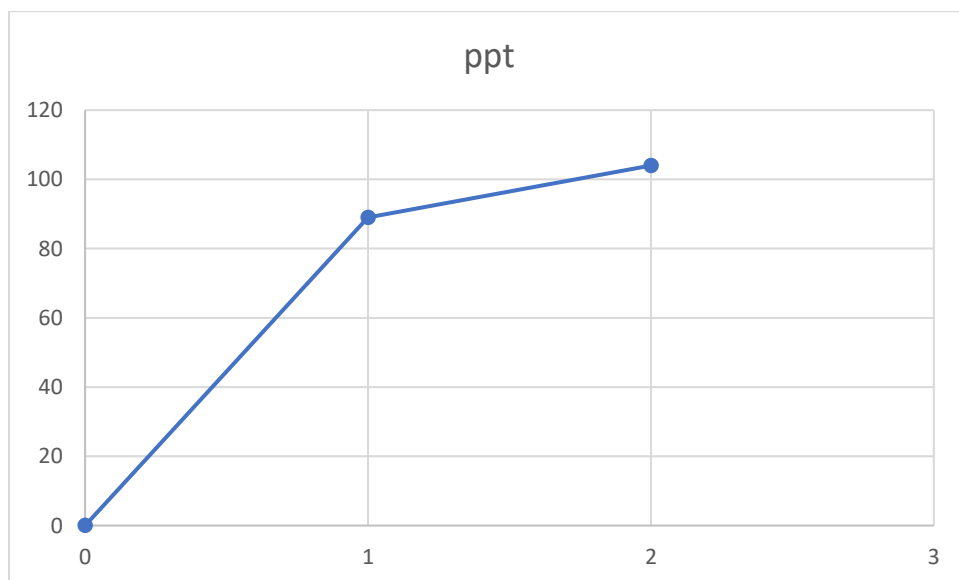
Figur 10. Kalibreringskurve for Stav 1. sensormatrise 1 på sørøst flens. Måle verdier i punkt 1 og 2 plottet for 50t og 100t. Y-aksen viser avvik i ppt.

Økning i måleverdi fra målepunkt 1 med en lastebil til punkt 2 med 2 lastebiler er 16,5%

### 1.1.2 Stav 1 sensormatrise 2



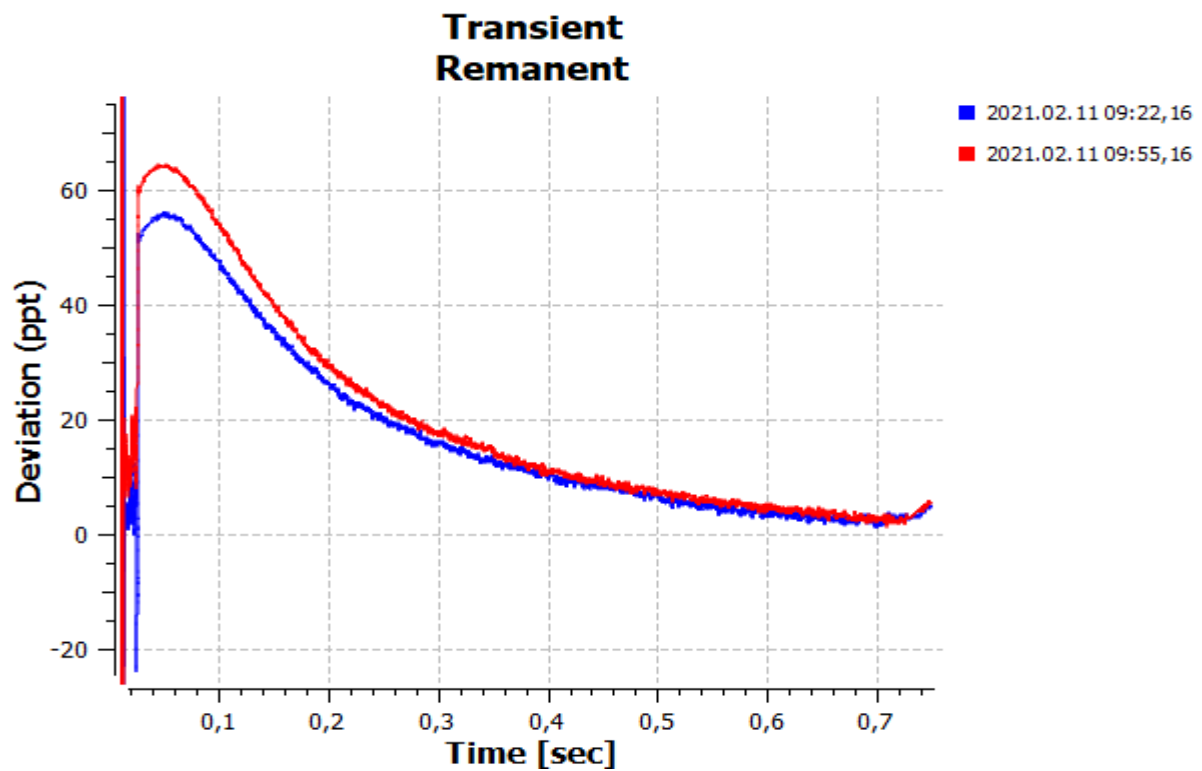
Figur 11. Data fra midterste pinnepar. Remanente målinger, maks verdiene er brukt i kalibrerings kurven under. Blå er måling 24 etter en lastebil, rød er måling 27 etter to lastebiler.



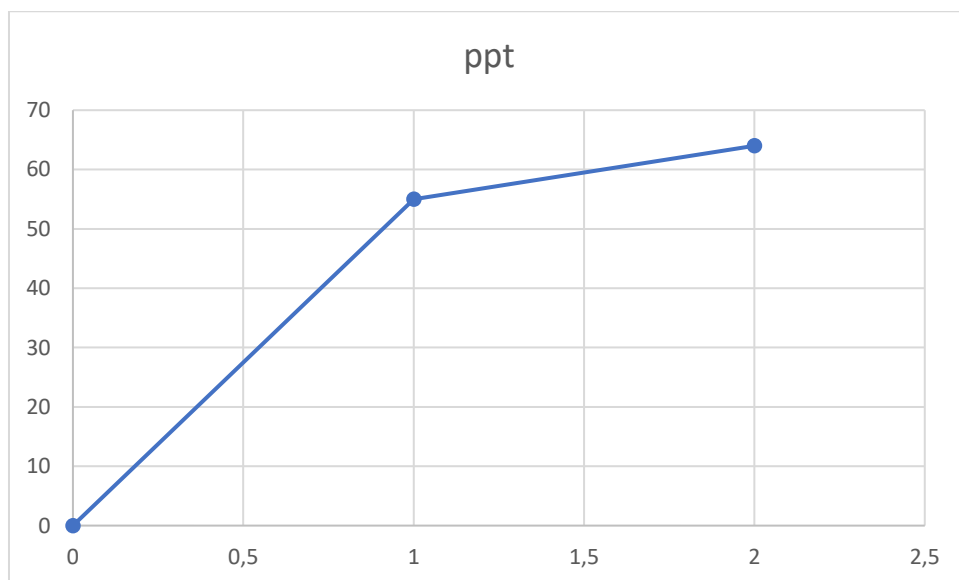
Figur 12. Kalibreringskurve for Stav 1. sensormatrise 2 på sørvest flens. Måle verdier i punkt 1 og 2 plottet for 50t og 100t. Y-aksen viser avvik i ppt.

Økning i måleverdi fra målepunkt 1 med en lastebil til punkt 2 med 2 lastebiler er 16,3%

### 1.1.3 Stav 1 sensormatrise 3



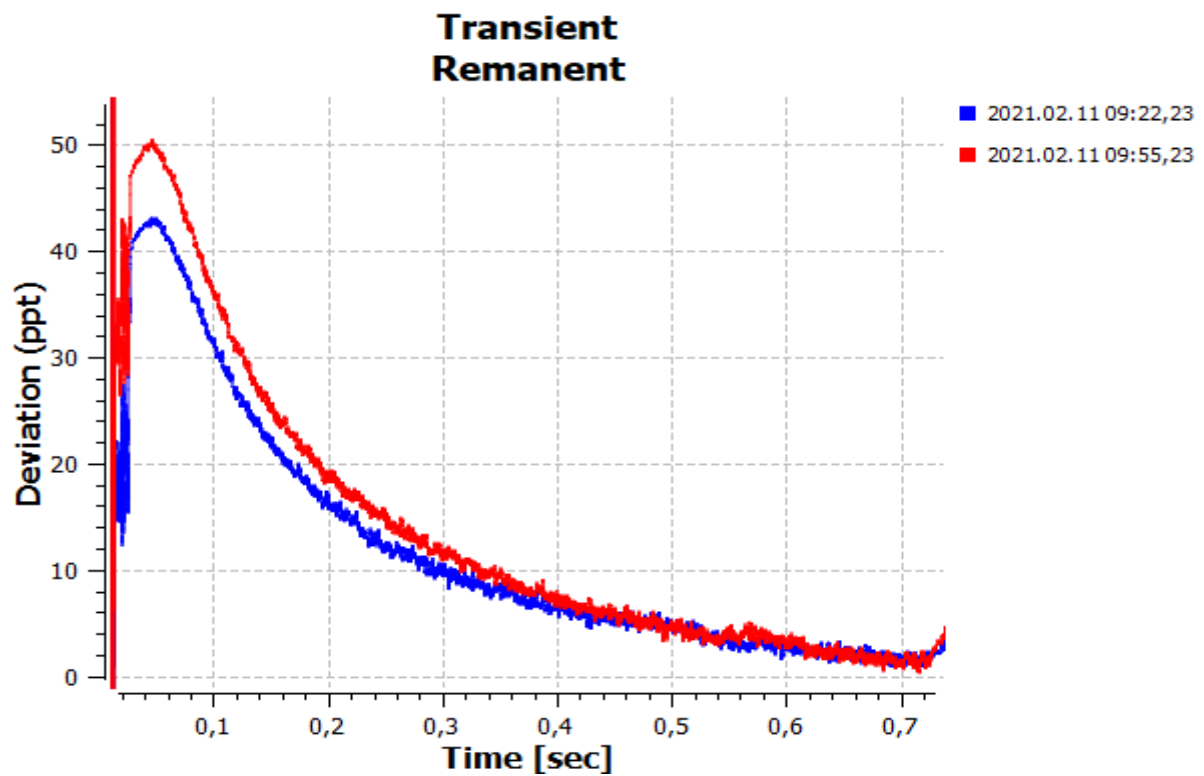
Figur 13. Data fra midterste pinnepar. Remanente målinger, maks verdiene er brukt i kalibrerings kurven under. Blå er måling 24 etter en lastebil, rød er måling 27 etter to lastebiler.



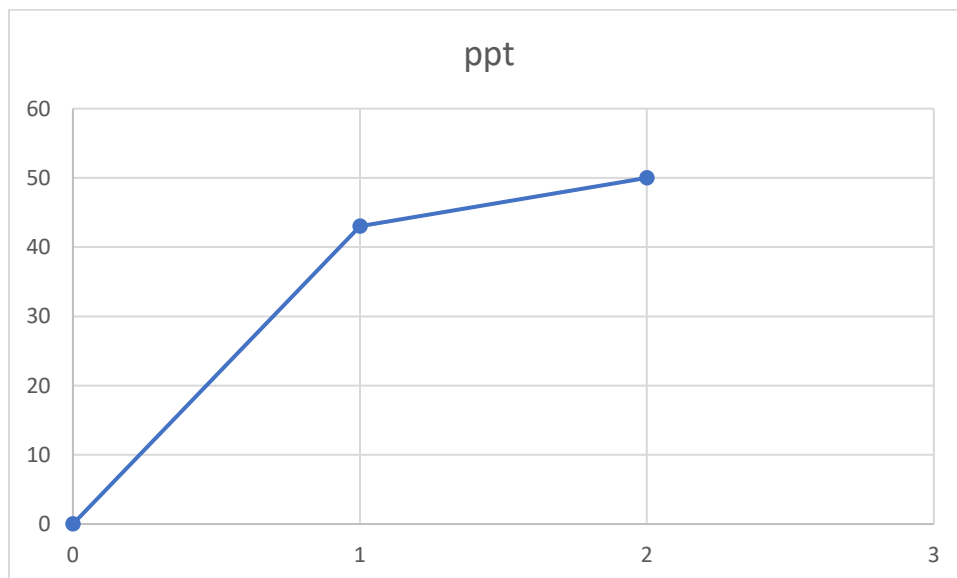
Figur 14. Kalibreringskurve for Stav 1. sensormatrise 3 på steget. Måle verdier i punkt 1 og 2 plottet for 50t og 100t. Y-aksen viser avvik i ppt.

Økning i måleverdi fra målepunkt 1 med en lastebil til punkt 2 med 2 lastebiler er 16,4%

#### 1.1.4 Stav 2 sensormatrise 4



Figur 15. Data fra midterste pinnepar. Remanente målinger, maks verdiene er brukt i kalibrerings kurven under. Blå er måling 24 etter en lastebil, rød er måling 27 etter to lastebiler.



Figur 16. Kalibreringskurve for Stav 2. sensormatrise 4 på steget. Måle verdier i punkt 1 og 2 plottet for 50t og 100t. Y-aksen viser avvik i ppt.

Økning i måleverdi fra målepunkt 1 med en lastebil til punkt 2 med 2 lastebiler er 16,3%

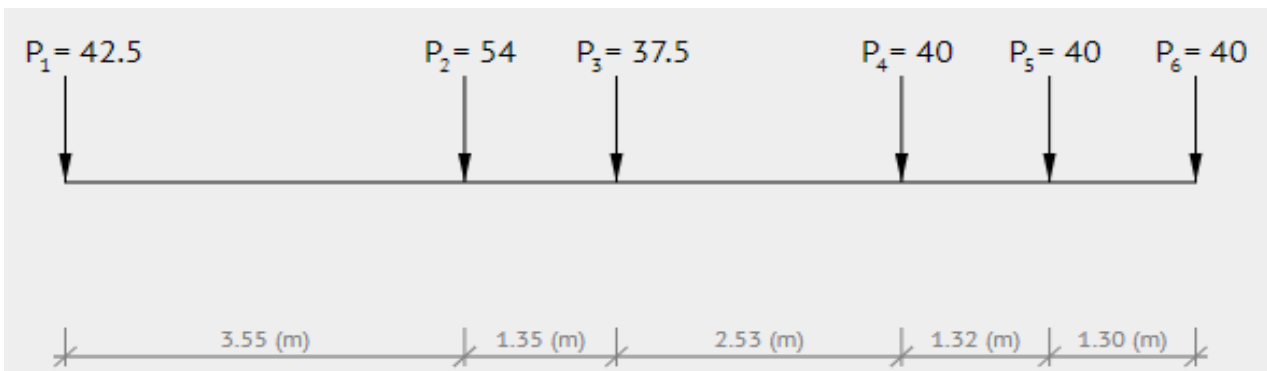
## Vedlegg F.2 Vogntogdata

Vogntog brukt ved målinger

Faktor f = 0,67

Bil 1

| Punktlast                           | P1   | P2   | P3   | P4    | P5    | P6    | Sum (kN) |
|-------------------------------------|------|------|------|-------|-------|-------|----------|
| Akselplassering (m)                 | 0    | 3,55 | 4,9  | 7,435 | 8,75  | 10,05 |          |
| Akselavstand (m)                    |      | 3,55 | 1,35 | 2,535 | 1,315 | 1,3   |          |
| Krefter per aksel (kN)              | 85   | 108  | 75   | 80    | 80    | 80    | 508      |
| Krefter per hjul (kN)               | 42,5 | 54   | 37,5 | 40    | 40    | 40    | 254      |
| Krefter per hjul i hjulbane 3 (kN)* | 28,3 | 36,0 | 25,0 | 26,7  | 26,7  | 26,7  | 169,3    |

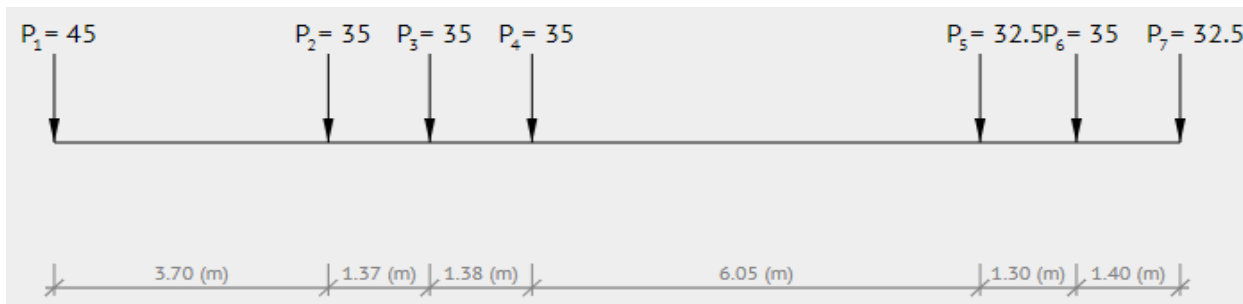


Eksempelbilde på et vogntog med totalt 6 aksler

\* Pga ulik plassering i tverretning i forhold til den virkelige broa reduseres kreftene i hjulbane med faktor, f.

Bil 2

| Punktlast                           | P1   | P2   | P3   | P4   | P5   | P6   | P7   | Sum (kN) |
|-------------------------------------|------|------|------|------|------|------|------|----------|
| Akselplassering (m)                 | 0    | 3,7  | 5,07 | 6,45 | 12,5 | 13,8 | 15,2 |          |
| Akselavstand (m)                    |      | 3,7  | 1,37 | 1,38 | 6,05 | 1,3  | 1,4  |          |
| Krefter per aksel (kN)              | 90   | 70   | 70   | 70   | 65   | 70   | 65   | 500      |
| Krefter per hjul (kN)               | 45   | 35   | 35   | 35   | 32,5 | 35   | 32,5 | 250      |
| Krefter per hjul i hjulbane 3 (kN)* | 30,0 | 23,3 | 23,3 | 23,3 | 21,7 | 23,3 | 21,7 | 166,7    |



Eksempelbilde på et vogntog med totalt 7 aksler

\* Pga ulik plassering i tverretning i forhold til den virkelige broa reduseres kreftene i hjulbane med faktor, f.



## Vedlegg F.3 Forsøk i SAP2000









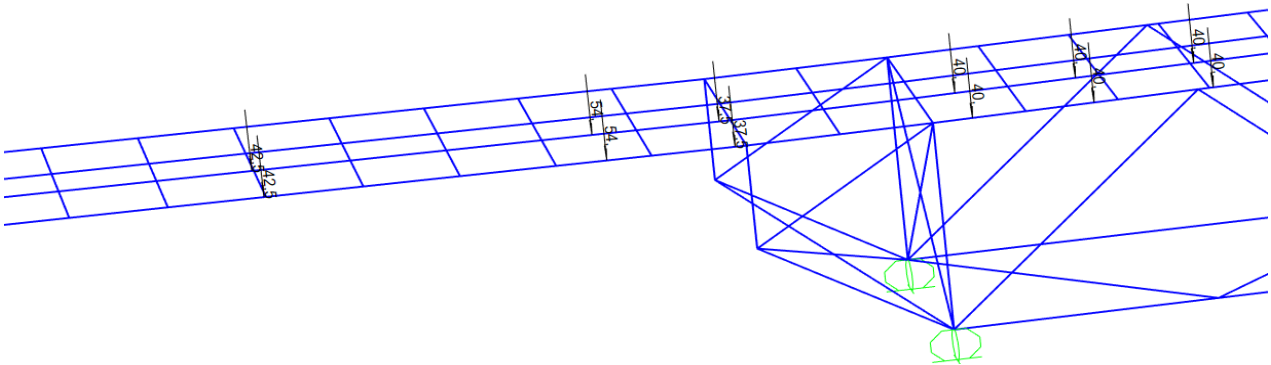
## Tilfelle 5

### Last 1

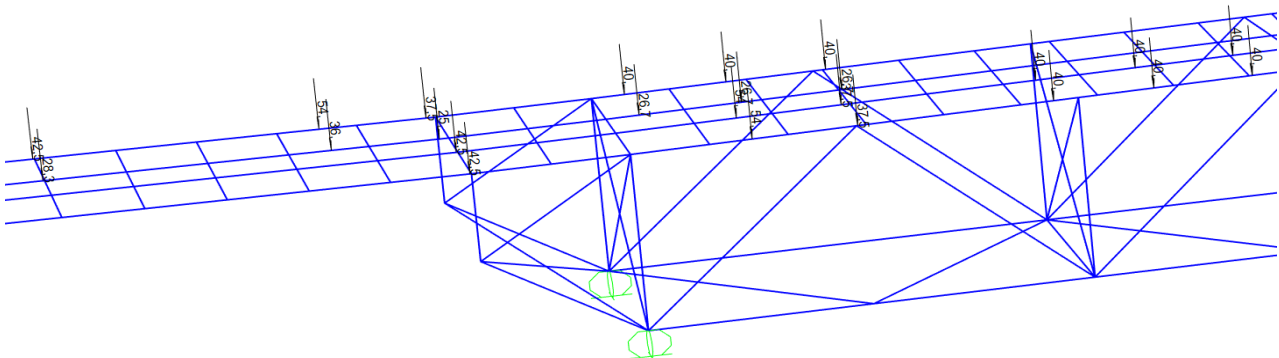
### Last 2

|                |                 | <b>Bil 1 i NORD</b> | <b>Bil 1 i SØR + Bil 1 5m bak i NORD</b> | <b>Økning</b> |
|----------------|-----------------|---------------------|------------------------------------------|---------------|
| <b>UG-8</b>    | <b>stav 680</b> | <b>-251,373</b>     | <b>-271,975</b>                          | <b>1,082</b>  |
|                |                 | 8,099               | 3,942                                    | 0,487         |
| <b>D-3</b>     | <b>stav 661</b> | <b>-398,712</b>     | <b>-457,417</b>                          | <b>1,147</b>  |
|                |                 | 58,365              | 67,776                                   | 1,161         |
| Med avstivning |                 |                     |                                          |               |
| UG-8           | stav 680        | -244,88             | -268,88                                  | 1,098         |
|                |                 | 3,413               | 3,977                                    | 1,165         |
| D-3            | stav 661        | -402,21             | -459,341                                 | 1,142         |
|                |                 | 59,583              | 67,926                                   | 1,140         |

Last 1:



Last 2:





## **Vedlegg G: Kontroll av modell i SAP2000**



## Vedlegg G.1 Kontroll av modell i SAP2000 mot SkyCiv og lastenes plassering i tverretning

# Kontroll av SAP2000-modell

## Enkel kontroll med 5 kN/m jevnt fordelt last:

Påfører jevnt fordelt last for å kunne sammenlikne opplagerkrefter og aksialkrefter med Skyciv-modellen.

Kontroll av opplagerkrefter:



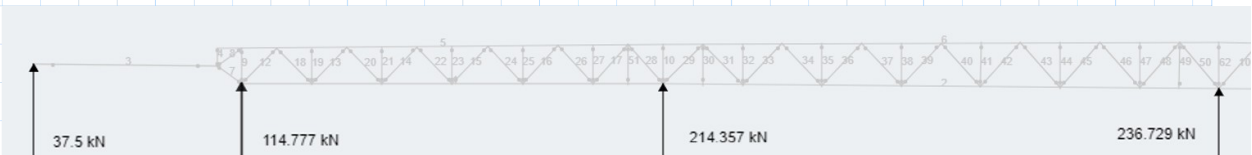
Opplagerkrefter i modell (kN):

$$A_M := 37.5$$

$$B_M := 112.32$$

$$C_M := 219.37$$

$$D_M := 231.64$$



Opplagerkrefter fra kontroll (kN):

$$A_K := 37.5$$

$$B_K := 114.777$$

$$C_K := 214.357$$

$$D_K := 236.729$$

Avvik relativt til kontroll:

$$\text{Opplager A: } A := \frac{A_M}{A_K} = 1$$

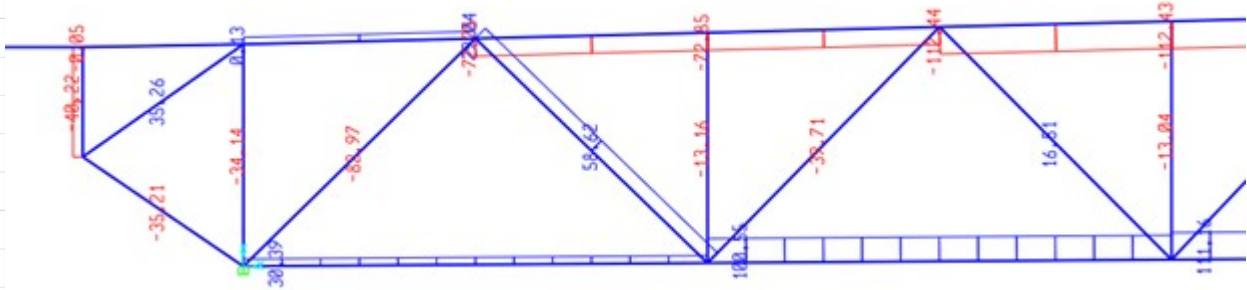
$$\text{Opplager B: } B := \frac{B_M}{B_K} = 0.979$$

$$\text{Opplager C: } C := \frac{C_M}{C_K} = 1.023$$

$$\text{Opplager D: } D := \frac{D_M}{D_K} = 0.979$$

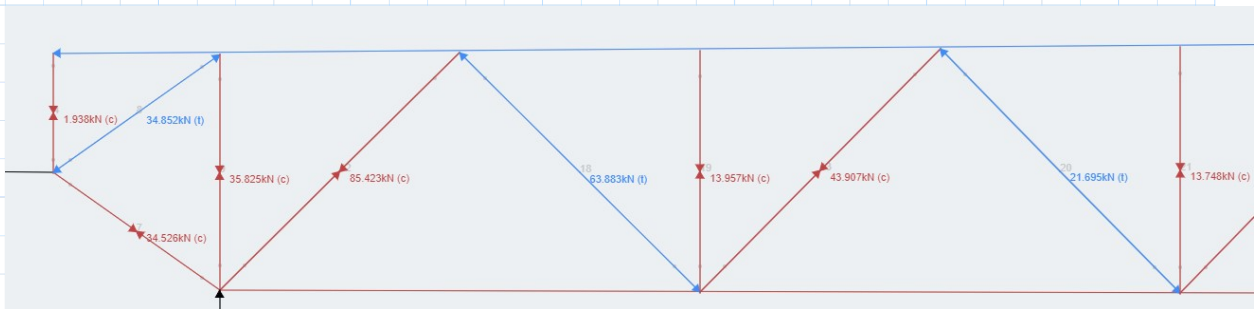
Niglesjerbare avvik i alle opplagerne. Opplager B, C og D har størst innvirkning på kreftene i fagverket så anser modellen som god nok til å bruke videre.

Kontroll av utvalgte aksialkrefter:



Utvalgte stavkrefter i modell (kN):

$$S_{M1} := -35.21 \quad S_{M2} := -34.14 \quad S_{M3} := -82.97 \quad S_{M4} := 58.62 \quad S_{M5} := -13.16$$



Utvalgte stavkrefter fra kontroll (kN):

$$S_{K1} := -34.5 \quad S_{K2} := -35.8 \quad S_{K3} := -88.4 \quad S_{K4} := 63.9 \quad S_{K5} := -13.9$$

Avvik relativt til kontroll:

$$stav1 := \frac{S_{M1}}{S_{K1}} = 1.021 \quad stav2 := \frac{S_{M2}}{S_{K2}} = 0.954 \quad stav3 := \frac{S_{M3}}{S_{K3}} = 0.939$$

$$stav4 := \frac{S_{M4}}{S_{K4}} = 0.917 \quad stav5 := \frac{S_{M5}}{S_{K5}} = 0.947$$

Anser også disse verdiene gode nok til å bruke modellen videre.

Kontroll av hvordan opplagerne påvirkes av ulik plassering av laster i tverrsnittet:

Modellerer et tilfeldig tverrsnitt på broa som en fritt opplagt bjelke.

Trafikklast blir her modellert som punktlaster på 100 kN per hjulbane.

$$P := 100 \quad kN$$

Modellens tverrsnitt:

Lengde:  $L_M := 4 \quad m$

Opplagerplassering:  $A_M := 0 \quad m$   $B_M := 4 \quad m$

Hjulbanenes plassering:  $H11 := 0 \quad m$   $H13 := 2.5 \quad m$

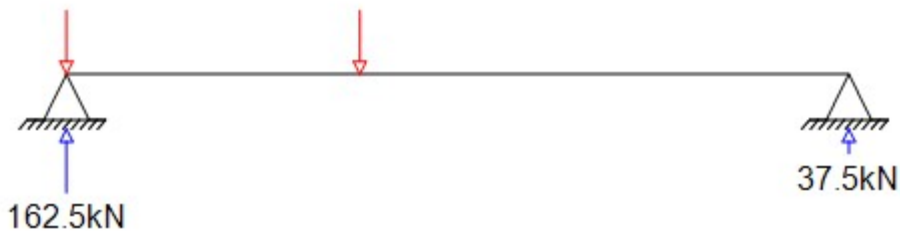
$$H12 := 1.5 \quad m \quad H14 := 4 \quad m$$

Tilfelle 1 - trafikklast i et felt. P påkjennes H11 og H12.

Finner opplager reaksjoner:

Sum av moment i A = 0:  $B_{11_{rx}} := H11 \cdot P + H12 \cdot P - B_M \cdot B_{11_{rx}} \xrightarrow{\text{solve}} 37.5 \quad kN$   
Opplager B:

Krefter i z = 0:  $A_{11_{rx}} := -P - P + B_{11_{rx}} + A_{11_{rx}} \xrightarrow{\text{solve}} 162.5 \quad kN$   
Opplager A:



Tilfelle 2 - trafikklast i to felt. P påkjennes

H11, H12, H13 og H14. Grunnet symmetri blir:

$$A_{12_{rx}} := 200 \quad kN$$

$$B_{12_{rx}} := 200 \quad kN$$

Økning i A fra trafikklast i et til to felt:

$$A_{\text{øk}} := \frac{A_{12_{rx}}}{A_{11_{rx}}} = 1.231$$

Broens virkelige tverrsnitt:

Lengde:  $L_B := 5 \text{ m}$

Opplagerplassering:  $A_B := 0.5 \text{ m}$   $B_B := 4.5 \text{ m}$

Hjulbanenes plassering:  $H21 := 0 \text{ m}$   $H23 := 3 \text{ m}$

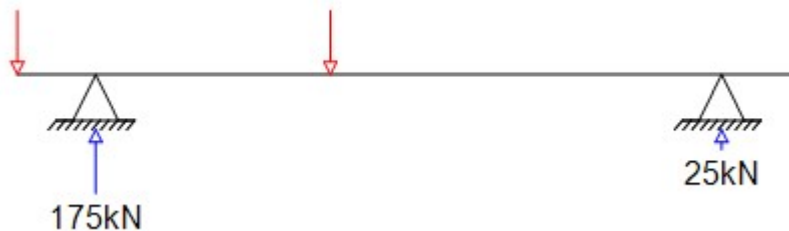
$H22 := 2 \text{ m}$   $H24 := 5 \text{ m}$

Tilfelle 1 - trafikklast i et felt, H1 og H2.

Finner opplager reaksjoner:

Sum av moment i A = 0:  $B21_{rx} := -0.5 \cdot P + 1.5 \cdot P - B21_{rx} \cdot 4 \xrightarrow{\text{solve}} 25.0 \text{ kN}$   
Opplager B:

Krefter i z = 0:  $A21_{rx} := -P - P + B21_{rx} + A21_{rx} \xrightarrow{\text{solve}} 175.0 \text{ kN}$   
Opplager A:



Tilfelle 2 - trafikklast i to felt. P påkjennes

H21, H22, H23 og H24. Grunnet symmetri blir:

$$A22_{rx} := 200 \text{ kN}$$

$$B22_{rx} := 200 \text{ kN}$$

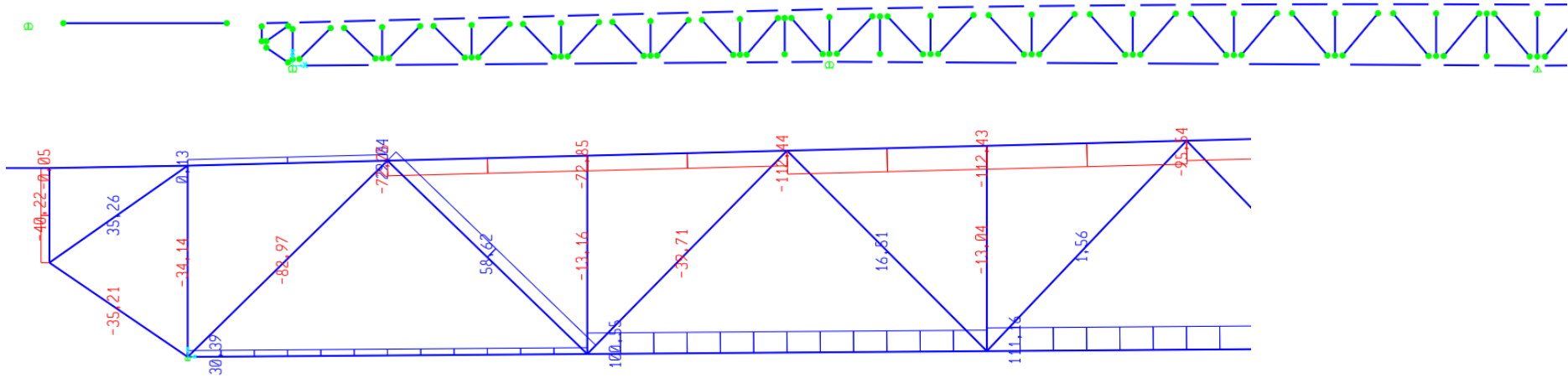
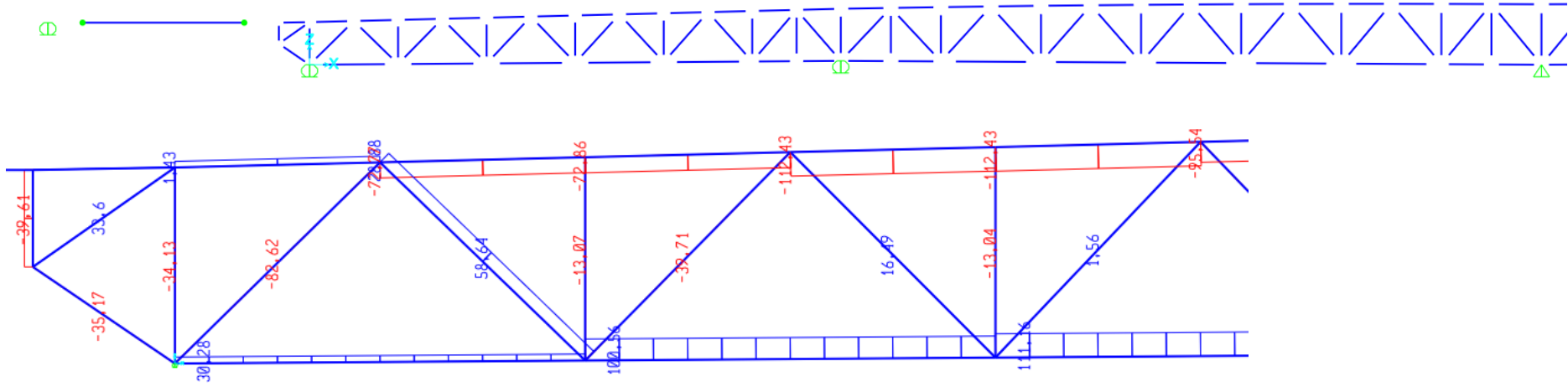
Økning i A fra trafikklast i et til to felt:

$$A_{\text{øk}} := \frac{A22_{rx}}{A21_{rx}} = 1.143$$

Konklusjon:

Ved trafikklast i det nordlige kjørefeltet vil det sørligste fagverket i modellen ta opp mer krefter enn det vil gjøre i virkeligheten.

## Vedlegg G.2 Stivhet i knutepunkt, SAP2000



## **Vedlegg H: Gamle profiler**



Berendsen, S. (Firma)

# NORMALALBUM

SJETTE UDGAVE

Parallellængede

Differdinger-Greybjælker

DIPEX DIMEL DIP DIMAX DIBRED

Normalprofiler I og II Staal

Vinkelstaal o. a. Faconstaal

669.14 (088.7) Ber

1936

6. Udg.

Ex. 2

TEKNISKE BIBLIOTEK

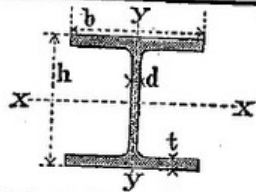
Danmarks Tekniske Højskole

Eget Forlag. Eneret

Eftertryk forbydes

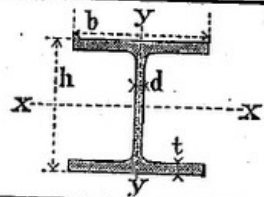
1936

DANMARKS  
TEKNISKE BIBLIOTEK



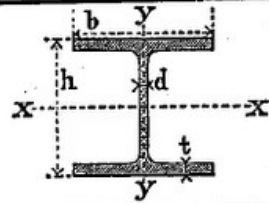
### Parallelf. Differdinger-Greybjælker I Serierne: DIPEX, DIMEL, DIP, DIMAX

| Profil Nr. | Serie | h mm | b mm  | d mm | t mm | Vægt i kg pr. Meter | Tværsnitsareal $F$ cm <sup>2</sup> | Modstandsmomenter     |                       | Inertimomenter        |                       | Inertiradier $i = \sqrt{\frac{I}{F}}$ |          | Kærneradier $r = \frac{W}{F}$ |          | Diagonal cm | Statisk Moment af halve Tværnit $S_x$ cm <sup>3</sup> | $\frac{W_x}{Vægt}$ |
|------------|-------|------|-------|------|------|---------------------|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------------------|----------|-------------------------------|----------|-------------|-------------------------------------------------------|--------------------|
|            |       |      |       |      |      |                     |                                    | $W_x$ cm <sup>3</sup> | $W_y$ cm <sup>3</sup> | $J_x$ cm <sup>4</sup> | $J_y$ cm <sup>4</sup> | $i_x$ cm                              | $i_y$ cm | $r_x$ cm                      | $r_y$ cm |             |                                                       |                    |
| 10         | DIPEX | 100  | 100   | 5.0  | 11.0 | 21.15               | 26.94                              | 94                    | 37                    | 471                   | 184                   | 4.18                                  | 2.61     | 3.49                          | 1.37     | 14.14       | 55                                                    | 4.44               |
|            | DIMEL | 94   | 99    | 5.0  | 8.0  | 16.31               | 20.78                              | 69                    | 26                    | 327                   | 130                   | 3.97                                  | 2.50     | 3.32                          | 1.25     | 13.65       | 40                                                    | 4.23               |
|            | DIP   | 100  | 100   | 6.5  | 11.0 | 22.07               | 28.11                              | 96                    | 37                    | 478                   | 184                   | 4.12                                  | 2.56     | 3.42                          | 1.32     | 14.14       | 56                                                    | 4.35               |
|            | DIMAX | 112  | 103.5 | 10.0 | 17.0 | 34.56               | 44.03                              | 152                   | 61                    | 852                   | 315                   | 4.40                                  | 2.68     | 3.45                          | 1.39     | 15.25       | 93                                                    | 4.40               |
| 12         | DIPEX | 120  | 120   | 5.0  | 11.0 | 25.38               | 32.34                              | 142                   | 53                    | 849                   | 317                   | 5.12                                  | 3.13     | 4.39                          | 1.64     | 16.97       | 80                                                    | 5.60               |
|            | DIMEL | 114  | 119   | 5.0  | 8.0  | 19.61               | 24.98                              | 105                   | 38                    | 598                   | 225                   | 4.89                                  | 3.00     | 4.20                          | 1.12     | 16.05       | 60                                                    | 5.35               |
|            | DIP   | 120  | 120   | 6.5  | 11.0 | 26.54               | 33.81                              | 143                   | 53                    | 860                   | 317                   | 5.05                                  | 3.07     | 4.24                          | 1.57     | 16.97       | 82                                                    | 5.40               |
|            | DIMAX | 132  | 123.5 | 10.0 | 17.0 | 41.47               | 52.83                              | 227                   | 87                    | 1499                  | 535                   | 5.33                                  | 3.18     | 4.30                          | 1.65     | 18.08       | 135                                                   | 5.47               |
| 14         | DIPEX | 140  | 140   | 4.5  | 12.0 | 31.45               | 40.06                              | 211                   | 78                    | 1477                  | 549                   | 6.07                                  | 3.71     | 5.26                          | 1.95     | 19.80       | 118                                                   | 6.71               |
|            | DIMEL | 133  | 138   | 5.5  | 8.5  | 24.38               | 31.07                              | 153                   | 54                    | 1020                  | 373                   | 5.72                                  | 3.46     | 4.92                          | 1.74     | 19.17       | 85                                                    | 6.28               |
|            | DIP   | 140  | 140   | 8.0  | 12.0 | 34.63               | 44.12                              | 217                   | 79                    | 1522                  | 550                   | 5.87                                  | 3.53     | 4.92                          | 1.79     | 19.80       | 121                                                   | 6.30               |
|            | DIMAX | 164  | 148   | 16.0 | 24.0 | 71.31               | 90.84                              | 459                   | 176                   | 3761                  | 1302                  | 6.43                                  | 3.79     | 5.05                          | 1.94     | 22.09       | 276                                                   | 6.40               |
| 15         | DIPEX | 150  | 150   | 4.75 | 12.0 | 33.94               | 43.23                              | 246                   | 90                    | 1843                  | 676                   | 6.53                                  | 3.95     | 5.69                          | 2.09     | 21.21       | 137                                                   | 7.25               |
|            | DIMEL | 143  | 148   | 5.5  | 8.5  | 26.16               | 33.32                              | 179                   | 62                    | 1277                  | 460                   | 6.18                                  | 3.71     | 5.37                          | 1.86     | 20.58       | 99                                                    | 6.84               |
|            | DIP   | 150  | 150   | 8.0  | 12.0 | 37.15               | 47.32                              | 253                   | 90                    | 1897                  | 676                   | 6.33                                  | 3.78     | 5.35                          | 1.90     | 21.21       | 140                                                   | 6.80               |
|            | DIMAX | 174  | 158   | 16.0 | 24.0 | 76.33               | 97.24                              | 530                   | 200                   | 4614                  | 1584                  | 6.88                                  | 4.04     | 5.44                          | 2.06     | 23.50       | 320                                                   | 6.94               |
| 16         | DIPEX | 160  | 160   | 5.0  | 13.0 | 39.24               | 49.99                              | 302                   | 111                   | 2420                  | 888                   | 6.95                                  | 4.20     | 6.04                          | 2.22     | 22.41       | 169                                                   | 7.69               |
|            | DIMEL | 150  | 157   | 6.0  | 9.0  | 29.72               | 37.86                              | 212                   | 75                    | 1588                  | 584                   | 6.47                                  | 3.92     | 5.60                          | 1.98     | 21.71       | 118                                                   | 7.13               |
|            | DIP   | 160  | 160   | 9.0  | 14.0 | 45.81               | 58.36                              | 329                   | 120                   | 2634                  | 958                   | 6.71                                  | 4.05     | 5.63                          | 2.05     | 22.63       | 183                                                   | 7.20               |
|            | DIMAX | 182  | 167   | 16.0 | 25.0 | 83.45               | 106.31                             | 611                   | 233                   | 5562                  | 1947                  | 7.23                                  | 4.28     | 5.75                          | 2.19     | 24.70       | 363                                                   | 7.30               |



## Parallelf. Differdinger-Greybjælker **I** Serierne: DIPEX, DIMEL, DIP, DIMAX

| Profil Nr. | Serie | h mm | b mm | d mm | t mm | Vægt i kg pr. Meter | Tværsnitsareal $F$ cm <sup>2</sup> | Modstandsmomenter     |                       | Inertimomenter        |                       | Inertiradier $i = \sqrt{\frac{I}{F}}$ |          | Kærneradier $r = \frac{W}{F}$ |          | Diagonal cm | Statisk Moment af halve Tværsnit $S_x$ cm <sup>3</sup> | $\frac{W_x}{Vægt}$ |
|------------|-------|------|------|------|------|---------------------|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------------------|----------|-------------------------------|----------|-------------|--------------------------------------------------------|--------------------|
|            |       |      |      |      |      |                     |                                    | $W_x$ cm <sup>3</sup> | $W_y$ cm <sup>3</sup> | $J_x$ cm <sup>4</sup> | $J_y$ cm <sup>4</sup> | $i_x$ cm                              | $i_y$ cm | $r_x$ cm                      | $r_y$ cm |             |                                                        |                    |
|            |       |      |      |      |      |                     |                                    |                       |                       |                       |                       |                                       |          |                               |          |             |                                                        |                    |
| 18         | DIPEX | 180  | 180  | 5.5  | 14.0 | 47.45               | 60.45                              | 414                   | 152                   | 3730                  | 1362                  | 7.85                                  | 4.75     | 6.85                          | 2.51     | 25.46       | 231                                                    | 8.73               |
|            | DIMEL | 172  | 177  | 6.5  | 10.0 | 36.87               | 46.97                              | 303                   | 104                   | 2605                  | 925                   | 7.45                                  | 4.43     | 6.45                          | 2.21     | 24.68       | 168                                                    | 8.22               |
|            | DIP   | 180  | 180  | 9.0  | 14.0 | 51.62               | 65.76                              | 426                   | 151                   | 3833                  | 1363                  | 7.63                                  | 4.55     | 6.47                          | 2.29     | 25.46       | 235                                                    | 8.30               |
|            | DIMAX | 202  | 187  | 16.0 | 25.0 | 93.81               | 119.51                             | 785                   | 292                   | 7929                  | 2732                  | 8.15                                  | 4.78     | 6.57                          | 2.44     | 27.53       | 460                                                    | 8.40               |
| 20         | DIPEX | 200  | 200  | 6.0  | 15.0 | 56.62               | 72.13                              | 551                   | 200                   | 5519                  | 2002                  | 8.74                                  | 5.27     | 7.64                          | 2.77     | 28.28       | 307                                                    | 9.73               |
|            | DIMEL | 190  | 197  | 7.0  | 11.0 | 44.75               | 57.03                              | 408                   | 143                   | 3879                  | 1403                  | 8.24                                  | 4.96     | 7.15                          | 2.51     | 27.37       | 226                                                    | 9.12               |
|            | DIP   | 200  | 200  | 10.0 | 16.0 | 64.94               | 82.73                              | 595                   | 214                   | 5952                  | 2136                  | 8.48                                  | 5.08     | 7.19                          | 2.59     | 28.28       | 330                                                    | 9.20               |
|            | DIMAX | 220  | 206  | 16.0 | 26.0 | 106.71              | 135.94                             | 991                   | 369                   | 10897                 | 3796                  | 8.96                                  | 5.28     | 7.29                          | 2.71     | 30.14       | 577                                                    | 9.30               |
| 22         | DIPEX | 220  | 220  | 6.5  | 16.0 | 66.37               | 84.55                              | 714                   | 258                   | 7859                  | 2842                  | 9.64                                  | 5.79     | 8.44                          | 3.05     | 31.11       | 396                                                    | 10.76              |
|            | DIMEL | 211  | 217  | 7.25 | 11.5 | 51.39               | 65.47                              | 524                   | 181                   | 5532                  | 1960                  | 9.19                                  | 5.47     | 8.00                          | 2.76     | 30.27       | 289                                                    | 10.20              |
|            | DIP   | 220  | 220  | 10.0 | 16.0 | 71.54               | 91.13                              | 732                   | 258                   | 8052                  | 2843                  | 9.40                                  | 5.58     | 8.04                          | 2.83     | 31.11       | 403                                                    | 10.20              |
|            | DIMAX | 240  | 226  | 16.0 | 26.0 | 117.38              | 149.54                             | 1214                  | 443                   | 14565                 | 5011                  | 9.88                                  | 5.79     | 8.12                          | 2.96     | 32.97       | 701                                                    | 10.30              |
| 24         | DIPEX | 240  | 240  | 7.0  | 17.0 | 77.32               | 98.50                              | 909                   | 326                   | 10917                 | 3919                  | 10.52                                 | 6.31     | 9.23                          | 3.31     | 33.94       | 504                                                    | 11.76              |
|            | DIMEL | 229  | 237  | 7.75 | 12.5 | 60.87               | 77.54                              | 676                   | 234                   | 7739                  | 2776                  | 9.99                                  | 5.98     | 8.72                          | 3.02     | 32.96       | 373                                                    | 11.11              |
|            | DIP   | 240  | 240  | 11.0 | 18.0 | 87.39               | 111.32                             | 974                   | 346                   | 11686                 | 4152                  | 10.24                                 | 6.10     | 8.75                          | 3.11     | 33.94       | 537                                                    | 11.20              |
|            | DIMAX | 260  | 246  | 17.0 | 28.0 | 137.32              | 174.93                             | 1544                  | 566                   | 20069                 | 6959                  | 10.71                                 | 6.32     | 8.83                          | 3.23     | 35.79       | 888                                                    | 11.20              |
| 25         | DIPEX | 250  | 250  | 7.25 | 17.5 | 82.87               | 105.57                             | 1017                  | 364                   | 12714                 | 4559                  | 10.96                                 | 6.57     | 9.54                          | 3.45     | 35.36       | 563                                                    | 12.27              |
|            | DIMEL | 240  | 247  | 8.0  | 13.0 | 65.80               | 83.82                              | 766                   | 265                   | 9199                  | 3268                  | 10.47                                 | 6.24     | 9.14                          | 3.16     | 34.44       | 423                                                    | 11.64              |
|            | DIP   | 250  | 250  | 11.0 | 18.0 | 91.08               | 116.02                             | 1064                  | 375                   | 13298                 | 4692                  | 10.70                                 | 6.36     | 9.17                          | 3.23     | 35.36       | 585                                                    | 11.60              |
|            | DIMAX | 274  | 257  | 18.0 | 30.0 | 153.22              | 195.21                             | 1810                  | 662                   | 24800                 | 8502                  | 11.27                                 | 6.60     | 9.27                          | 3.39     | 37.64       | 1043                                                   | 11.80              |

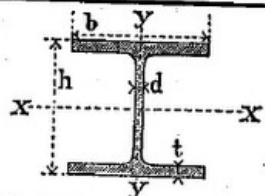


## Parallelf. Differdinger-Greybjælker **I** Serie: DIPEX, DIMEL, DIP, DIMAX

| Profil Nr. | Serie | h mm | b mm | d mm | t mm | Vægt i kg pr. Meter | Tværsnitsareal $F$ cm <sup>2</sup> | Modstandsmomenter     |                       | Inertimomenter        |                       | Inertiradier $i = \sqrt{\frac{I}{F}}$ |          | Kærneradier $r = \frac{W}{F}$ |          | Diagonal cm | Statisk Moment af halve Tværsnit $S_x$ cm <sup>3</sup> | $\frac{W_x}{Vægt}$ |
|------------|-------|------|------|------|------|---------------------|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------------------|----------|-------------------------------|----------|-------------|--------------------------------------------------------|--------------------|
|            |       |      |      |      |      |                     |                                    | $W_x$ cm <sup>3</sup> | $W_y$ cm <sup>3</sup> | $J_x$ cm <sup>4</sup> | $J_y$ cm <sup>4</sup> | $i_x$ cm                              | $i_y$ cm | $r_x$ cm                      | $r_y$ cm |             |                                                        |                    |
| 26         | DIPEX | 260  | 260  | 7.5  | 18.0 | 88.61               | 112.88                             | 1132                  | 405                   | 14722                 | 5275                  | 11.41                                 | 6.84     | 10.03                         | 3.59     | 36.77       | 626                                                    | 12.78              |
|            | DIMEL | 250  | 257  | 8.0  | 13.0 | 68.47               | 87.22                              | 834                   | 286                   | 10430                 | 3680                  | 10.94                                 | 6.49     | 9.56                          | 3.28     | 35.85       | 467                                                    | 12.18              |
|            | DIP   | 260  | 260  | 11.0 | 18.0 | 94.77               | 120.72                             | 1158                  | 406                   | 15050                 | 5278                  | 11.16                                 | 6.61     | 9.59                          | 3.36     | 36.77       | 635                                                    | 12.20              |
|            | DIMAX | 288  | 269  | 20.0 | 32.0 | 172.27              | 219.45                             | 2119                  | 773                   | 30517                 | 10401                 | 11.81                                 | 6.89     | 9.66                          | 3.52     | 39.41       | 1226                                                   | 12.30              |
| 28         | DIPEX | 280  | 280  | 8.0  | 19.0 | 100.90              | 128.55                             | 1391                  | 496                   | 19476                 | 6954                  | 12.30                                 | 7.35     | 10.82                         | 3.70     | 39.60       | 768                                                    | 13.79              |
|            | DIMEL | 267  | 277  | 8.25 | 13.5 | 76.43               | 97.37                              | 1000                  | 345                   | 13352                 | 4785                  | 11.71                                 | 7.01     | 10.27                         | 3.54     | 38.47       | 549                                                    | 13.08              |
|            | DIP   | 280  | 280  | 12.0 | 20.0 | 112.71              | 143.58                             | 1480                  | 523                   | 20722                 | 7324                  | 12.01                                 | 7.15     | 10.31                         | 3.64     | 39.60       | 814                                                    | 13.10              |
|            | DIMAX | 310  | 289  | 21.0 | 35.0 | 200.55              | 255.48                             | 2661                  | 976                   | 41248                 | 14105                 | 12.71                                 | 7.44     | 10.42                         | 3.82     | 42.38       | 1541                                                   | 13.30              |
| 30         | DIPEX | 300  | 300  | 8.5  | 20.0 | 113.73              | 144.88                             | 1683                  | 600                   | 25247                 | 9003                  | 13.20                                 | 7.89     | 11.62                         | 4.14     | 42.43       | 929                                                    | 14.80              |
|            | DIMEL | 289  | 297  | 8.75 | 14.5 | 87.65               | 111.66                             | 1243                  | 426                   | 17964                 | 6335                  | 12.68                                 | 7.53     | 11.13                         | 3.82     | 41.44       | 682                                                    | 14.18              |
|            | DIP   | 300  | 300  | 12.0 | 20.0 | 120.87              | 153.98                             | 1717                  | 600                   | 25759                 | 9007                  | 12.93                                 | 7.64     | 11.15                         | 3.80     | 42.43       | 941                                                    | 14.20              |
|            | DIMAX | 336  | 311  | 23.0 | 38.0 | 234.67              | 298.94                             | 3370                  | 1227                  | 56576                 | 19084                 | 13.76                                 | 7.99     | 11.27                         | 4.10     | 45.78       | 1965                                                   | 14.40              |
| 32         | DIPEX | 320  | 300  | 9.0  | 21.0 | 121.24              | 154.45                             | 1902                  | 630                   | 30439                 | 9454                  | 14.03                                 | 7.82     | 12.31                         | 4.08     | 43.86       | 1051                                                   | 15.67              |
|            | DIMEL | 308  | 297  | 9.5  | 16.0 | 97.89               | 124.70                             | 1465                  | 471                   | 22558                 | 6992                  | 13.45                                 | 7.49     | 11.75                         | 3.78     | 42.79       | 806                                                    | 14.97              |
|            | DIP   | 320  | 300  | 13.0 | 22.0 | 134.48              | 171.31                             | 2016                  | 661                   | 32249                 | 9910                  | 13.72                                 | 7.60     | 11.77                         | 3.86     | 43.86       | 1107                                                   | 15.00              |
|            | DIMAX | 356  | 310  | 23.0 | 40.0 | 247.21              | 314.92                             | 3757                  | 1284                  | 66878                 | 19897                 | 14.57                                 | 7.95     | 11.93                         | 4.08     | 47.20       | 2180                                                   | 15.20              |
| 34         | DIPEX | 340  | 300  | 9.5  | 22.0 | 128.38              | 163.56                             | 2128                  | 660                   | 36185                 | 9904                  | 14.87                                 | 7.78     | 13.01                         | 4.04     | 45.34       | 1178                                                   | 16.58              |
|            | DIMEL | 330  | 297  | 10.0 | 17.0 | 105.21              | 134.02                             | 1674                  | 500                   | 27621                 | 7429                  | 14.35                                 | 7.44     | 12.49                         | 3.73     | 44.40       | 924                                                    | 15.91              |
|            | DIP   | 340  | 300  | 13.0 | 22.0 | 136.52              | 173.91                             | 2173                  | 661                   | 36942                 | 9910                  | 14.57                                 | 7.55     | 12.50                         | 3.80     | 45.34       | 1192                                                   | 15.90              |
|            | DIMAX | 376  | 310  | 23.0 | 40.0 | 250.82              | 319.52                             | 4044                  | 1284                  | 76003                 | 19900                 | 15.45                                 | 7.90     | 12.66                         | 4.02     | 48.73       | 2332                                                   | 16.10              |

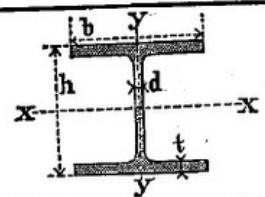






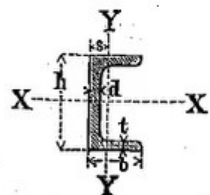
### Parallell. Differdinger-Greybjælker **I** Serierne: DIPEX, DIMEL, DIP, DIMAX

| Profil Nr.       | Serie | h mm | b mm | d mm | t mm | Vægt i kg pr. Meter | Tværsnitsareal $F$ cm <sup>2</sup> | Modstandsmomenter     |                       | Inertimomenter        |                       | Inertiradier $i = \sqrt{\frac{I}{F}}$ |          | Kærneradier $r = \frac{W}{F}$ |          | Diagonal cm | Statisk Moment af halve Tværsnit $S_x$ cm <sup>3</sup> | $\frac{W_x}{Vægt}$ |
|------------------|-------|------|------|------|------|---------------------|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------------------|----------|-------------------------------|----------|-------------|--------------------------------------------------------|--------------------|
|                  |       |      |      |      |      |                     |                                    | $W_x$ cm <sup>3</sup> | $W_y$ cm <sup>3</sup> | $J_x$ cm <sup>4</sup> | $J_y$ cm <sup>4</sup> | $i_x$ cm                              | $i_y$ cm | $r_x$ cm                      | $r_y$ cm |             |                                                        |                    |
| 47 $\frac{1}{2}$ | DIPEX | 475  | 300  | 12.5 | 28.0 | 176.56              | 224.92                             | 3940                  | 841                   | 93584                 | 12611                 | 20.39                                 | 7.49     | 17.52                         | 3.74     | 56.18       | 2197                                                   | 22.32              |
|                  | DIMEL | 465  | 297  | 12.5 | 23.0 | 151.92              | 193.54                             | 3284                  | 677                   | 76350                 | 10056                 | 19.86                                 | 7.21     | 16.97                         | 3.50     | 55.18       | 1829                                                   | 21.62              |
|                  | DIP   | 475  | 300  | 15.0 | 28.0 | 184.78              | 235.39                             | 4005                  | 841                   | 95122                 | 12620                 | 20.10                                 | 7.32     | 17.01                         | 3.57     | 56.18       | 2207                                                   | 21.70              |
|                  | DIMAX | 499  | 306  | 21.0 | 40.0 | 264.81              | 337.34                             | 5773                  | 1251                  | 144037                | 19146                 | 20.67                                 | 7.53     | 17.11                         | 3.71     | 58.54       | 3282                                                   | 21.80              |
| 50               | DIPEX | 500  | 300  | 13.0 | 29.0 | 185.58              | 236.40                             | 4330                  | 871                   | 108257                | 13065                 | 21.39                                 | 7.44     | 18.32                         | 3.68     | 58.31       | 2418                                                   | 23.33              |
|                  | DIMEL | 488  | 297  | 13.0 | 24.0 | 160.70              | 204.71                             | 3619                  | 707                   | 88312                 | 10495                 | 20.77                                 | 7.16     | 17.68                         | 3.45     | 57.13       | 2020                                                   | 22.52              |
|                  | DIP   | 500  | 300  | 16.0 | 30.0 | 200.44              | 255.34                             | 4527                  | 902                   | 113177                | 13525                 | 21.05                                 | 7.26     | 17.73                         | 3.53     | 58.31       | 2502                                                   | 22.60              |
|                  | DIMAX | 520  | 305  | 21.0 | 40.0 | 267.96              | 341.35                             | 6079                  | 1243                  | 158055                | 18961                 | 21.52                                 | 7.45     | 17.81                         | 3.64     | 62.29       | 3450                                                   | 22.70              |
| 55               | DIPEX | 550  | 300  | 13.5 | 30.0 | 197.11              | 251.10                             | 5014                  | 901                   | 137894                | 13517                 | 23.45                                 | 7.34     | 19.97                         | 3.59     | 62.25       | 2803                                                   | 25.44              |
|                  | DIMEL | 539  | 297  | 13.0 | 24.5 | 168.13              | 214.18                             | 4155                  | 722                   | 111981                | 10715                 | 22.86                                 | 7.07     | 19.39                         | 3.37     | 61.54       | 2320                                                   | 24.71              |
|                  | DIP   | 550  | 300  | 16.0 | 30.0 | 206.72              | 263.34                             | 5103                  | 902                   | 140342                | 13527                 | 23.09                                 | 7.16     | 19.38                         | 3.43     | 62.65       | 2820                                                   | 24.70              |
|                  | DIMAX | 570  | 305  | 21.0 | 40.0 | 276.20              | 351.85                             | 6846                  | 1244                  | 195098                | 18965                 | 23.55                                 | 7.34     | 19.46                         | 3.54     | 64.65       | 3872                                                   | 24.80              |
| 60               | DIPEX | 600  | 300  | 14.0 | 31.0 | 209.69              | 267.12                             | 5762                  | 931                   | 172874                | 13972                 | 25.43                                 | 7.23     | 21.57                         | 3.48     | 67.08       | 3227                                                   | 27.48              |
|                  | DIMEL | 588  | 297  | 14.0 | 26.0 | 184.70              | 235.29                             | 4899                  | 766                   | 144026                | 11375                 | 24.74                                 | 6.95     | 20.82                         | 3.26     | 65.88       | 2747                                                   | 26.52              |
|                  | DIP   | 600  | 300  | 17.0 | 32.0 | 226.80              | 288.92                             | 6028                  | 962                   | 180829                | 14435                 | 25.01                                 | 7.06     | 20.87                         | 3.33     | 67.08       | 3337                                                   | 26.60              |
|                  | DIMAX | 616  | 304  | 21.0 | 40.0 | 283.82              | 361.56                             | 7564                  | 1236                  | 232980                | 18785                 | 25.38                                 | 7.21     | 20.92                         | 3.42     | 68.69       | 4252                                                   | 26.70              |
| 65               | DIMEL | 638  | 297  | 14.0 | 26.0 | 190.19              | 242.29                             | 5424                  | 766                   | 173014                | 11376                 | 26.72                                 | 6.85     | 22.38                         | 3.12     | 70.37       | 3045                                                   | 28.52              |
|                  | DIP   | 650  | 300  | 17.0 | 32.0 | 233.47              | 297.42                             | 6670                  | 962                   | 216783                | 14437                 | 26.99                                 | 6.96     | 22.43                         | 3.23     | 71.59       | 3696                                                   | 28.60              |
|                  | DIMAX | 666  | 304  | 21.0 | 40.0 | 292.06              | 372.06                             | 8366                  | 1236                  | 278583                | 18790                 | 27.36                                 | 7.10     | 22.49                         | 3.32     | 73.21       | 4730                                                   | 28.60              |
| 70               | DIMEL | 688  | 297  | 15.0 | 28.0 | 209.89              | 267.38                             | 6358                  | 825                   | 218728                | 12252                 | 28.60                                 | 6.77     | 23.78                         | 3.09     | 74.94       | 3588                                                   | 30.29              |
|                  | DIP   | 700  | 300  | 18.0 | 34.0 | 254.36              | 324.02                             | 7723                  | 1023                  | 270290                | 15346                 | 28.88                                 | 6.88     | 23.84                         | 3.16     | 76.16       | 4295                                                   | 30.40              |
|                  | DIMAX | 712  | 303  | 21.0 | 40.0 | 299.38              | 381.38                             | 9134                  | 1228                  | 324175                | 18611                 | 29.14                                 | 6.98     | 23.95                         | 3.22     | 78.02       | 5220                                                   | 30.50              |



**Parallelf. Differdinger-Greybjælker I** Serierne: DIMEL, DIP, DIMAX

| Profil Nr. | Serie | h mm | b mm | d mm | t mm | Vægt i kg pr. Meter | Tværsnitsareal F cm <sup>2</sup> | Modstandsmomenter              |                                | Inertimomenter                 |                                | Inertiradier $i = \sqrt{\frac{I}{F}}$ |                   | Kærneradier $r = \frac{W}{F}$ |                   | Diagonal cm | Statisk Moment af halve Tværsnit S <sub>x</sub> cm <sup>3</sup> | W <sub>x</sub> / Vægt |
|------------|-------|------|------|------|------|---------------------|----------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------------|-------------------|-------------------------------|-------------------|-------------|-----------------------------------------------------------------|-----------------------|
|            |       |      |      |      |      |                     |                                  | W <sub>x</sub> cm <sup>3</sup> | W <sub>y</sub> cm <sup>3</sup> | J <sub>x</sub> cm <sup>4</sup> | J <sub>y</sub> cm <sup>4</sup> | i <sub>x</sub> cm                     | i <sub>y</sub> cm | r <sub>x</sub> cm             | r <sub>y</sub> cm |             |                                                                 |                       |
| 75         | DIMEL | 738  | 297  | 15.0 | 28.0 | 215.78              | 274.88                           | 6948                           | 825                            | 256394                         | 12254                          | 30.54                                 | 6.67              | 25.28                         | 3.00              | 79.55       | 3927                                                            | 32.20                 |
|            | DIP   | 750  | 300  | 18.0 | 34.0 | 261.42              | 333.02                           | 8434                           | 1023                           | 316256                         | 15349                          | 30.81                                 | 6.79              | 25.33                         | 3.07              | 80.78       | 4698                                                            | 32.30                 |
|            | DIMAX | 762  | 303  | 21.0 | 40.0 | 307.60              | 391.88                           | 9941                           | 1229                           | 378759                         | 18615                          | 31.07                                 | 6.90              | 25.37                         | 3.14              | 82.00       | 5600                                                            | 32.30                 |
| 80         | DIMEL | 792  | 298  | 16.0 | 30.0 | 237.21              | 302.18                           | 8083                           | 890                            | 320104                         | 13271                          | 32.54                                 | 6.63              | 26.75                         | 2.94              | 84.62       | 4588                                                            | 34.08                 |
|            | DIP   | 800  | 300  | 18.0 | 34.0 | 268.49              | 342.02                           | 9160                           | 1023                           | 366386                         | 15351                          | 32.73                                 | 6.70              | 26.78                         | 2.99              | 85.44       | 5112                                                            | 34.10                 |
|            | DIMAX | 812  | 303  | 21.0 | 40.0 | 315.86              | 402.38                           | 10794                          | 1229                           | 438242                         | 18618                          | 32.98                                 | 6.80              | 26.83                         | 3.05              | 86.67       | 6108                                                            | 34.20                 |
| 85         | DIMEL | 842  | 298  | 17.0 | 32.0 | 259.61              | 330.72                           | 9288                           | 951                            | 391019                         | 14166                          | 34.38                                 | 6.54              | 28.08                         | 2.87              | 89.32       | 5293                                                            | 35.78                 |
|            | DIP   | 850  | 300  | 19.0 | 36.0 | 291.67              | 371.55                           | 10444                          | 1084                           | 443890                         | 16267                          | 34.56                                 | 6.61              | 28.11                         | 2.92              | 90.14       | 5837                                                            | 35.80                 |
|            | DIMAX | 858  | 302  | 21.0 | 40.0 | 323.97              | 412.71                           | 11613                          | 1222                           | 498179                         | 18445                          | 34.72                                 | 6.70              | 28.14                         | 2.98              | 90.96       | 6515                                                            | 35.80                 |
| 90         | DIMEL | 892  | 298  | 17.0 | 32.0 | 266.28              | 339.22                           | 10001                          | 951                            | 446066                         | 14168                          | 36.26                                 | 6.46              | 29.49                         | 2.80              | 94.05       | 5711                                                            | 37.56                 |
|            | DIP   | 900  | 300  | 19.0 | 36.0 | 299.12              | 381.05                           | 11245                          | 1085                           | 506040                         | 16270                          | 36.44                                 | 6.53              | 29.51                         | 2.85              | 94.87       | 6294                                                            | 37.60                 |
|            | DIMAX | 908  | 302  | 21.0 | 40.0 | 332.22              | 423.21                           | 12501                          | 1222                           | 567556                         | 18449                          | 36.62                                 | 6.60              | 29.54                         | 2.89              | 95.69       | 7040                                                            | 37.60                 |
| 95         | DIMEL | 942  | 298  | 17.0 | 32.0 | 272.96              | 347.72                           | 10729                          | 951                            | 505354                         | 14170                          | 38.13                                 | 6.38              | 30.86                         | 2.74              | 98.80       | 6140                                                            | 39.36                 |
|            | DIP   | 950  | 300  | 19.0 | 36.0 | 306.58              | 390.55                           | 12062                          | 1085                           | 572953                         | 16273                          | 38.30                                 | 6.45              | 30.88                         | 2.78              | 99.62       | 6766                                                            | 39.30                 |
|            | DIMAX | 958  | 302  | 21.0 | 40.0 | 340.46              | 433.71                           | 13408                          | 1222                           | 642220                         | 18453                          | 38.48                                 | 6.52              | 30.91                         | 2.82              | 100.45      | 7570                                                            | 39.40                 |
| 100        | DIMEL | 992  | 298  | 17.0 | 32.0 | 279.63              | 356.22                           | 11472                          | 951                            | 568988                         | 14172                          | 39.97                                 | 6.31              | 32.20                         | 2.67              | 102.52      | 6580                                                            | 41.03                 |
|            | DIP   | 1000 | 300  | 19.0 | 36.0 | 314.04              | 400.05                           | 12895                          | 1085                           | 644748                         | 16276                          | 40.14                                 | 6.37              | 32.23                         | 2.71              | 104.40      | 7251                                                            | 41.10                 |
|            | DIMAX | 1008 | 302  | 21.0 | 40.0 | 348.70              | 444.21                           | 14332                          | 1222                           | 722326                         | 18456                          | 40.32                                 | 6.45              | 32.26                         | 2.75              | 105.23      | 8092                                                            | 41.10                 |

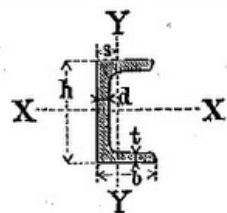


## ┌ Staal i Normalprofiler og Waggonprofiler

| Profil Nr. | h mm  | b mm | d mm | t mm | Flangens Hældning i % | Vægt i kg pr. Meter | Tværsnitsareal F cm <sup>2</sup> | Modstandsmomenter              |                                |                                 | Inerti-momenter                |                                |                                | Inertiradier $i = \sqrt{\frac{I}{F}}$ |                   | Kærneradier $r = \frac{W}{F}$ |                   |                   | Tyngdepunktets Afstand fra Stam-mens Yderside cm | Diagonal. cm | Statisk Moment af halve Tvær-snit S <sub>x</sub> cm <sup>3</sup> | W <sub>x</sub> Vægt |
|------------|-------|------|------|------|-----------------------|---------------------|----------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------------|-------------------|-------------------------------|-------------------|-------------------|--------------------------------------------------|--------------|------------------------------------------------------------------|---------------------|
|            |       |      |      |      |                       |                     |                                  | W <sub>x</sub> cm <sup>3</sup> | W <sub>y</sub> cm <sup>3</sup> | W <sub>ey</sub> cm <sup>3</sup> | J <sub>x</sub> cm <sup>4</sup> | J <sub>y</sub> cm <sup>4</sup> | J <sub>h</sub> cm <sup>4</sup> | i <sub>x</sub> cm                     | i <sub>y</sub> cm | r <sub>x</sub> cm             | r <sub>y</sub> cm | r <sub>y</sub> cm |                                                  |              |                                                                  |                     |
| 3          | 30    | 33   | 5    | 7    | 8                     | 4.27                | 5.44                             | 4.26                           | 2.68                           | 4.07                            | 6.39                           | 5.33                           | 14.7                           | 1.08                                  | 0.99              | 0.78                          | 0.49              | 0.75              | 1.31                                             | 4.46         | 2.8                                                              | 1.0                 |
| 4          | 40    | 35   | 5    | 7    | 8                     | 4.87                | 6.21                             | 7.05                           | 3.08                           | 5.02                            | 14.1                           | 6.68                           | 17.7                           | 1.51                                  | 1.04              | 1.14                          | 0.50              | 0.81              | 1.33                                             | 5.32         | 4.5                                                              | 1.4                 |
| 5          | 50    | 38   | 5    | 7    | 8                     | 5.59                | 7.12                             | 10.6                           | 3.75                           | 6.66                            | 26.4                           | 9.12                           | 22.5                           | 1.93                                  | 1.13              | 1.49                          | 0.53              | 0.93              | 1.37                                             | 6.28         | 6.5                                                              | 1.9                 |
| 5½         | 50    | 25   | 6    | 6    | 8                     | 4.25                | 5.28                             | 6.96                           | 1.52                           | 3.29                            | 17.4                           | 2.60                           | 5.9                            | 1.82                                  | 0.70              | 1.32                          | 0.29              | 0.62              | 0.79                                             | 5.59         | 4.4                                                              | 1.6                 |
| 6          | 60    | 30   | 6    | 7.35 | 8                     | 5.61                | 7.15                             | 11.8                           | 3.00                           | 5.57                            | 35.4                           | 5.80                           | 13.6                           | 2.23                                  | 0.90              | 1.65                          | 0.42              | 0.78              | 1.04                                             | 6.71         | 7.3                                                              | 2.1                 |
| 6½         | 65    | 42   | 5.5  | 7.5  | 8                     | 7.09                | 9.03                             | 17.7                           | 5.07                           | 9.93                            | 57.5                           | 14.1                           | 32.3                           | 2.52                                  | 1.25              | 1.96                          | 0.56              | 1.10              | 1.42                                             | 7.74         | 10.8                                                             | 2.5                 |
| 8          | 80    | 45   | 6    | 8    | 8                     | 8.64                | 11.0                             | 26.5                           | 6.36                           | 13.4                            | 106                            | 19.4                           | 42.5                           | 3.10                                  | 1.33              | 2.41                          | 0.58              | 1.22              | 1.45                                             | 9.18         | 16.0                                                             | 3.1                 |
| 10         | 100   | 50   | 6    | 8.5  | 8                     | 10.60               | 13.5                             | 41.2                           | 8.49                           | 18.9                            | 206                            | 29.3                           | 61.7                           | 3.91                                  | 1.47              | 3.04                          | 0.63              | 1.40              | 1.55                                             | 11.18        | 24.6                                                             | 3.9                 |
| 10½ W      | 105   | 65   | 8    | 8    | 8                     | 13.58               | 17.3                             | 54.7                           | 13.2                           | 32.6                            | 287                            | 61.2                           | 122                            | 4.07                                  | 1.88              | 3.16                          | 0.76              | 1.88              | 1.88                                             | 12.35        | 33.1                                                             | 4.0                 |
| 11¾ W      | 117.5 | 65   | 10   | 10   | 8                     | 17.74               | 22.6                             | 76.1                           | 16.7                           | 40.4                            | 447                            | 77.1                           | 160                            | 4.45                                  | 1.85              | 3.37                          | 0.74              | 1.79              | 1.91                                             | 13.43        | 46.8                                                             | 4.3                 |
| 12         | 120   | 55   | 7    | 9    | 8                     | 13.35               | 17.0                             | 60.7                           | 11.1                           | 27.0                            | 364                            | 43.2                           | 86.7                           | 4.63                                  | 1.59              | 3.57                          | 0.65              | 1.59              | 1.60                                             | 13.20        | 36.6                                                             | 4.5                 |
| 14         | 140   | 60   | 7    | 10   | 8                     | 16.01               | 20.4                             | 86.4                           | 14.8                           | 35.8                            | 605                            | 62.7                           | 125                            | 5.45                                  | 1.75              | 4.24                          | 0.73              | 1.76              | 1.75                                             | 15.23        | 51.6                                                             | 5.4                 |
| 14½ W      | 145   | 60   | 8    | 8    | 8                     | 15.54               | 19.8                             | 80.7                           | 11.9                           | 35.8                            | 585                            | 53.6                           | 98.2                           | 5.44                                  | 1.65              | 4.08                          | 0.60              | 1.81              | 1.50                                             | 15.69        | 49.5                                                             | 5.2                 |
| 16         | 160   | 65   | 7.5  | 10.5 | 8                     | 18.84               | 24.0                             | 116                            | 18.3                           | 46.4                            | 925                            | 85.3                           | 167                            | 6.21                                  | 1.89              | 4.83                          | 0.76              | 1.93              | 1.84                                             | 17.27        | 69.1                                                             | 6.2                 |
| 18         | 180   | 70   | 8    | 11   | 8                     | 21.98               | 28.0                             | 150                            | 22.4                           | 59.4                            | 1354                           | 114                            | 217                            | 6.95                                  | 2.02              | 5.36                          | 0.80              | 2.12              | 1.92                                             | 19.31        | 90.0                                                             | 6.8                 |
| 20         | 200   | 75   | 8.5  | 11.5 | 8                     | 25.28               | 32.2                             | 191                            | 27.0                           | 73.7                            | 1911                           | 148                            | 278                            | 7.70                                  | 2.14              | 5.93                          | 0.84              | 2.29              | 2.01                                             | 21.36        | 115                                                              | 7.6                 |



## ┌ Staal i Normalprofiler og Waggonprofiler



| Profil Nr.         | h mm | b mm | d mm  | t mm | Flangens Hældning i % | Vægt i kg pr. Meter | Tværsnitsareal F cm <sup>2</sup> | Modstandsmomenter              |                                |                                 | Inerti-momenter                |                                |                                | Inertiradier $i = \sqrt{\frac{I}{F}}$ |                   | Kærneradier $r = \frac{W}{F}$ |                   |                    | Tyngdepunktets Afstand fra Stam-mens Yderside. cm | Diagonal cm | Statisk Moment af halve Tvær-snit S <sub>x</sub> cm <sup>3</sup> | W <sub>x</sub> Vægt |
|--------------------|------|------|-------|------|-----------------------|---------------------|----------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------------|-------------------|-------------------------------|-------------------|--------------------|---------------------------------------------------|-------------|------------------------------------------------------------------|---------------------|
|                    |      |      |       |      |                       |                     |                                  | W <sub>x</sub> cm <sup>3</sup> | W <sub>y</sub> cm <sup>3</sup> | W <sub>ey</sub> cm <sup>3</sup> | J <sub>x</sub> cm <sup>4</sup> | J <sub>y</sub> cm <sup>4</sup> | J <sub>h</sub> cm <sup>4</sup> | i <sub>x</sub> cm                     | i <sub>y</sub> cm | r <sub>x</sub> cm             | r <sub>y</sub> cm | r <sub>ey</sub> cm |                                                   |             |                                                                  |                     |
| 22                 | 220  | 80   | 9     | 12.5 | 8                     | 29.36               | 37.4                             | 245                            | 33.6                           | 92.1                            | 2690                           | 197                            | 368                            | 8.48                                  | 2.29              | 6.55                          | 0.90              | 2.46               | 2.14                                              | 23.41       | 147                                                              | 8.3                 |
| 23 $\frac{1}{2}$ W | 235  | 90   | 10    | 12   | 8                     | 33.28               | 42.4                             | 292                            | 40.5                           | 119.3                           | 3429                           | 272                            | 492                            | 8.99                                  | 2.53              | 6.89                          | 0.96              | 2.81               | 2.28                                              | 25.16       | 176                                                              | 8.8                 |
| 24                 | 240  | 85   | 9.5   | 13   | 8                     | 33.21               | 42.3                             | 300                            | 39.6                           | 111                             | 3598                           | 248                            | 458                            | 9.22                                  | 2.42              | 7.09                          | 0.94              | 2.63               | 2.23                                              | 25.46       | 180                                                              | 9.0                 |
| 26 W               | 260  | 90   | 10    | 10   | 8                     | 32.66               | 41.6                             | 300                            | 33.7                           | 120.3                           | 3900                           | 237                            | 398                            | 9.68                                  | 2.39              | 7.21                          | 0.81              | 2.89               | 1.97                                              | 27.51       | 185                                                              | 9.2                 |
| 26                 | 260  | 90   | 10    | 14   | 8                     | 37.92               | 48.3                             | 371                            | 47.7                           | 134                             | 4823                           | 317                            | 586                            | 10.0                                  | 2.56              | 7.68                          | 0.99              | 2.78               | 2.36                                              | 27.51       | 222                                                              | 9.8                 |
| 28                 | 280  | 95   | 10    | 15   | 8                     | 41.84               | 53.3                             | 448                            | 57.2                           | 158                             | 6276                           | 399                            | 740                            | 10.9                                  | 2.74              | 8.44                          | 1.08              | 2.96               | 2.53                                              | 29.57       | 267                                                              | 10.7                |
| 30 W               | 300  | 75   | 10    | 10   | 8                     | 33.60               | 42.8                             | 328                            | 24.2                           | 96.7                            | 4925                           | 145                            | 241                            | 10.7                                  | 1.84              | 7.66                          | 0.57              | 2.26               | 1.50                                              | 30.92       | 207                                                              | 9.8                 |
| 30                 | 300  | 100  | 10    | 16   | 8                     | 46.16               | 58.8                             | 535                            | 67.8                           | 183                             | 8026                           | 495                            | 924                            | 11.7                                  | 2.90              | 9.10                          | 1.16              | 3.12               | 2.70                                              | 31.62       | 317                                                              | 11.6                |
| 32                 | 320  | 100  | 14    | 17.5 | 8                     | 59.50               | 75.8                             | 679                            | 80.6                           | 230                             | 10870                          | 597                            | 1109                           | 12.1                                  | 2.81              | 8.96                          | 1.06              | 3.03               | 2.60                                              | 33.53       | 407                                                              | 11.4                |
| 35                 | 350  | 100  | 14    | 16   | 8                     | 60.60               | 77.3                             | 734                            | 75.0                           | 238                             | 12840                          | 570                            | 1015                           | 12.9                                  | 2.72              | 9.50                          | 0.97              | 3.07               | 2.40                                              | 36.40       | 444                                                              | 12.1                |
| 38                 | 381  | 102  | 13.34 | 16   | 8                     | 62.60               | 79.7                             | 826                            | 78.4                           | 261                             | 15730                          | 613                            | 1053                           | 14.1                                  | 2.78              | 10.37                         | 0.98              | 3.27               | 2.35                                              | 39.44       | 501                                                              | 13.2                |
| 40                 | 400  | 110  | 14    | 18   | 8                     | 71.80               | 91.5                             | 1020                           | 102                            | 319                             | 20350                          | 840                            | 1489                           | 14.9                                  | 3.04              | 11.25                         | 1.11              | 3.49               | 2.65                                              | 41.49       | 600                                                              | 14.2                |

┌ Staal for Staalbindingsværk

## **Vedlegg I: Originale tegninger**

Forve bru,

Sör-Tröndelag fylke.

Antall originaltegninger: 10 + 2 innfl. linjer

Oppbevares: E127

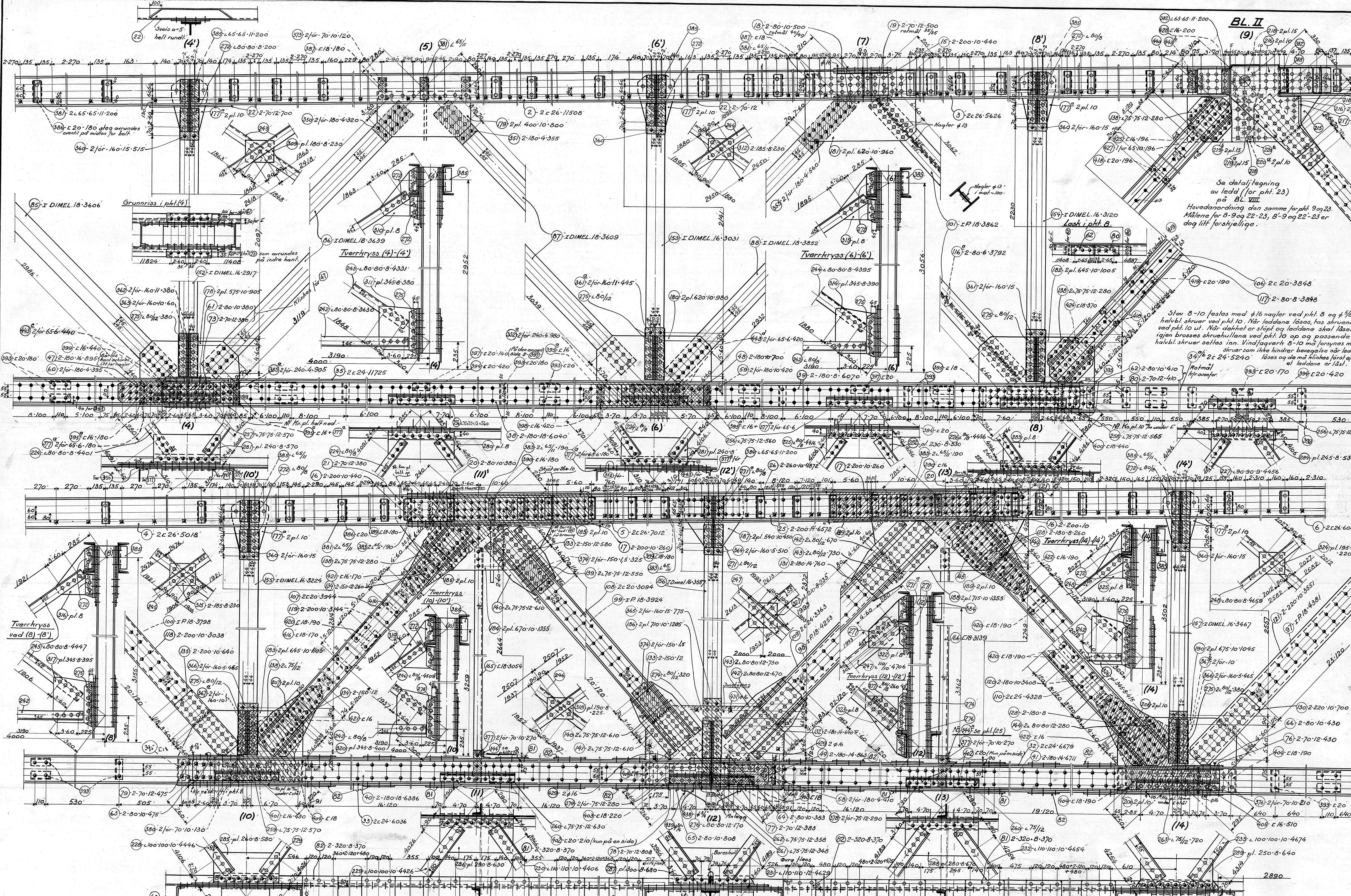
Oversikt over utførte tegninger:

| Tegn. nr. | Blad nr. | Tegningen omfatter                    | Merknad |
|-----------|----------|---------------------------------------|---------|
| 957       | I        | Fagverk                               |         |
| 958       | II       | —"—                                   |         |
| 959       | III      | —"—                                   |         |
| 960       | IV       | —"—                                   |         |
| 961       | V        | Lager                                 |         |
| 963       | VII      | Rektvert og Bjelkesp.                 |         |
| 964       | VIII     | Detalj av ledd i pkt. 23              |         |
| 965       | IX       | Forst. til forskaling                 |         |
| 966       | X        | Brudekket                             |         |
| uten nr.  |          | Sprengkammer<br>2 bl. innfluenslinjer |         |
| 962       | VI       | Oversikt                              |         |









BL. II

Se detaljtegning av led (for pht. 23) på BL VIII.  
Hovedanordning den samme for pht. 9 og 23. Målene for 8-9 og 22-23, 8-9 og 22-23 er dog lidt forskjellige.

Stav 8-10 festes med #16 nagler ved pht. 8 og #5 halv. struer ved pht. 10. Når ledene løses, tas struene ved pht. 10 ut. Når støttestøtten er ferdig og ledene skal løses igjen, brukes strubullene ved pht. 10 og en passende halv. struer settes inn. Vindlaget 8-10 må forsynes med struer som ikke hindrer banevasken når ledene løses og de må hinkes først etter at ledene er løst.

**Forve bru.**  
Sör-Trändelag fylke  
Vaidirektörkontoret.  
Oslo den 30/12/1937

|      |       |       |
|------|-------|-------|
| M =  | Teqn. | R. 7. |
| 1:10 | 1761. | 15.1  |
|      | 1761. | 15.1  |
|      |       | R. 3. |

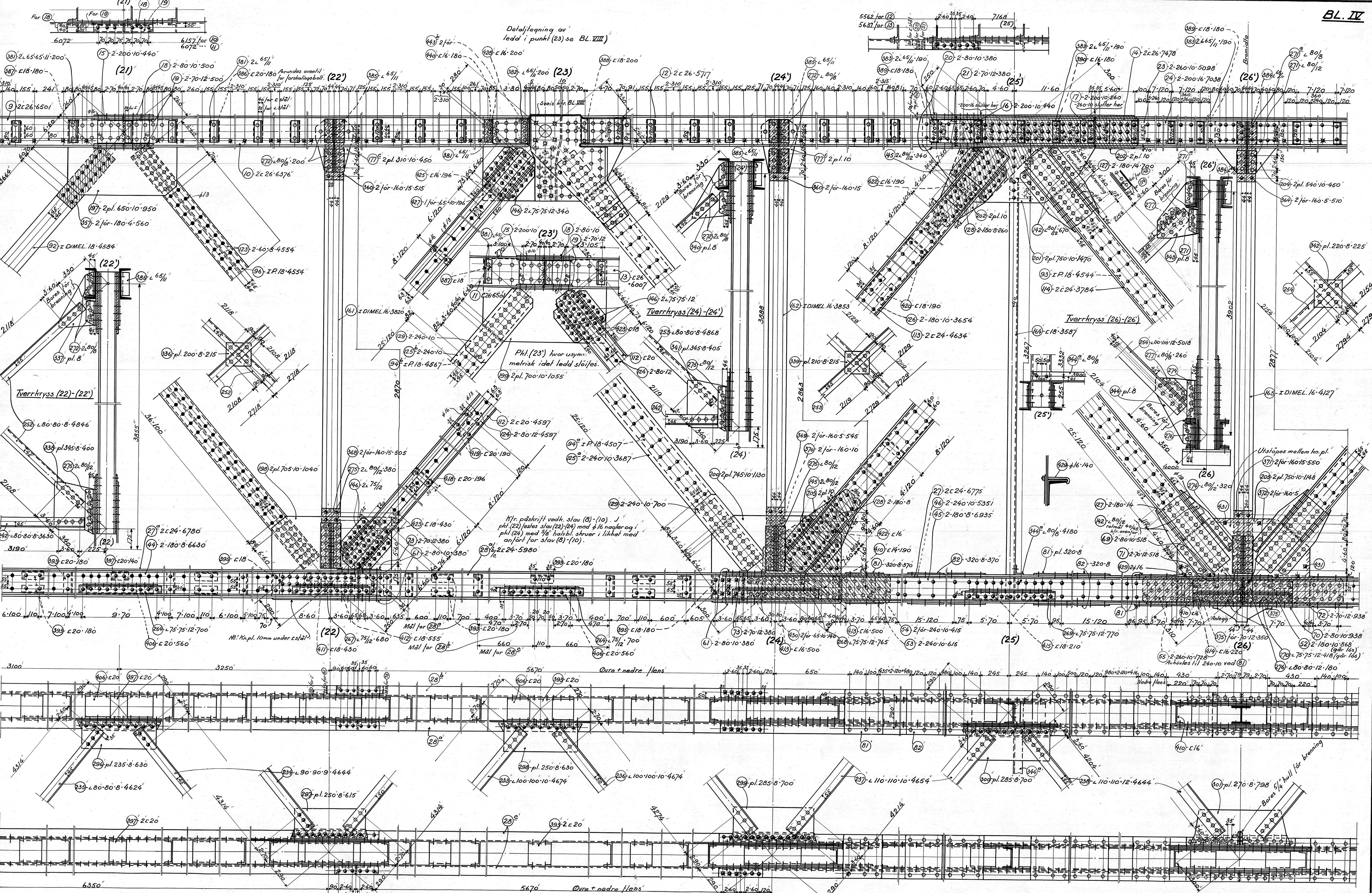
Erstatning for:  
**958**  
Erstattet av:

*O. H. Lang*





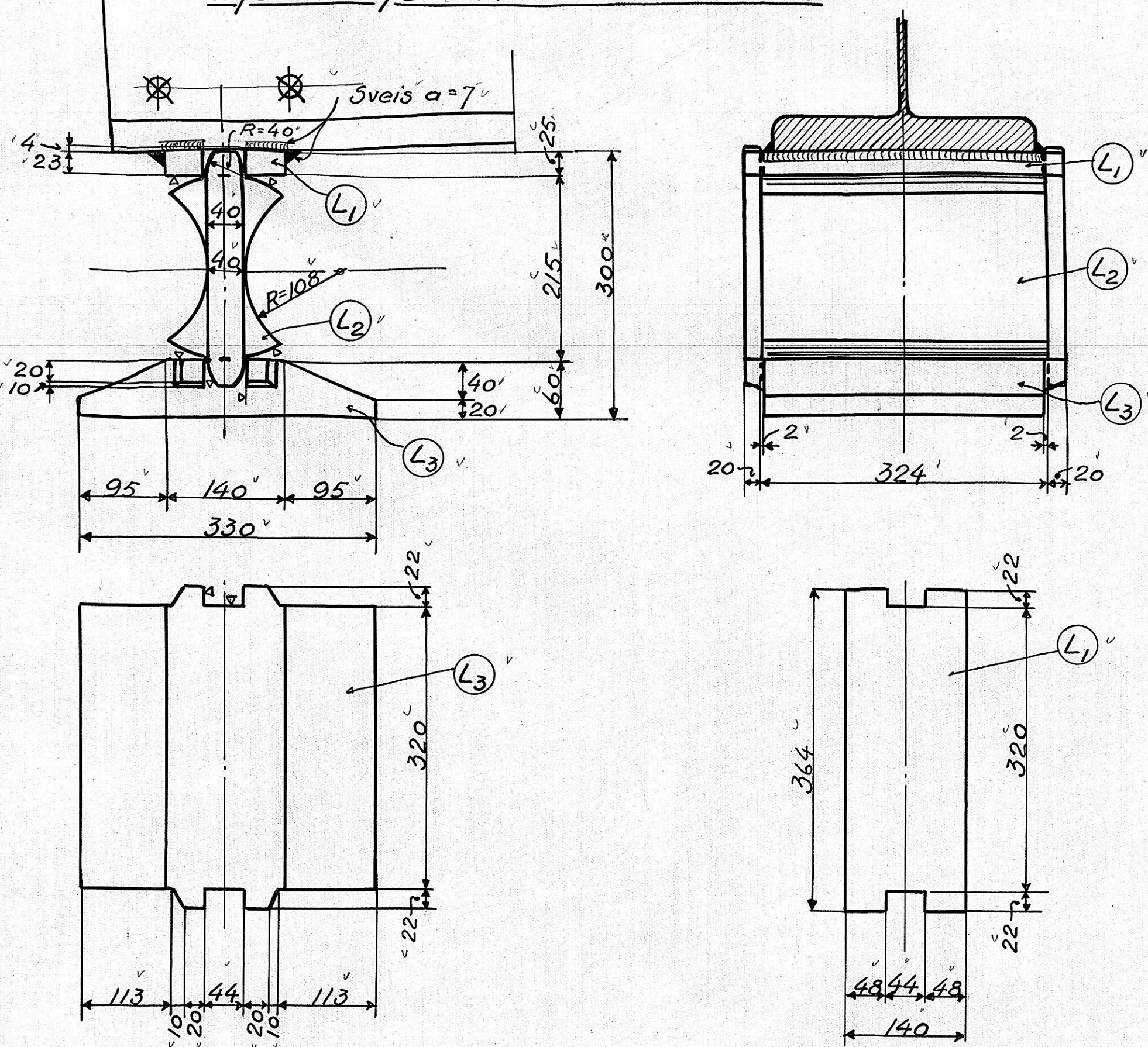




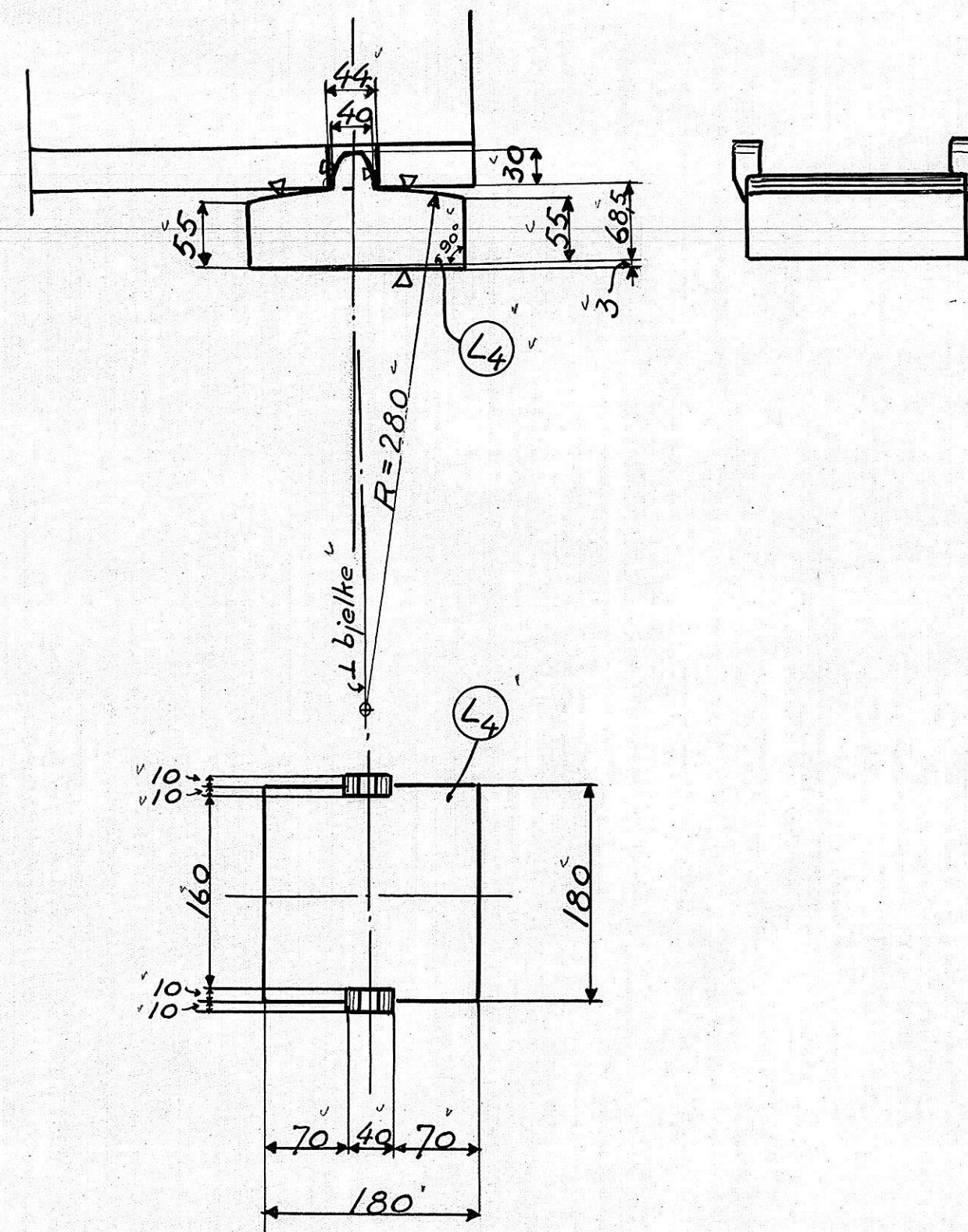


Lager

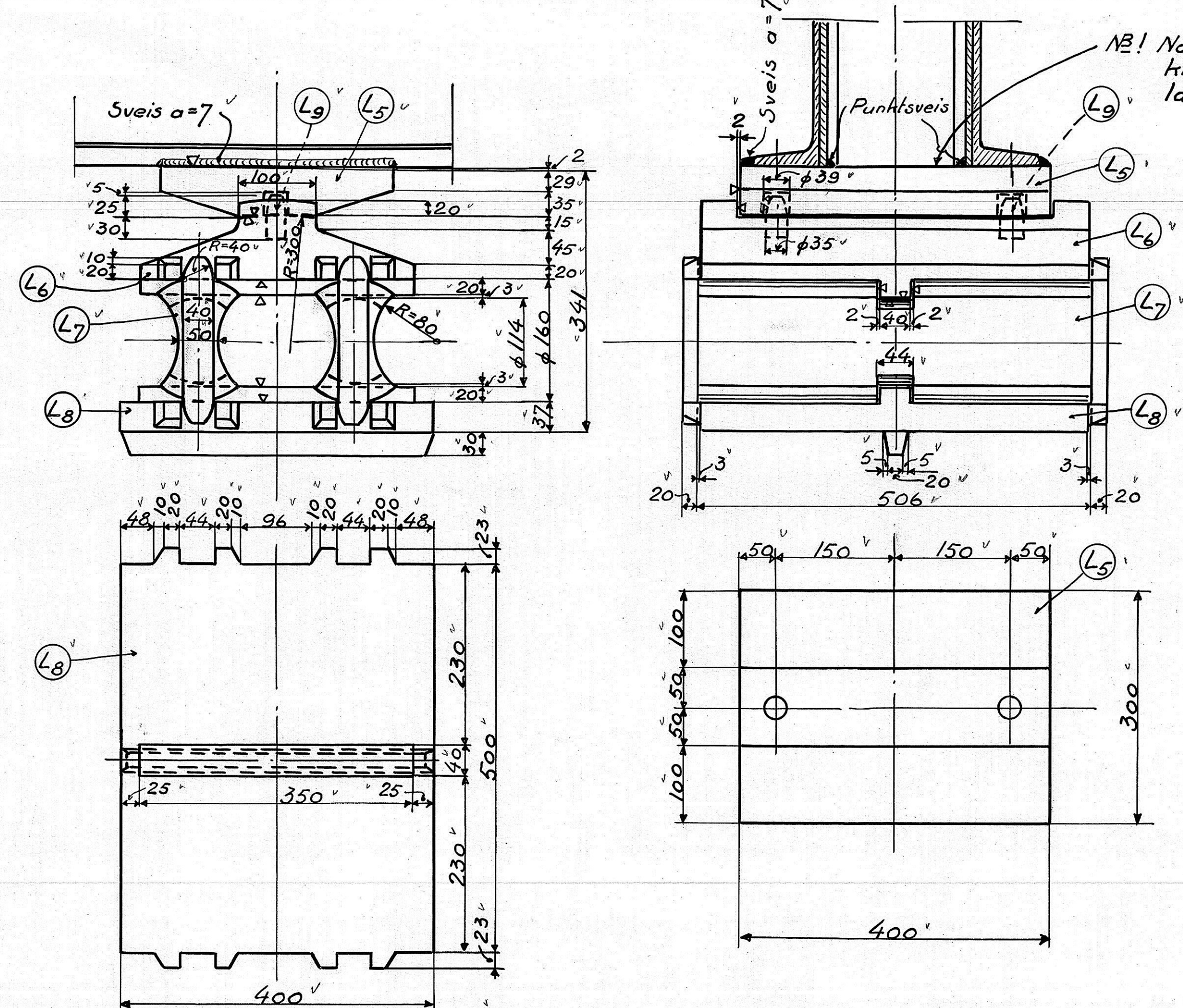
Bjelkelager M=1:5 A=49 tonn



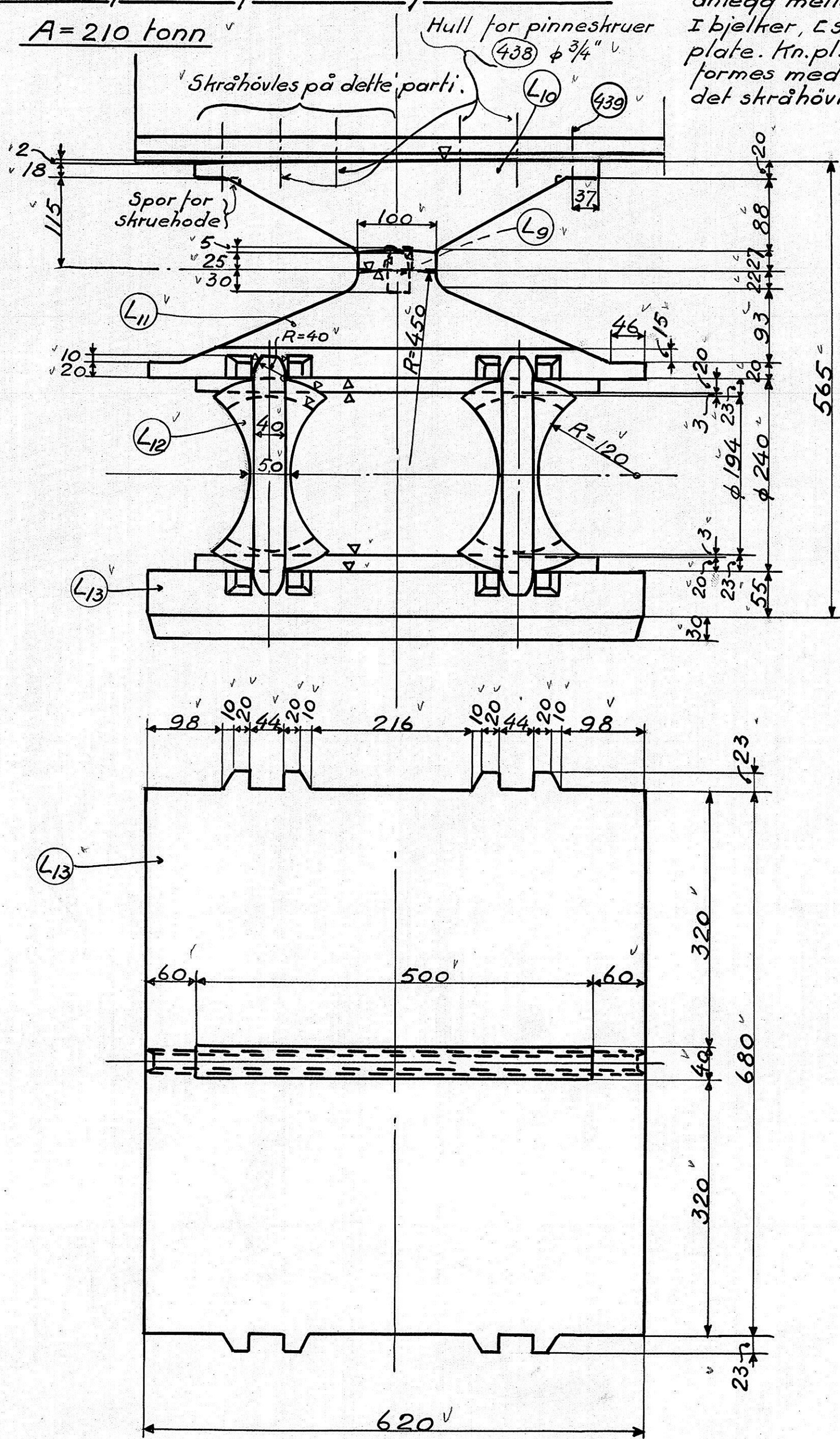
Fast bjelkelager M=1:5



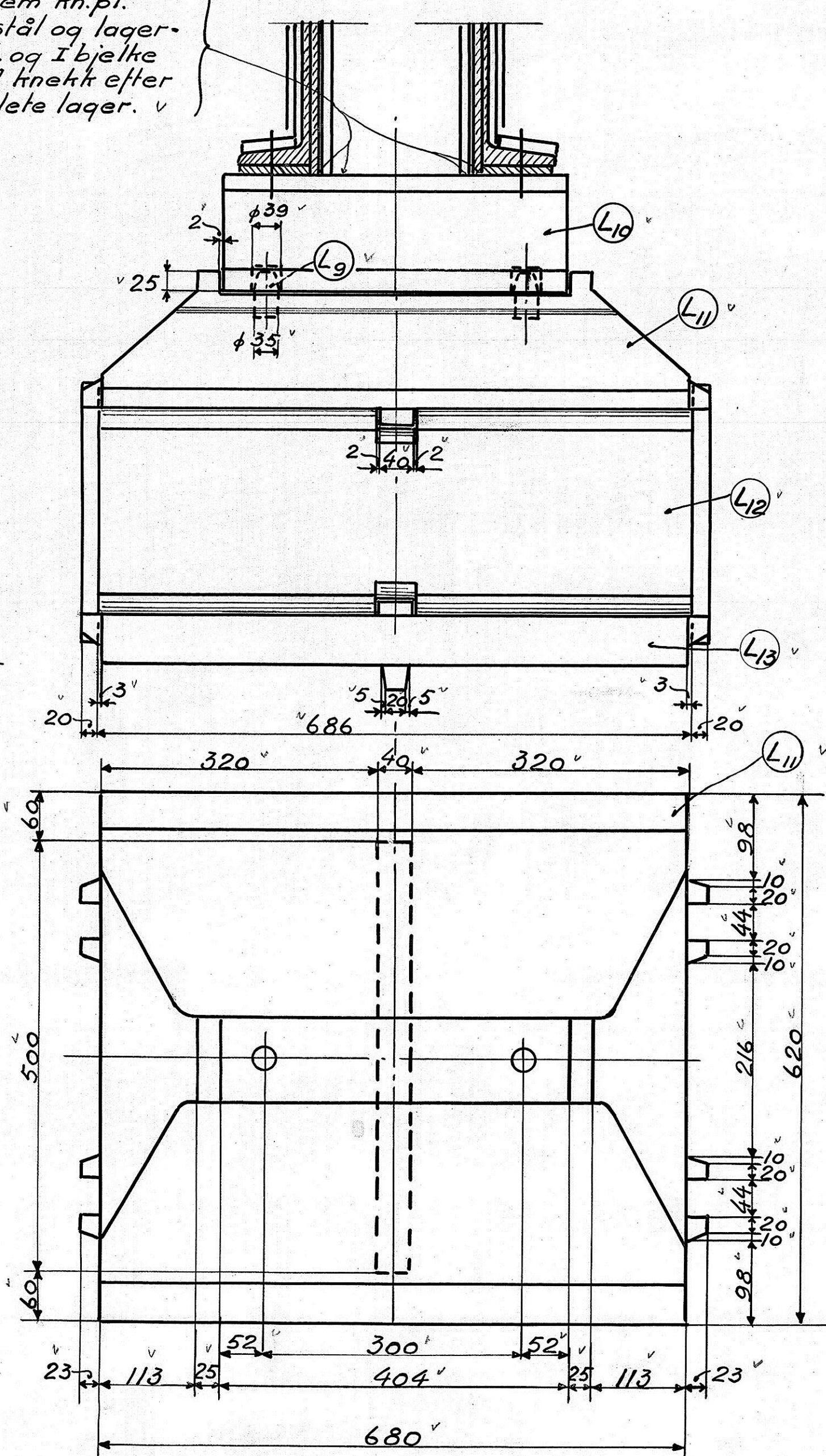
Rullelager ved pilar I og V M=1:5 A=100 tonn



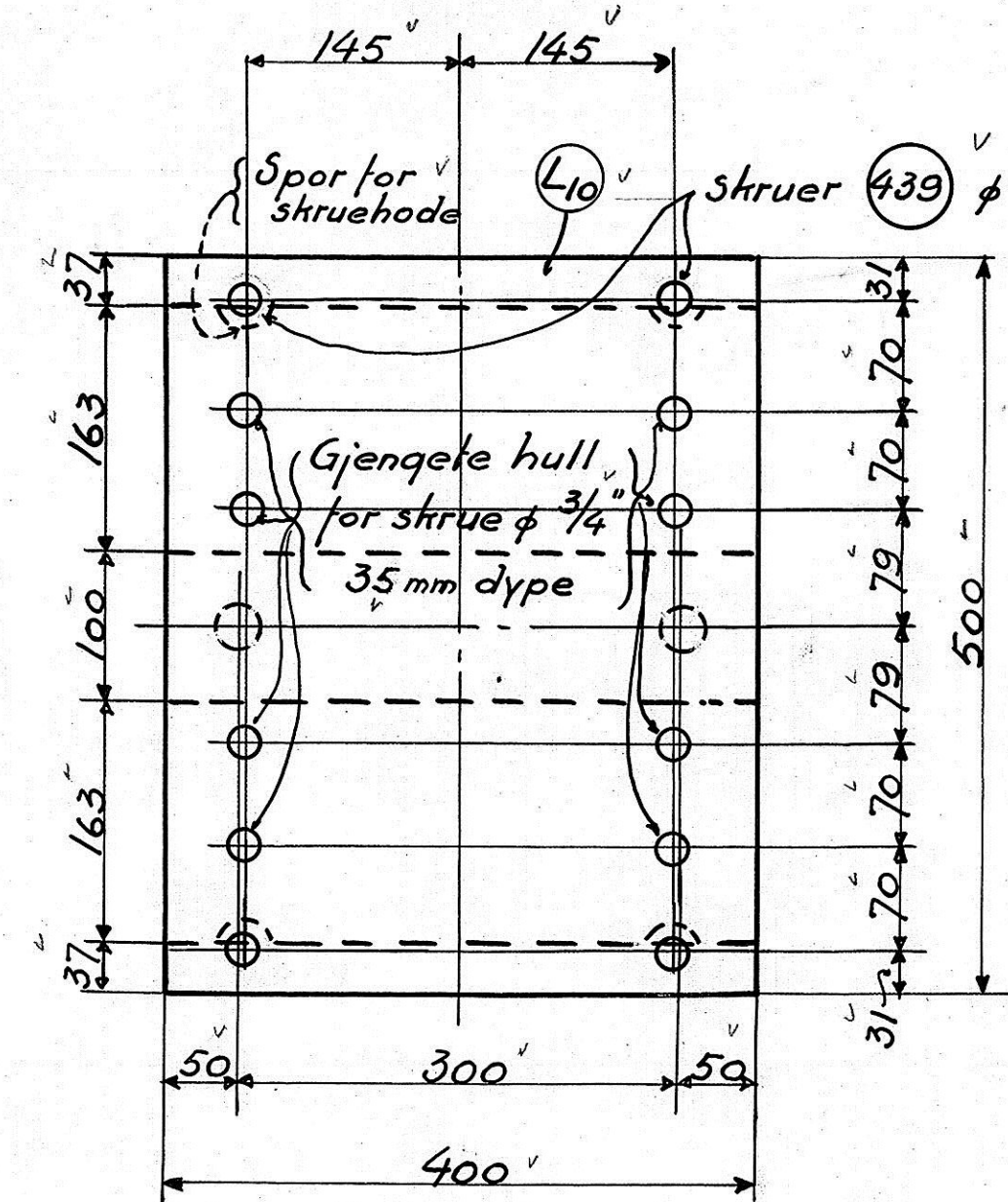
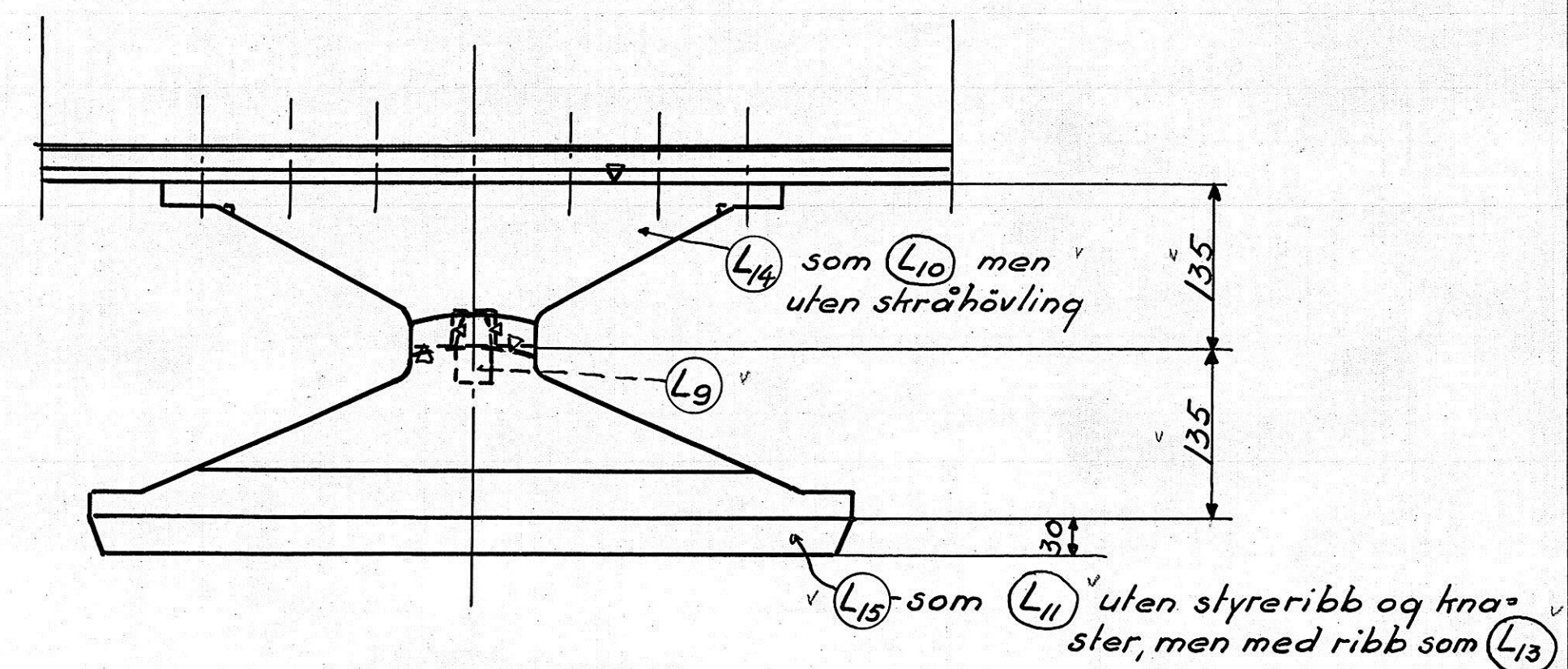
Rullelager ved pilar II og III M=1:5 A=210 tonn



Del må være nøkkelig anlegg mellom kn.pl. i bjelker, L-stål og lagerplate. Kn.pl. og I-bjelke formes med knekt etter det stråhøvlete lager.



Fast lager ved pilar III M=1:5 A=210 tonn



| Sht. nr. | Antall | Benevnelse  | Vekt pr.stk. | Vekt ialt | Anm.          |               |
|----------|--------|-------------|--------------|-----------|---------------|---------------|
| L1       | 4      | Overplater  | 9,9          | 39,6      | St. 37.12     |               |
| L2       | 4      | Valser      | 41,0         | 164,0     | Bjelkebro     |               |
| L3       | 4      | Underlager  | 40,7         | 162,8     |               |               |
| L4       | 4      | "           | 17,6         | 70,4      |               | Støpestål     |
| L5       | 4      | Klippstykke | 49,9         | 199,6     |               | 5.st. 45.81 A |
| L6       | 4      | Overlager   | 75,5         | 302,0     | Fagverksbro   |               |
| L7       | 8      | Valser      | 44,5         | 356,0     |               |               |
| L8       | 4      | Underlager  | 63,5         | 254,0     |               |               |
| L9       | 20     | Tapper      | 0,37         | 7,4       |               | St. 37.12     |
| L10      | 4      | Klippstykke | 111,3        | 445,2     |               |               |
| L11      | 4      | Overlager   | 223,9        | 895,6     |               |               |
| L12      | 8      | Valser      | 104,9        | 839,2     | Støpestål     |               |
| L13      | 4      | Underlager  | 189,8        | 759,2     | 5.st. 45.81 A |               |
| L14      | 2      | Overlager   | 112,1        | 224,2     |               |               |
| L15      | 2      | Underlager  | 223,8        | 447,6     |               |               |
|          |        |             | Sum          |           | 5165,8 kg     |               |

Alle anleggsflater for stål mot stål maskinbearbejdes. Det støpes med god hulkeil i alle hjørner også der hvor det ikke er vist på tegning.

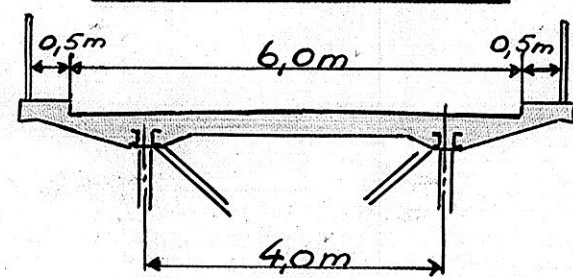
Forve bru, Sør-Trøndelag fylke. Veidirektørkontoret, Oslo den 6. nov. 1937. M=1:5. Tegning for 961. Erstatter av: [Signature]



Kjörebanebredde = 6,0m + 2 sidekanter à 0,5m Belastningsklasse 1<sup>b</sup>

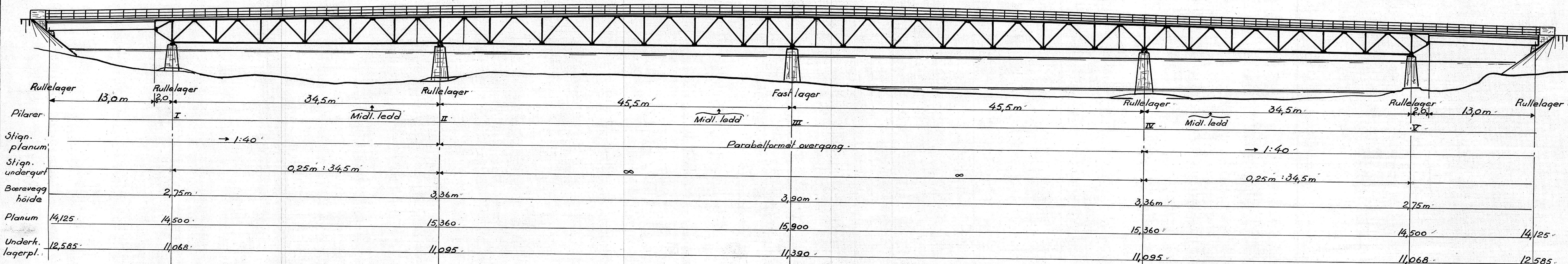
BL. VI

Tverrsnitt M=1:100



-Ost-

-Vest-



|                  |        |            |               |        |            |                        |            |       |            |     |               |            |        |            |
|------------------|--------|------------|---------------|--------|------------|------------------------|------------|-------|------------|-----|---------------|------------|--------|------------|
| Rullelager       | 13,0m  | Rullelager | 2,0           | 34,5m  | Rullelager | 45,5m                  | Fast lager | 45,5m | Rullelager | 2,0 | 34,5m         | Rullelager | 13,0m  | Rullelager |
| Pilarer          |        | I          | Midl. ledd    | II     |            | III                    |            | IV    | Midl. ledd | V   |               |            |        |            |
| Stiqn. planum    |        |            | → 1:40        |        |            | Parabelformet overgang |            |       |            |     | → 1:40        |            |        |            |
| Stiqn. underqurt |        |            | 0,25m : 34,5m |        |            | ∞                      |            |       |            |     | 0,25m : 34,5m |            |        |            |
| Bærevegg høide   |        | 2,75m      |               | 3,36m  |            | ∞                      | 3,90m      |       | 3,36m      |     | 2,75m         |            |        |            |
| Planum           | 14,125 | 14,500     |               | 15,360 |            |                        | 15,900     |       | 15,360     |     | 14,500        |            | 14,125 |            |
| Underk. lagerpl. | 12,585 | 11,068     |               | 11,095 |            |                        | 11,390     |       | 11,095     |     | 11,068        |            | 12,585 |            |

|                                      |  |                 |         |                   |
|--------------------------------------|--|-----------------|---------|-------------------|
| <b>Forve bru,</b>                    |  | M=              | Tegn.   | St.               |
| <b>Sør-Trøndelag fylke</b>           |  | 1:100           | Trac.   | HJ.               |
|                                      |  | 1:250           | Hfr.    | R. F. + G. (sign) |
|                                      |  |                 | Tr.Hfr. | R. F.             |
| <b>Veidirektørkontoret.</b>          |  | Erstatning for: |         |                   |
| Oslo den 6. 1. 1938. <i>Dag Haug</i> |  | <b>962</b>      |         |                   |
|                                      |  | Erstattet av:   |         |                   |



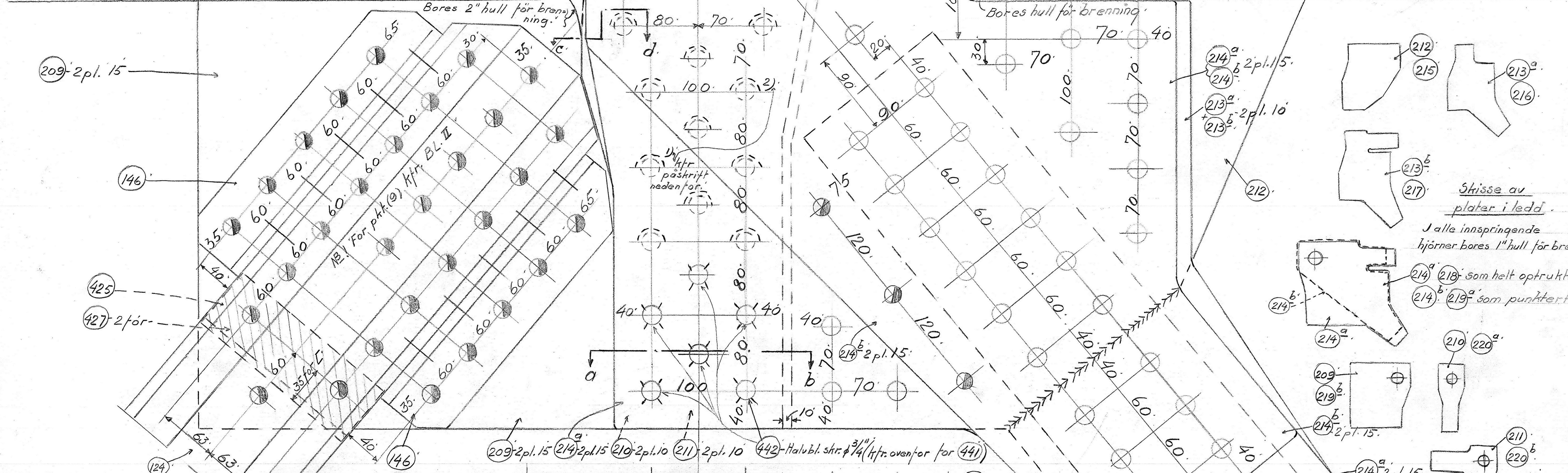
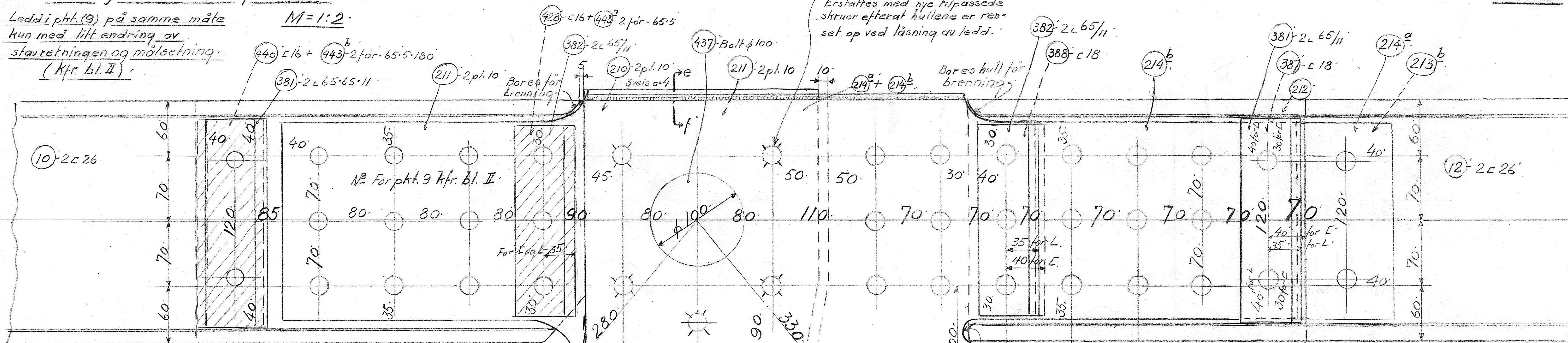




Detalj av ledd i pkt. (23)

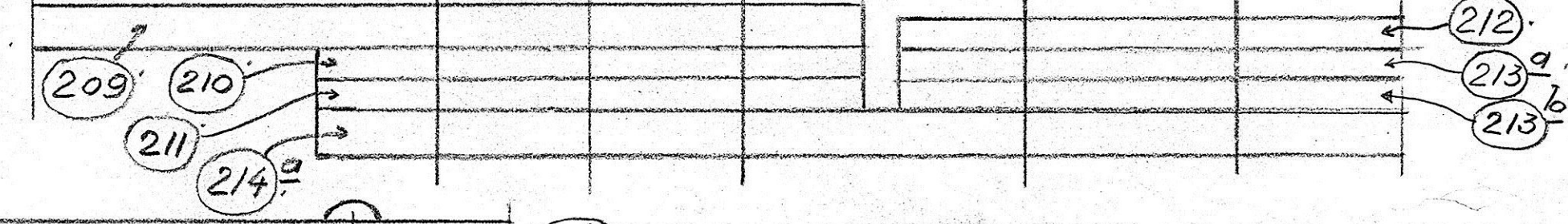
Ledd i pkt. (2) på samme måte kun med litt endring av staurerretningen og målsetning. (Kfr. bl. II).

M=1:2

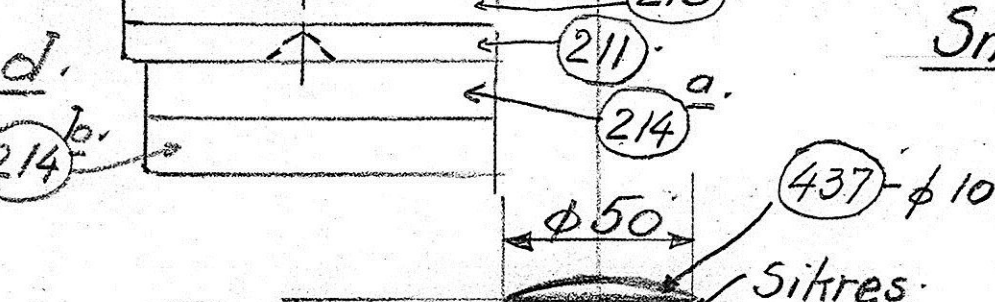


NB! De punkterte nagler anbringes kun i pl. (209) (210) og (211) samt i pl. (213) (220) og (225) og med glattlinket ytre hode. Under monteringen løses leddet ved hjelp av skruer (441) og (442). Når leddet løses tas disse skruer ut. Når leddet, etterat dekket er støpt, skal løses broses hullene rene og passende skruer settes inn som erstatt. for (441) og (442). Utsparing i dekket over ledd, kfr. brodetstagn. og monteringsregl. Til slutt bores de forsenkede nagler merket 1) og 2) ut og erstattes med gjennomgående nagler eller halvbl. skruer. For disse 2 nagler forbores 1/2 huller gjennom pl. (213) og (218) og (219) i vertstredet. Bolt (437) phi 100 oljes godt med smørulje for innsetning så den ikke biter sig fast.

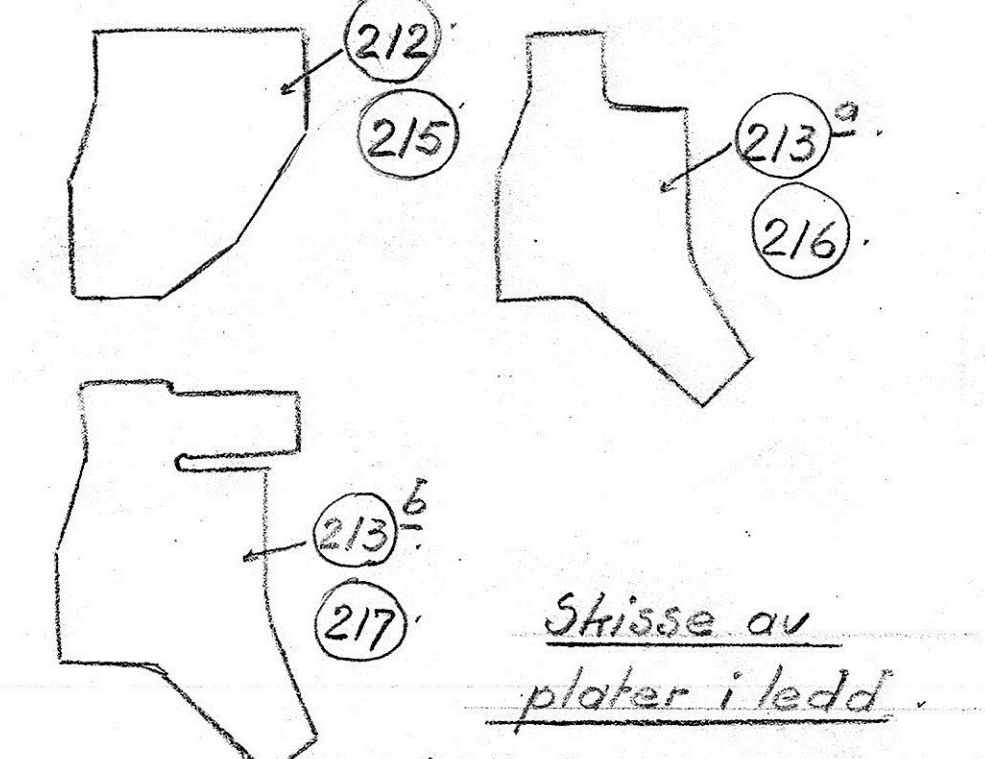
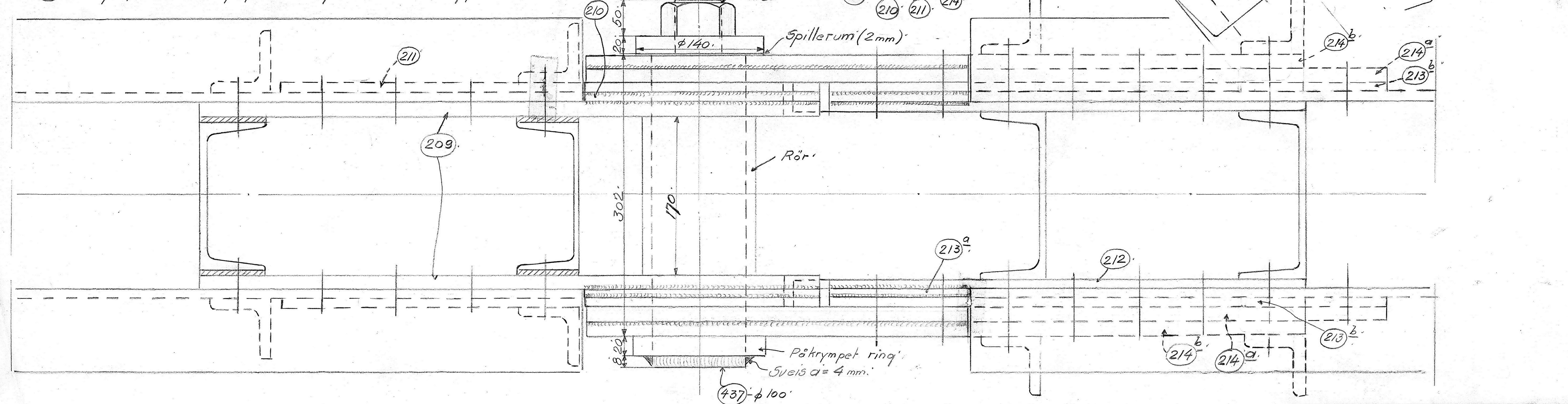
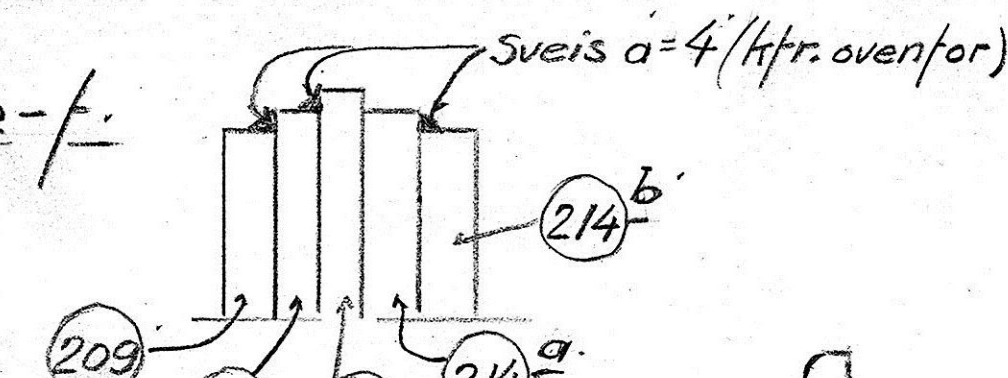
Snitt a-b



Snitt c-d



Snitt e-f



Strisse av plater i ledd. Jalle innspringende hjørner bores 1" hull for brenning. (214)<sup>a</sup> (218)<sup>a</sup> som helt optrukket. (214)<sup>b</sup> (219)<sup>a</sup> som punktert.

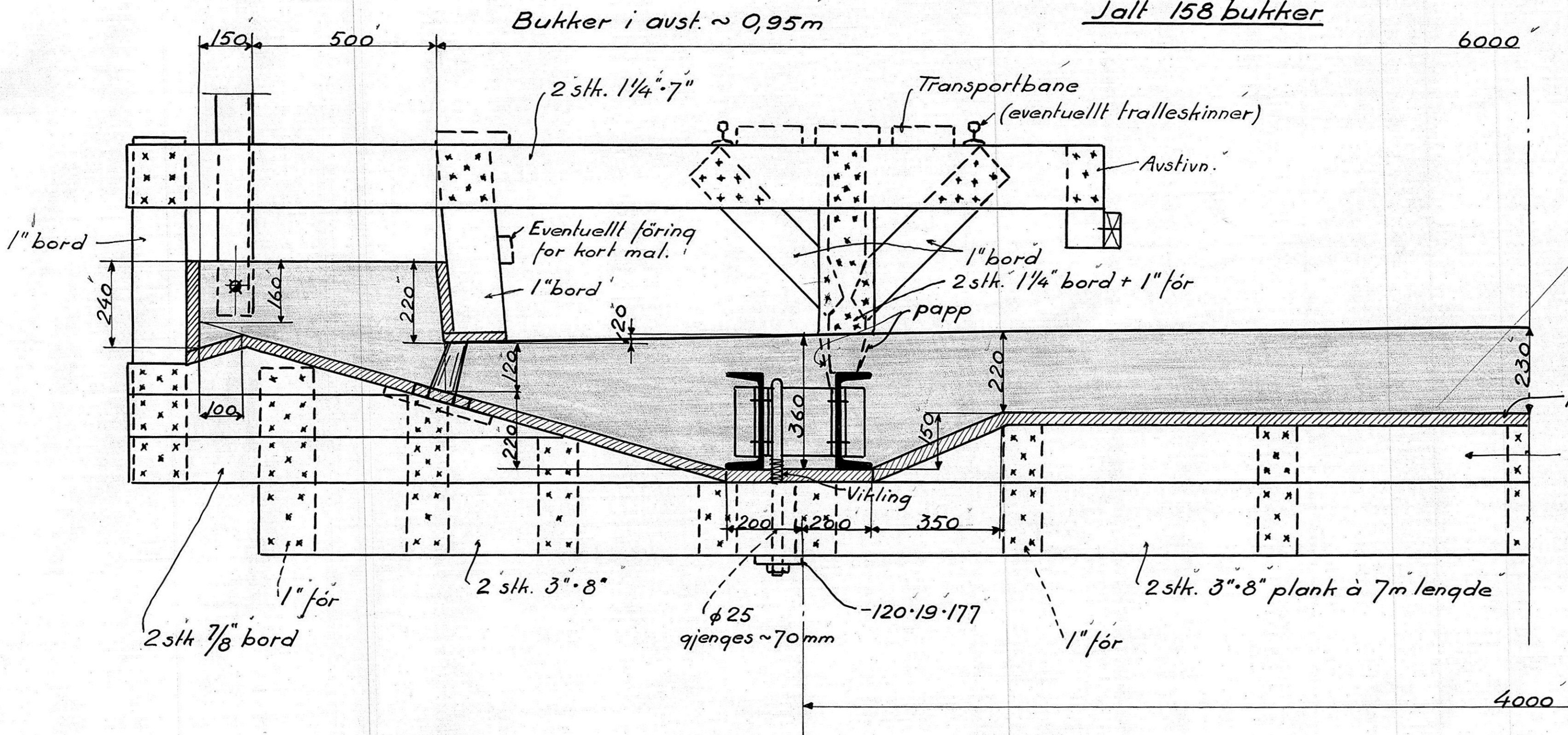
|                       |           |                 |
|-----------------------|-----------|-----------------|
| Forve bru             | M = Tegn. | R. P.           |
| Sør-Trøndelag fylke.  | 1:2       | Trac.           |
| Veidirektorhkontoret. |           | Kfr. 2.18 (and) |
| Oslo den 6. 1. 1938.  |           | Kfr. R. P.      |
|                       |           | Erstatning for: |
|                       |           | 964             |
|                       |           | Erstattet av    |



Forslag til forskaling

Mellem knudepunkter, M=1:10

Jalt 158 bukter

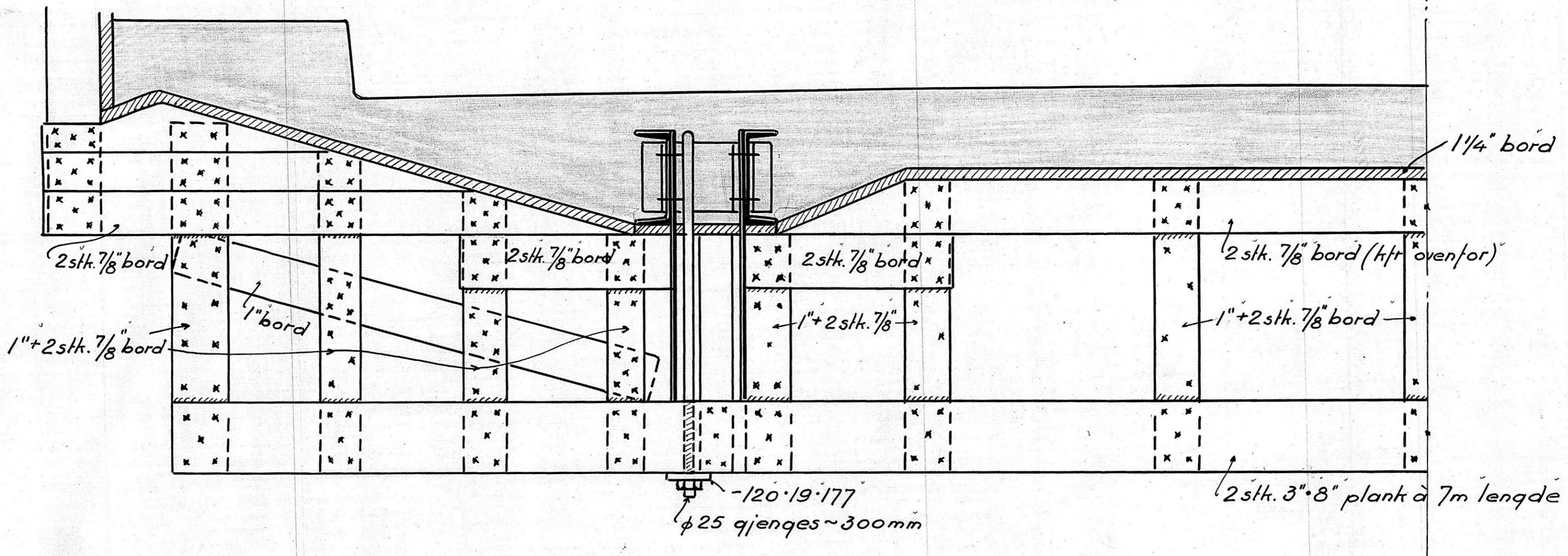


NB. Anvendt brætt med to forskutte 6,5m lange planker.

Ved kn.pkt. M=1:10

Jalt 28 bukter

Overstillas som ovenfor

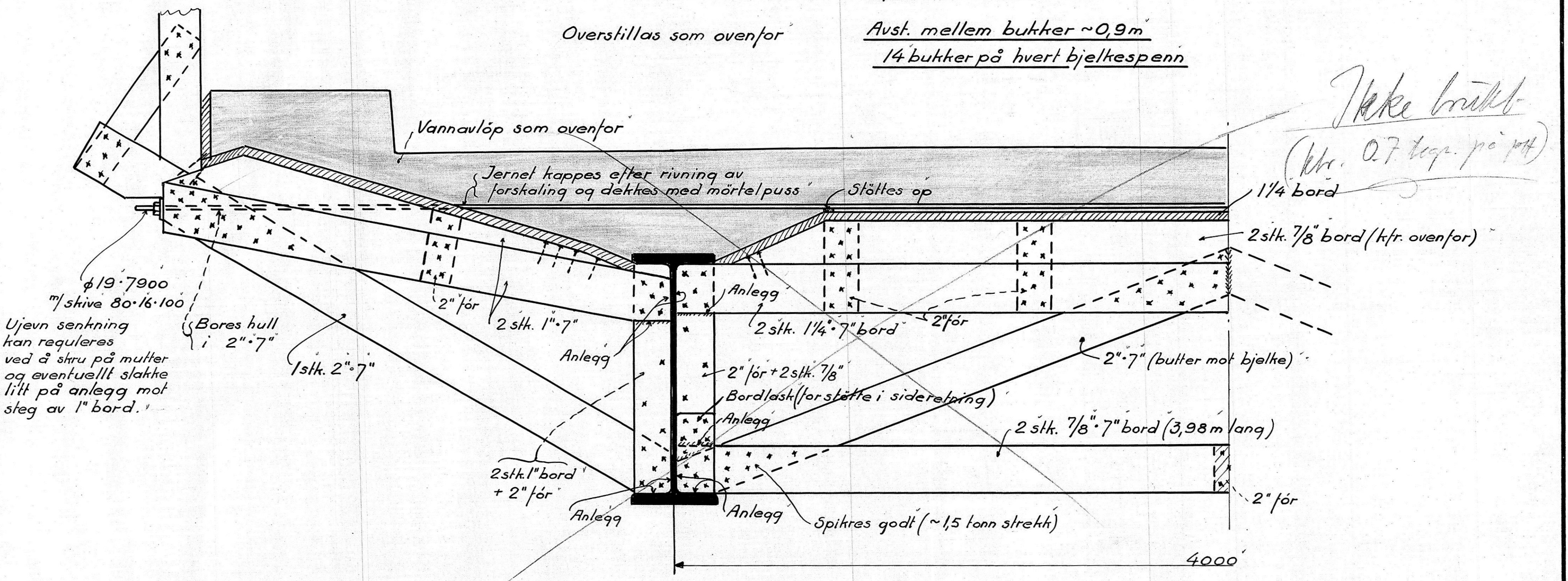


Bjelkebro M=1:10

Avst. mellem bukter ~ 0,9m

14 bukter på hvert bjelkespenn

Overstillas som ovenfor



Ikke brætt (kr. 0,7 teg. p. 14)

Ujevn senkning kan reguleres ved å skru på mutter og eventuelt slakte litt på anlegg mot steg av 1" bord.

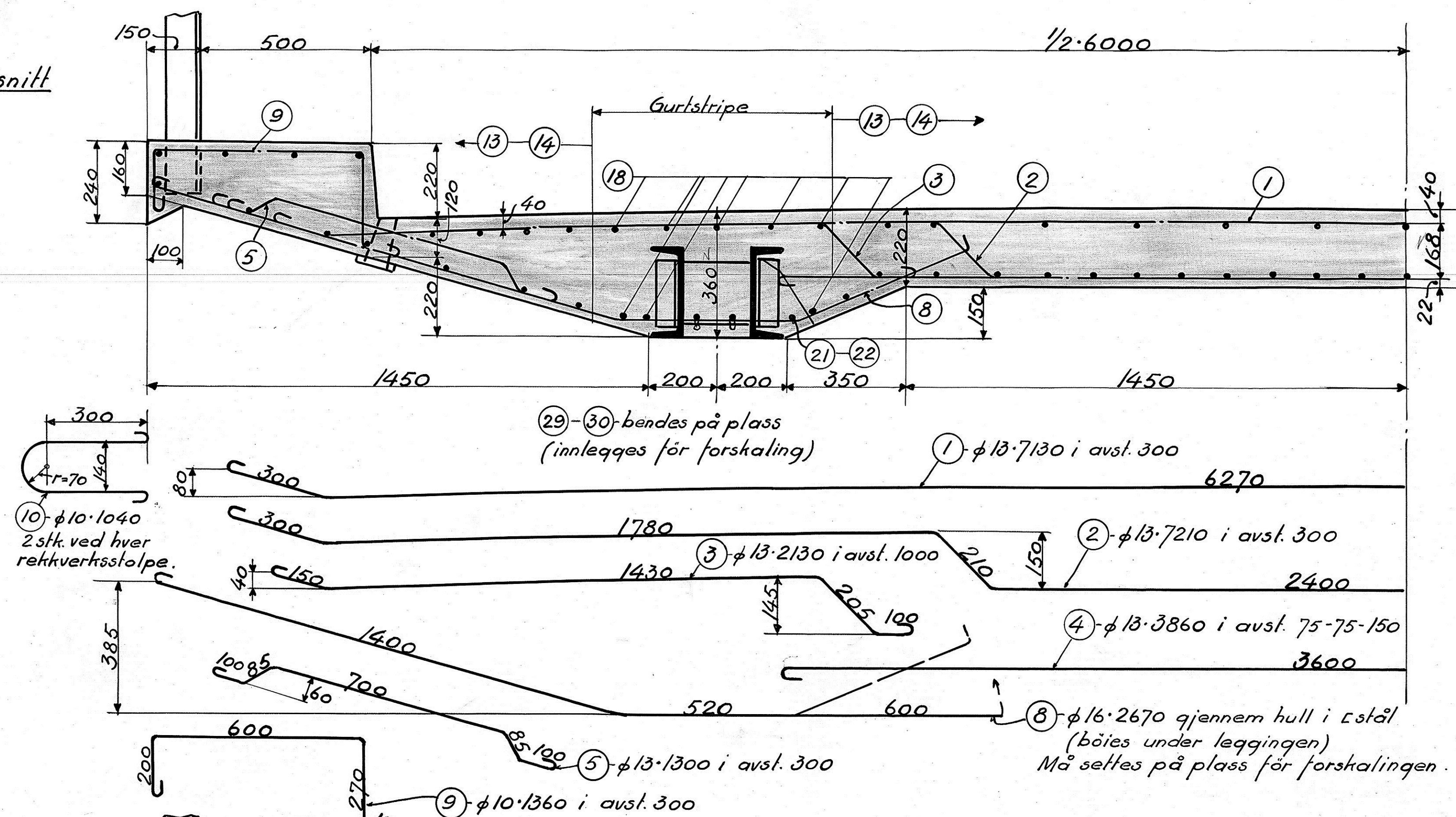
For både faquerksspenn og bjelkespenn må betongen legges ut først på midtpartiet derpå utenfor bæreveggene mest mulig samtidig på begge sider og til slutt omkring qurt og over bjelke. Ved endelverrberere støttes forskalingen op mot faquerkshnudepht.

|                                                               |                 |            |           |
|---------------------------------------------------------------|-----------------|------------|-----------|
| Forve bru.<br>Sør-Trøndelag fylke.                            | M=              | Tegn. R. 3 | sept. 37. |
|                                                               | 1:10            | Trac.      | H. J.     |
| Veidirektørkontoret<br>Oslo den 28. sept. 1937.<br>Olaf Høng. | Erstatning for: |            |           |
|                                                               | 965             |            |           |
| Erstaltet av:                                                 |                 |            |           |

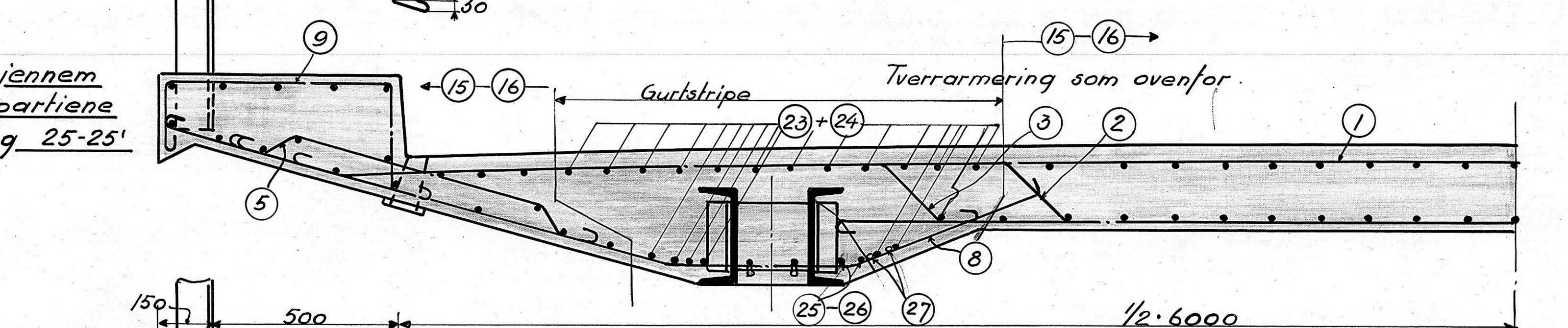


Tverrsnitt M=1:10

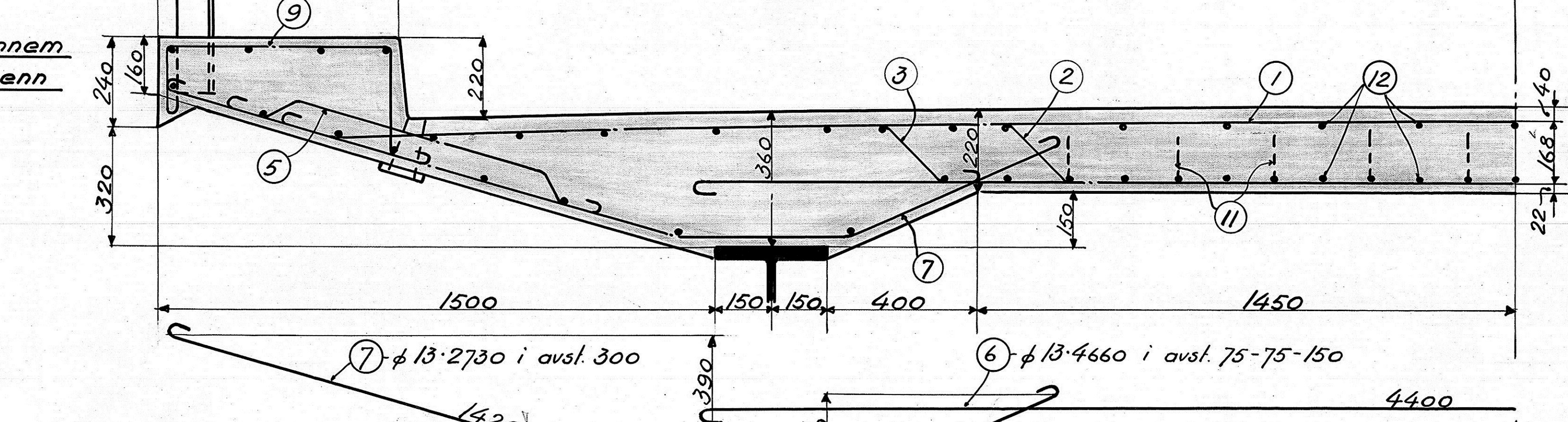
Normalsnitt



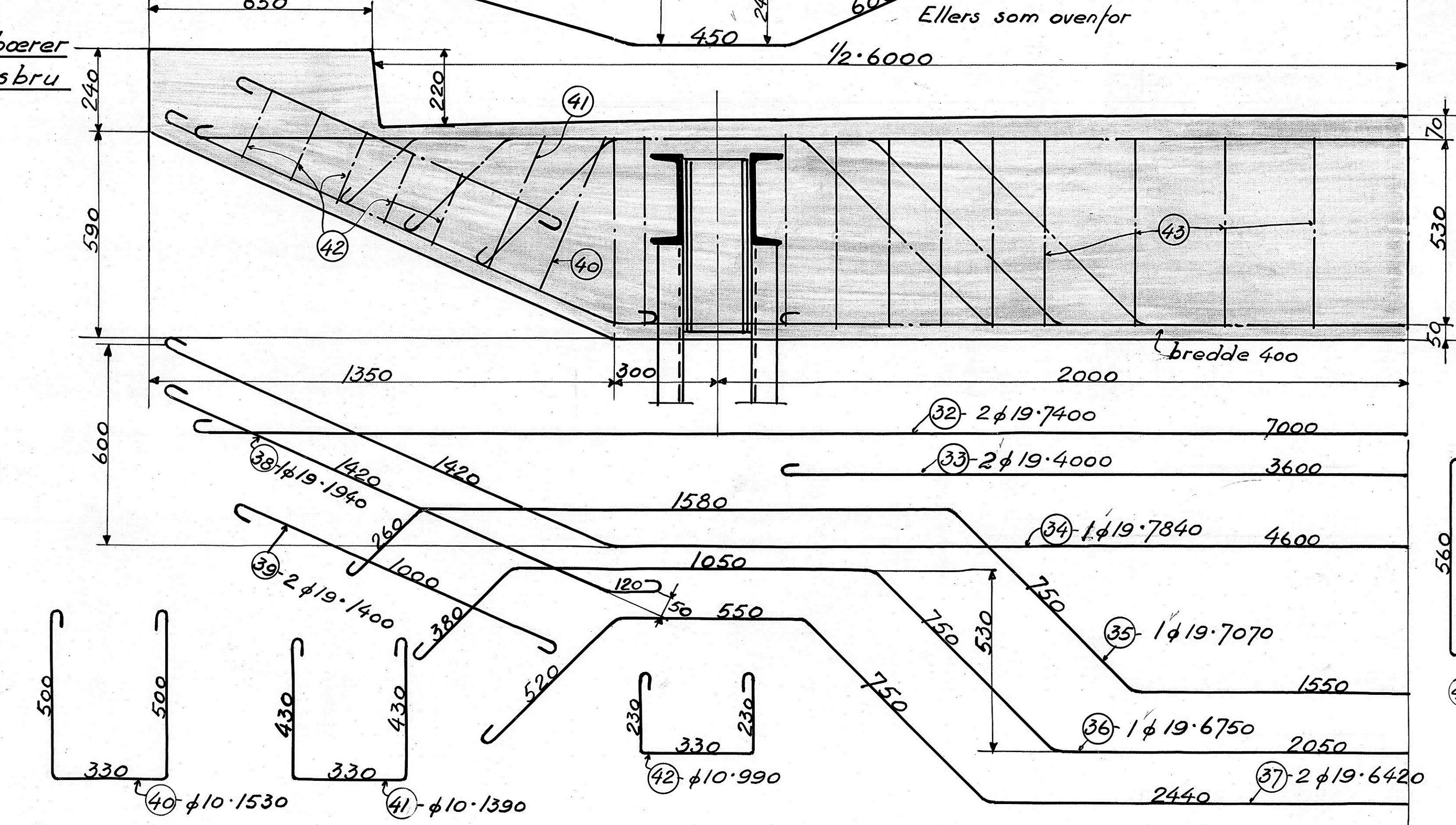
Snitt gjennom strekpartiene 11-13 og 25-25'



Snitt gjennom bjelkespenn

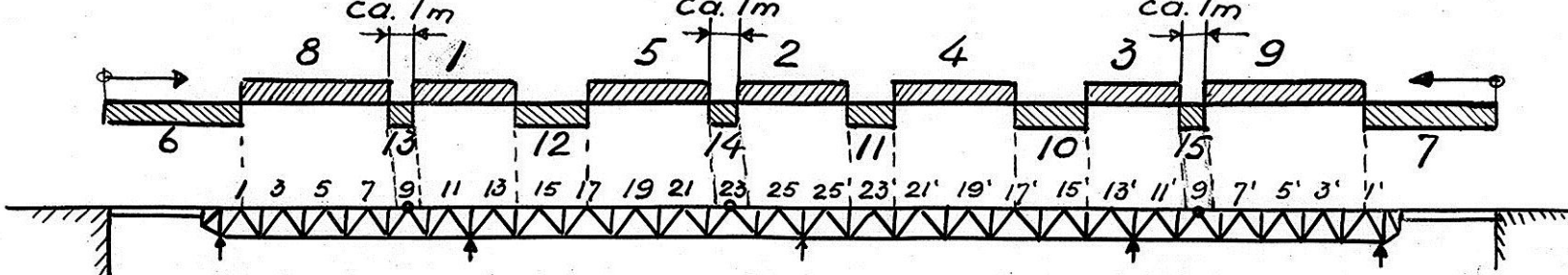


Endelverrbærer i fagverksbru

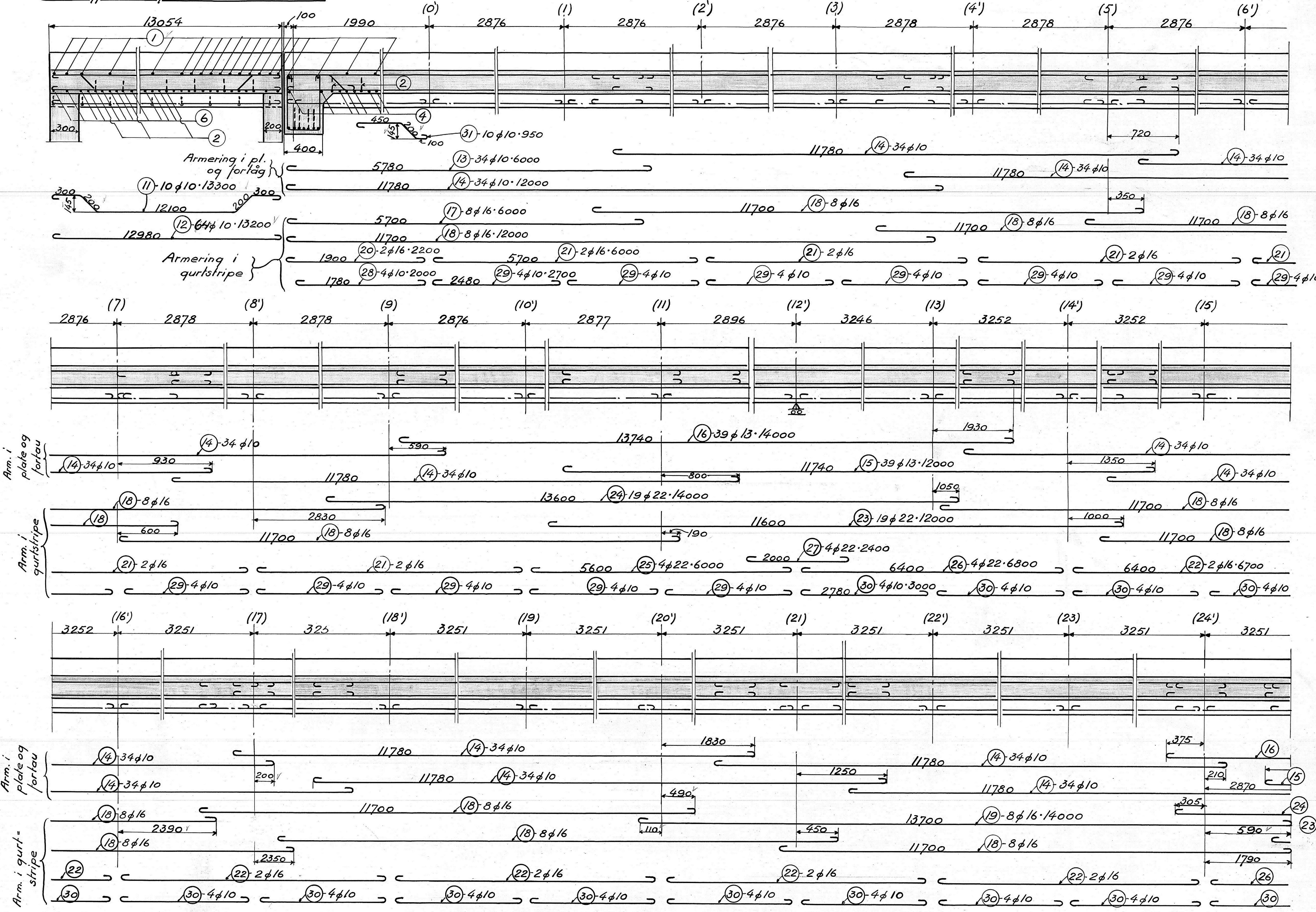


Det støpes i full bredde uten langsgående støpefuge  
Hvor støpingen avbrytes på tverrs av broen, må  
snittflatene være ru (hugges om nødvendig). De luktes  
og stemmes med cementvelling like før støpingen begynner.  
Støpefugene innlegges stråjern (43) ved  
siden av lengdearmning på partier mellom qurlene.

Støpeplan:



Snitt gjennom platemidte M=1:20



| Stk. nr. | Anfall | Benevnelse               | Dim. | Lengde | Sum lengde pr. m | Vækt i kg | Anm.         |
|----------|--------|--------------------------|------|--------|------------------|-----------|--------------|
| 1        | 552    | Tverrarm                 | φ13  | 7130   | 3945660          | 1045548   | 1045548      |
| 2        | 629    | "                        | "    | 7210   | 4536570          | 845545    | 845545       |
| 3        | 380    | "                        | "    | 2130   | 807900           | 525328    | 525328       |
| 4        | 1639   | "                        | "    | 3860   | 6306060          | 1765098   | Fagverkspenn |
| 5        | 1274   | "                        | "    | 1300   | 1656820          | 1765098   | Fagverkspenn |
| 6        | 258    | "                        | "    | 4460   | 1150680          | 6750      | Bjelkespenn  |
| 7        | 176    | "                        | "    | 2730   | 480540           | 6420      | Bjelkespenn  |
| 8        | 1044   | "                        | φ16  | 2670   | 2787240          | 4399      | Fagverkspenn |
| 9        | 1278   | "                        | φ10  | 1360   | 1738080          | 1805098   | Fagverkspenn |
| 10       | 500    | Rakthverksbøiler         | "    | 1040   | 520000           | 725428    | Fagverkspenn |
| 11       | 20     | Lengdearm.               | "    | 13200  | 264000           | 1765098   | Bjelkespenn  |
| 12       | 128    | "                        | "    | 13200  | 1699200          | 0.617     | 8390         |
| 13       | 68     | Lengdearm. i pl. + forf. | "    | 6000   | 408000           | 6000      | Fagverkspenn |
| 14       | 748    | "                        | "    | 12000  | 8976000          | 12000     | Fagverkspenn |
| 15       | 117    | "                        | φ13  | 12000  | 1404000          | 3042      | 1042         |
| 16       | 117    | "                        | "    | 14000  | 1638000          | 3170      | 14000        |
| 17       | 16     | Lengdearm. i qurlstripe  | φ16  | 6000   | 96000            | 6000      | 12000        |
| 18       | 160    | "                        | "    | 12000  | 1920000          | 12000     | 14000        |
| 19       | 16     | "                        | "    | 14000  | 224000           | 14000     | 12000        |
| 20       | 4      | "                        | "    | 4200   | 16800            | 4200      | 2200         |
| 21       | 20     | "                        | "    | 6000   | 120000           | 1578      | 3949         |
| 22       | 20     | "                        | "    | 6700   | 134000           | 6700      | 6700         |
| 23       | 57     | "                        | φ22  | 12000  | 684000           | 1677      | 1677         |
| 24       | 57     | "                        | "    | 14000  | 800400           | 1677      | 1677         |
| 25       | 8      | "                        | "    | 6000   | 48000            | 2984      | 4976         |
| 26       | 16     | "                        | "    | 6800   | 108800           | 6800      | 6800         |
| 27       | 12     | "                        | "    | 2400   | 28800            | 2400      | 2400         |
| 28       | 8      | "                        | φ10  | 2000   | 16000            | 8         | 2000         |
| 29       | 96     | "                        | "    | 2700   | 259200           | 0.617     | 389          |
| 30       | 112    | "                        | "    | 3000   | 336000           | 3000      | 3000         |
| 31       | 20     | Lengdearm. i pl.         | "    | 950    | 19000            | 950       | 950          |
|          |        |                          |      |        | Overføres        | 45757 kg  |              |

| Stk. nr. | Anfall | Benevnelse                    | Dim. | Lengde | Sum lengde pr. m | Vækt i kg | Anm.  |
|----------|--------|-------------------------------|------|--------|------------------|-----------|-------|
| 32       | 4      | Overført                      | "    | "      | "                | 45757     | 45757 |
| 33       | 4      | Arm. i hverbærer              | φ19  | 7400   | 29600            | 18        | 7400  |
| 34       | 2      | "                             | "    | 4000   | 8000             | 18        | 4000  |
| 35       | 2      | "                             | "    | 7840   | 15680            | 2226      | 297   |
| 36       | 2      | "                             | "    | 7070   | 14140            | 2226      | 297   |
| 37       | 4      | "                             | "    | 6750   | 27000            | 1835      | 6750  |
| 38       | 4      | "                             | "    | 6420   | 25680            | 1940      | 6420  |
| 39       | 8      | "                             | "    | 1940   | 15520            | 1400      | 1940  |
| 40       | 4      | Bøile i hverbærer             | φ10  | 1530   | 6120             | 0.617     | 325   |
| 41       | 4      | "                             | "    | 1390   | 5560             | 0.617     | 325   |
| 42       | 20     | "                             | "    | 990    | 19800            | 990       | 990   |
| 43       | 46     | "                             | "    | 1650   | 75900            | 1650      | 1650  |
| 44       | 420    | Bøile i støpefuge Bindebøiler | "    | 1000   | 420000           | 1000      | 1000  |
|          |        |                               |      |        | Sum              | 46600 kg  |       |

Salt 362 m<sup>3</sup> betong av kvalitet B 7:2300 sekter cement.

Først støpes partiene 1, 2 og 3 (gjørne samtidig). Må herdes minst 7 dager.  
Deretter støpes partiene 4 og 5 (.....) i pilens retning  
..... 6-7 (.....)  
..... 8-9 (.....)  
..... 10, 11 og 12 (.....)  
Broen belastes så tilsvarende de gjestående partier, hvorefter leddene løsnes, belastningen fjernes og partiene 13, 14 og 15 støpes.

**Forve bru, Sør-Trøndelag fylke.**  
Veidirektørkontoret, Oslo den 31.12.1938.  
Einar Lønning

M=1:10  
1:20

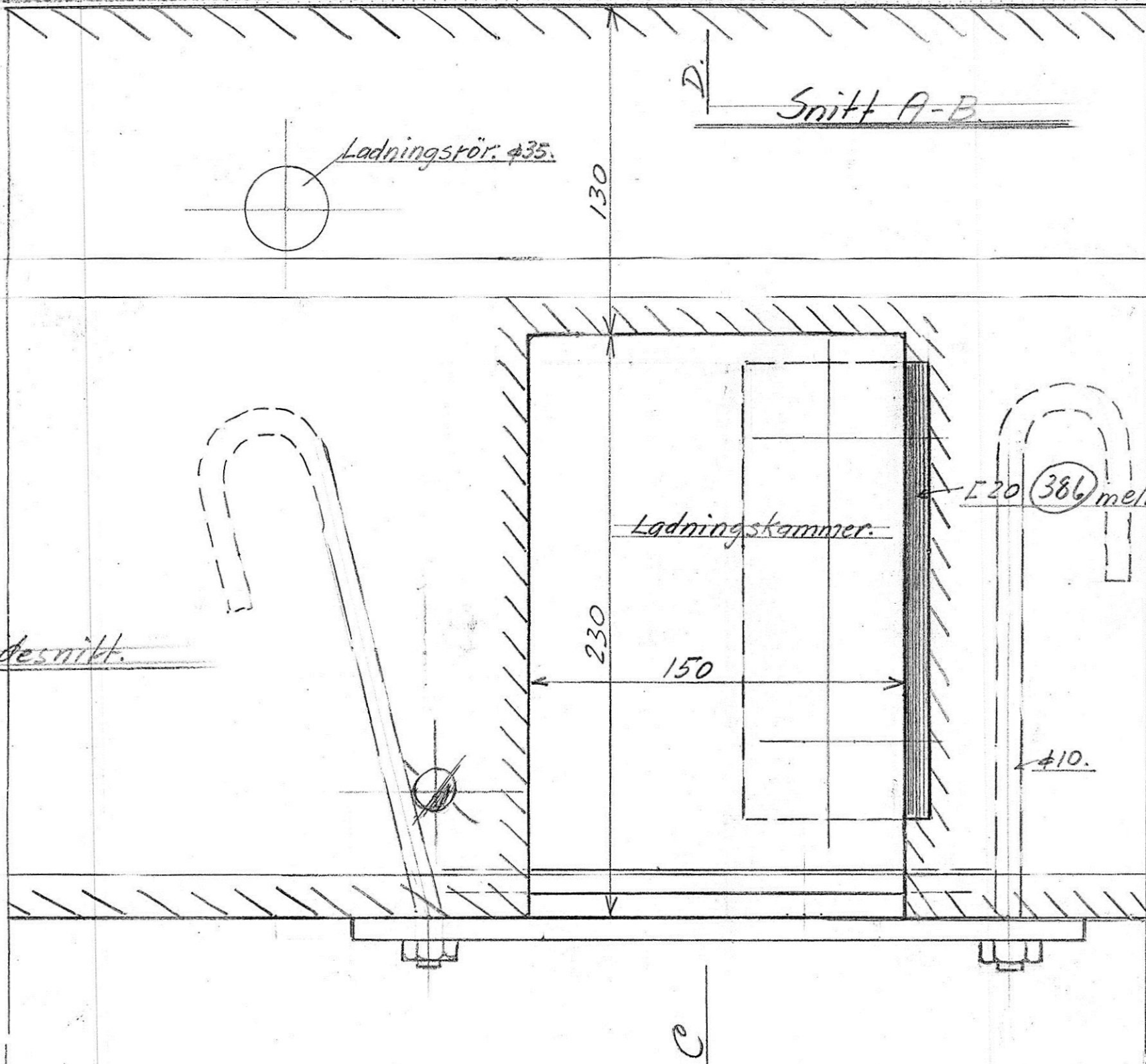
Regn. V.10  
Troc. 277  
Kfr. 7 R.S.  
T. R.S.

Erstatning for: **966**  
Erstallt av:

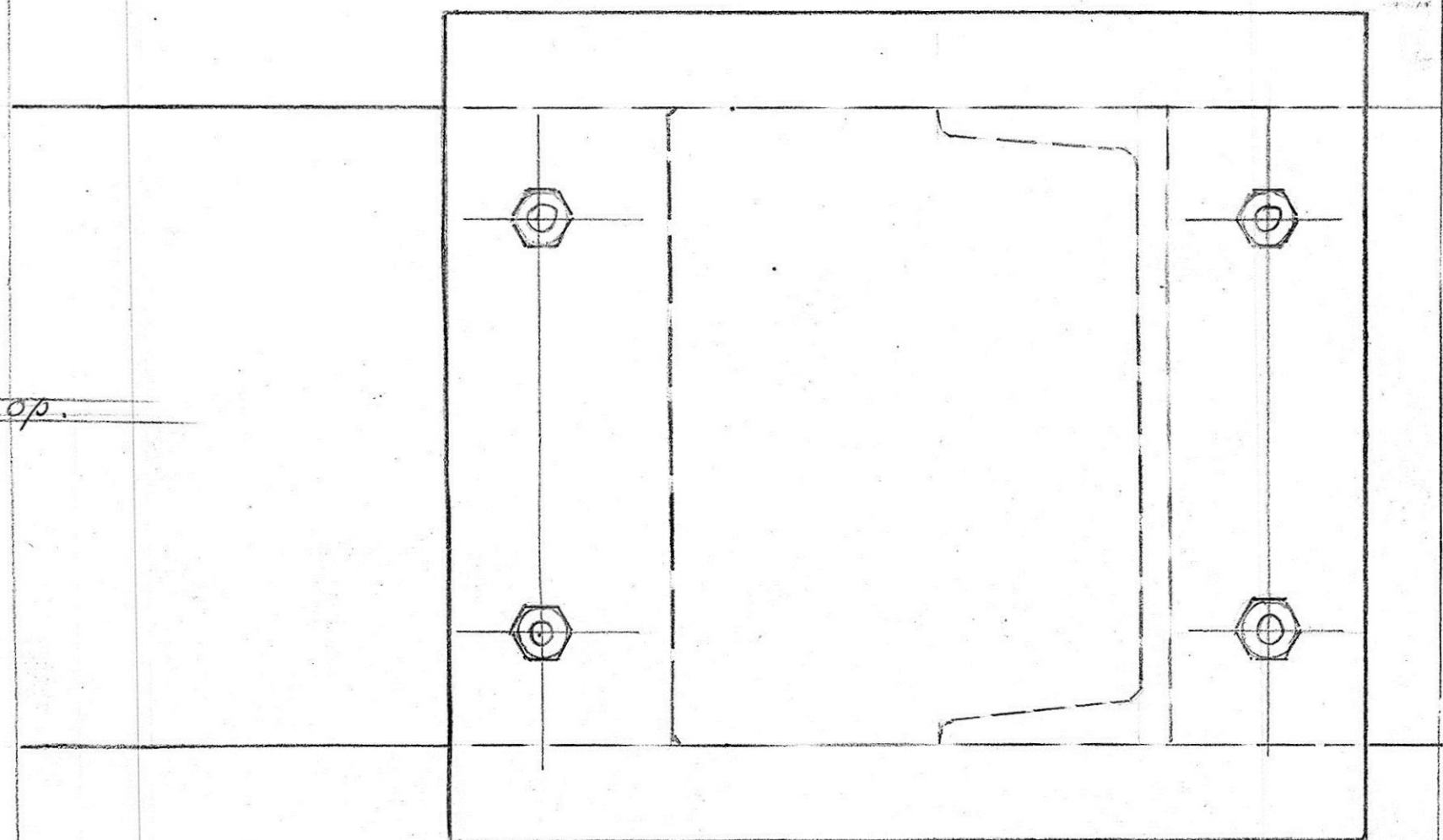


Førve bru.  
Siv Trøndelag fylke.  
ad. sprengning  
M: 420.

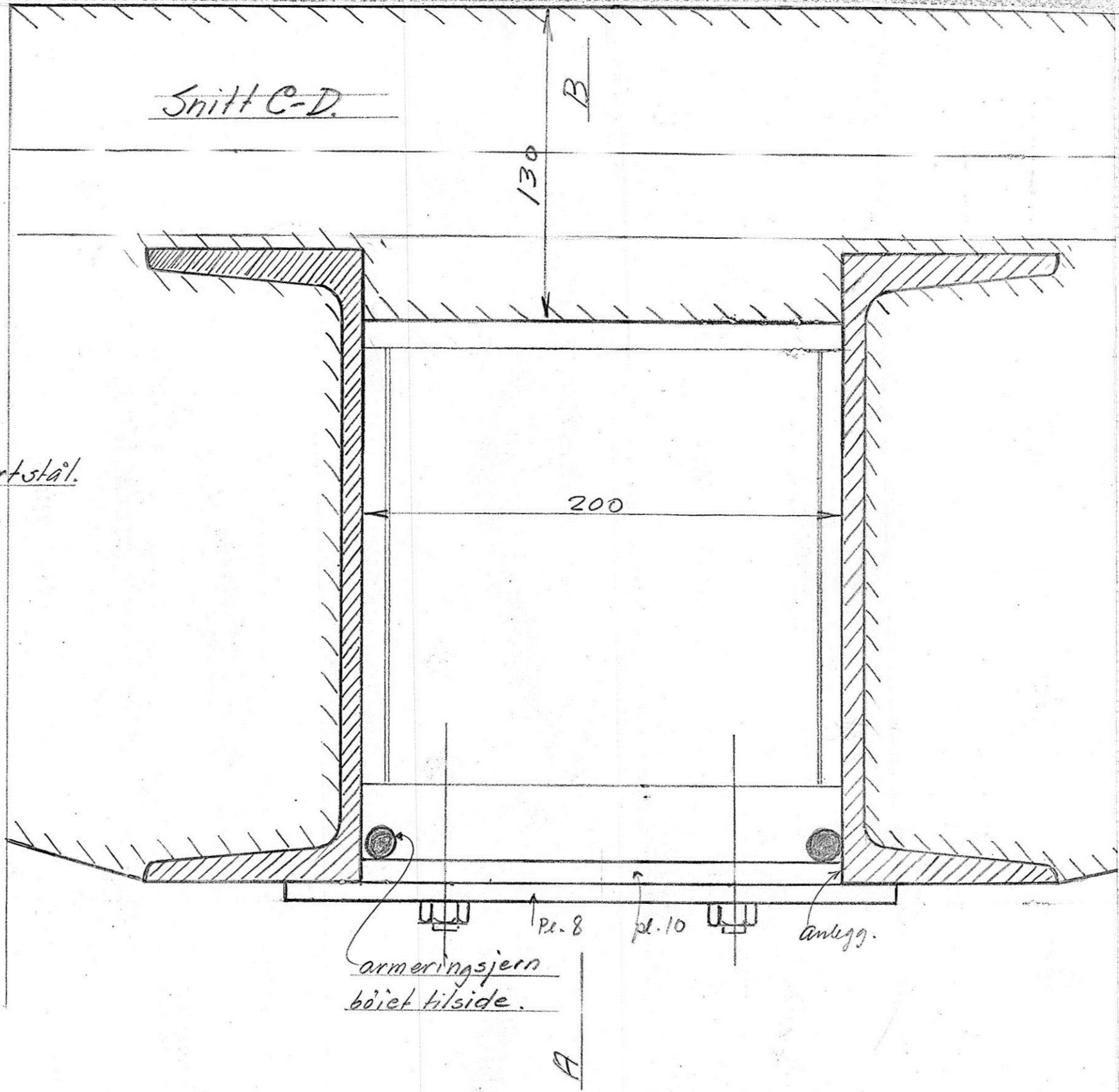
Lengdesnitt.



Sett under op.



Snitt C-D.

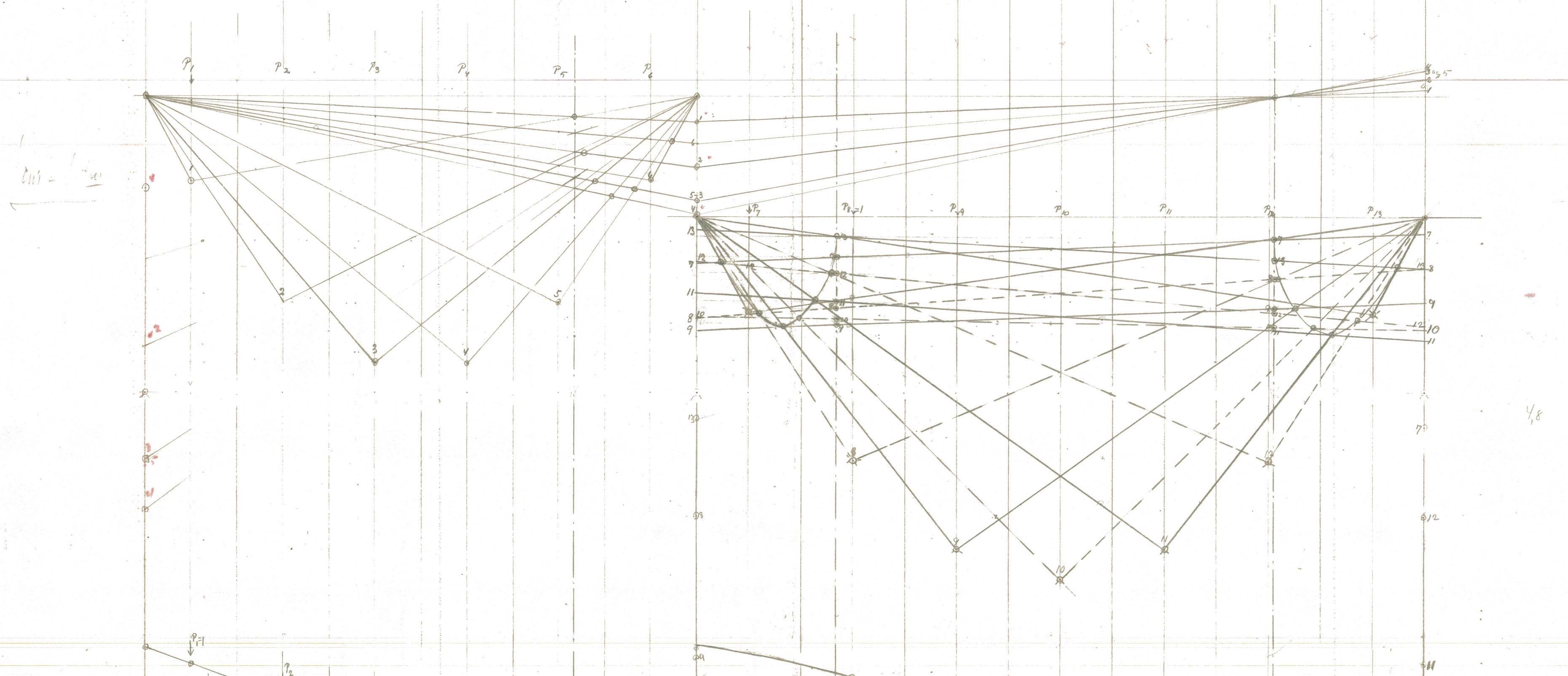
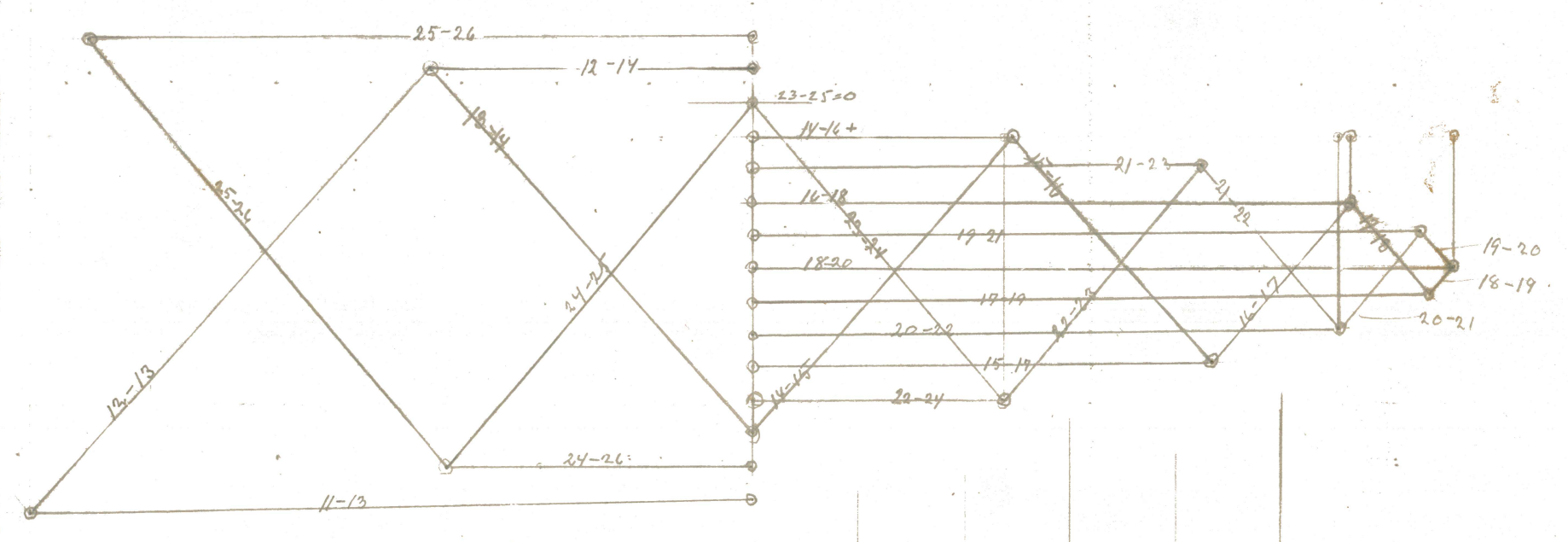
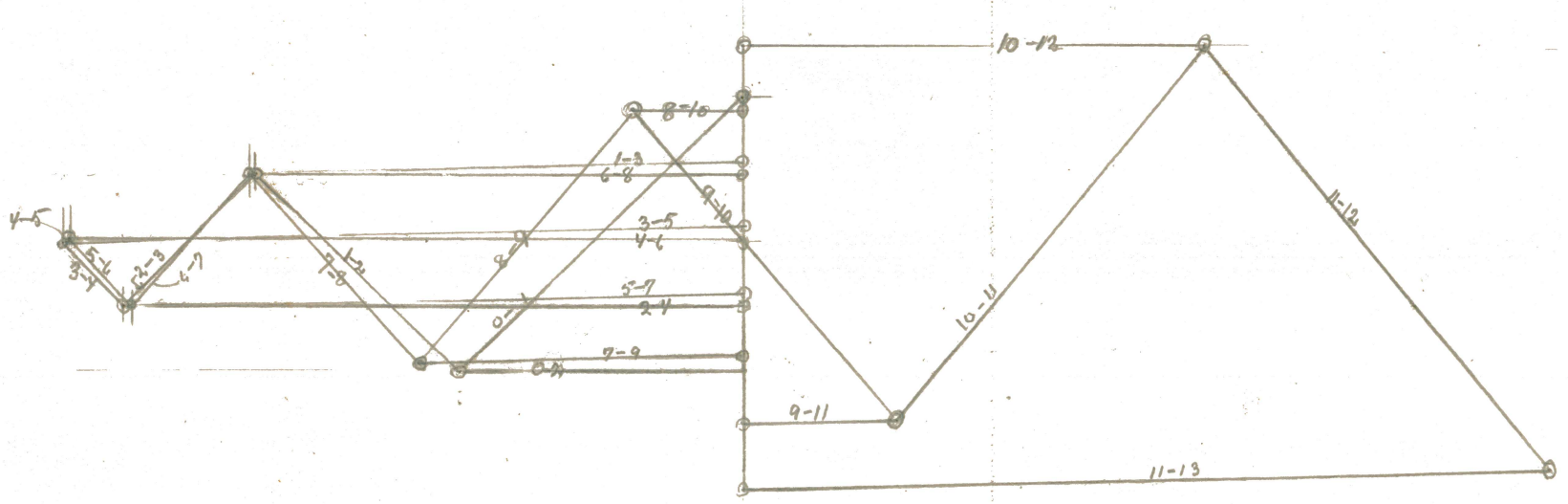
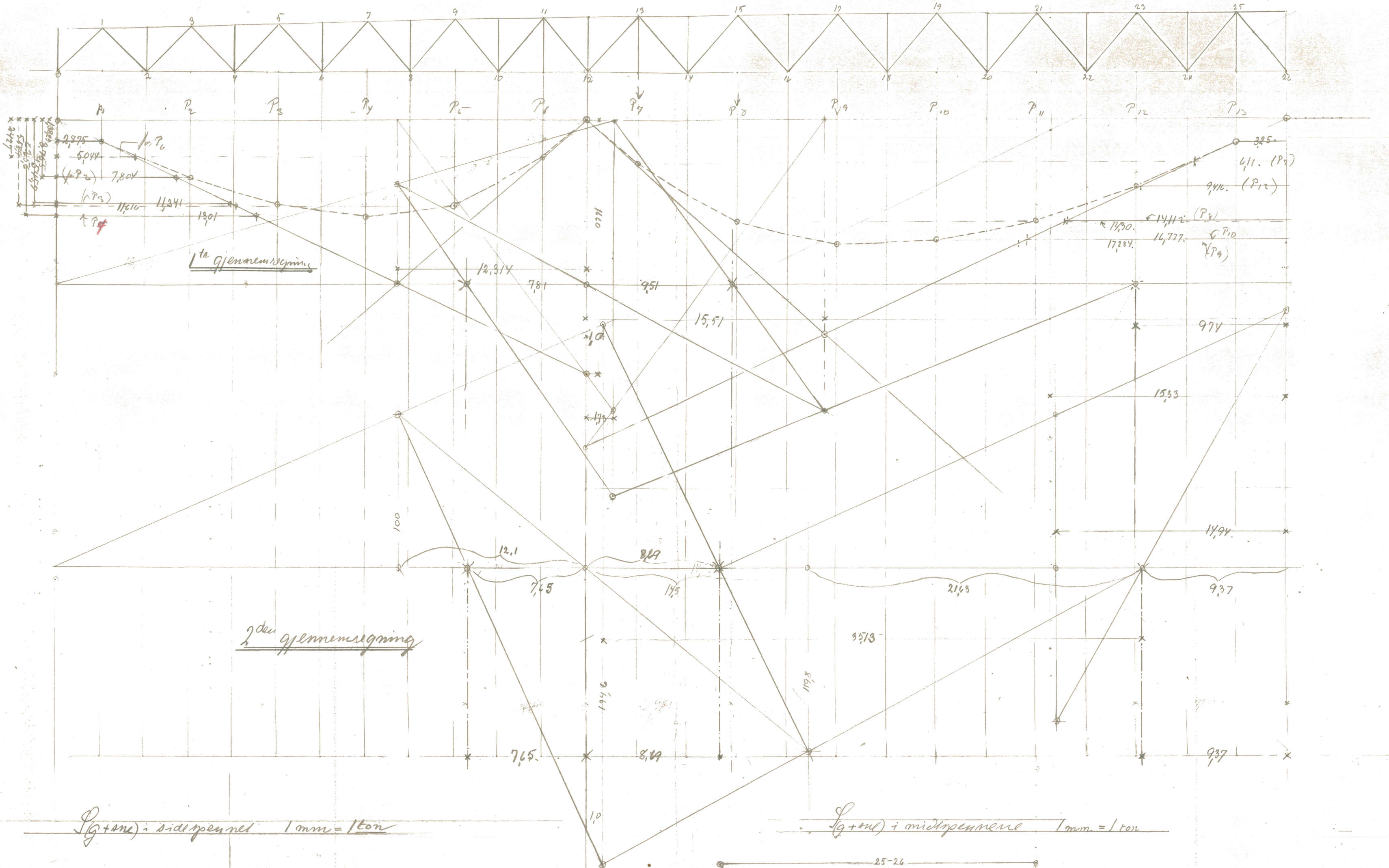


Rommene males omhyggelig  
med 2 lag maling og dekkfarve.

Veidirektørkontoret 28 juni 1938

H. a.





$A \text{ tinn for } P=1 \text{ kN} = 1$

| F                    | 0-1 | 1-2 | 2-3  | 3-4  | 4-5  | 5-6  | 6-7  | 7-8  | 8-9  | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | 24-25 | 25-26 |       |       |       |
|----------------------|-----|-----|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| $\Sigma z$           | 0   | 0.1 | 0.31 | 0.64 | 1.03 | 1.57 | 2.15 | 2.87 | 3.62 | 4.47 | 5.35  | 6.27  | 7.22  | 8.21  | 9.22  | 10.25 | 11.31 | 12.39 | 13.49 | 14.61 | 15.75 | 16.91 | 18.09 | 19.29 | 20.51 | 21.75 | 23.01 | 24.29 | 25.58 |
| $\Sigma z (P \pm A)$ | 0   | 0.1 | 0.31 | 0.64 | 1.03 | 1.57 | 2.15 | 2.87 | 3.62 | 4.47 | 5.35  | 6.27  | 7.22  | 8.21  | 9.22  | 10.25 | 11.31 | 12.39 | 13.49 | 14.61 | 15.75 | 16.91 | 18.09 | 19.29 | 20.51 | 21.75 | 23.01 | 24.29 | 25.58 |



Force km  
5/10-37  
R7

ad Revision

For kl. I b  
d<sub>12</sub> m P=0.87. S=13.2  
P=2.72 S=11.7

For kl. I  
m P=2.72 S=11.7  
22.8  
1.2  
24.0

For kl. I<sub>6</sub>(11-13).M=

For kl. II  
M<sub>12</sub> = 93.0 m - 64.2 V  
u = 10.0 m = 6.9 V  
v = 6.2 m = 4.3 V  
75.1 V

27  
3.2  
3.3  
9.2

42.2 V  
46.1 V  
88.3 for P  
75.4 for P  
M = 163.7 S for P = 49.5 t for kl. II  
M = 199. S for P = 60. t for kl. I b

På den ene side

M = 88.3  
11.2  
69.5 S for P

72.6 m = 68.5 S for P  
10.5 S for P

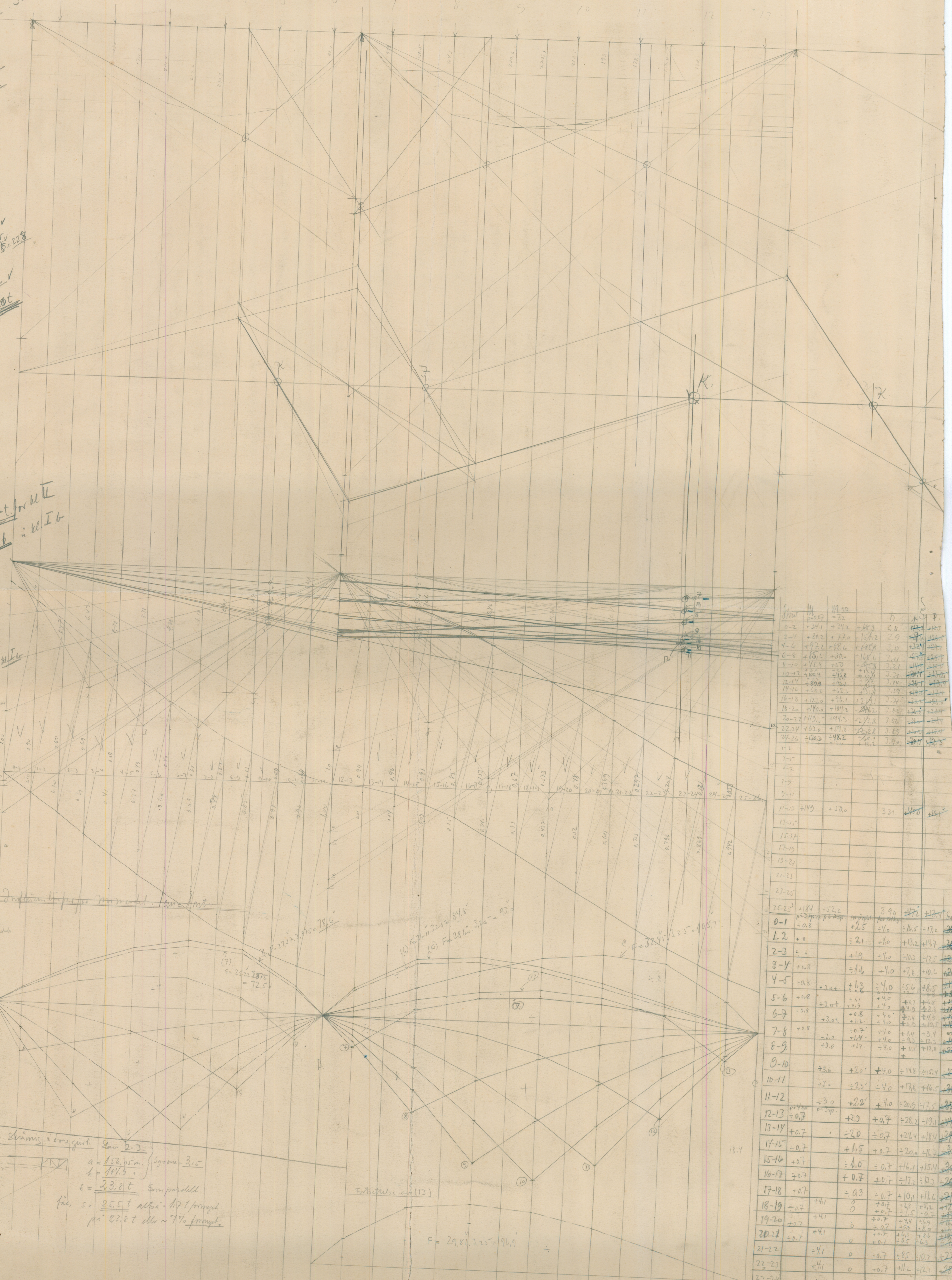
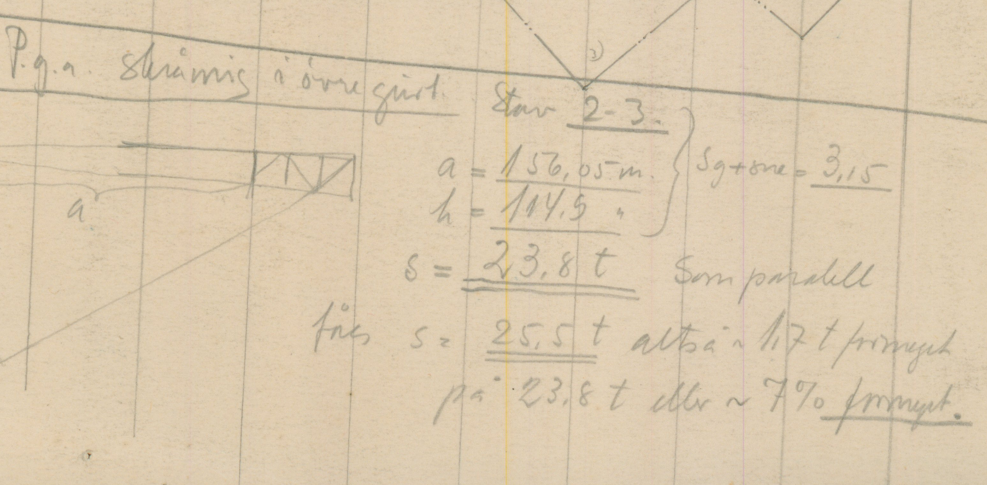
F = 10.5 S for P

2-3 F = 13.62 V = +24.1  
3-4 F = 32.12 V = +80.2  
4-6 F = 28.11 V = +97.2  
6-8 F = 24.22 V = +85.6  
8-10 F = 18.11 V = +45.8  
10-12 F = 16.11 V = +3.9  
= F = 10.12 V = +21.6

12-14 F = 9.84 V = +24.1  
14-16 F = 21.37 V = +68.8  
16-18 F = 43.62 V = +123.0  
18-20 F = 49.32 V = +140.0  
20-22 F = 42.21 V = +119.5  
22-24 F = 22.29 V = +63.0  
= F = 12.76 V = +36.0  
24-26 F = 8.00 V = +5.6

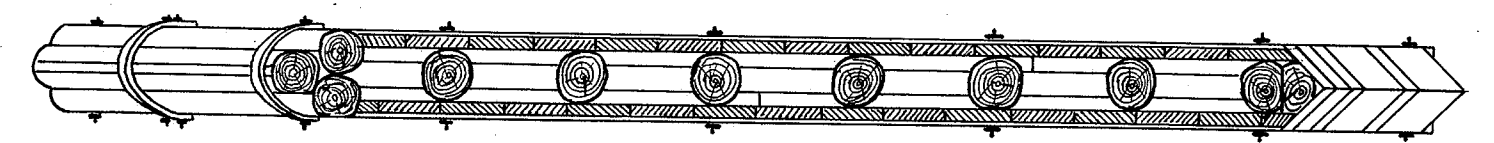
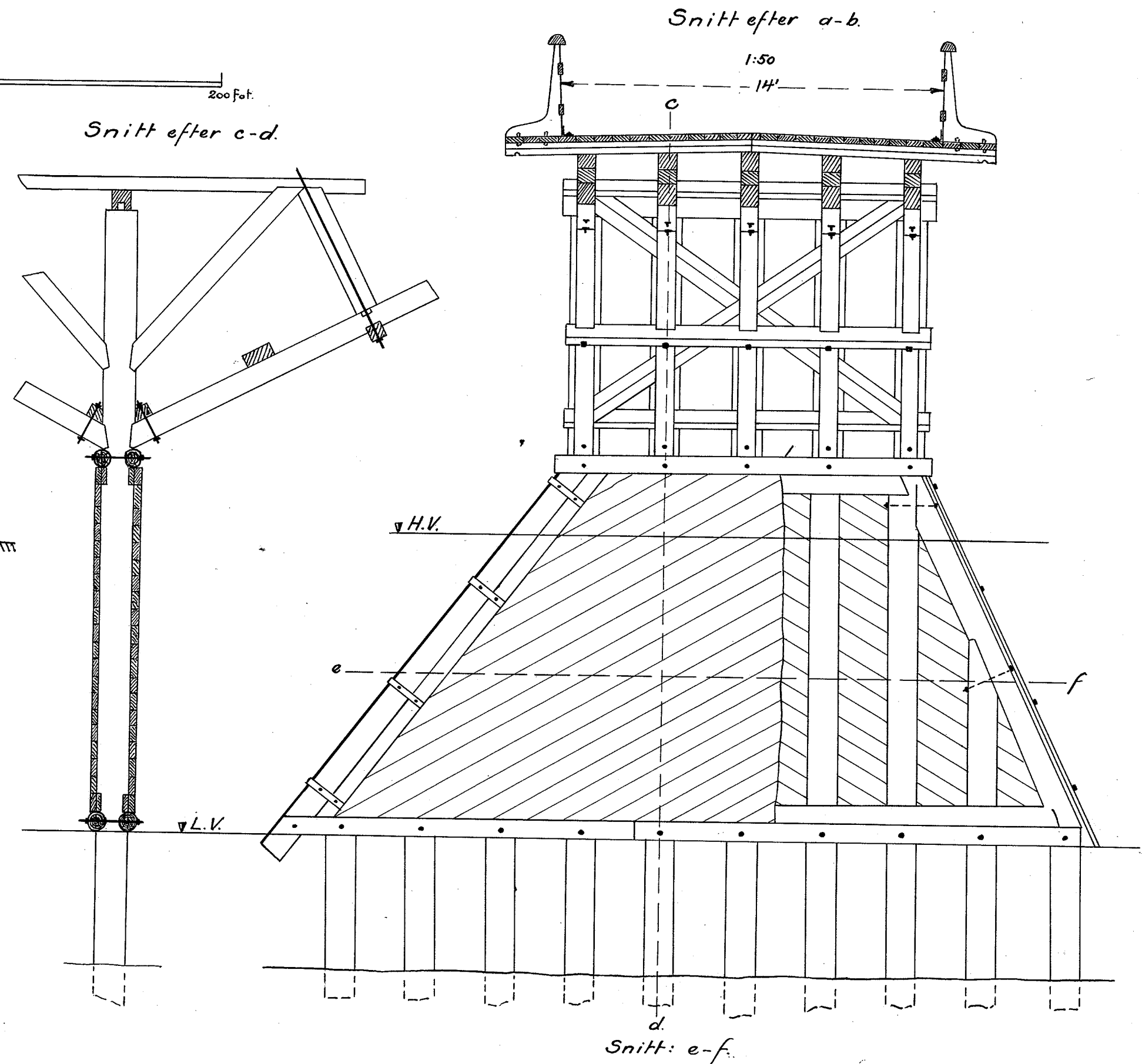
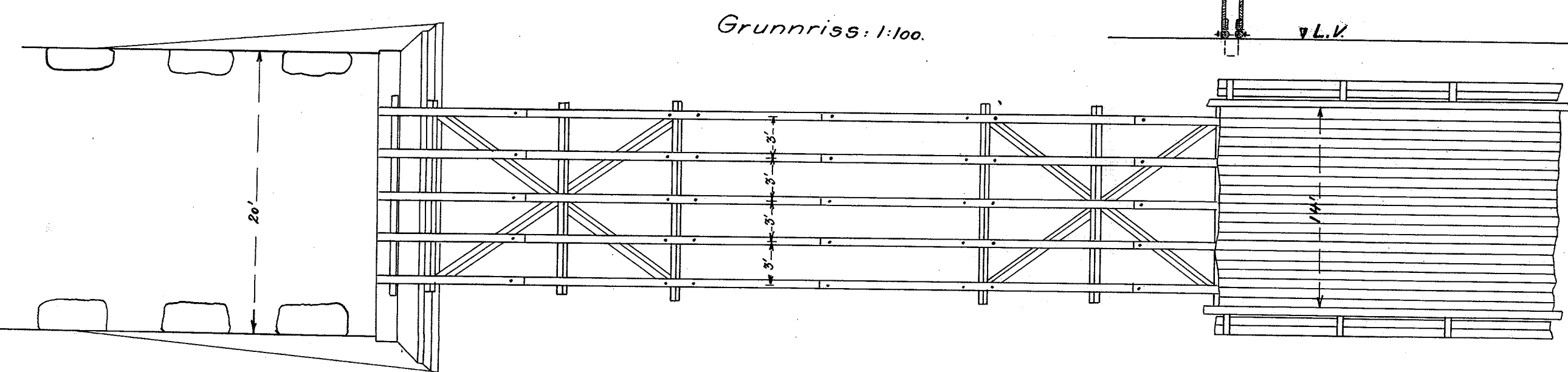
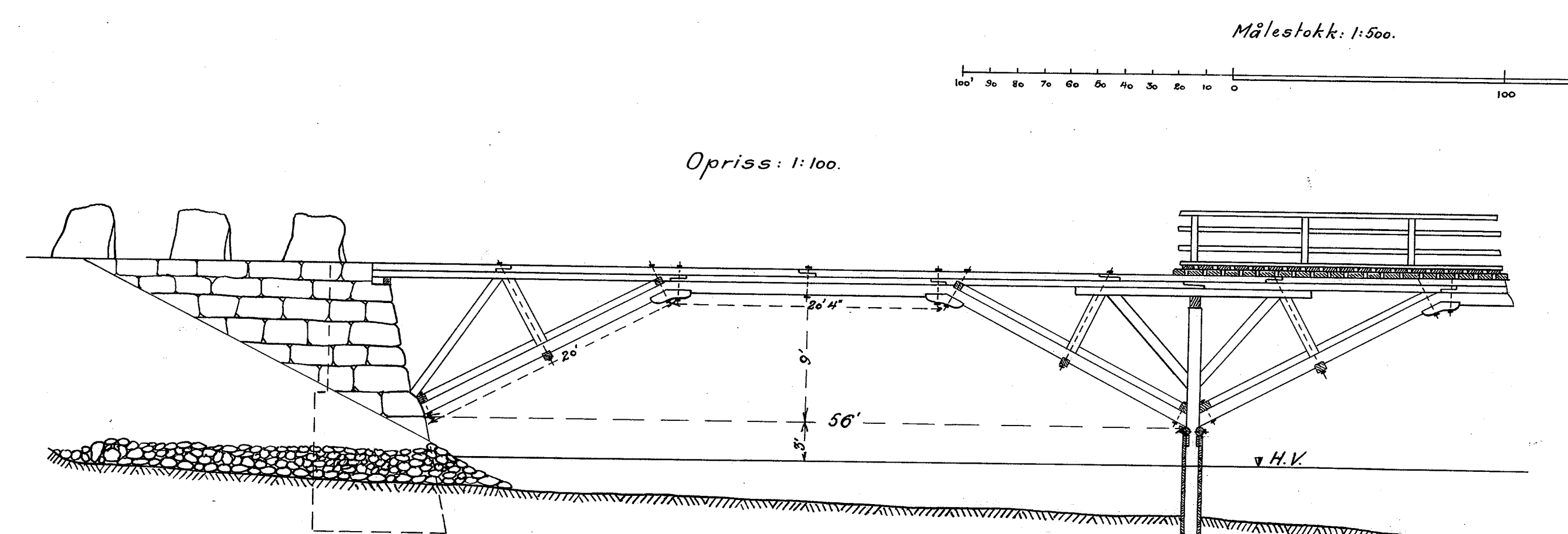
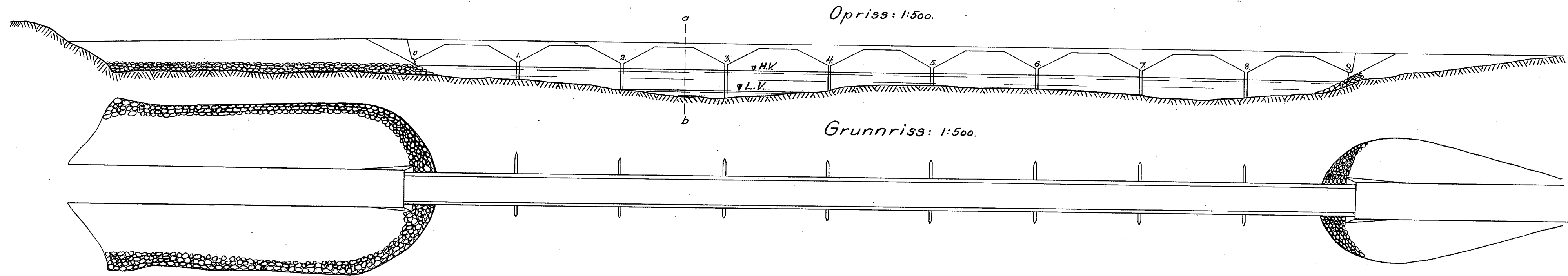
10-12 F = 26.6  
12-14 F = 72.8  
14-16 F = 100.8  
16-18 F = 26.9  
18-20 F = 62.0  
20-22 F = 89.7

24-26 F = 26.1  
26-28 F = 120.3  
11-13 F = 78.6  
13-15 F = 77.6  
15-17 F = 105.7  
17-19 F = 111.4

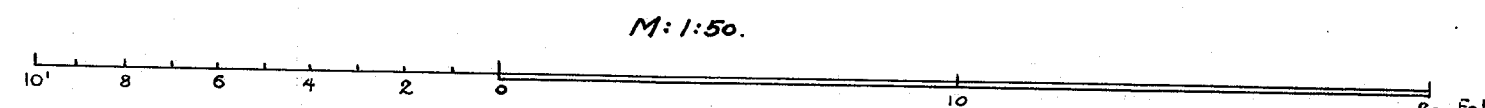
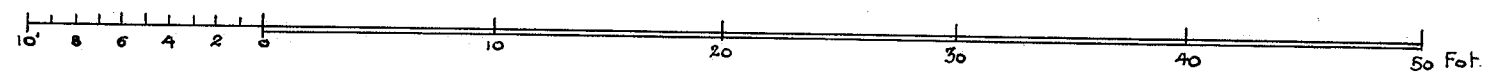


| kl.     | M      | M-D    | P     | S    |
|---------|--------|--------|-------|------|
| 0-2     | +34.1  | +31.2  | +5.3  | 2.8  |
| 2-4     | +81.2  | +77.0  | +4.2  | 2.9  |
| 4-6     | +97.2  | +86.6  | +10.6 | 3.0  |
| 6-8     | +85.6  | +80.0  | +5.6  | 3.1  |
| 8-10    | +45.8  | +5.0   | +4.0  | 3.2  |
| 10-12   | +3.9   | +1.8   | +2.1  | 3.3  |
| 12-14   | +21.6  | +16.1  | +5.5  | 3.4  |
| 14-16   | +68.5  | +62.0  | +6.5  | 3.5  |
| 16-18   | +123.0 | +104.2 | +18.8 | 3.6  |
| 18-20   | +140.0 | +119.5 | +20.5 | 3.7  |
| 20-22   | +119.5 | +97.2  | +22.3 | 3.8  |
| 22-24   | +63.0  | +49.5  | +13.5 | 3.9  |
| 24-26   | +21.6  | +16.1  | +5.5  | 4.0  |
| 26-28   | +5.6   | +1.8   | +1.8  | 4.1  |
| 28-30   | +2.8   | +1.2   | +1.6  | 4.2  |
| 30-32   | +1.2   | +0.6   | +0.6  | 4.3  |
| 32-34   | +0.6   | +0.3   | +0.3  | 4.4  |
| 34-36   | +0.3   | +0.1   | +0.1  | 4.5  |
| 36-38   | +0.1   | +0.0   | +0.0  | 4.6  |
| 38-40   | +0.0   | +0.0   | +0.0  | 4.7  |
| 40-42   | +0.0   | +0.0   | +0.0  | 4.8  |
| 42-44   | +0.0   | +0.0   | +0.0  | 4.9  |
| 44-46   | +0.0   | +0.0   | +0.0  | 5.0  |
| 46-48   | +0.0   | +0.0   | +0.0  | 5.1  |
| 48-50   | +0.0   | +0.0   | +0.0  | 5.2  |
| 50-52   | +0.0   | +0.0   | +0.0  | 5.3  |
| 52-54   | +0.0   | +0.0   | +0.0  | 5.4  |
| 54-56   | +0.0   | +0.0   | +0.0  | 5.5  |
| 56-58   | +0.0   | +0.0   | +0.0  | 5.6  |
| 58-60   | +0.0   | +0.0   | +0.0  | 5.7  |
| 60-62   | +0.0   | +0.0   | +0.0  | 5.8  |
| 62-64   | +0.0   | +0.0   | +0.0  | 5.9  |
| 64-66   | +0.0   | +0.0   | +0.0  | 6.0  |
| 66-68   | +0.0   | +0.0   | +0.0  | 6.1  |
| 68-70   | +0.0   | +0.0   | +0.0  | 6.2  |
| 70-72   | +0.0   | +0.0   | +0.0  | 6.3  |
| 72-74   | +0.0   | +0.0   | +0.0  | 6.4  |
| 74-76   | +0.0   | +0.0   | +0.0  | 6.5  |
| 76-78   | +0.0   | +0.0   | +0.0  | 6.6  |
| 78-80   | +0.0   | +0.0   | +0.0  | 6.7  |
| 80-82   | +0.0   | +0.0   | +0.0  | 6.8  |
| 82-84   | +0.0   | +0.0   | +0.0  | 6.9  |
| 84-86   | +0.0   | +0.0   | +0.0  | 7.0  |
| 86-88   | +0.0   | +0.0   | +0.0  | 7.1  |
| 88-90   | +0.0   | +0.0   | +0.0  | 7.2  |
| 90-92   | +0.0   | +0.0   | +0.0  | 7.3  |
| 92-94   | +0.0   | +0.0   | +0.0  | 7.4  |
| 94-96   | +0.0   | +0.0   | +0.0  | 7.5  |
| 96-98   | +0.0   | +0.0   | +0.0  | 7.6  |
| 98-100  | +0.0   | +0.0   | +0.0  | 7.7  |
| 100-102 | +0.0   | +0.0   | +0.0  | 7.8  |
| 102-104 | +0.0   | +0.0   | +0.0  | 7.9  |
| 104-106 | +0.0   | +0.0   | +0.0  | 8.0  |
| 106-108 | +0.0   | +0.0   | +0.0  | 8.1  |
| 108-110 | +0.0   | +0.0   | +0.0  | 8.2  |
| 110-112 | +0.0   | +0.0   | +0.0  | 8.3  |
| 112-114 | +0.0   | +0.0   | +0.0  | 8.4  |
| 114-116 | +0.0   | +0.0   | +0.0  | 8.5  |
| 116-118 | +0.0   | +0.0   | +0.0  | 8.6  |
| 118-120 | +0.0   | +0.0   | +0.0  | 8.7  |
| 120-122 | +0.0   | +0.0   | +0.0  | 8.8  |
| 122-124 | +0.0   | +0.0   | +0.0  | 8.9  |
| 124-126 | +0.0   | +0.0   | +0.0  | 9.0  |
| 126-128 | +0.0   | +0.0   | +0.0  | 9.1  |
| 128-130 | +0.0   | +0.0   | +0.0  | 9.2  |
| 130-132 | +0.0   | +0.0   | +0.0  | 9.3  |
| 132-134 | +0.0   | +0.0   | +0.0  | 9.4  |
| 134-136 | +0.0   | +0.0   | +0.0  | 9.5  |
| 136-138 | +0.0   | +0.0   | +0.0  | 9.6  |
| 138-140 | +0.0   | +0.0   | +0.0  | 9.7  |
| 140-142 | +0.0   | +0.0   | +0.0  | 9.8  |
| 142-144 | +0.0   | +0.0   | +0.0  | 9.9  |
| 144-146 | +0.0   | +0.0   | +0.0  | 10.0 |
| 146-148 | +0.0   | +0.0   | +0.0  | 10.1 |
| 148-150 | +0.0   | +0.0   | +0.0  | 10.2 |
| 150-152 | +0.0   | +0.0   | +0.0  | 10.3 |
| 152-154 | +0.0   | +0.0   | +0.0  | 10.4 |
| 154-156 | +0.0   | +0.0   | +0.0  | 10.5 |
| 156-158 | +0.0   | +0.0   | +0.0  | 10.6 |
| 158-160 | +0.0   | +0.0   | +0.0  | 10.7 |
| 160-162 | +0.0   | +0.0   | +0.0  | 10.8 |
| 162-164 | +0.0   | +0.0   | +0.0  | 10.9 |
| 164-166 | +0.0   | +0.0   | +0.0  | 11.0 |
| 166-168 | +0.0   | +0.0   | +0.0  | 11.1 |
| 168-170 | +0.0   | +0.0   | +0.0  | 11.2 |
| 170-172 | +0.0   | +0.0   | +0.0  | 11.3 |
| 172-174 | +0.0   | +0.0   | +0.0  | 11.4 |
| 174-176 | +0.0   | +0.0   | +0.0  | 11.5 |
| 176-178 | +0.0   | +0.0   | +0.0  | 11.6 |
| 178-180 | +0.0   | +0.0   | +0.0  | 11.7 |
| 180-182 | +0.0   | +0.0   | +0.0  | 11.8 |
| 182-184 | +0.0   | +0.0   | +0.0  | 11.9 |
| 184-186 | +0.0   | +0.0   | +0.0  | 12.0 |
| 186-188 | +0.0   | +0.0   | +0.0  | 12.1 |
| 188-190 | +0.0   | +0.0   | +0.0  | 12.2 |
| 190-192 | +0.0   | +0.0   | +0.0  | 12.3 |
| 192-194 | +0.0   | +0.0   | +0.0  | 12.4 |
| 194-196 | +0.0   | +0.0   | +0.0  | 12.5 |
| 196-198 | +0.0   | +0.0   | +0.0  | 12.6 |
| 198-200 | +0.0   | +0.0   | +0.0  | 12.7 |
| 200-202 | +0.0   | +0.0   | +0.0  | 12.8 |
| 202-204 | +0.0   | +0.0   | +0.0  | 12.9 |
| 204-206 | +0.0   | +0.0   | +0.0  | 13.0 |
| 206-208 | +0.0   | +0.0   | +0.0  | 13.1 |
| 208-210 | +0.0   | +0.0   | +0.0  | 13.2 |
| 210-212 | +0.0   | +0.0   | +0.0  | 13.3 |
| 212-214 | +0.0   | +0.0   | +0.0  | 13.4 |
| 214-216 | +0.0   | +0.0   | +0.0  | 13.5 |
| 216-218 | +0.0   | +0.0   | +0.0  | 13.6 |
| 218-220 | +0.0   | +0.0   | +0.0  | 13.7 |
| 220-222 | +0.0   | +0.0   | +0.0  | 13.8 |
| 222-224 | +0.0   | +0.0   | +0.0  | 13.9 |
| 224-226 | +0.0   | +0.0   | +0.0  | 14.0 |
| 226-228 | +0.0   | +0.0   | +0.0  | 14.1 |
| 228-230 | +0.0   | +0.0   | +0.0  | 14.2 |
| 230-232 | +0.0   | +0.0   | +0.0  | 14.3 |
| 232-234 | +0.0   | +0.0   | +0.0  | 14.4 |
| 234-236 | +0.0   | +0.0   | +0.0  | 14.5 |
| 236-238 | +0.0   | +0.0   | +0.0  | 14.6 |
| 238-240 | +0.0   | +0.0   | +0.0  | 14.7 |
| 240-242 | +0.0   | +0.0   | +0.0  | 14.8 |
| 242-244 | +0.0   | +0.0   | +0.0  | 14.9 |
| 244-246 | +0.0   | +0.0   | +0.0  | 15.0 |
| 246-248 | +0.0   | +0.0   | +0.0  | 15.1 |
| 248-250 | +0.0   | +0.0   | +0.0  | 15.2 |
| 250-252 | +0.0   | +0.0   | +0.0  | 15.3 |
| 252-254 | +0.0   | +0.0   | +0.0  | 15.4 |
| 254-256 | +0.0   | +0.0   | +0.0  | 15.5 |
| 256-258 | +0.0   | +0.0   | +0.0  | 15.6 |
| 258-260 | +0.0   | +0.0   | +0.0  | 15.7 |
| 260-262 | +0.0   | +0.0   | +0.0  | 15.8 |
| 262-264 | +0.0   | +0.0   | +0.0  | 15.9 |
| 264-266 | +0.0   | +0.0   | +0.0  | 16.0 |
| 266-268 | +0.0   | +0.0   | +0.0  | 16.1 |
| 268-270 | +0.0   | +0.0   | +0.0  | 16.2 |
| 270-272 | +0.0   | +0.0   | +0.0  | 16.3 |
| 272-274 | +0.0   | +0.0   | +0.0  | 16.4 |
| 274-276 | +0.0   | +0.0   | +0.0  | 16.5 |
| 276-278 | +0.0   | +0.0   | +0.0  | 16.6 |
| 278-280 | +0.0   | +0.0   | +0.0  | 16.7 |
| 280-282 | +0.0   | +0.0   | +0.0  | 16.8 |
| 282-284 | +0.0   | +0.0   | +0.0  | 16.9 |
| 284-286 | +0.0   | +0.0   | +0.0  | 17.0 |
| 286-288 | +0.0   | +0.0   | +0.0  | 17.1 |
| 288-290 | +0.0   | +0.0   | +0.0  | 17.2 |
| 290-292 | +0.0   | +0.0   | +0.0  | 17.3 |
| 292-294 | +0.0   | +0.0   | +0.0  | 17.4 |
| 294-296 | +0.0   | +0.0   | +0.0  | 17.5 |
| 296-298 | +0.0   | +0.0   | +0.0  | 17.6 |
| 298-300 | +0.0   | +0.0   | +0.0  | 17.7 |
| 300-302 | +0.0   | +0.0   | +0.0  | 17.8 |
| 302-304 | +0.0   | +0.0   | +0.0  | 17.9 |
| 304-306 | +0.0   | +0.0   | +0.0  | 18.0 |
| 306-308 | +0.0   | +0.0   | +0.0  | 18.1 |
| 308-310 | +0.0   | +0.0   | +0.0  | 18.2 |
| 310-312 | +0.0   | +0.0   | +0.0  | 18.3 |
| 312-314 | +0.0   | +0.0   | +0.0  | 18.4 |
| 314-316 | +0.0   | +0.0   | +0.0  | 18.5 |
| 316-318 | +0.0   | +0.0   | +0.0  | 18.6 |
| 318-320 | +0.0   | +0.0   | +0.0  | 18.7 |
| 320-322 | +0.0   | +0.0   | +0.0  | 18.8 |
| 322-324 | +0.0   | +0.0   | +0.0  | 18.9 |
| 324-326 | +0.0   | +0.0   | +0.0  | 19.0 |
| 326-328 | +0.0   | +0.0   | +0.0  | 19.1 |
| 328-330 | +0.0   | +0.0   | +0.0  | 19.2 |
| 330-332 | +0.0   | +0.0   | +0.0  | 19.3 |
| 332-334 | +0.0   | +0.0   | +0.0  | 19.4 |
| 334-336 | +0.0   | +0.0   | +0.0  | 19.5 |
| 336-338 | +0.0   | +0.0   | +0.0  | 19.6 |
| 338-340 | +0.0   | +0.0   | +0.0  | 19.7 |
| 340-342 | +0.0   | +0.0   | +0.0  | 19.8 |
| 342-344 | +0.0   | +0.0   | +0.0  | 19.9 |
| 344-346 | +0.0   | +0.0   | +0.0  | 20.0 |
| 346-348 | +0.0   | +0.0   | +0.0  | 20.1 |
| 348-350 | +0.0   | +0.0   | +0.0  | 20.2 |
| 350-352 | +0.0   | +0.0   | +0.0  | 20.3 |
| 352-354 | +0.0   | +0.0   | +0.0  | 20.4 |
| 354-356 | +0.0   | +0.0   | +0.0  | 20.5 |
| 356-358 | +0.0   | +0.0   | +0.0  | 20.6 |
| 358-360 | +0.0   | +0.0   | +0.0  | 20.7 |
| 360-362 | +0.0   | +0.0   | +0.0  | 20.8 |
| 362-364 | +0.0   | +0.0   | +0.0  | 20.9 |
| 364-366 | +0.0   | +0.0   | +0.0  | 21.0 |
| 366-368 | +0.0   | +0.0   | +0.0  | 21.1 |
| 368-370 | +0.0   | +0.0   | +0.0  | 21.2 |
| 370-372 | +0.0   | +0.0   | +0.0  | 21.3 |
| 372-374 | +0.0   | +0.0   | +0.0  | 21.4 |
| 374-376 | +0.0   | +0.0   | +0.0  | 21.5 |
| 376-378 | +0.0   | +0.0   | +0.0  | 21.6 |
| 378-380 | +0.0   | +0.0   | +0.0  | 21.7 |
| 380-382 | +0.0   | +0.0   | +0.0  | 21.8 |
| 382-384 | +0.0   | +0.0   | +0.0  | 21.9 |
| 384-386 | +0.0   | +0.0   | +0.0  | 22.0 |
| 386-388 | +0.0   | +0.0   | +0.0  | 22.1 |
| 388-390 | +0.0   | +0.0   | +0.0  | 22.2 |
| 390-392 | +0.0   | +0.0   | +0.0  | 22.3 |
| 392-394 | +0.0   | +0.0   | +0.0  | 22.4 |
| 394-396 | +0.0   | +0.0   | +0.0  | 22.5 |
| 396-398 | +0.0   | +0.0   | +0.0  | 22.6 |
| 398-400 | +0.0   | +0.0   | +0.0  | 22.7 |
| 400-402 | +0.0   | +0.0   | +0.0  | 22.8 |
| 402-404 | +0.0   | +0.0   | +0.0  | 22.9 |
| 404-406 | +0.0   | +0.0   | +0.0  | 23.0 |
| 406-408 | +0.0   | +0.0   | +0.0  | 23.1 |
| 408-410 | +0.0   | +0.0   | +0.0  | 23.2 |
| 410-412 | +0.0   | +0.0   | +0.0  | 23.3 |
| 412-414 | +0.0   | +0.0   | +0.0  | 23.4 |
| 414-416 | +0.0   | +0.0   | +0.0  | 23.5 |
| 416-418 | +0.0   | +0.0   | +0.0  | 23.6 |
| 418-420 | +0.0   | +0.0   | +0.0  | 23.7 |
| 420-422 | +0.0   | +0.0   | +0.0  | 23.8 |
| 422-424 | +0.0   | +0.0   | +0.0  | 23.9 |
| 424-426 | +0.0   | +0.0   | +0.0  | 24.0 |
| 426-428 | +0.0   | +0.0   | +0.0  | 24.1 |
| 428-430 | +0.0   | +0.0   | +0.0  | 24.2 |
| 430-432 | +0.0   | +0.0   | +0.0  | 24.3 |
|         |        |        |       |      |





Sprengverksbro  
 over  
 Orklaeluen ved Skoggaberget.  
 „Forve Bro.“

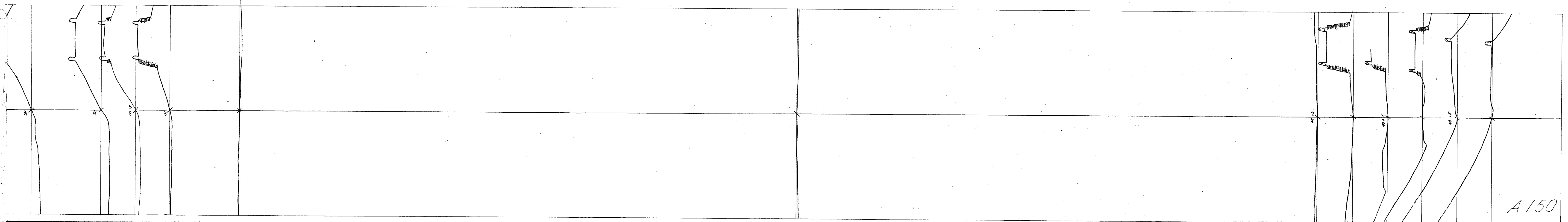
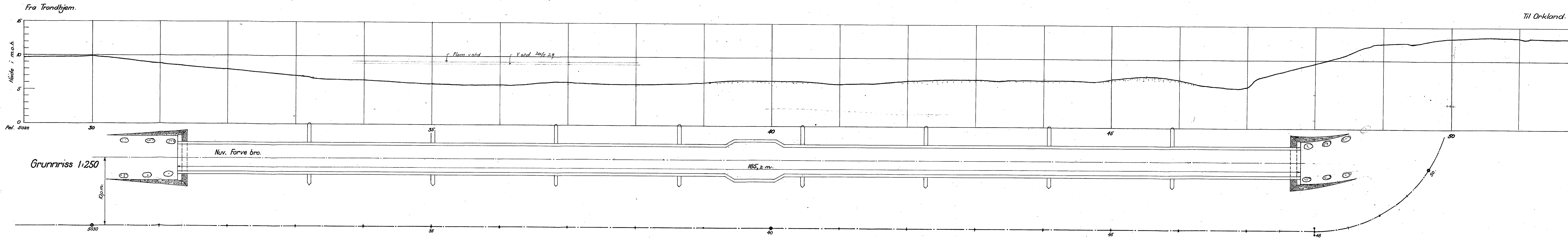
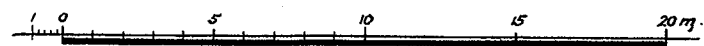


Forve bro, Orkdal herred.

Opriss 1:250

Lengdeprofil for proj. ny bro 10 m nedenfor (nord) nuv. bro.

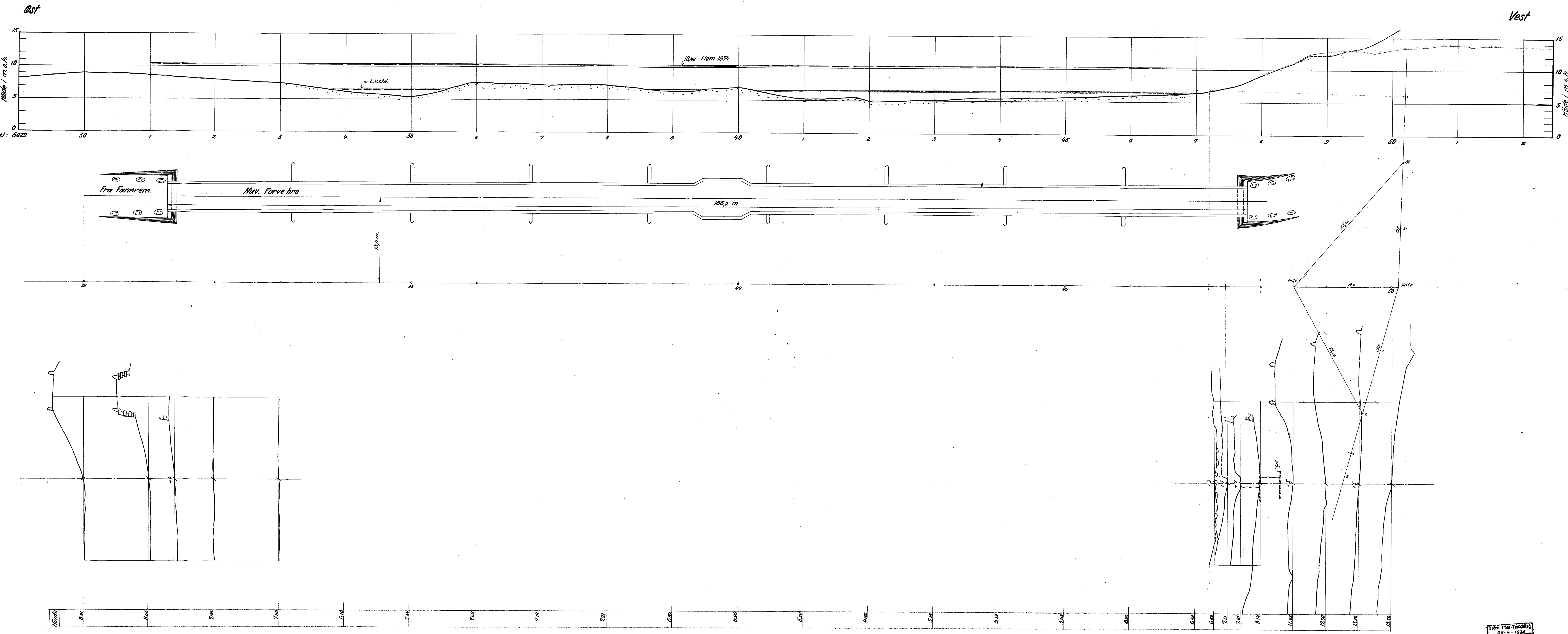
Profilen udtatt av kart optatt mai 1929.



forve bro, Riksvei 670, Orkdal herred

M. 1:250

Profil 13m nedenfor gml. bro, optatt 27.3.1936.



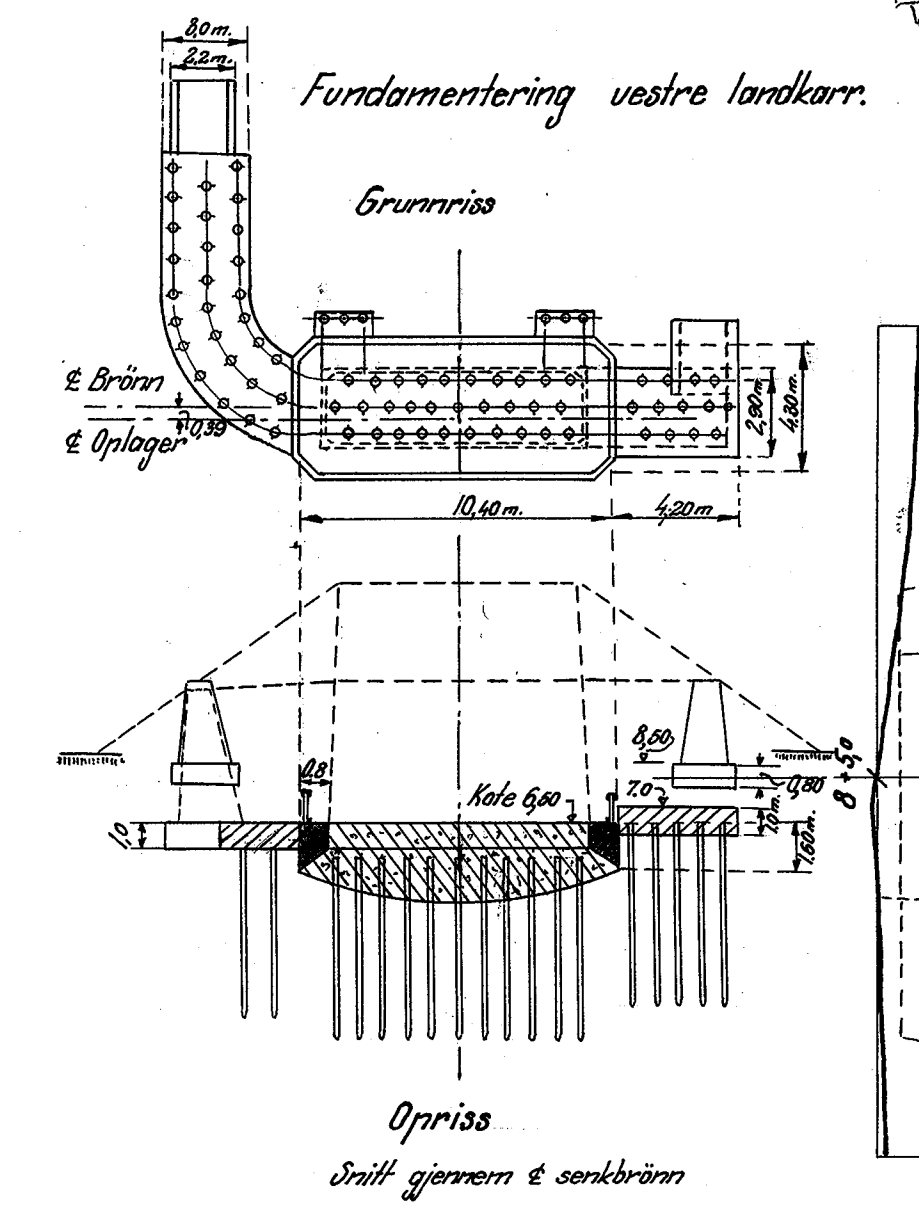
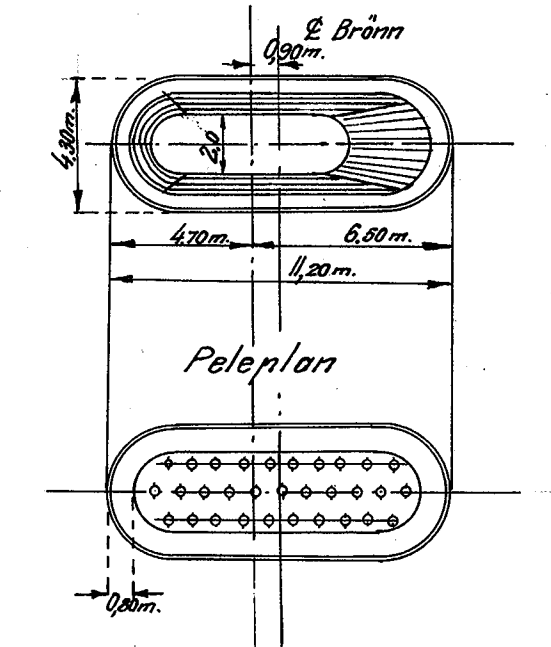
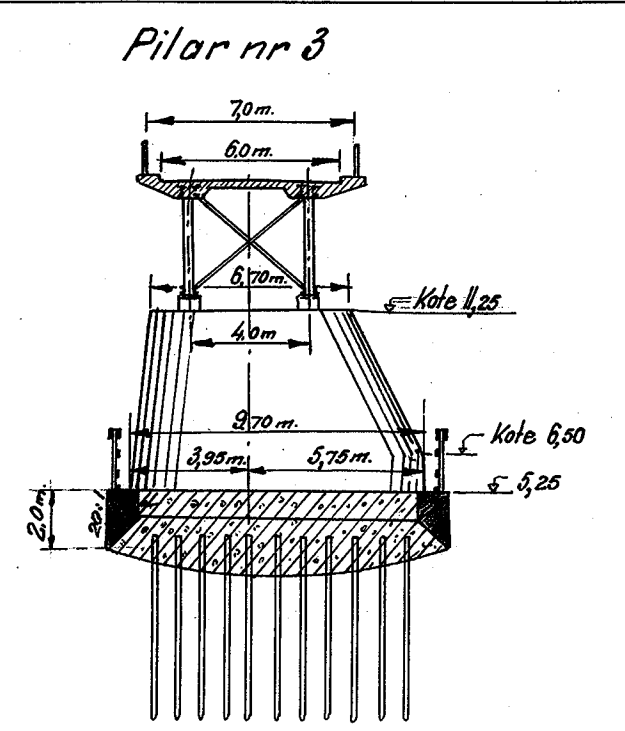
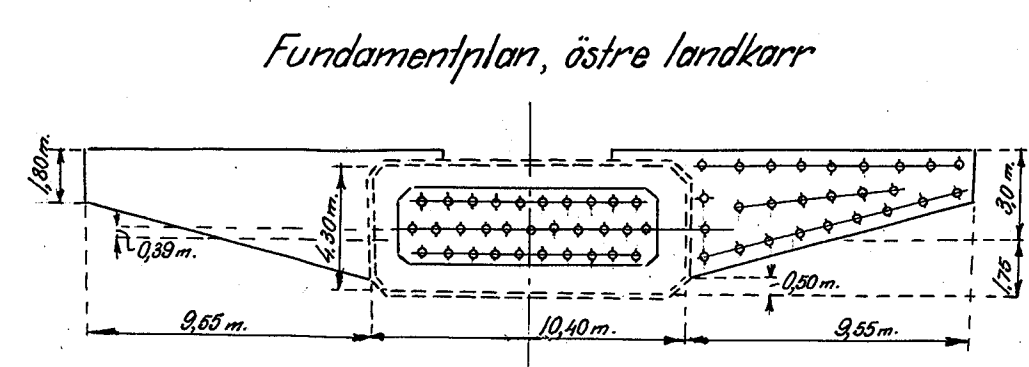
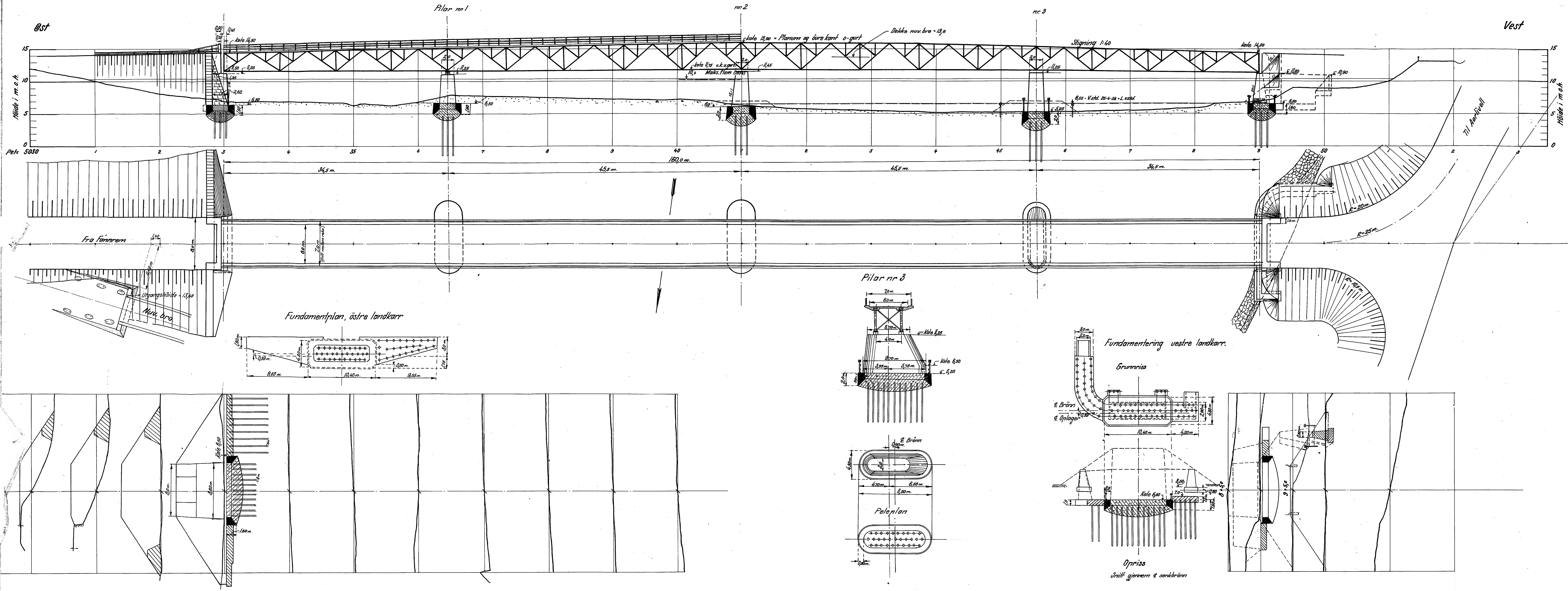
Valm. Tser-Tromsø  
20-6-1936  
A. 288  
Erf. av:

# Forve bro, Riksvei 670, Orkdal herred.

Projekt.

Projekt: 4 fagværkerne 34,5 + 45,5 + 45,5 + 34,5 = 160,0 m., overliggende brobane.  
 Brobælte av armert betong, Kf. & br. 80 m., fritt mellem rektverk = 70 m.  
 Bel. kl. 2.

M. 1:250  
 Profil ovenfor gml. bro. Optatt 25-4-1936.

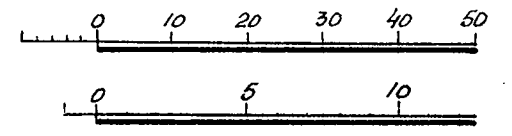


|    |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| 15 | 14,50 | 14,00 | 13,50 | 13,00 | 12,50 | 12,00 | 11,50 | 11,00 | 10,50 | 10,00 | 9,50 | 9,00 | 8,50 | 8,00 | 7,50 | 7,00 | 6,50 | 6,00 | 5,50 | 5,00 | 4,50 | 4,00 | 3,50 | 3,00 | 2,50 | 2,00 | 1,50 | 1,00 | 0,50 | 0 |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|

# Forve bro, Orkdal.

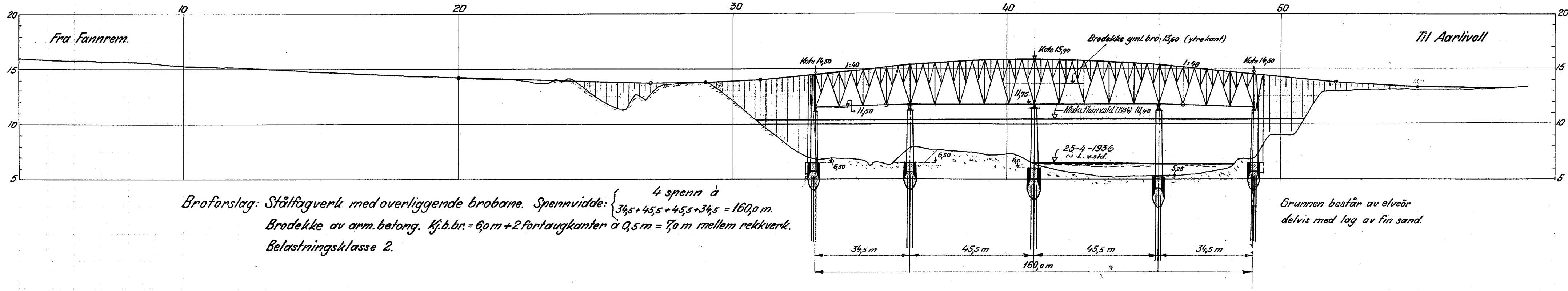
Lengdeprofil optatt 25-4-1936

L.M. 1:1000  
H.M. 1:250



Ost

Vest



Broforslag: Stålfagverk med overliggende brobane. Spennvidde:  $4 \text{ spenn } \hat{a} \begin{cases} 34,5 + 45,5 + 45,5 + 34,5 = 160,0 \text{ m.} \\ \end{cases}$   
 Brodekke av arm. betong. Kf.b.br. = 6,0 m + 2 fortaugkanter  $\hat{a}$  0,5 m = 7,0 m mellem rekkverk.  
 Belastningsklasse 2.

Grunnen består av elveør delvis med lag av fin sand.

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|
| 575 | 557 | 523 | 504 | 485 | 484 | 474 | 463 | 451 | 440 | 434 | 425 | 426 | 417 | 403 | 376 | 416 | 246 | 139 | 375 | 265 | 110 | 369 | 375 | 373 | 204 | 1400 | 1012 | 808 | 690 | 693 | 630 | 681 | 776 | 750 | 720 | 722 | 637 | 672 | 592 | 517 | 522 | 527 | 547 | 592 | 691 | 894 | 1104 | 375 | 300 | 75 | 310 | 310 | 312 | 315 | 317 | 320 | 330 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|

A.315  
Veivesenet i Sør-Trendelag  
August 1936

K.E.

Pilar nr. 1 og nr. 2.

M. 1:100

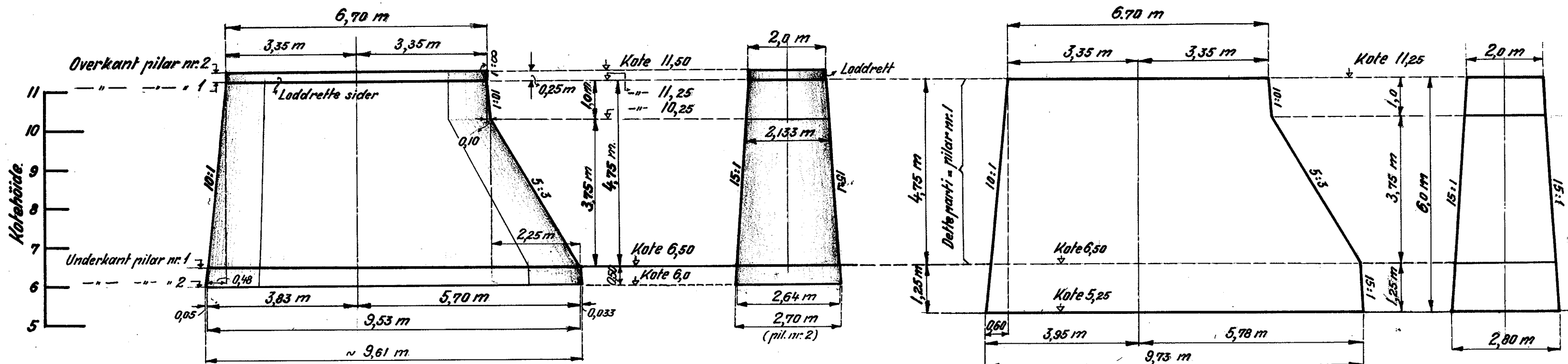
Pilar nr. 3.

Opriss

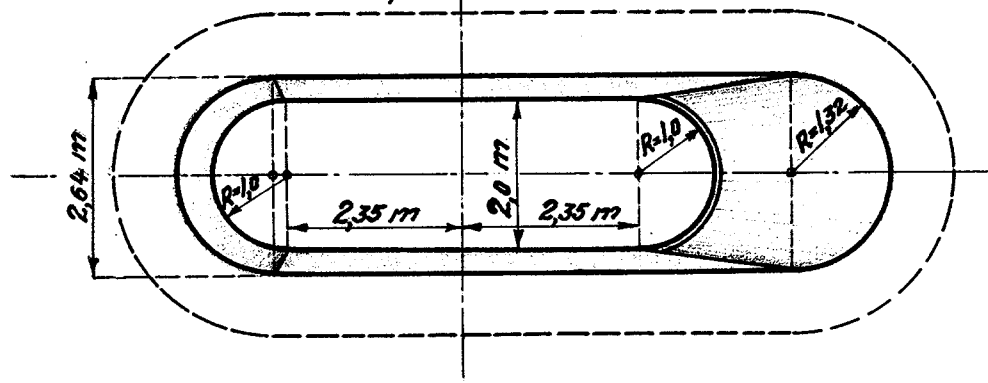
Sett forfra

Opriss

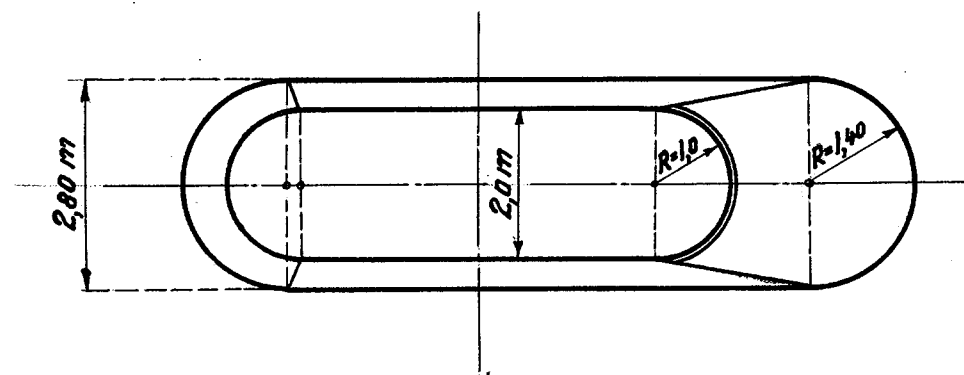
Sett forfra



Grunnriss  
pilar nr. 1.



Grunnriss



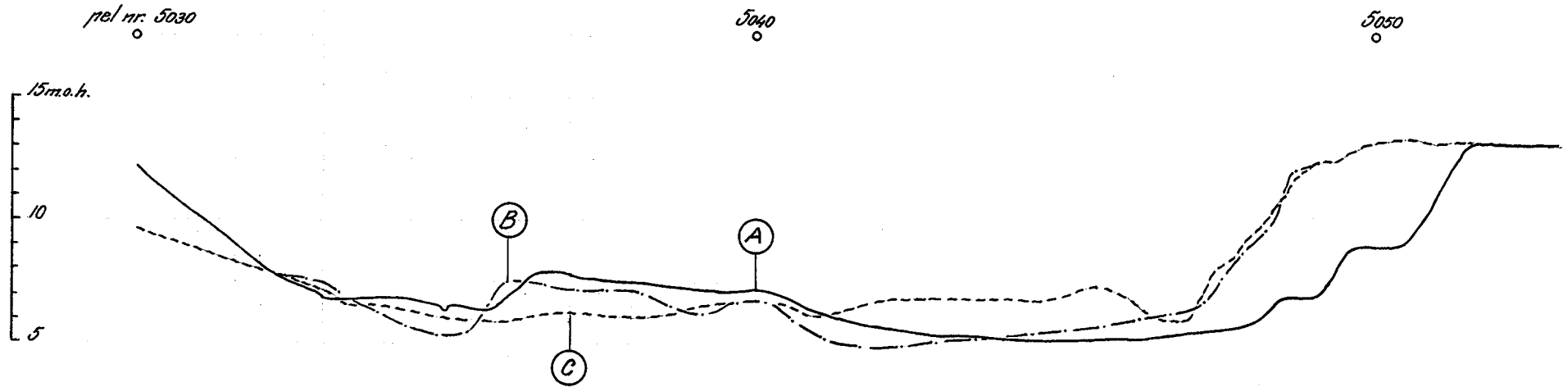
Pilar nr. 1 og nr. 2 er like bortsett fra den 0,25 m tykke kalott på toppen av pilar nr. 2. Desuten har pil. nr. 2 et 0,5 m tykt bunnskiift under isbryteren.

Pilarene er nummererte fra øst mot vest.

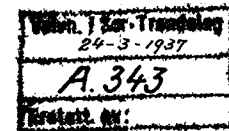


Forve bro.

Profiler over Orkla ved Forve bro.



- (A) Profil efter broakse i projekt av 7-9-1936, målt 25-4-1936.
- (B) " 10 m. nedenfor gml. bro, målt 27-3-1936.
- (C) " " " " " , målt 6-5-1929.



Veivesenet i Sør-Trøndelag,  
Trondheim i mars 1937.

Forve bro

M 1:100.

Pilar nr. 1 og nr. 5.

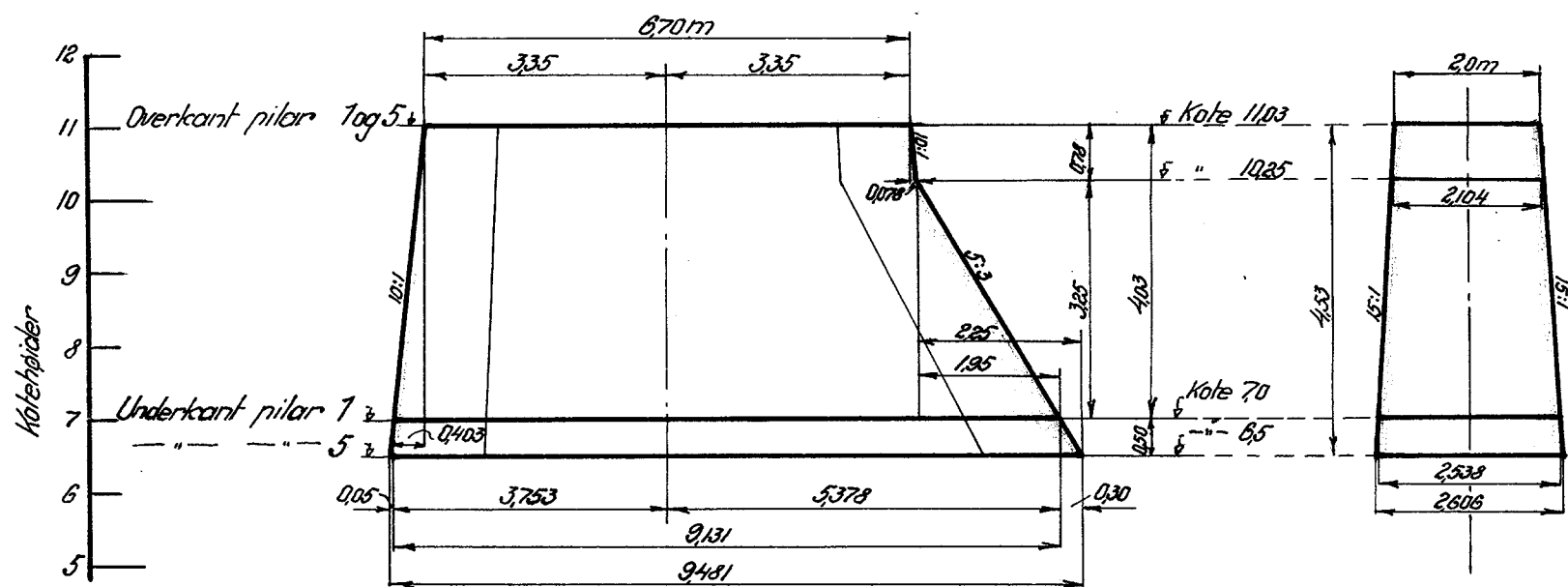
Pilarene over fundamentflaten.

Pilar nr. 2 og nr. 4.

Pilar nr. 3.

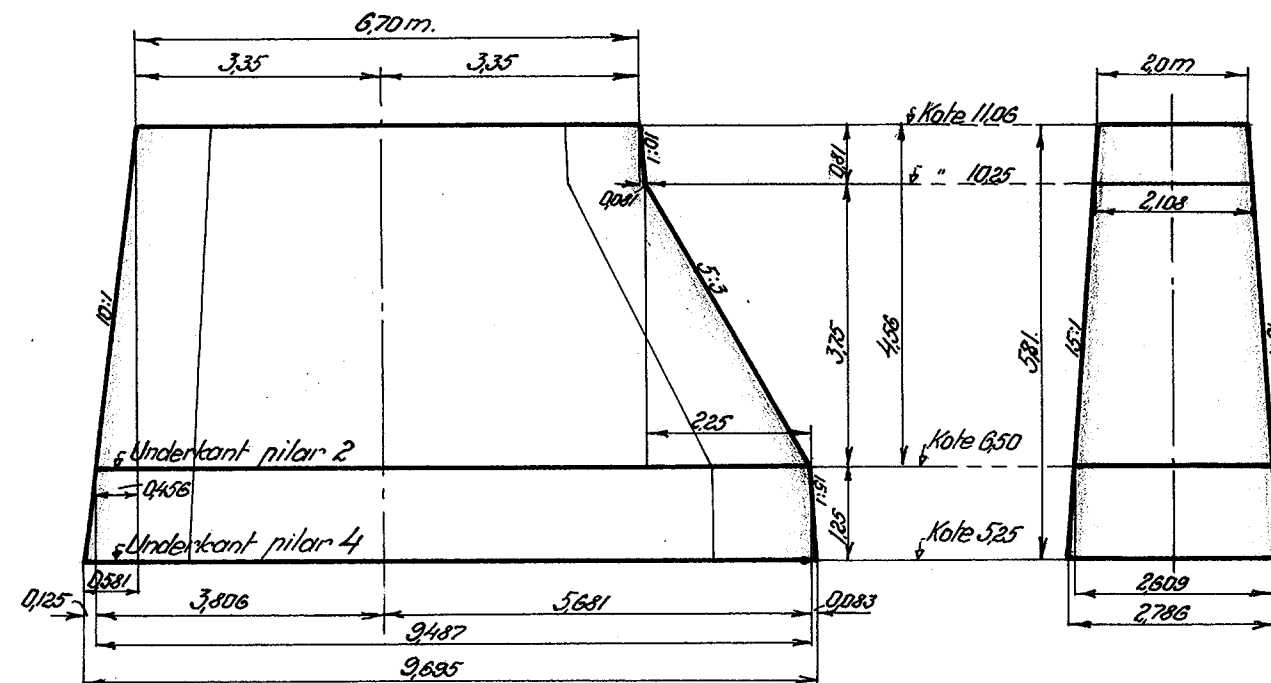
Opriss

Sett forfra



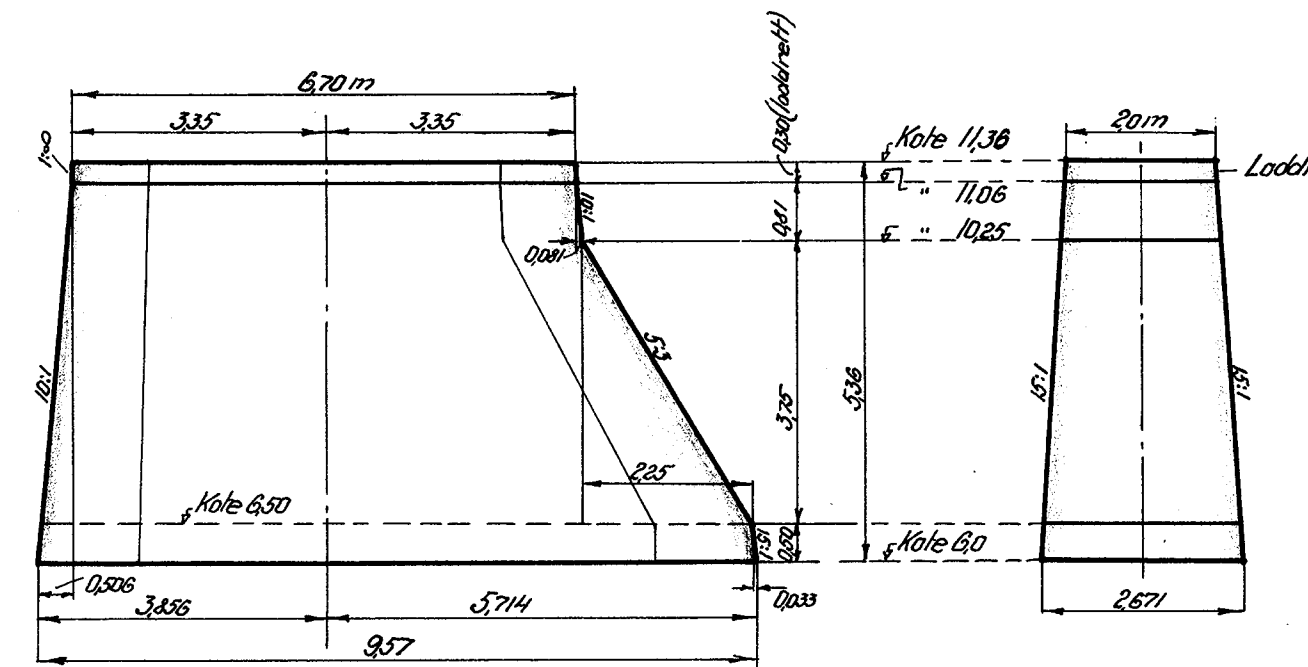
Opriss

Sett forfra

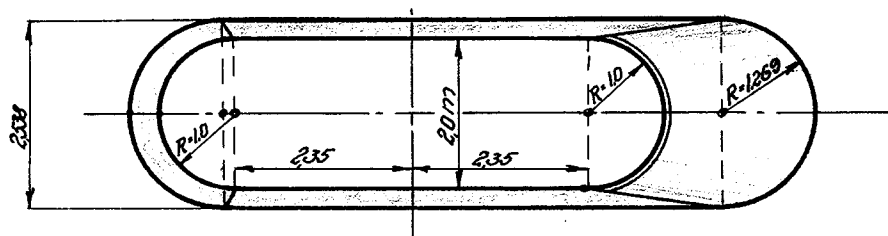


Opriss

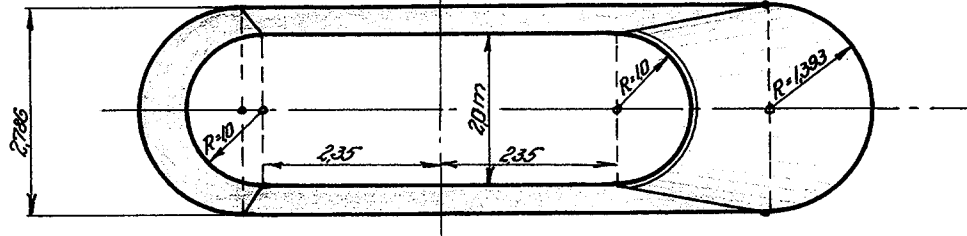
Sett forfra



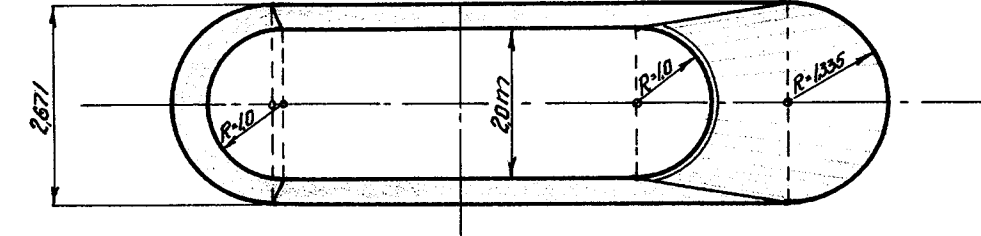
Grunnriss  
pilar nr. 1.



Grunnriss  
pilar nr. 4.



Grunnriss  
pilar nr. 3.



M 1:100

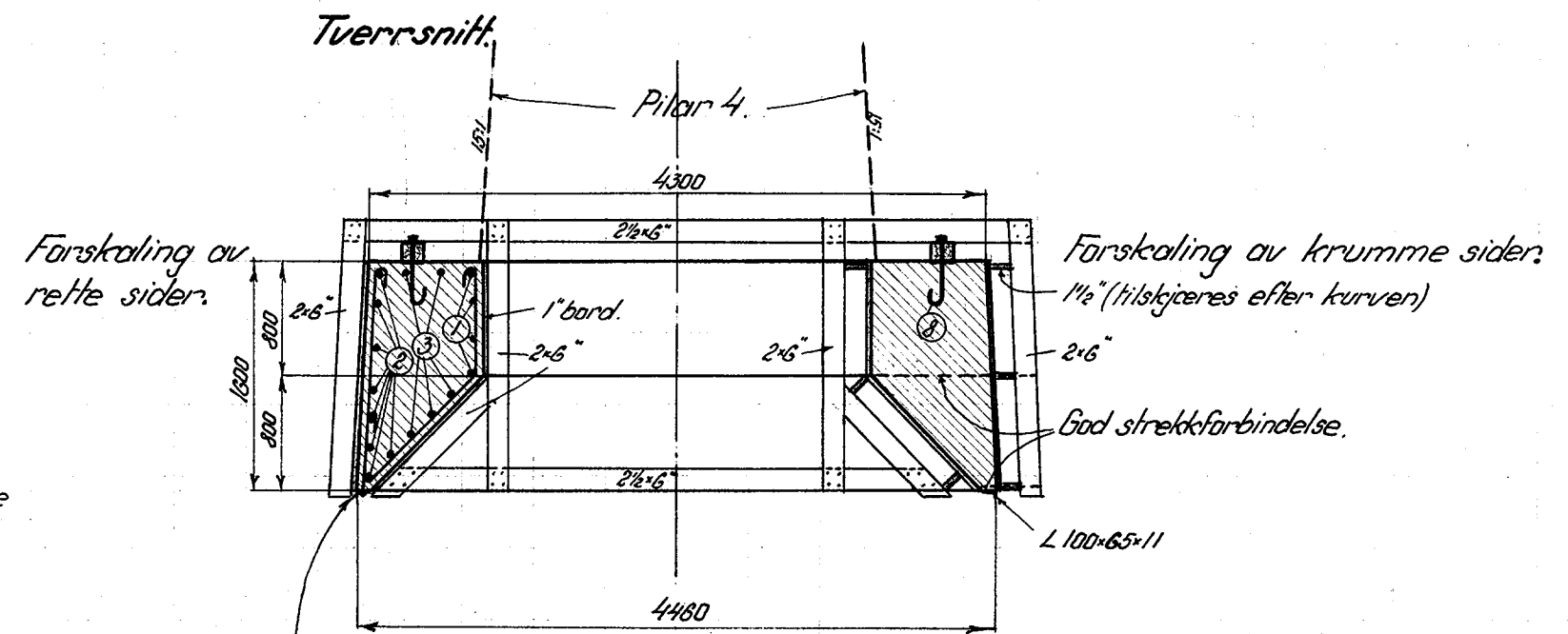
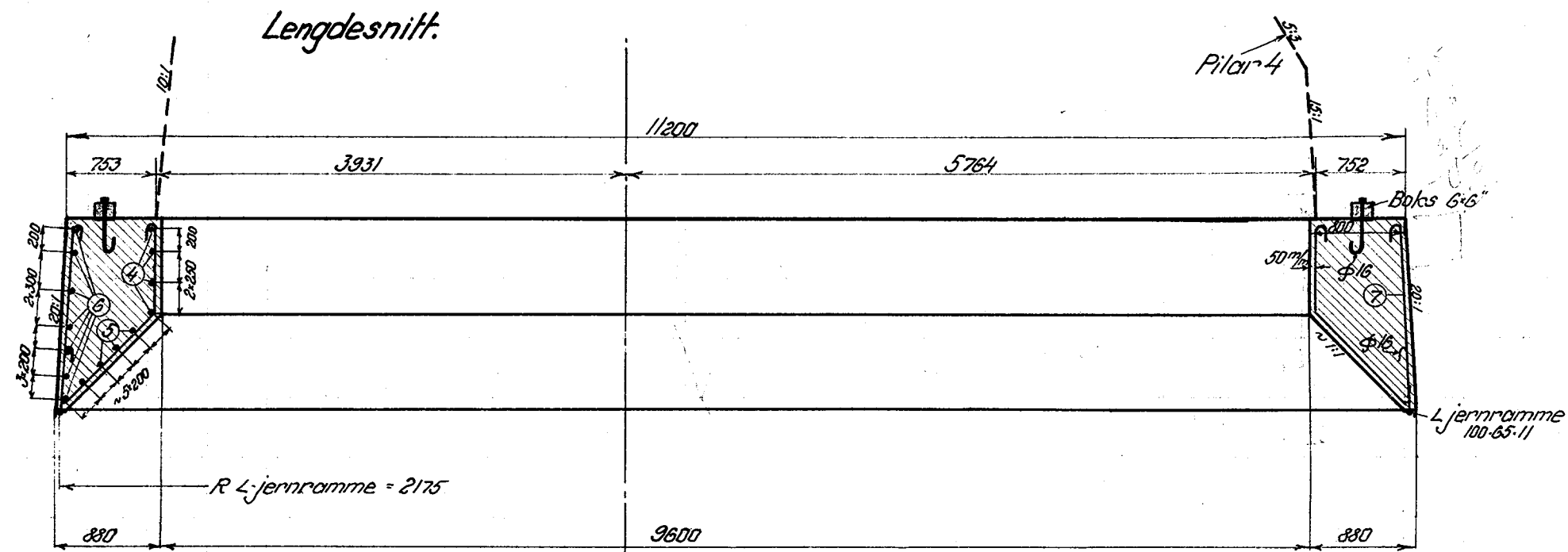


Pilarene er nummererte fra øst mot vest.

A. 346

Veivesenet i Sør-Trøndelag 19/4 1937

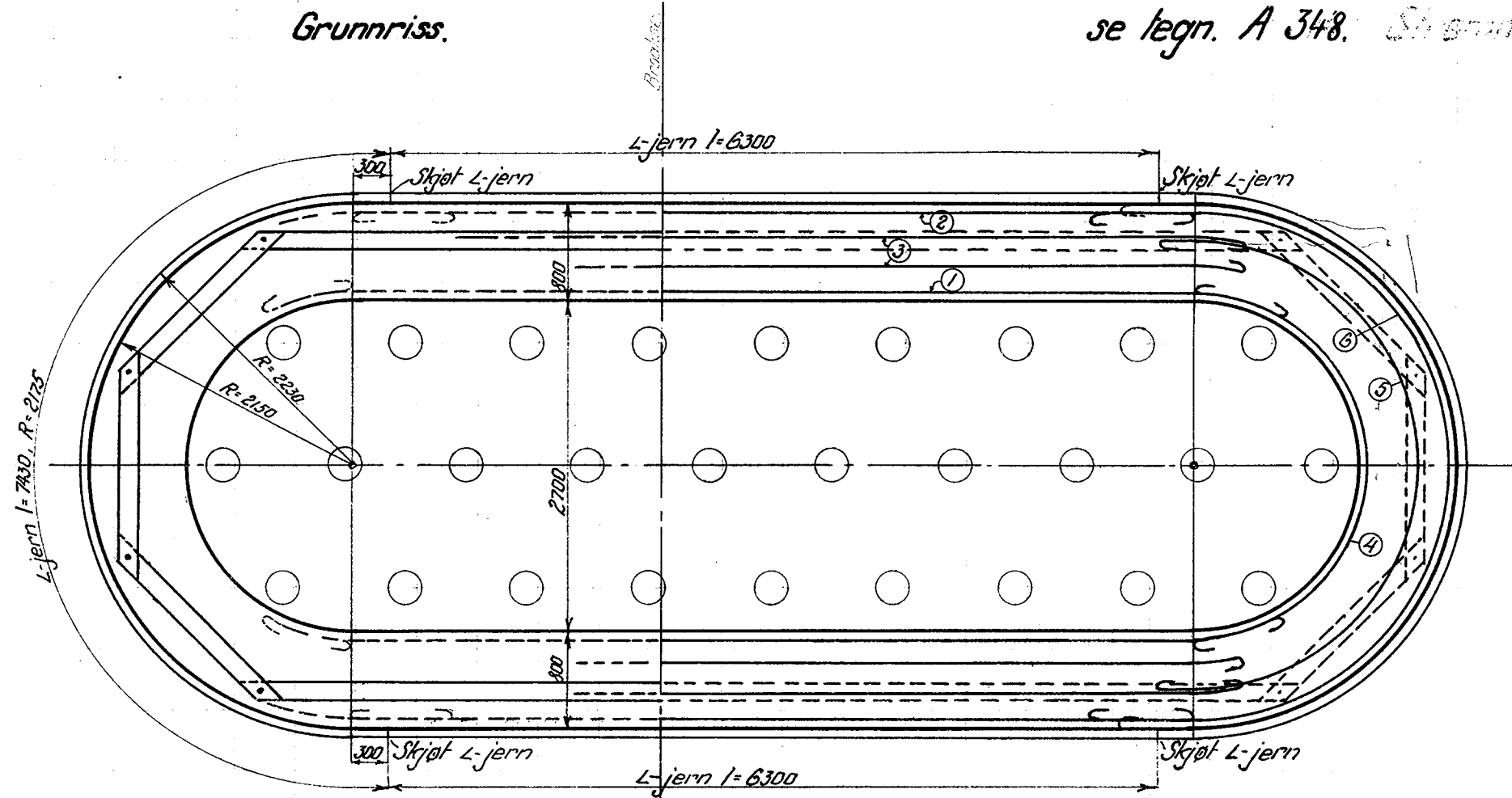




Skjot av vinkeljern, samt detalj av forankringsbolter  
se tegn. A 348. *Størrelsen bro.*

Før vinkeljernrammen bringes på plass  
må terrenget være nøiaktig avplanert.  
Avstand mellem førskalingbukker ~ 0,80 m.

Forankring av L-jernramme 30stk. bolter  $\phi 16$  m/m i avst. ~ 1,0 m  
Forankring av treramme 28stk. bolter  $\phi 16$  m/m



Jernliste for senkbrønn.

| Pos. nr. | Diám.     | System. | Lengde | Antall | Sum lengde | Vekt kg | Anmerk.                      |
|----------|-----------|---------|--------|--------|------------|---------|------------------------------|
| 1        | $\phi 20$ |         | 8700   | 8      | 70         | 173     | Lengdearm.                   |
| 2        | "         |         | 7200   | 16     | 115        | 284     | ---                          |
| 3        | "         |         | 8000   | 10     | 80         | 198     | ---                          |
| 4        | "         |         | 4800   | 8      | 39         | 97      | R=1,42 m.                    |
| 5        | "         |         | 6400   | 6      | 39         | 97      | R~1,70 m.                    |
| 6        | "         |         | 8300   | 16     | 133        | 329     | R~2,12 m.                    |
| 7        | $\phi 16$ |         | 3550   | 34     | 121        | 191     | Bøiler i avst. 0,8 m (marks) |

Sum 1369 kg pr. senkbrønn.  
28stk. 182  
Veivesenet i Sør-Trøndelag 1-5 1937 / Hs.

Volm. i Sør-Trøndelag  
A. 347  
Ersattt. av:

Forve bro, Orkdal.

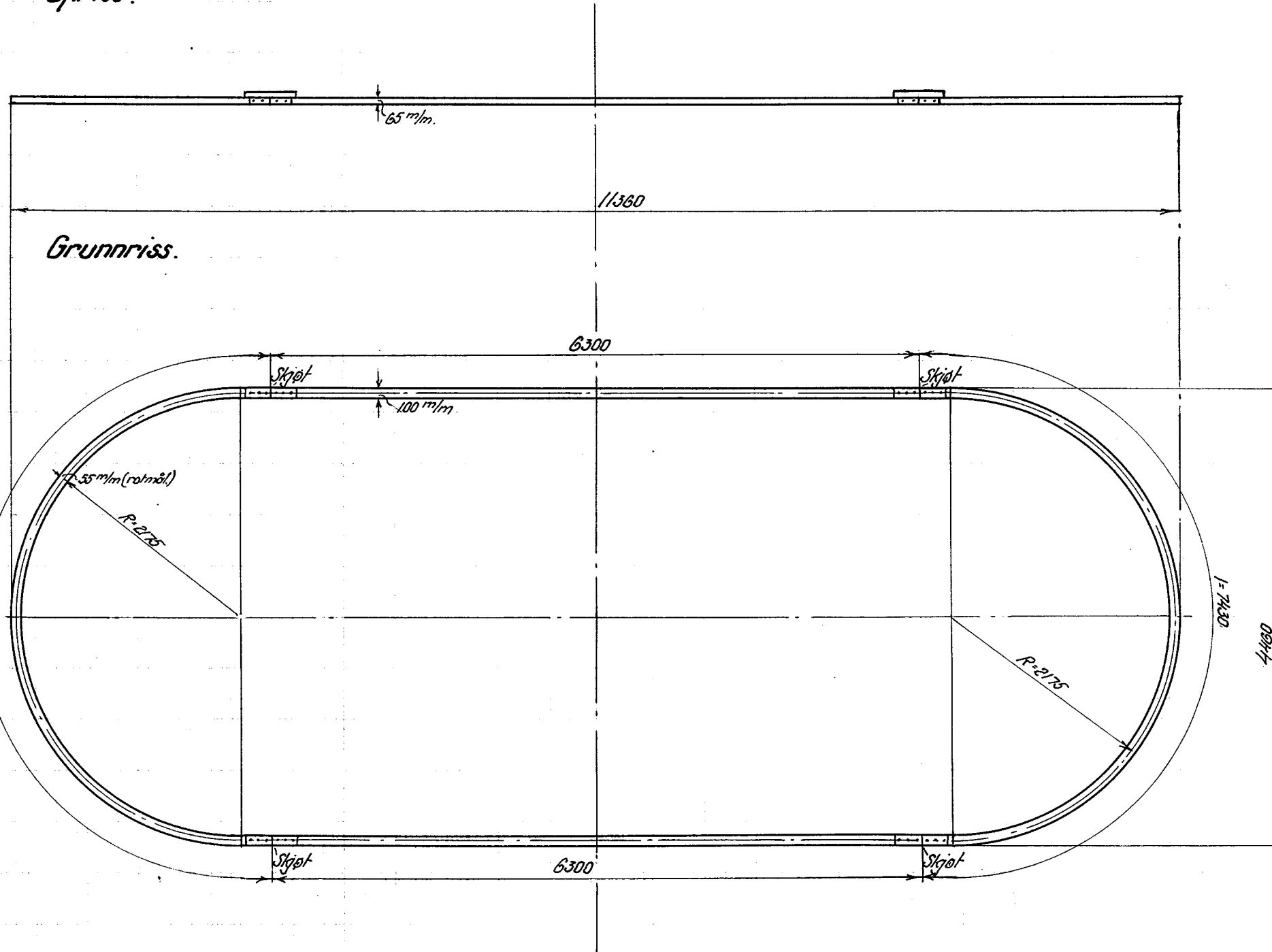
# Vinkeljernramme for senkbrønn.

L 100×65×11

M 1:50.

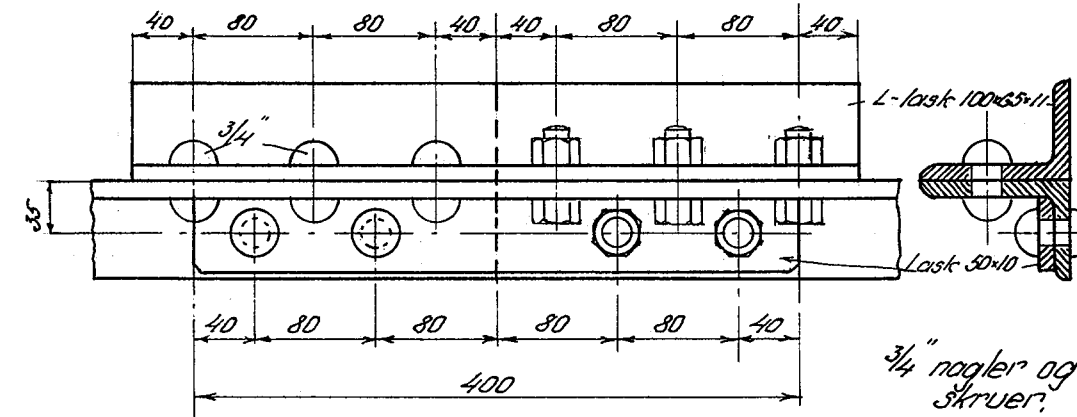


Opriss.

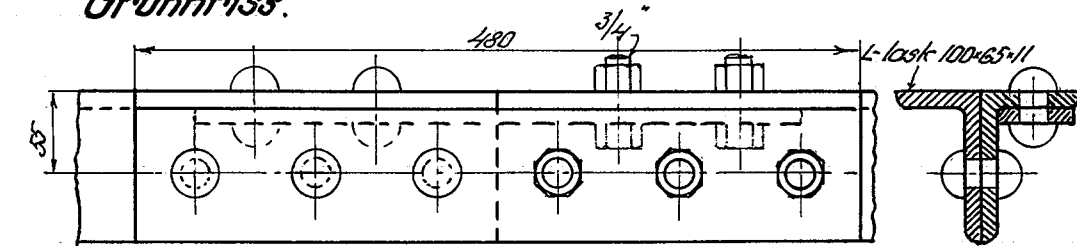


Grunnriss.

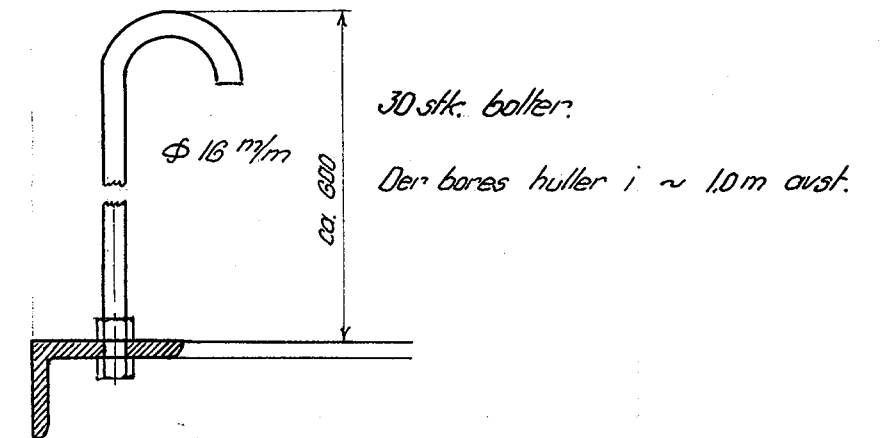
Skjøt av L-jernramme. M 1:5  
Opriss.



Grunnriss.



Forankring av L-jernramme.

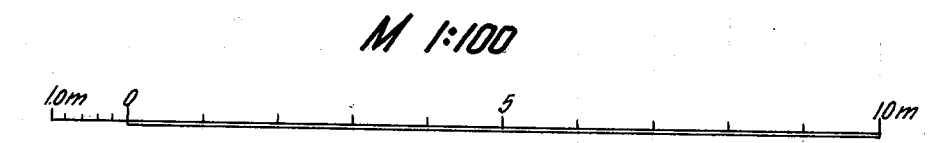
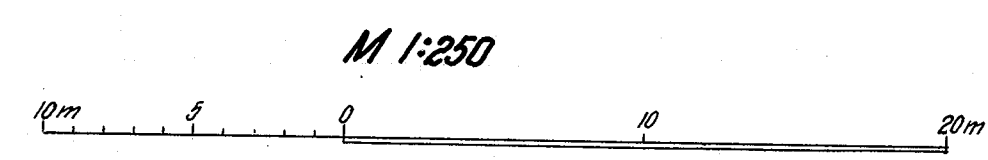
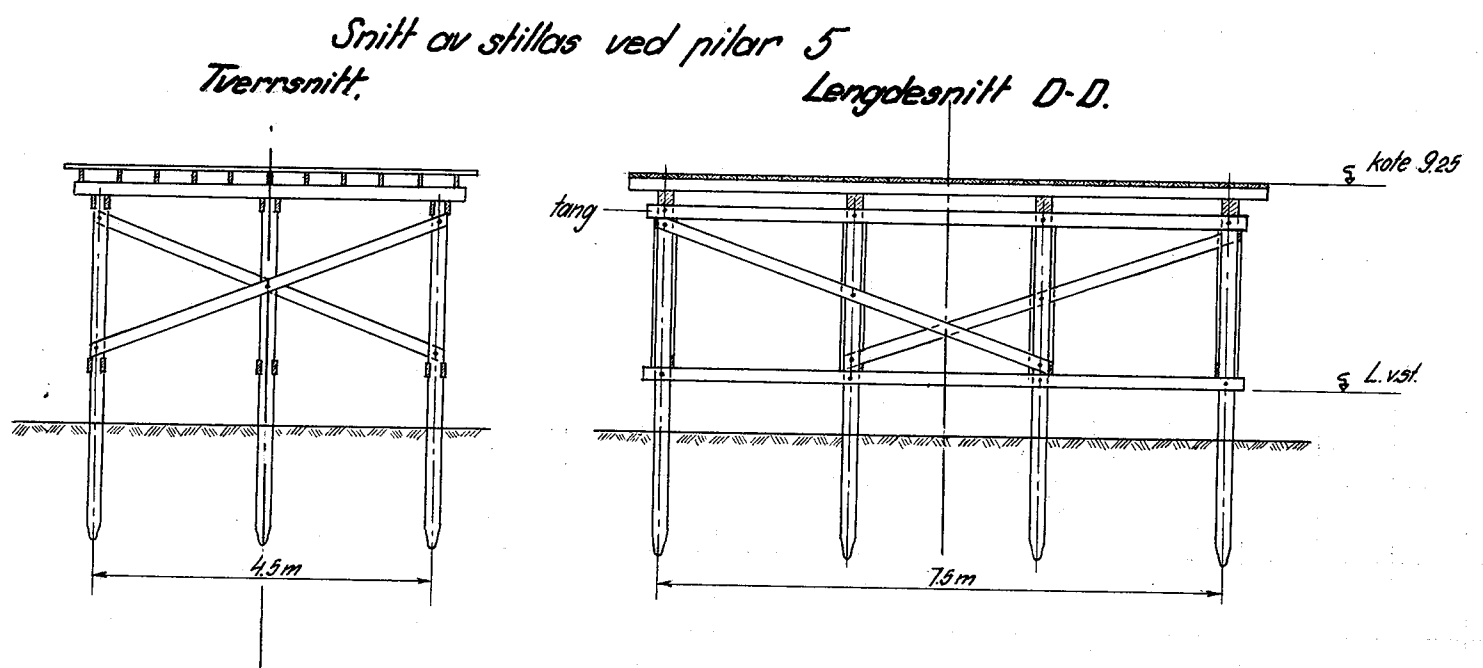
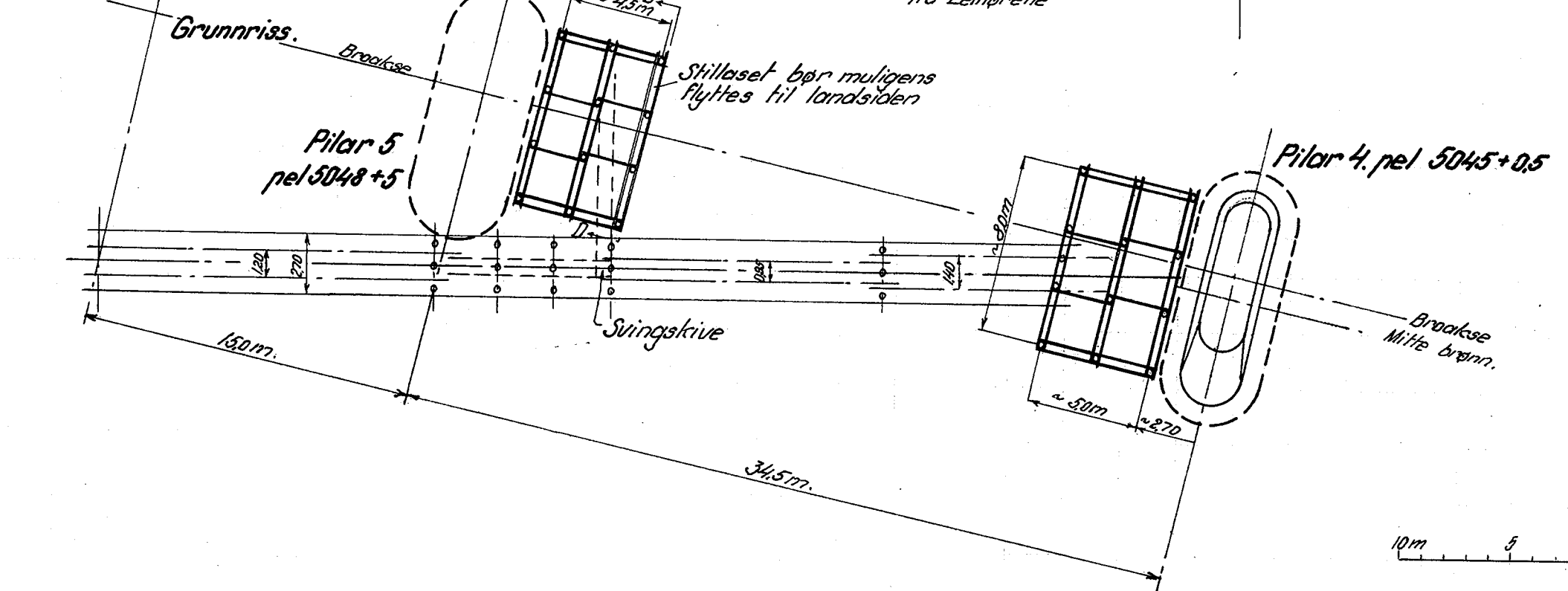
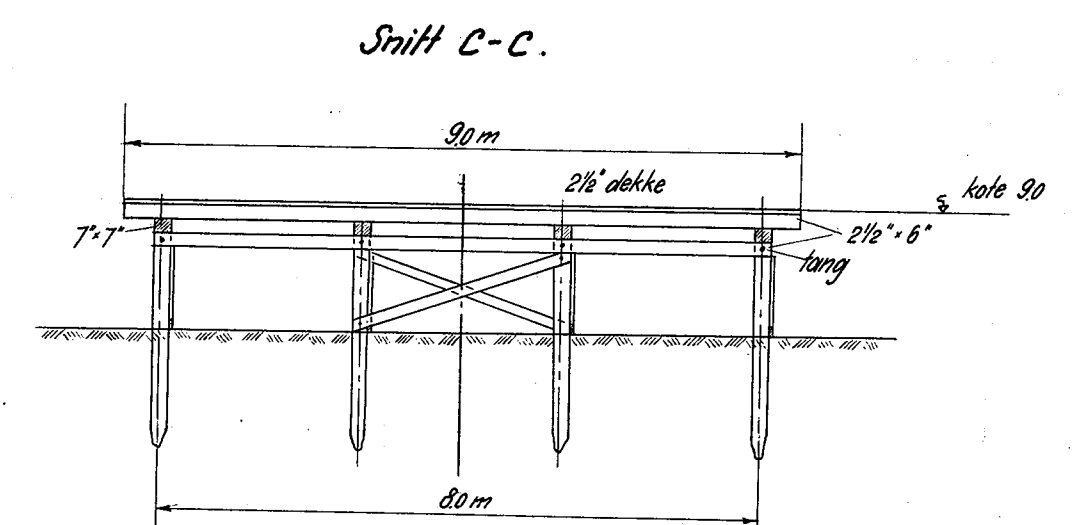
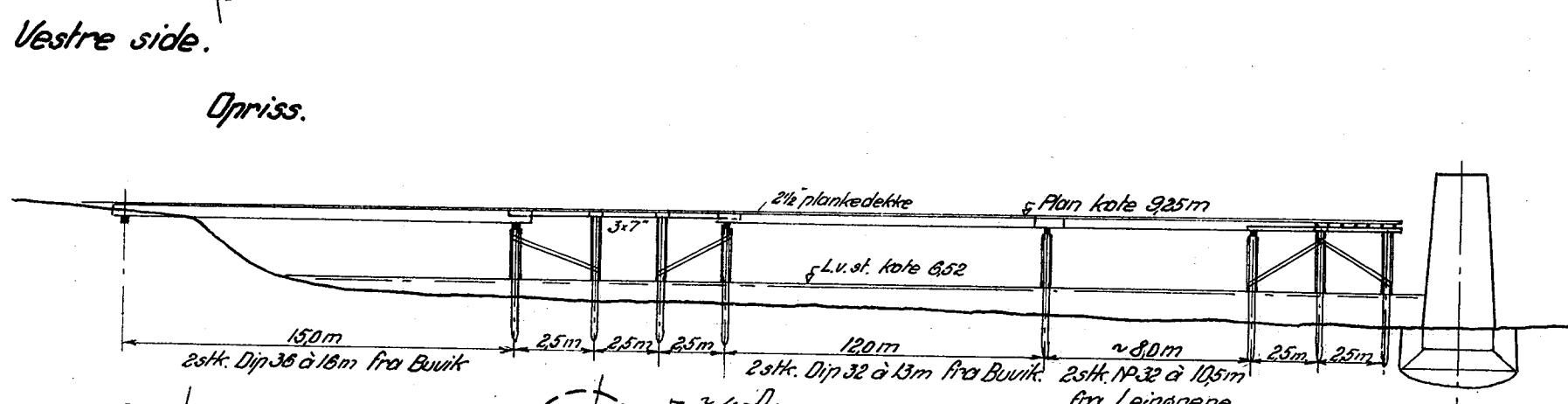
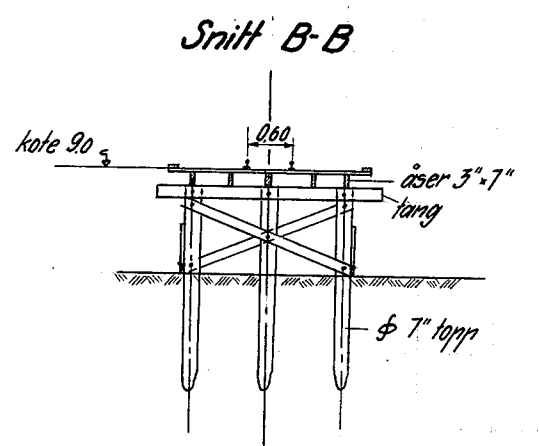
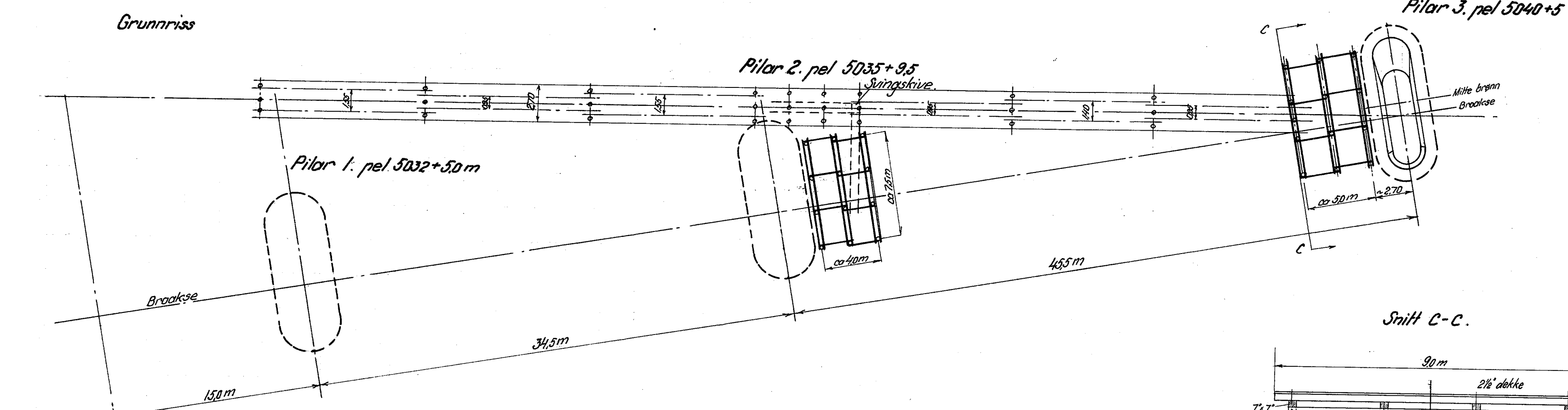
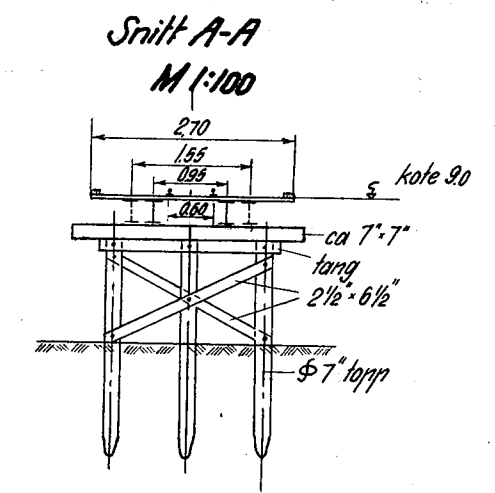
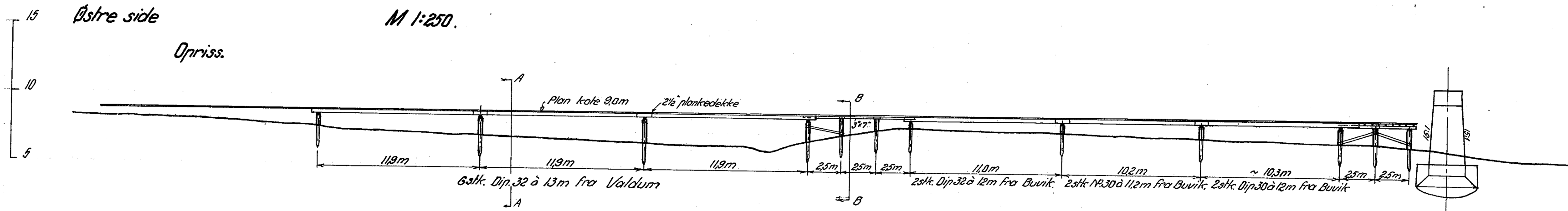


Veivn. T. Ser-Trøndelag  
A. 348  
Drautt. av:

Veivesenet i Spir-Trøndelag 15/5 1937

H.

# Transportstillas

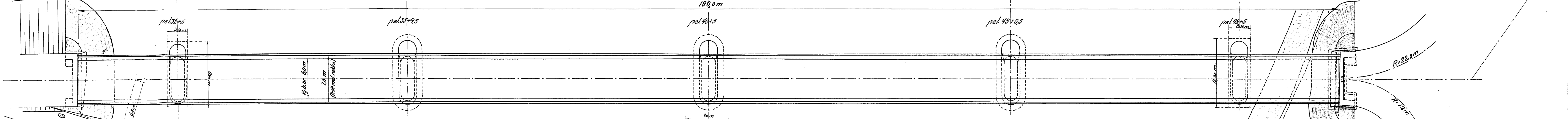
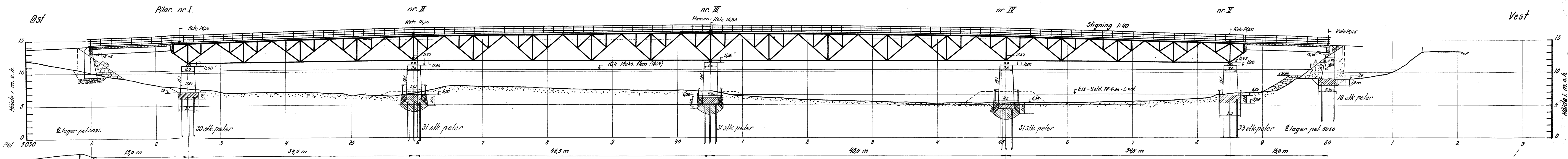


Volvm. 1 Ber-Tredeling  
A. 349  
L. 100000, 100

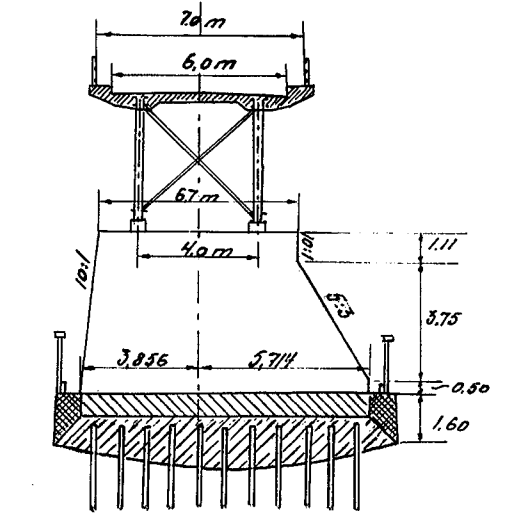
# Forve bro, Riksvei 670, Orkdal herred.

M= 1:250

Profil ovenfor gml. bro. Optatt 25-4-1936.



Trærssnitt i pilar nr. 3.



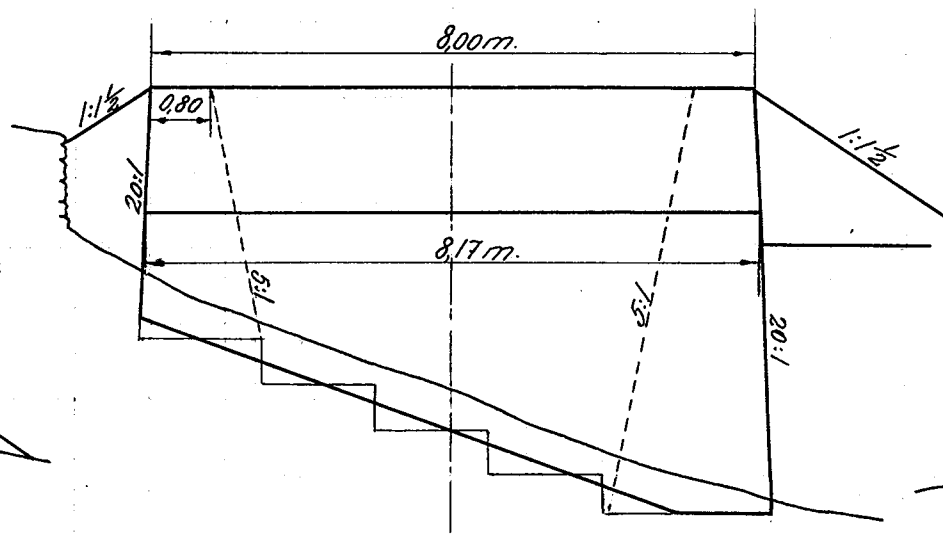
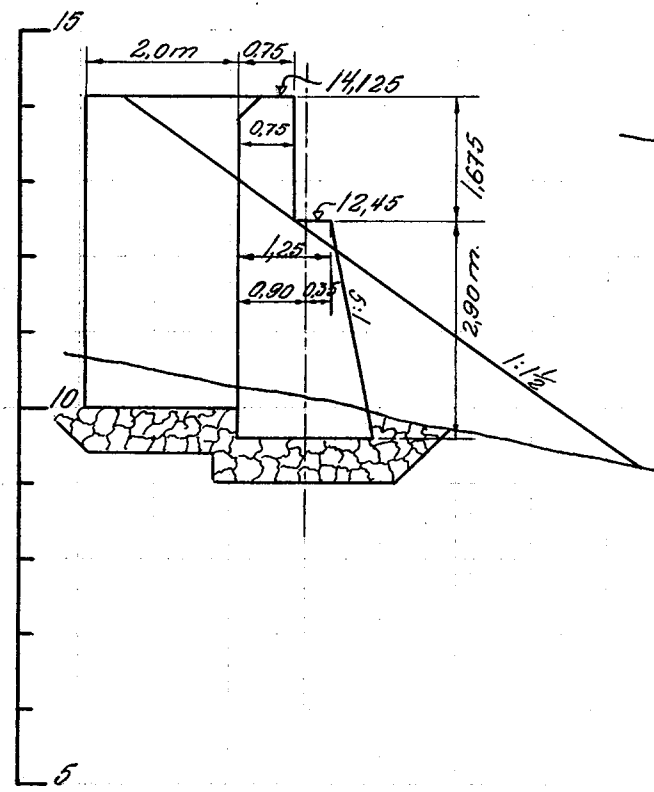
Detalj tegning av pilarer se tegning A.346.  
 - senkbrønn - A.347.

Veivn. i Sar-Trändelag  
 12-6-1937  
 A.351  
 Erstatt. nr. A.486

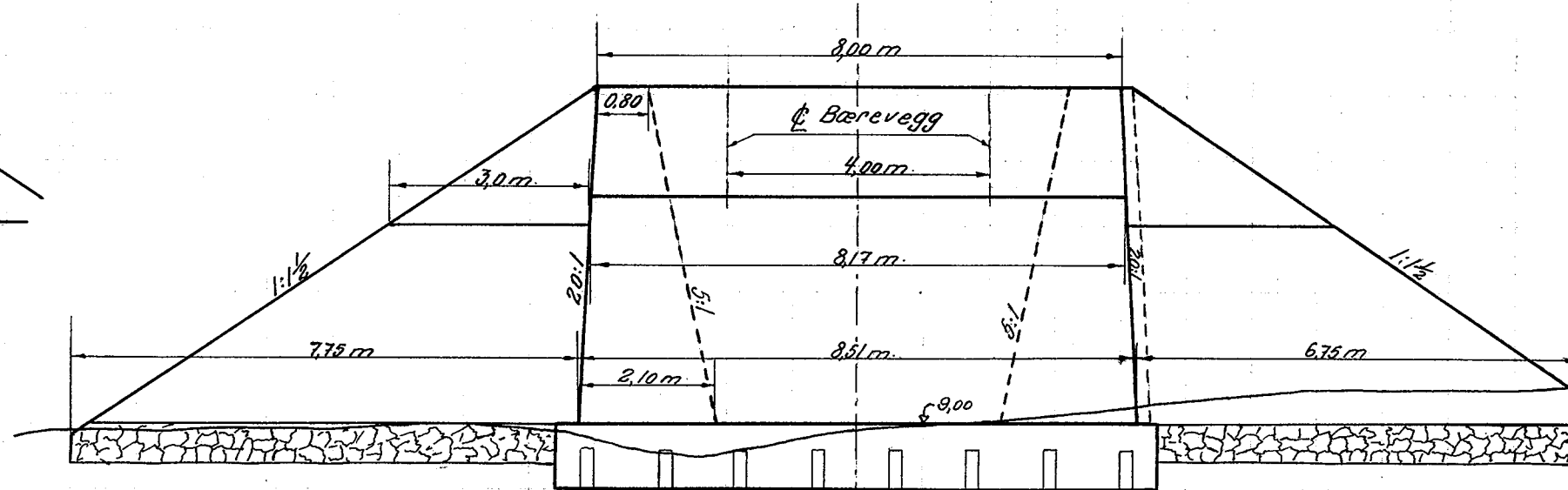
Veivesenet i Sar-Trändelag

# Forve bro.

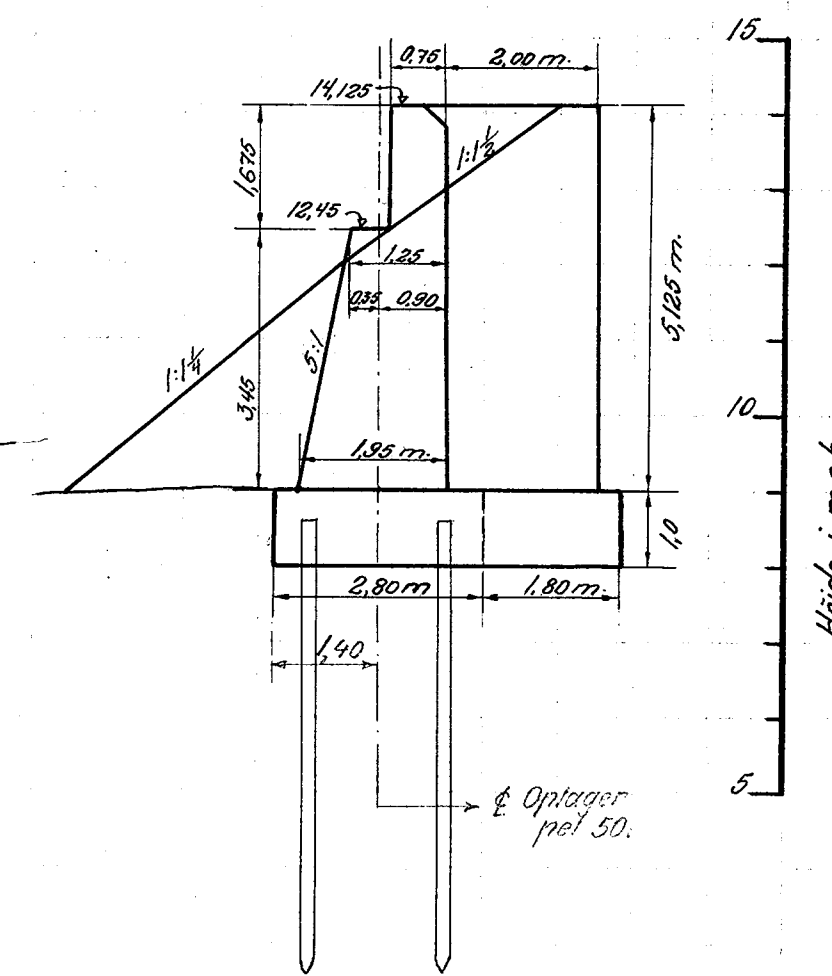
Østre landkarr



Opriss

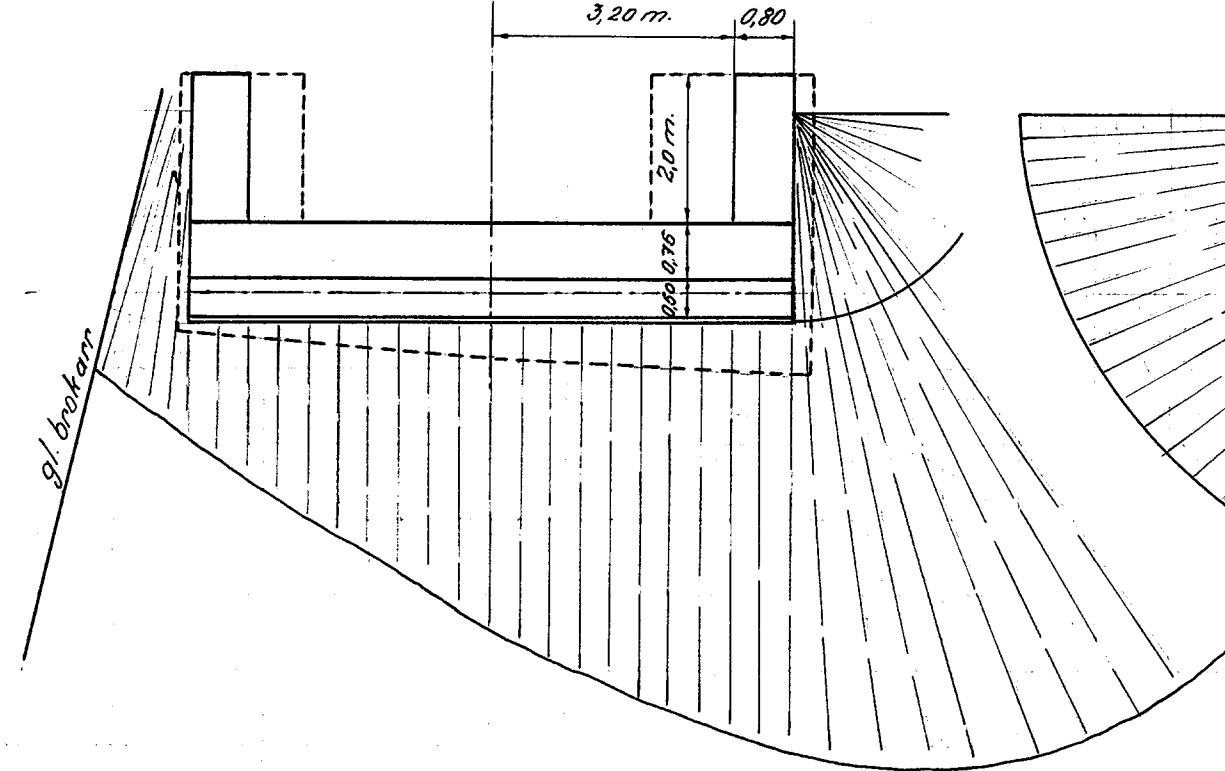


Vestre landkarr

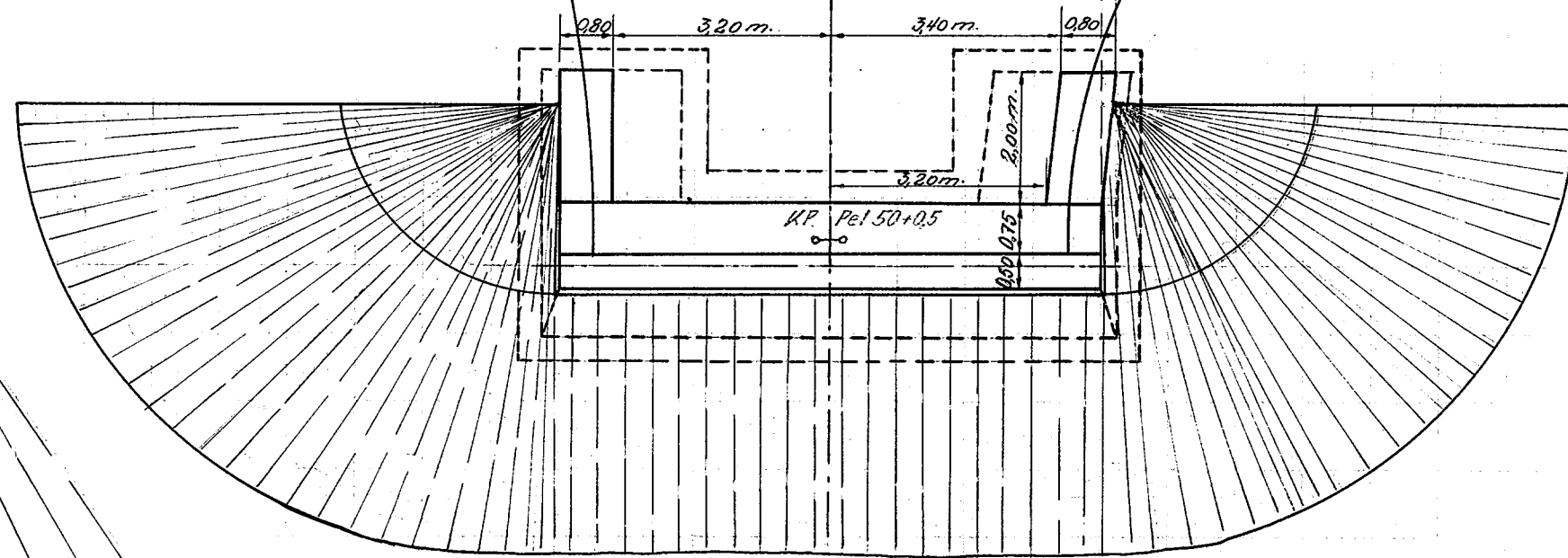


Høide i m.o.h.

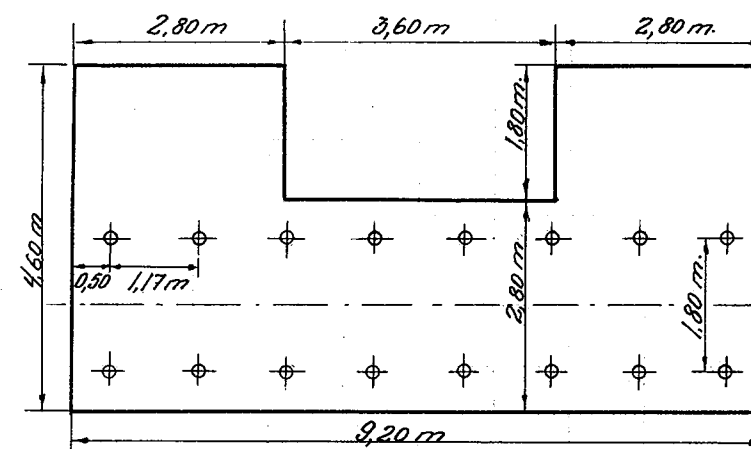
Grunnriss



Grunnriss



Grunnriss av fundament med peleplan



M=1:100.



Veivesenet i Sør Trøndelag  
1934.

Vetm. i Sør-Trøndelag  
3-7-1937  
A 352  
Eretatt. av:

H.B.

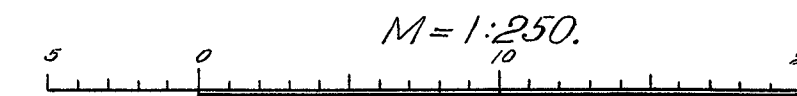




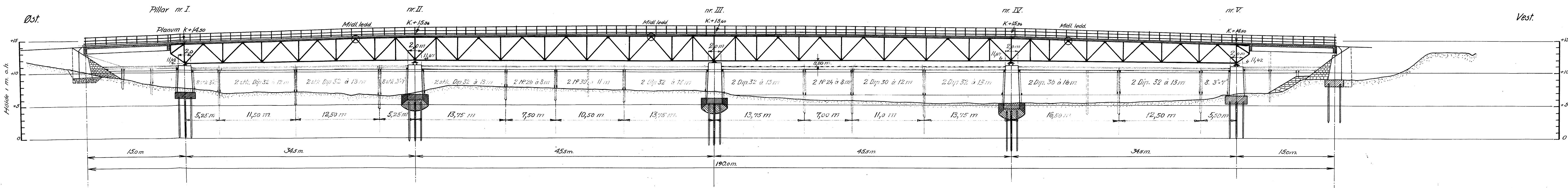


# Forve bro. Riksvei 670. Orkdal herred.

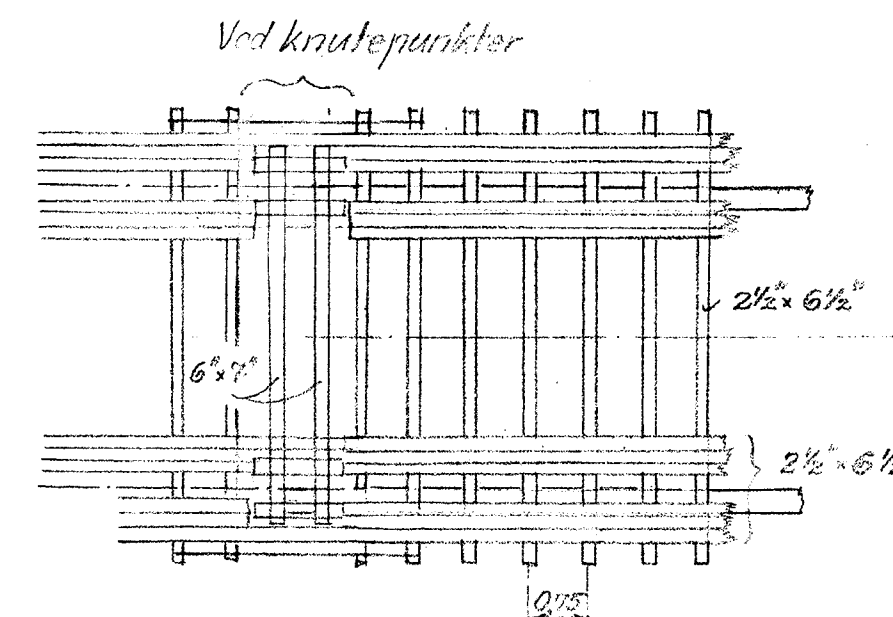
Kjørebanebredde=6,0m. + 2 sidekanter à 0,5m. Belastningsklasse I<sup>2</sup>.



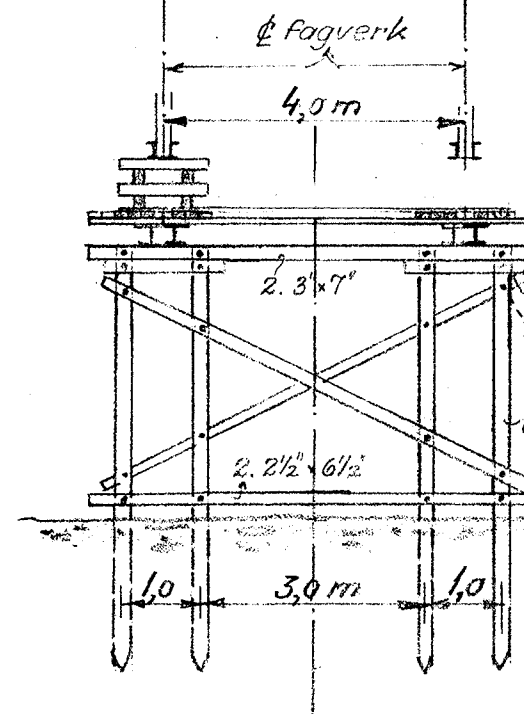
## Monteringsstillas.



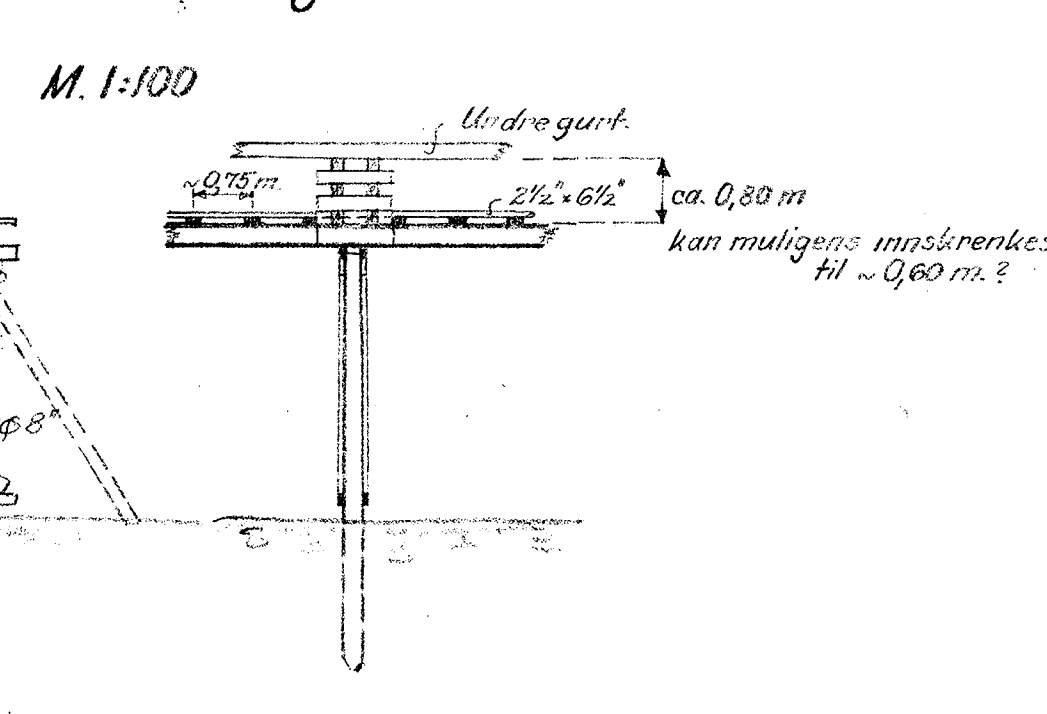
### Grunnriss



### Tverrsnitt



### Lengdesnitt



Vegn. i Sør-Trøndelag  
11-1-1938  
A. 362  
Drettet. av:

Veivesenet i Sør-Trøndelag.



## **Vedlegg J: Analyser fra Idea StatiCa**

## Vedlegg J.1: Knutepunkt 18

**Project:**  
**Project no:**  
**Author:**

## Project data

Project name  
Project number  
Author  
Description  
Date 4/15/2021  
Design code EN

## Material

Steel S 235, S 355  
Concrete C25/30

Project:  
Project no:  
Author:

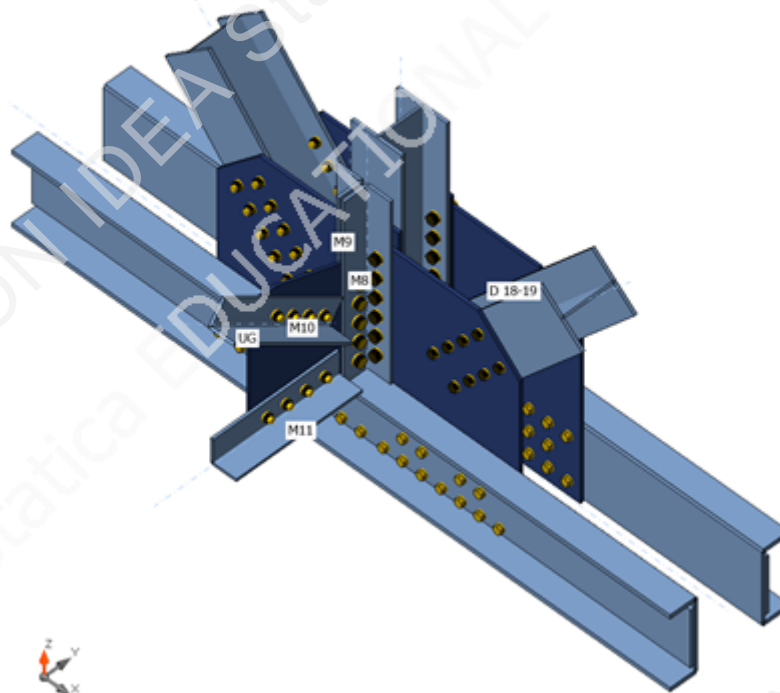
## Project item Knutepunkt 18

### Design

Name Knutepunkt 18  
Description Høyt belastet knutepunkt undergurt  
Analysis Stress, strain/ simplified loading

### Beams and columns

| Name    | Cross-section        | $\beta$ - Direction<br>[°] | $\gamma$ - Pitch<br>[°] | $\alpha$ - Rotation<br>[°] | Offset ex<br>[mm] | Offset ey<br>[mm] | Offset ez<br>[mm] | Forces in |
|---------|----------------------|----------------------------|-------------------------|----------------------------|-------------------|-------------------|-------------------|-----------|
| UG      | 13 - UG-5(General)   | 0.0                        | 0.0                     | 180.0                      | 0                 | 120               | 0                 | Node      |
| D 17-18 | 11 - IDIMEL 18(I172) | 180.0                      | -49.0                   | 90.0                       | 0                 | 0                 | -120              | Node      |
| V-18    | 12 - V-3(I150)       | 0.0                        | -90.0                   | 90.0                       | -110              | 0                 | 120               | Node      |
| D 18-19 | 11 - IDIMEL 18(I172) | 0.0                        | -48.5                   | 90.0                       | 124               | 0                 | 120               | Node      |
| M8      | 20 - L80             | 0.0                        | -90.0                   | 180.0                      | 121               | 248               | 25                | Node      |
| M9      | 20 - L80             | 0.0                        | -90.0                   | 90.0                       | 120               | 29                | 248               | Node      |
| M10     | 20 - L80             | -90.0                      | -35.0                   | 0.0                        | 480               | 26                | 90                | Node      |
| M11     | 20 - L80             | -90.0                      | 0.0                     | 0.0                        | 320               | 25                | 180               | Node      |



Project:  
Project no:  
Author:

## Cross-sections

| Name                 | Material                   |
|----------------------|----------------------------|
| 13 - UG-5(General)   | S 235, S 235, S 235, S 235 |
| 11 - IDIMEL 18(I172) | S 235                      |
| 12 - V-3(I150)       | S 235                      |
| 20 - L80             | S 235                      |

## Bolts

| Name       | Bolt assembly | Diameter [mm] | fu [MPa] | Gross area [mm <sup>2</sup> ] |
|------------|---------------|---------------|----------|-------------------------------|
| Nagl 16 mm | Nagl 16 mm    | 16            | 340.0    | 201                           |
| Nagl 19mm  | Nagl 19mm     | 19            | 340.0    | 283                           |

## Load effects (equilibrium not required)

| Name    | Member  | N [kN]  | Vy [kN] | Vz [kN] | Mx [kNm] | My [kNm] | Mz [kNm] |     |
|---------|---------|---------|---------|---------|----------|----------|----------|-----|
| Step 84 | UG      | 2081.0  | 0.0     | 0.0     | 0.0      | 0.0      | 0.0      |     |
|         | D 17-18 | 431.0   | 0.0     | 0.0     | 0.0      | 0.0      | 0.0      |     |
|         | V-18    | -207.0  | 0.0     | 0.0     | 0.0      | 0.0      | 0.0      |     |
|         | UG      | -1728.0 | 0.0     | 0.0     | 0.0      | 0.0      | 0.0      |     |
|         | M8      | 0.0     | 0.0     | 0.0     | 0.0      | 0.0      | 0.0      |     |
|         | M9      | 0.0     | 0.0     | 0.0     | 0.0      | 0.0      | 0.0      |     |
|         | M10     | -38.0   | 0.0     | 0.0     | 0.0      | 0.0      | 0.0      |     |
|         | M11     | 4.0     | 0.0     | 0.0     | 0.0      | 0.0      | 0.0      |     |
|         | Step 80 | UG      | -1814.0 | 0.0     | 0.0      | 0.0      | 0.0      | 0.0 |
|         |         | UG      | 1982.0  | 0.0     | 0.0      | 0.0      | 0.0      | 0.0 |
|         |         | V-18    | -242.0  | 0.0     | 0.0      | 0.0      | 0.0      | 0.0 |
| D 17-18 |         | 315.0   | 0.0     | 0.0     | 0.0      | 0.0      | 0.0      |     |
| M8      |         | 0.0     | 0.0     | 0.0     | 0.0      | 0.0      | 0.0      |     |
| M9      |         | 0.0     | 0.0     | 0.0     | 0.0      | 0.0      | 0.0      |     |
| M10     |         | -38.0   | 0.0     | 0.0     | 0.0      | 0.0      | 0.0      |     |
| Step 92 | M11     | -4.0    | 0.0     | 0.0     | 0.0      | 0.0      | 0.0      |     |
|         | UG      | -1283.0 | 0.0     | 0.0     | 0.0      | 0.0      | 0.0      |     |
|         | UG      | 1801.0  | 0.0     | 0.0     | 0.0      | 0.0      | 0.0      |     |
|         | V-18    | -108.0  | 0.0     | 0.0     | 0.0      | 0.0      | 0.0      |     |
|         | D 17-18 | 487.0   | 0.0     | 0.0     | 0.0      | 0.0      | 0.0      |     |
|         | M8      | 0.0     | 0.0     | 0.0     | 0.0      | 0.0      | 0.0      |     |
|         | M9      | 0.0     | 0.0     | 0.0     | 0.0      | 0.0      | 0.0      |     |
| M10     | -38.0   | 0.0     | 0.0     | 0.0     | 0.0      | 0.0      |          |     |
| M11     | 4.0     | 0.0     | 0.0     | 0.0     | 0.0      | 0.0      |          |     |

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## Check

### Summary

| Name     | Value          | Status |
|----------|----------------|--------|
| Analysis | 100.0%         | OK     |
| Plates   | 1.3 < 5.0%     | OK     |
| Bolts    | 86.2 < 100%    | OK     |
| Buckling | Not calculated |        |

### Plates

| Name          | Thickness [mm] | Loads   | $\sigma_{Ed}$ [MPa] | $\epsilon_{pI}$ [%] | $\sigma_{C_{Ed}}$ [MPa] | Status |
|---------------|----------------|---------|---------------------|---------------------|-------------------------|--------|
| UG-bfl 1      | 13.0           | Step 84 | 213.7               | 0.0                 | 0.0                     | OK     |
| UG-tfl 1      | 13.0           | Step 84 | 205.1               | 0.0                 | 0.0                     | OK     |
| UG-w 1        | 9.5            | Step 84 | 213.9               | 0.1                 | 3.6                     | OK     |
| UG-bfl 2      | 13.0           | Step 80 | 202.2               | 0.0                 | 0.0                     | OK     |
| UG-tfl 2      | 13.0           | Step 84 | 178.7               | 0.0                 | 0.0                     | OK     |
| UG-w 2        | 9.5            | Step 84 | 214.2               | 0.3                 | 14.4                    | OK     |
| UG-bfl 3      | 12.0           | Step 84 | 213.7               | 0.0                 | 3.6                     | OK     |
| UG-bfl 4      | 12.0           | Step 84 | 213.9               | 0.1                 | 11.0                    | OK     |
| D 17-18-bfl 1 | 9.5            | Step 92 | 213.7               | 0.0                 | 0.0                     | OK     |
| D 17-18-tfl 1 | 9.5            | Step 92 | 213.8               | 0.1                 | 0.0                     | OK     |
| D 17-18-w 1   | 6.3            | Step 92 | 129.5               | 0.0                 | 0.0                     | OK     |
| V-18-bfl 1    | 9.0            | Step 80 | 127.0               | 0.0                 | 3.4                     | OK     |
| V-18-tfl 1    | 9.0            | Step 80 | 117.8               | 0.0                 | 3.5                     | OK     |
| V-18-w 1      | 6.3            | Step 80 | 75.6                | 0.0                 | 0.0                     | OK     |
| D 18-19-bfl 1 | 9.5            | Step 80 | 206.2               | 0.0                 | 0.0                     | OK     |
| D 18-19-tfl 1 | 9.5            | Step 92 | 149.8               | 0.0                 | 0.0                     | OK     |
| D 18-19-w 1   | 6.3            | Step 92 | 111.8               | 0.0                 | 0.0                     | OK     |
| M8-bfl 1      | 8.0            | Step 80 | 119.1               | 0.0                 | 4.7                     | OK     |
| M8-w 1        | 8.0            | Step 80 | 117.5               | 0.0                 | 0.0                     | OK     |
| M9-bfl 1      | 8.0            | Step 80 | 105.8               | 0.0                 | 0.0                     | OK     |
| M9-w 1        | 8.0            | Step 80 | 107.9               | 0.0                 | 3.1                     | OK     |
| M10-bfl 1     | 8.0            | Step 84 | 53.4                | 0.0                 | 0.0                     | OK     |
| M10-w 1       | 8.0            | Step 80 | 93.9                | 0.0                 | 2.9                     | OK     |
| M11-bfl 1     | 8.0            | Step 80 | 15.3                | 0.0                 | 0.0                     | OK     |
| M11-w 1       | 8.0            | Step 80 | 42.2                | 0.0                 | 3.0                     | OK     |
| SP1           | 10.0           | Step 92 | 209.5               | 0.0                 | 5.2                     | OK     |
| SP2           | 10.0           | Step 92 | 216.3               | 1.3                 | 20.7                    | OK     |
| SP3           | 11.0           | Step 80 | 82.0                | 0.0                 | 3.4                     | OK     |
| SP4           | 11.0           | Step 80 | 57.6                | 0.0                 | 3.5                     | OK     |
| SP5           | 8.0            | Step 84 | 79.5                | 0.0                 | 5.0                     | OK     |

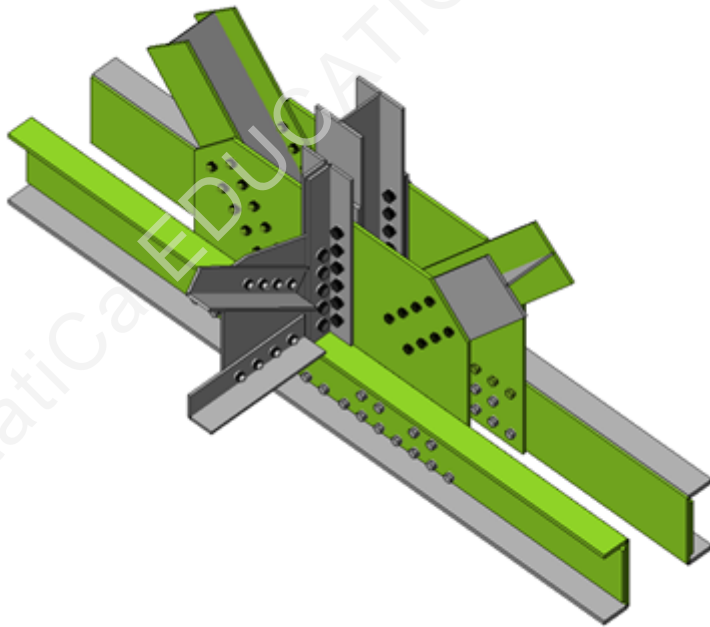
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**Design data**

| Material | $f_y$<br>[MPa] | $\epsilon_{lim}$<br>[%] |
|----------|----------------|-------------------------|
| S 235    | 235.0          | 5.0                     |

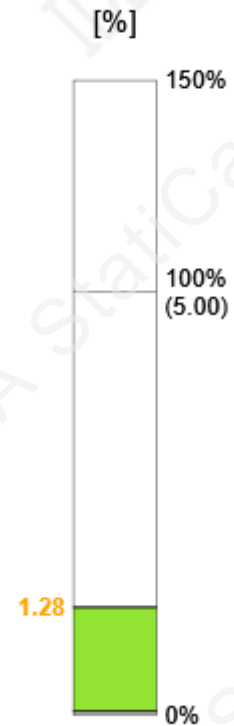
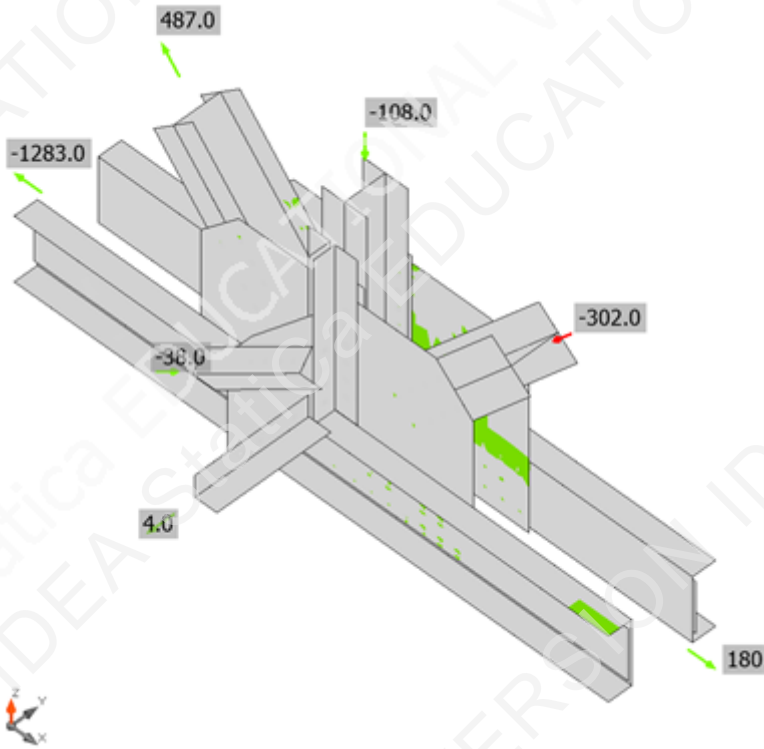
**Symbol explanation**

|                  |                         |
|------------------|-------------------------|
| $\epsilon_{pl}$  | Strain                  |
| $\sigma_{Ed}$    | Eq. stress              |
| $\sigma_{cEd}$   | Contact stress          |
| $f_y$            | Yield strength          |
| $\epsilon_{lim}$ | Limit of plastic strain |

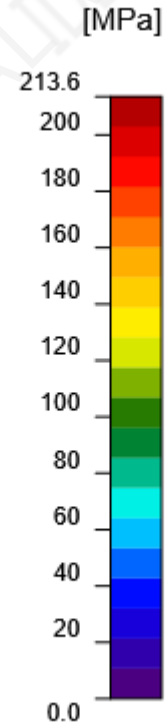
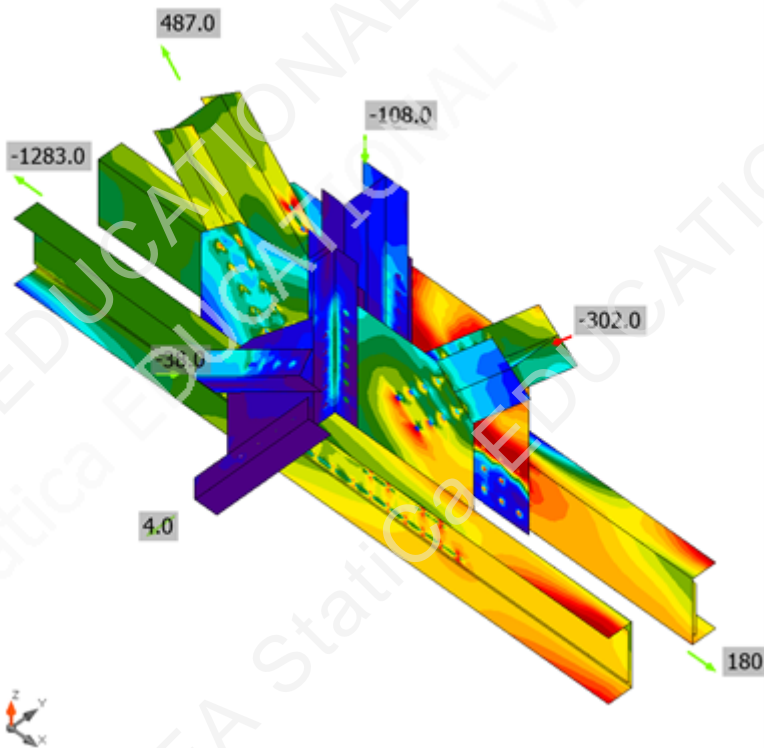


Overall check, Step 92

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Strain check, Step 92



Equivalent stress, Step 92




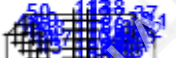

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## Bolts

|  | Name | Grade          | Loads   | F <sub>t,Ed</sub> [kN] | V [kN] | U <sub>t</sub> [%] | F <sub>b,Rd</sub> [kN] | U <sub>s</sub> [%] | U <sub>ts</sub> [%] | Status |
|--|------|----------------|---------|------------------------|--------|--------------------|------------------------|--------------------|---------------------|--------|
|  | B1   | Nagl 16 mm - 1 | Step 80 | 0.6                    | 4.8    | 1.2                | 79.1                   | 17.7               | 18.6                | OK     |
|  | B2   | Nagl 16 mm - 1 | Step 80 | 1.0                    | 3.6    | 2.1                | 108.8                  | 13.0               | 14.5                | OK     |
|  | B3   | Nagl 16 mm - 1 | Step 92 | 2.2                    | 3.6    | 4.6                | 103.4                  | 13.2               | 16.4                | OK     |
|  | B4   | Nagl 16 mm - 1 | Step 92 | 4.4                    | 4.6    | 9.0                | 106.7                  | 16.8               | 23.2                | OK     |
|  | B5   | Nagl 16 mm - 1 | Step 92 | 5.3                    | 5.5    | 10.8               | 101.4                  | 20.0               | 27.7                | OK     |
|  | B6   | Nagl 16 mm - 1 | Step 92 | 4.1                    | 6.3    | 8.4                | 101.4                  | 22.9               | 28.9                | OK     |
|  | B7   | Nagl 16 mm - 1 | Step 92 | 2.8                    | 7.0    | 5.6                | 101.4                  | 25.7               | 29.8                | OK     |
|  | B8   | Nagl 16 mm - 1 | Step 92 | 1.9                    | 7.8    | 3.8                | 101.4                  | 28.6               | 31.3                | OK     |
|  | B9   | Nagl 16 mm - 1 | Step 92 | 1.4                    | 8.7    | 2.9                | 106.7                  | 31.7               | 33.8                | OK     |
|  | B10  | Nagl 16 mm - 1 | Step 92 | 1.4                    | 9.4    | 2.9                | 101.4                  | 34.4               | 36.5                | OK     |
|  | B11  | Nagl 16 mm - 1 | Step 92 | 1.7                    | 10.2   | 3.4                | 101.4                  | 37.2               | 39.7                | OK     |
|  | B12  | Nagl 16 mm - 1 | Step 92 | 2.5                    | 11.0   | 5.0                | 101.4                  | 40.3               | 43.9                | OK     |
|  | B13  | Nagl 16 mm - 1 | Step 92 | 4.0                    | 11.9   | 8.2                | 101.4                  | 43.5               | 49.4                | OK     |
|  | B14  | Nagl 16 mm - 1 | Step 92 | 6.0                    | 12.9   | 12.2               | 101.4                  | 47.2               | 55.9                | OK     |
|  | B15  | Nagl 16 mm - 1 | Step 92 | 9.9                    | 14.1   | 20.1               | 79.1                   | 51.5               | 65.9                | OK     |
|  | B16  | Nagl 16 mm - 1 | Step 80 | 0.5                    | 3.9    | 1.1                | 79.1                   | 14.1               | 14.9                | OK     |
|  | B17  | Nagl 16 mm - 1 | Step 92 | 0.2                    | 2.8    | 0.3                | 108.8                  | 10.1               | 10.4                | OK     |
|  | B18  | Nagl 16 mm - 1 | Step 92 | 0.2                    | 3.6    | 0.4                | 103.4                  | 13.2               | 13.5                | OK     |
|  | B19  | Nagl 16 mm - 1 | Step 92 | 0.2                    | 4.5    | 0.4                | 106.7                  | 16.4               | 16.7                | OK     |
|  | B20  | Nagl 16 mm - 1 | Step 92 | 0.2                    | 5.2    | 0.4                | 101.4                  | 19.0               | 19.3                | OK     |
|  | B21  | Nagl 16 mm - 1 | Step 92 | 0.2                    | 5.9    | 0.4                | 101.4                  | 21.4               | 21.7                | OK     |
|  | B22  | Nagl 16 mm - 1 | Step 92 | 0.3                    | 6.5    | 0.6                | 101.4                  | 23.8               | 24.3                | OK     |
|  | B23  | Nagl 16 mm - 1 | Step 92 | 0.4                    | 7.2    | 0.7                | 101.4                  | 26.2               | 26.7                | OK     |
|  | B24  | Nagl 16 mm - 1 | Step 92 | 0.2                    | 7.9    | 0.5                | 106.7                  | 28.7               | 29.1                | OK     |
|  | B25  | Nagl 16 mm - 1 | Step 92 | 0.3                    | 8.4    | 0.7                | 101.4                  | 30.8               | 31.3                | OK     |
|  | B26  | Nagl 16 mm - 1 | Step 92 | 0.4                    | 9.1    | 0.8                | 101.4                  | 33.1               | 33.7                | OK     |
|  | B27  | Nagl 16 mm - 1 | Step 92 | 0.4                    | 9.7    | 0.7                | 101.4                  | 35.7               | 36.2                | OK     |
|  | B28  | Nagl 16 mm - 1 | Step 92 | 0.4                    | 10.5   | 0.8                | 101.4                  | 38.4               | 38.9                | OK     |
|  | B29  | Nagl 16 mm - 1 | Step 92 | 0.4                    | 11.4   | 0.9                | 101.4                  | 41.6               | 42.2                | OK     |
|  | B30  | Nagl 16 mm - 1 | Step 92 | 1.6                    | 12.4   | 3.2                | 79.1                   | 45.3               | 47.5                | OK     |
|  | B101 | Nagl 16 mm - 1 | Step 80 | 0.2                    | 3.0    | 0.5                | 108.8                  | 11.1               | 11.4                | OK     |
|  | B102 | Nagl 16 mm - 1 | Step 92 | 0.2                    | 5.8    | 0.5                | 106.7                  | 21.2               | 21.6                | OK     |
|  | B103 | Nagl 16 mm - 1 | Step 92 | 0.5                    | 6.6    | 1.0                | 101.4                  | 24.0               | 24.7                | OK     |
|  | B104 | Nagl 16 mm - 1 | Step 92 | 0.4                    | 8.7    | 0.8                | 106.7                  | 31.7               | 32.2                | OK     |
|  | B105 | Nagl 16 mm - 1 | Step 92 | 0.7                    | 9.4    | 1.5                | 101.4                  | 34.3               | 35.4                | OK     |
|  | B106 | Nagl 16 mm - 1 | Step 92 | 0.5                    | 10.9   | 1.0                | 106.7                  | 40.0               | 40.7                | OK     |
|  | B107 | Nagl 16 mm - 1 | Step 92 | 0.7                    | 11.9   | 1.5                | 101.4                  | 43.6               | 44.7                | OK     |
|  | B31  | Nagl 16 mm - 2 | Step 92 | 3.9                    | 21.2   | 7.9                | 101.4                  | 77.5               | 83.1                | OK     |
|  | B32  | Nagl 16 mm - 2 | Step 92 | 0.0                    | 20.8   | 0.0                | 101.4                  | 76.1               | 76.1                | OK     |
|  | B33  | Nagl 16 mm - 2 | Step 92 | 0.0                    | 20.8   | 0.0                | 101.4                  | 76.0               | 76.0                | OK     |
|  | B34  | Nagl 16 mm - 2 | Step 92 | 0.0                    | 20.9   | 0.0                | 101.4                  | 76.5               | 76.5                | OK     |






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|                                                                                     | Name | Grade          | Loads   | $F_{t,Ed}$ [kN] | V [kN] | $U_t$ [%] | $F_{b,Rd}$ [kN] | $U_s$ [%] | $U_{ts}$ [%] | Status |
|-------------------------------------------------------------------------------------|------|----------------|---------|-----------------|--------|-----------|-----------------|-----------|--------------|--------|
|    | B35  | Nagl 16 mm - 2 | Step 92 | 0.0             | 21.3   | 0.0       | 101.4           | 77.7      | 77.7         | OK     |
|                                                                                     | B36  | Nagl 16 mm - 2 | Step 92 | 3.4             | 21.9   | 7.0       | 103.4           | 80.1      | 85.1         | OK     |
|                                                                                     | B37  | Nagl 16 mm - 2 | Step 92 | 0.0             | 20.9   | 0.0       | 101.4           | 76.5      | 76.5         | OK     |
|                                                                                     | B38  | Nagl 16 mm - 2 | Step 92 | 0.0             | 20.6   | 0.0       | 101.4           | 75.4      | 75.4         | OK     |
|                                                                                     | B39  | Nagl 16 mm - 2 | Step 92 | 0.0             | 20.6   | 0.0       | 101.4           | 75.3      | 75.3         | OK     |
|                                                                                     | B40  | Nagl 16 mm - 2 | Step 92 | 0.0             | 20.7   | 0.0       | 101.4           | 75.9      | 75.8         | OK     |
|                                                                                     | B41  | Nagl 16 mm - 2 | Step 92 | 0.0             | 21.1   | 0.0       | 101.4           | 77.2      | 77.2         | OK     |
|                                                                                     | B42  | Nagl 16 mm - 2 | Step 92 | 0.0             | 21.9   | 0.0       | 103.4           | 80.2      | 80.2         | OK     |
|                                                                                     | B43  | Nagl 16 mm - 2 | Step 92 | -0.1            | 23.6   | -0.2      | 103.4           | 86.2      | 86.1         | OK     |
|                                                                                     | B44  | Nagl 16 mm - 2 | Step 92 | -0.1            | 22.3   | -0.2      | 103.4           | 81.7      | 81.6         | OK     |
|    | B45  | Nagl 16 mm - 2 | Step 92 | -0.1            | 21.5   | -0.2      | 103.4           | 78.7      | 78.5         | OK     |
|                                                                                     | B46  | Nagl 16 mm - 2 | Step 92 | -0.1            | 21.1   | -0.3      | 103.4           | 77.3      | 77.1         | OK     |
|                                                                                     | B47  | Nagl 16 mm - 2 | Step 92 | -0.1            | 22.8   | -0.2      | 103.4           | 83.6      | 83.4         | OK     |
|                                                                                     | B48  | Nagl 16 mm - 2 | Step 92 | -0.1            | 21.7   | -0.2      | 103.4           | 79.5      | 79.3         | OK     |
|                                                                                     | B49  | Nagl 16 mm - 2 | Step 92 | -0.1            | 21.0   | -0.2      | 103.4           | 76.8      | 76.6         | OK     |
|                                                                                     | B50  | Nagl 16 mm - 2 | Step 92 | -0.1            | 20.7   | -0.3      | 103.4           | 75.8      | 75.6         | OK     |
|                                                                                     | B51  | Nagl 16 mm - 1 | Step 80 | 1.7             | 5.0    | 3.5       | 79.1            | 18.3      | 20.8         | OK     |
|                                                                                     | B52  | Nagl 16 mm - 1 | Step 80 | 0.5             | 4.0    | 1.0       | 103.4           | 14.5      | 15.2         | OK     |
|                                                                                     | B53  | Nagl 16 mm - 1 | Step 92 | 1.6             | 3.0    | 3.3       | 103.4           | 11.1      | 13.5         | OK     |
|                                                                                     | B54  | Nagl 16 mm - 1 | Step 92 | 1.5             | 3.7    | 3.1       | 101.4           | 13.5      | 15.7         | OK     |
|  | B55  | Nagl 16 mm - 1 | Step 92 | 2.4             | 4.2    | 4.9       | 101.4           | 15.5      | 18.9         | OK     |
|                                                                                     | B56  | Nagl 16 mm - 1 | Step 92 | 3.3             | 4.7    | 6.7       | 101.4           | 17.4      | 22.2         | OK     |
|                                                                                     | B57  | Nagl 16 mm - 1 | Step 92 | 4.0             | 5.3    | 8.0       | 101.4           | 19.4      | 25.2         | OK     |
|                                                                                     | B58  | Nagl 16 mm - 1 | Step 92 | 1.8             | 6.0    | 3.7       | 103.4           | 21.8      | 24.4         | OK     |
|                                                                                     | B59  | Nagl 16 mm - 1 | Step 92 | 1.8             | 6.6    | 3.7       | 106.7           | 24.1      | 26.7         | OK     |
|                                                                                     | B60  | Nagl 16 mm - 1 | Step 92 | 7.1             | 7.3    | 14.4      | 106.7           | 26.5      | 36.8         | OK     |
|                                                                                     | B61  | Nagl 16 mm - 1 | Step 92 | 12.9            | 8.2    | 26.2      | 106.7           | 29.8      | 48.6         | OK     |
|                                                                                     | B62  | Nagl 16 mm - 1 | Step 92 | 16.4            | 9.3    | 33.2      | 106.7           | 33.9      | 57.6         | OK     |
|                                                                                     | B63  | Nagl 16 mm - 1 | Step 92 | 18.2            | 10.4   | 37.1      | 106.7           | 38.1      | 64.6         | OK     |
|                                                                                     | B64  | Nagl 16 mm - 1 | Step 92 | 19.8            | 11.7   | 40.2      | 106.7           | 42.9      | 71.5         | OK     |
|                                                                                     | B65  | Nagl 16 mm - 1 | Step 92 | 27.3            | 11.7   | 55.6      | 79.1            | 42.9      | 82.6         | OK     |
|                                                                                     | B66  | Nagl 16 mm - 1 | Step 80 | 0.6             | 4.6    | 1.2       | 79.1            | 16.9      | 17.7         | OK     |
|                                                                                     | B67  | Nagl 16 mm - 1 | Step 80 | 0.1             | 3.5    | 0.3       | 103.4           | 12.9      | 13.0         | OK     |
|                                                                                     | B68  | Nagl 16 mm - 1 | Step 92 | 0.2             | 2.9    | 0.4       | 103.4           | 10.7      | 11.0         | OK     |
|                                                                                     | B69  | Nagl 16 mm - 1 | Step 92 | 0.2             | 3.7    | 0.4       | 101.4           | 13.5      | 13.8         | OK     |
|                                                                                     | B70  | Nagl 16 mm - 1 | Step 92 | 0.2             | 4.4    | 0.4       | 106.7           | 15.9      | 16.2         | OK     |
|                                                                                     | B71  | Nagl 16 mm - 1 | Step 92 | 0.2             | 5.0    | 0.5       | 101.4           | 18.3      | 18.6         | OK     |
|                                                                                     | B72  | Nagl 16 mm - 1 | Step 92 | 0.3             | 5.7    | 0.6       | 106.7           | 20.7      | 21.1         | OK     |
|                                                                                     | B73  | Nagl 16 mm - 1 | Step 92 | 0.3             | 6.3    | 0.6       | 103.4           | 23.1      | 23.6         | OK     |
|                                                                                     | B74  | Nagl 16 mm - 1 | Step 92 | 0.2             | 7.1    | 0.5       | 101.4           | 25.8      | 26.2         | OK     |
|                                                                                     | B75  | Nagl 16 mm - 1 | Step 92 | 0.3             | 7.7    | 0.7       | 101.4           | 28.0      | 28.5         | OK     |
|                                                                                     | B76  | Nagl 16 mm - 1 | Step 92 | 0.4             | 8.3    | 0.8       | 101.4           | 30.5      | 31.0         | OK     |
|                                                                                     | B77  | Nagl 16 mm - 1 | Step 92 | 0.3             | 9.1    | 0.7       | 101.4           | 33.2      | 33.7         | OK     |

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Author:

|  | Name | Grade          | Loads   | F <sub>t,Ed</sub> [kN] | V [kN] | U <sub>t</sub> [%] | F <sub>b,Rd</sub> [kN] | U <sub>s</sub> [%] | U <sub>ts</sub> [%] | Status |
|--|------|----------------|---------|------------------------|--------|--------------------|------------------------|--------------------|---------------------|--------|
|  | B78  | Nagl 16 mm - 1 | Step 92 | 0.4                    | 9.9    | 0.8                | 101.4                  | 36.0               | 36.6                | OK     |
|  | B79  | Nagl 16 mm - 1 | Step 92 | 0.4                    | 10.8   | 0.8                | 101.4                  | 39.4               | 40.0                | OK     |
|  | B80  | Nagl 16 mm - 1 | Step 92 | 1.8                    | 11.8   | 3.7                | 79.1                   | 43.3               | 45.9                | OK     |
|  | B81  | Nagl 16 mm - 2 | Step 92 | 0.7                    | 20.2   | 1.5                | 101.4                  | 74.1               | 75.1                | OK     |
|  | B82  | Nagl 16 mm - 2 | Step 92 | 0.0                    | 19.8   | 0.0                | 101.4                  | 72.6               | 72.6                | OK     |
|  | B83  | Nagl 16 mm - 2 | Step 92 | 0.0                    | 19.5   | 0.0                | 101.4                  | 71.3               | 71.3                | OK     |
|  | B84  | Nagl 16 mm - 2 | Step 92 | 0.0                    | 19.2   | 0.0                | 101.4                  | 70.2               | 70.2                | OK     |
|  | B85  | Nagl 16 mm - 2 | Step 92 | 0.0                    | 19.1   | 0.0                | 101.4                  | 69.8               | 69.8                | OK     |
|  | B86  | Nagl 16 mm - 2 | Step 92 | 0.0                    | 19.4   | 0.0                | 103.4                  | 70.9               | 70.8                | OK     |
|  | B87  | Nagl 16 mm - 2 | Step 92 | 6.6                    | 20.8   | 13.4               | 101.4                  | 76.0               | 85.6                | OK     |
|  | B88  | Nagl 16 mm - 2 | Step 92 | 0.0                    | 20.0   | 0.0                | 101.4                  | 73.3               | 73.3                | OK     |
|  | B89  | Nagl 16 mm - 2 | Step 92 | 0.0                    | 19.5   | 0.0                | 101.4                  | 71.5               | 71.5                | OK     |
|  | B90  | Nagl 16 mm - 2 | Step 92 | 0.0                    | 19.1   | 0.0                | 101.4                  | 69.9               | 69.9                | OK     |
|  | B91  | Nagl 16 mm - 2 | Step 92 | 0.0                    | 18.8   | 0.0                | 101.4                  | 68.9               | 68.9                | OK     |
|  | B92  | Nagl 16 mm - 2 | Step 92 | 0.0                    | 19.0   | 0.0                | 103.4                  | 69.4               | 69.4                | OK     |
|  | B126 | Nagl 16 mm - 1 | Step 80 | 0.3                    | 3.7    | 0.6                | 103.4                  | 13.6               | 14.0                | OK     |
|  | B127 | Nagl 16 mm - 1 | Step 92 | 0.2                    | 4.7    | 0.4                | 106.7                  | 17.2               | 17.5                | OK     |
|  | B128 | Nagl 16 mm - 1 | Step 92 | 0.4                    | 5.4    | 0.9                | 108.8                  | 19.6               | 20.2                | OK     |
|  | B129 | Nagl 16 mm - 1 | Step 92 | 0.4                    | 7.3    | 0.7                | 106.7                  | 26.9               | 27.4                | OK     |
|  | B130 | Nagl 16 mm - 1 | Step 92 | 0.7                    | 8.1    | 1.5                | 108.8                  | 29.7               | 30.8                | OK     |
|  | B131 | Nagl 16 mm - 1 | Step 92 | 0.6                    | 9.9    | 1.1                | 106.7                  | 36.2               | 37.0                | OK     |
|  | B132 | Nagl 16 mm - 1 | Step 92 | 0.8                    | 11.0   | 1.7                | 103.4                  | 40.4               | 41.6                | OK     |
|  | B93  | Nagl 16 mm - 2 | Step 92 | 12.3                   | 18.2   | 25.0               | 103.4                  | 66.6               | 84.4                | OK     |
|  | B94  | Nagl 16 mm - 2 | Step 92 | 0.0                    | 17.7   | 0.0                | 103.4                  | 64.6               | 64.5                | OK     |
|  | B95  | Nagl 16 mm - 2 | Step 92 | 0.0                    | 17.0   | -0.1               | 103.4                  | 62.0               | 61.9                | OK     |
|  | B96  | Nagl 16 mm - 2 | Step 92 | -0.1                   | 16.5   | -0.2               | 103.4                  | 60.3               | 60.2                | OK     |
|  | B97  | Nagl 16 mm - 2 | Step 92 | 14.3                   | 17.3   | 29.0               | 103.4                  | 63.3               | 84.0                | OK     |
|  | B98  | Nagl 16 mm - 2 | Step 92 | 0.0                    | 17.0   | 0.0                | 103.4                  | 62.3               | 62.3                | OK     |
|  | B99  | Nagl 16 mm - 2 | Step 92 | 0.0                    | 16.4   | -0.1               | 103.4                  | 60.1               | 60.1                | OK     |
|  | B100 | Nagl 16 mm - 2 | Step 92 | -0.1                   | 16.1   | -0.2               | 103.4                  | 58.9               | 58.8                | OK     |
|  | B108 | Nagl 19mm - 3  | Step 80 | -2.9                   | 9.5    | -4.2               | 92.3                   | 24.6               | 21.6                | OK     |
|  | B109 | Nagl 19mm - 3  | Step 80 | -2.9                   | 8.7    | -4.2               | 102.6                  | 22.7               | 19.7                | OK     |
|  | B110 | Nagl 19mm - 3  | Step 80 | -2.9                   | 8.6    | -4.2               | 102.6                  | 22.3               | 19.2                | OK     |
|  | B111 | Nagl 19mm - 3  | Step 80 | -2.9                   | 8.9    | -4.2               | 102.6                  | 23.1               | 20.1                | OK     |
|  | B112 | Nagl 19mm - 3  | Step 80 | -2.9                   | 9.3    | -4.2               | 102.6                  | 24.3               | 21.2                | OK     |
|  | B113 | Nagl 19mm - 3  | Step 80 | -2.9                   | 9.9    | -4.2               | 102.6                  | 25.8               | 22.8                | OK     |
|  | B114 | Nagl 19mm - 4  | Step 80 | -2.9                   | 10.5   | -4.2               | 92.3                   | 27.3               | 24.3                | OK     |
|  | B115 | Nagl 19mm - 4  | Step 80 | -2.9                   | 10.5   | -4.2               | 92.3                   | 27.2               | 24.2                | OK     |
|  | B116 | Nagl 19mm - 4  | Step 80 | -2.9                   | 10.7   | -4.2               | 92.3                   | 27.9               | 24.9                | OK     |
|  | B117 | Nagl 19mm - 4  | Step 80 | -2.9                   | 11.2   | -4.2               | 92.3                   | 29.2               | 26.1                | OK     |
|  | B118 | Nagl 19mm - 4  | Step 80 | -2.9                   | 11.9   | -4.2               | 92.3                   | 30.9               | 27.8                | OK     |
|  | B119 | Nagl 19mm - 4  | Step 80 | -2.9                   | 12.8   | -4.2               | 102.6                  | 33.2               | 30.2                | OK     |
|  | B120 | Nagl 19mm - 4  | Step 80 | -2.9                   | 12.6   | -4.2               | 92.3                   | 32.7               | 29.7                | OK     |

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|                                                                                     | Name | Grade          | Loads   | $F_{t,Ed}$ [kN] | V [kN] | $U_t$ [%] | $F_{b,Rd}$ [kN] | $U_s$ [%] | $U_{ts}$ [%] | Status |
|-------------------------------------------------------------------------------------|------|----------------|---------|-----------------|--------|-----------|-----------------|-----------|--------------|--------|
|                                                                                     | B121 | Nagl 19mm - 4  | Step 80 | -2.9            | 12.3   | -4.2      | 102.6           | 31.9      | 28.9         | OK     |
|                                                                                     | B122 | Nagl 19mm - 4  | Step 80 | -2.9            | 12.0   | -4.2      | 102.6           | 31.2      | 28.2         | OK     |
|                                                                                     | B123 | Nagl 19mm - 4  | Step 80 | -2.9            | 11.8   | -4.2      | 92.3            | 30.7      | 27.6         | OK     |
|                                                                                     | B124 | Nagl 19mm - 4  | Step 80 | -2.9            | 11.8   | -4.2      | 92.3            | 30.5      | 27.5         | OK     |
|                                                                                     | B125 | Nagl 19mm - 4  | Step 80 | -2.9            | 12.4   | -4.2      | 102.6           | 32.3      | 29.3         | OK     |
|    | B133 | Nagl 19mm - 3  | Step 80 | -2.9            | 10.1   | -4.2      | 92.3            | 26.4      | 23.3         | OK     |
|                                                                                     | B134 | Nagl 19mm - 3  | Step 80 | -2.9            | 9.7    | -4.2      | 102.6           | 25.1      | 22.1         | OK     |
|                                                                                     | B135 | Nagl 19mm - 3  | Step 80 | -2.9            | 9.5    | -4.2      | 102.6           | 24.6      | 21.6         | OK     |
|                                                                                     | B136 | Nagl 19mm - 3  | Step 80 | -2.9            | 9.4    | -4.2      | 102.6           | 24.4      | 21.4         | OK     |
|                                                                                     | B137 | Nagl 19mm - 3  | Step 80 | -2.9            | 9.7    | -4.2      | 102.6           | 25.2      | 22.2         | OK     |
|                                                                                     | B138 | Nagl 19mm - 3  | Step 80 | -2.9            | 10.4   | -4.2      | 102.6           | 26.9      | 23.9         | OK     |
|    | B139 | Nagl 19mm - 3  | Step 80 | 1.9             | 2.9    | 2.7       | 103.4           | 7.5       | 9.5          | OK     |
|                                                                                     | B140 | Nagl 19mm - 3  | Step 80 | 0.7             | 3.5    | 1.0       | 103.4           | 9.1       | 9.8          | OK     |
|                                                                                     | B141 | Nagl 19mm - 3  | Step 80 | 0.3             | 4.2    | 0.5       | 103.4           | 10.9      | 11.2         | OK     |
|                                                                                     | B142 | Nagl 19mm - 3  | Step 80 | 0.2             | 4.9    | 0.3       | 103.4           | 12.7      | 12.8         | OK     |
|                                                                                     | B143 | Nagl 19mm - 3  | Step 92 | 0.2             | 5.6    | 0.3       | 103.4           | 14.6      | 14.8         | OK     |
|  | B144 | Nagl 16 mm - 5 | Step 80 | 1.3             | 9.5    | 2.7       | 85.4            | 34.7      | 36.6         | OK     |
|                                                                                     | B145 | Nagl 16 mm - 5 | Step 84 | 1.0             | 9.3    | 2.1       | 85.4            | 34.1      | 35.6         | OK     |
|                                                                                     | B146 | Nagl 16 mm - 5 | Step 84 | 0.6             | 9.5    | 1.3       | 85.4            | 34.6      | 35.5         | OK     |
|                                                                                     | B147 | Nagl 16 mm - 5 | Step 80 | 0.3             | 9.9    | 0.7       | 85.4            | 36.2      | 36.7         | OK     |
|                                                                                     | B148 | Nagl 16 mm - 5 | Step 80 | 0.3             | 1.8    | 0.6       | 76.5            | 6.5       | 7.0          | OK     |
|                                                                                     | B149 | Nagl 16 mm - 5 | Step 80 | 0.1             | 1.1    | 0.2       | 87.0            | 4.0       | 4.2          | OK     |
|                                                                                     | B150 | Nagl 16 mm - 5 | Step 80 | 0.1             | 1.1    | 0.3       | 75.5            | 4.0       | 4.2          | OK     |
|                                                                                     | B151 | Nagl 16 mm - 5 | Step 80 | 0.3             | 1.9    | 0.6       | 61.1            | 6.9       | 7.3          | OK     |

#### Design data

| Name           | $F_{t,Rd}$ [kN] | $B_{p,Rd}$ [kN] | $F_{v,Rd}$ [kN] |
|----------------|-----------------|-----------------|-----------------|
| Nagl 16 mm - 1 | 49.2            | 135.7           | 27.3            |
| Nagl 16 mm - 2 | 49.2            | 128.9           | 27.3            |
| Nagl 19mm - 3  | 69.3            | 139.0           | 38.5            |
| Nagl 19mm - 4  | 69.3            | 156.3           | 38.5            |
| Nagl 16 mm - 5 | 49.2            | 108.6           | 27.3            |

#### Symbol explanation

|            |                                                 |
|------------|-------------------------------------------------|
| $F_{t,Rd}$ | Bolt tension resistance EN 1993-1-8 tab. 3.4    |
| $F_{t,Ed}$ | Tension force                                   |
| $B_{p,Rd}$ | Punching shear resistance                       |
| V          | Resultant of shear forces $V_y$ , $V_z$ in bolt |
| $F_{v,Rd}$ | Bolt shear resistance EN_1993-1-8 table 3.4     |
| $F_{b,Rd}$ | Plate bearing resistance EN 1993-1-8 tab. 3.4   |
| $U_t$      | Utilization in tension                          |
| $U_s$      | Utilization in shear                            |

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## Buckling

Buckling analysis was not calculated.

## Code settings

| Item                                            | Value                  | Unit | Reference                                                  |
|-------------------------------------------------|------------------------|------|------------------------------------------------------------|
| Y <sub>M0</sub>                                 | 1.10                   | -    | EN 1993-1-1: 6.1                                           |
| Y <sub>M1</sub>                                 | 1.20                   | -    | EN 1993-1-1: 6.1                                           |
| Y <sub>M2</sub>                                 | 1.25                   | -    | EN 1993-1-1: 6.1                                           |
| Y <sub>M3</sub>                                 | 1.25                   | -    | EN 1993-1-8: 2.2                                           |
| Y <sub>C</sub>                                  | 1.40                   | -    | EN 1992-1-1: 2.4.2.4                                       |
| Y <sub>Inst</sub>                               | 1.20                   | -    | EN 1992-4: Table 4.1                                       |
| Joint coefficient β <sub>j</sub>                | 0.67                   | -    | EN 1993-1-8: 6.2.5                                         |
| Effective area - influence of mesh size         | 0.10                   | -    |                                                            |
| Friction coefficient - concrete                 | 0.25                   | -    | EN 1993-1-8                                                |
| Friction coefficient in slip-resistance         | 0.30                   | -    | EN 1993-1-8 tab 3.7                                        |
| Limit plastic strain                            | 0.05                   | -    | EN 1993-1-5                                                |
| Weld stress evaluation                          | Plastic redistribution |      |                                                            |
| Detailing                                       | No                     |      |                                                            |
| Distance between bolts [d]                      | 2.20                   | -    | EN 1993-1-8: tab 3.3                                       |
| Distance between bolts and edge [d]             | 1.00                   | -    | EN 1993-1-8: tab 3.3                                       |
| Concrete breakout resistance check              | Both                   |      | EN 1992-4: 7.2.1.4 and 7.2.2.5                             |
| Use calculated a <sub>b</sub> in bearing check. | Yes                    |      | EN 1993-1-8: tab 3.4                                       |
| Cracked concrete                                | Yes                    |      | EN 1992-4                                                  |
| Local deformation check                         | No                     |      | CIDECT DG 1, 3 - 1.1                                       |
| Local deformation limit                         | 0.03                   | -    | CIDECT DG 1, 3 - 1.1                                       |
| Geometrical nonlinearity (GMNA)                 | No                     |      | Analysis with large deformations for hollow section joints |
| Braced system                                   | No                     |      | EN 1993-1-8: 5.2.2.5                                       |

## Vedlegg J.2: Knutepunkt 22

**Project:**  
**Project no:**  
**Author:**

## Project data

Project name  
Project number  
Author  
Description  
Date 4/15/2021  
Design code EN

## Material

Steel S 235, S 355  
Concrete C25/30

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 Project no:  
 Author:

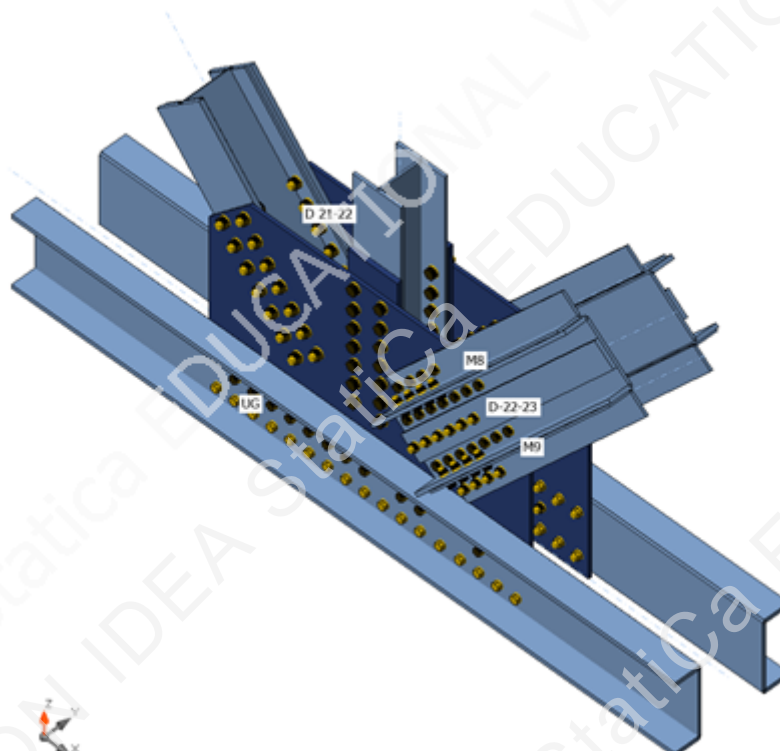
## Project item Knutepunkt 22

### Design

Name Knutepunkt 22  
 Description Høyt belastet staver,ferdig?  
 Analysis Stress, strain/ loads in equilibrium

### Beams and columns

| Name    | Cross-section                  | $\beta$ - Direction [°] | $\gamma$ - Pitch [°] | $\alpha$ - Rotation [°] | Offset ex [mm] | Offset ey [mm] | Offset ez [mm] | Forces in |
|---------|--------------------------------|-------------------------|----------------------|-------------------------|----------------|----------------|----------------|-----------|
| UG      | 9 - 2UG-1(U240)<br>(2Uo(U240)) | 0.0                     | 0.0                  | 180.0                   | 0              | 120            | 0              | Node      |
| D-22-23 | 15 - D-12(General)             | 0.0                     | -50.0                | 0.0                     | 240            | -121           | 0              | Node      |
| V-18    | 12 - V-3(I150)                 | 0.0                     | -90.0                | 90.0                    | -110           | 0              | 121            | Node      |
| D 21-22 | 14 - D-14(General)             | 180.0                   | -49.0                | 90.0                    | 200            | 0              | -121           | Node      |
| M8      | 29 - 2Lt(L75X8)                | 0.0                     | -50.0                | 0.0                     | 300            | -120           | 120            | Node      |
| M9      | 29 - 2Lt(L75X8)                | 0.0                     | -50.0                | 180.0                   | 300            | 120            | 120            | Node      |





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Author:

## Cross-sections

| Name                           | Material                          |
|--------------------------------|-----------------------------------|
| 9 - 2UG-1(U240)<br>(2Uo(U240)) | S 235                             |
| 15 - D-12(General)             | S 235, S 235, S 235, S 235        |
| 12 - V-3(I150)                 | S 235                             |
| 14 - D-14(General)             | S 235, S 235, S 235, S 235, S 235 |
| 29 - 2Lt(L75X8)                | S 235                             |

## Bolts

| Name       | Bolt assembly | Diameter<br>[mm] | fu<br>[MPa] | Gross area<br>[mm <sup>2</sup> ] |
|------------|---------------|------------------|-------------|----------------------------------|
| Nagl 16 mm | Nagl 16 mm    | 16               | 340.0       | 201                              |
| Nagl 19mm  | Nagl 19mm     | 19               | 340.0       | 283                              |

## Load effects (forces in equilibrium)

| Name    | Member  | N<br>[kN] | Vy<br>[kN] | Vz<br>[kN] | Mx<br>[kNm] | My<br>[kNm] | Mz<br>[kNm] |
|---------|---------|-----------|------------|------------|-------------|-------------|-------------|
| Step 94 | UG      | 444.0     | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |
|         | D-22-23 | 999.0     | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |
|         | V-18    | -251.0    | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |
|         | D 21-22 | -628.0    | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |
|         | UG      | -1489.0   | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |
|         | M8      | 0.0       | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |
|         | M9      | 0.0       | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |
| Step 83 | UG      | 114.0     | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |
|         | D-22-23 | 1121.0    | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |
|         | V-18    | -108.0    | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |
|         | D 21-22 | -958.0    | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |
|         | UG      | -1450.0   | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |
|         | M8      | 0.0       | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |
|         | M9      | 0.0       | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |
| Step 88 | UG      | 302.0     | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |
|         | D-22-23 | 1160.0    | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |
|         | V-18    | -209.0    | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |
|         | D 21-22 | -849.0    | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |
|         | UG      | -1594.0   | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |
|         | M8      | 0.0       | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |
|         | M9      | 0.0       | 0.0        | 0.0        | 0.0         | 0.0         | 0.0         |

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## Check

### Summary

| Name     | Value          | Status |
|----------|----------------|--------|
| Analysis | 100.0%         | OK     |
| Plates   | 1.3 < 5.0%     | OK     |
| Bolts    | 99.2 < 100%    | OK     |
| Buckling | Not calculated |        |

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Author:

## Plates

| Name          | Thickness [mm] | Loads   | $\sigma_{Ed}$ [MPa] | $\epsilon_{PI}$ [%] | $\sigma_{CEd}$ [MPa] | Status |
|---------------|----------------|---------|---------------------|---------------------|----------------------|--------|
| UG-bfl 1      | 13.0           | Step 88 | 213.8               | 0.1                 | 0.0                  | OK     |
| UG-tfl 1      | 13.0           | Step 88 | 214.3               | 0.3                 | 0.0                  | OK     |
| UG-w 1        | 9.5            | Step 88 | 216.0               | 1.1                 | 14.6                 | OK     |
| UG-bfl 2      | 13.0           | Step 88 | 214.3               | 0.3                 | 0.0                  | OK     |
| UG-tfl 2      | 13.0           | Step 88 | 213.8               | 0.1                 | 0.0                  | OK     |
| UG-w 2        | 9.5            | Step 88 | 216.4               | 1.3                 | 14.8                 | OK     |
| D-22-23-bfl 1 | 12.0           | Step 83 | 173.1               | 0.0                 | 14.4                 | OK     |
| D-22-23-tfl 1 | 12.0           | Step 88 | 209.0               | 0.0                 | 19.2                 | OK     |
| D-22-23-w 1   | 8.5            | Step 88 | 214.2               | 0.3                 | 19.2                 | OK     |
| D-22-23-bfl 2 | 12.0           | Step 88 | 210.7               | 0.0                 | 23.8                 | OK     |
| D-22-23-tfl 2 | 12.0           | Step 83 | 171.8               | 0.0                 | 16.6                 | OK     |
| D-22-23-w 2   | 8.5            | Step 88 | 214.4               | 0.4                 | 23.8                 | OK     |
| D-22-23-bfl 3 | 12.0           | Step 88 | 213.7               | 0.0                 | 4.6                  | OK     |
| D-22-23-bfl 4 | 12.0           | Step 88 | 212.2               | 0.0                 | 5.8                  | OK     |
| V-18-bfl 1    | 9.0            | Step 88 | 132.8               | 0.0                 | 4.9                  | OK     |
| V-18-tfl 1    | 9.0            | Step 88 | 127.9               | 0.0                 | 5.2                  | OK     |
| V-18-w 1      | 6.3            | Step 94 | 70.9                | 0.0                 | 0.0                  | OK     |
| D 21-22-bfl 1 | 14.0           | Step 83 | 166.9               | 0.0                 | 9.0                  | OK     |
| D 21-22-tfl 1 | 14.0           | Step 83 | 171.4               | 0.0                 | 10.7                 | OK     |
| D 21-22-w 1   | 10.0           | Step 83 | 113.2               | 0.0                 | 0.0                  | OK     |
| D 21-22-bfl 2 | 8.0            | Step 83 | 116.1               | 0.0                 | 4.2                  | OK     |
| D 21-22-bfl 3 | 8.0            | Step 83 | 124.4               | 0.0                 | 3.7                  | OK     |
| D 21-22-bfl 4 | 8.0            | Step 83 | 121.1               | 0.0                 | 4.8                  | OK     |
| D 21-22-bfl 5 | 8.0            | Step 83 | 128.4               | 0.0                 | 4.3                  | OK     |
| M8-bfl 1      | 8.0            | Step 88 | 126.9               | 0.0                 | 23.8                 | OK     |
| M8-w 1        | 8.0            | Step 88 | 140.6               | 0.0                 | 23.8                 | OK     |
| M8-bfl 2      | 8.0            | Step 88 | 123.5               | 0.0                 | 19.2                 | OK     |
| M8-w 2        | 8.0            | Step 88 | 132.6               | 0.0                 | 19.2                 | OK     |
| M9-bfl 1      | 8.0            | Step 88 | 104.2               | 0.0                 | 14.2                 | OK     |
| M9-w 1        | 8.0            | Step 88 | 112.1               | 0.0                 | 14.2                 | OK     |
| M9-bfl 2      | 8.0            | Step 88 | 113.9               | 0.0                 | 16.1                 | OK     |
| M9-w 2        | 8.0            | Step 88 | 119.3               | 0.0                 | 16.1                 | OK     |
| SP1           | 10.0           | Step 88 | 214.5               | 0.4                 | 14.6                 | OK     |
| SP2           | 10.0           | Step 88 | 214.3               | 0.3                 | 14.8                 | OK     |
| SP3           | 15.0           | Step 88 | 55.9                | 0.0                 | 9.1                  | OK     |
| SP4           | 15.0           | Step 88 | 57.1                | 0.0                 | 9.1                  | OK     |

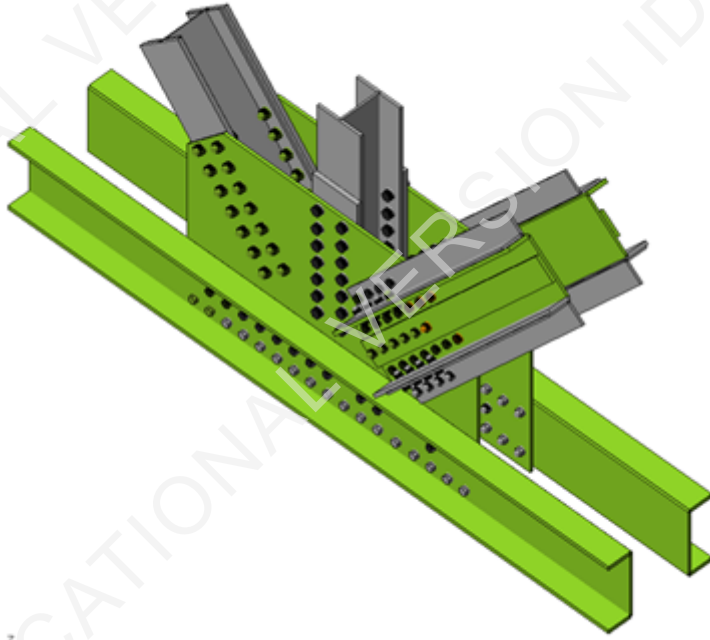
## Design data

| Material | $f_y$ [MPa] | $\epsilon_{lim}$ [%] |
|----------|-------------|----------------------|
| S 235    | 235.0       | 5.0                  |

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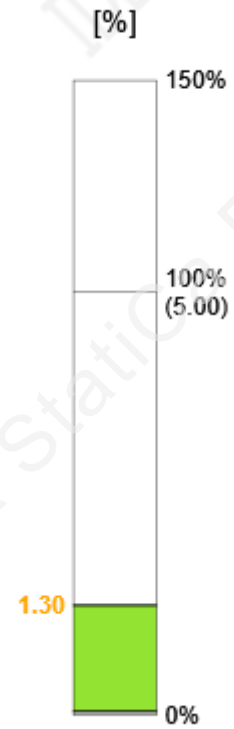
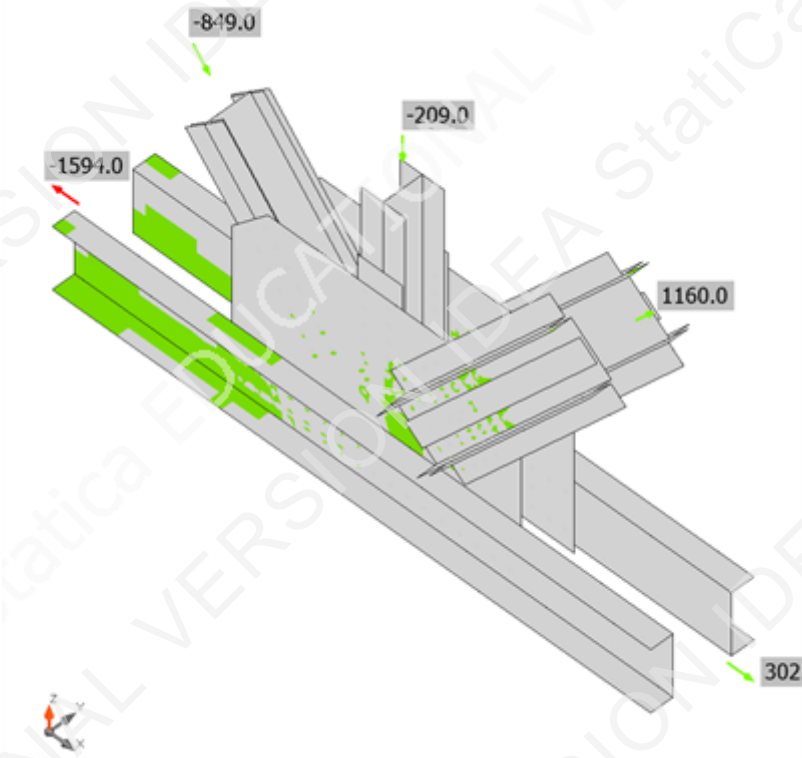
**Symbol explanation**

|                  |                         |
|------------------|-------------------------|
| $\epsilon_{PI}$  | Strain                  |
| $\sigma_{Ed}$    | Eq. stress              |
| $\sigma_{cEd}$   | Contact stress          |
| $f_y$            | Yield strength          |
| $\epsilon_{lim}$ | Limit of plastic strain |

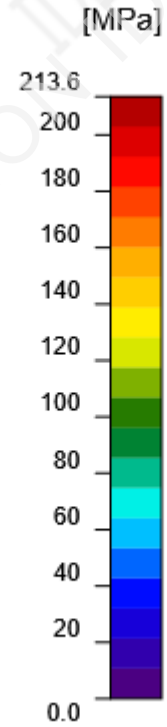
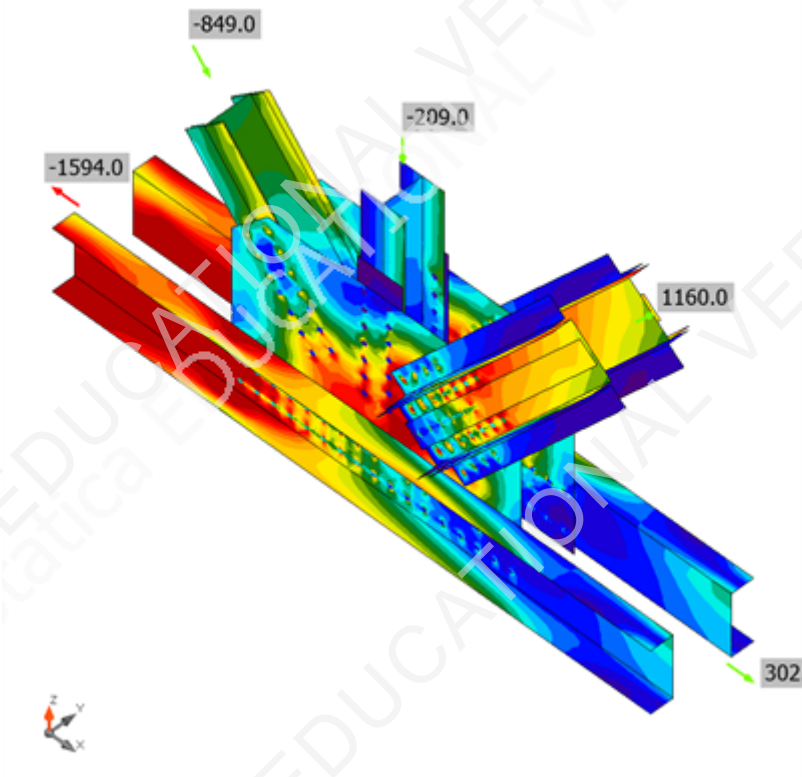


Overall check, Step 88

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Strain check, Step 88



Equivalent stress, Step 88



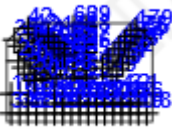
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Author:

**Bolts**



| Name | Grade          | Loads   | $F_{t,Ed}$ [kN] | V [kN] | $U_{t_t}$ [%] | $F_{b,Rd}$ [kN] | $U_{t_s}$ [%] | $U_{t_{ts}}$ [%] | Status |
|------|----------------|---------|-----------------|--------|---------------|-----------------|---------------|------------------|--------|
| B1   | Nagl 16 mm - 1 | Step 88 | 6.1             | 22.9   | 12.3          | 90.4            | 83.9          | 92.7             | OK     |
| B2   | Nagl 16 mm - 1 | Step 88 | 1.4             | 20.2   | 2.9           | 101.4           | 73.9          | 76.0             | OK     |
| B3   | Nagl 16 mm - 1 | Step 88 | 0.4             | 18.7   | 0.7           | 101.4           | 68.3          | 68.8             | OK     |
| B4   | Nagl 16 mm - 1 | Step 83 | 0.2             | 17.7   | 0.5           | 101.4           | 64.8          | 65.2             | OK     |
| B5   | Nagl 16 mm - 1 | Step 83 | 0.0             | 17.0   | 0.1           | 101.4           | 62.1          | 62.2             | OK     |
| B6   | Nagl 16 mm - 1 | Step 83 | 1.2             | 16.4   | 2.3           | 101.4           | 60.0          | 61.7             | OK     |
| B7   | Nagl 16 mm - 1 | Step 83 | 4.0             | 15.9   | 8.2           | 101.4           | 58.1          | 63.9             | OK     |
| B8   | Nagl 16 mm - 1 | Step 83 | 7.0             | 15.4   | 14.1          | 101.4           | 56.3          | 66.3             | OK     |
| B9   | Nagl 16 mm - 1 | Step 83 | 7.6             | 15.0   | 15.5          | 101.4           | 54.7          | 65.8             | OK     |
| B10  | Nagl 16 mm - 1 | Step 83 | 5.7             | 14.7   | 11.6          | 101.4           | 53.6          | 61.9             | OK     |
| B11  | Nagl 16 mm - 1 | Step 83 | 1.8             | 14.4   | 3.6           | 101.4           | 52.8          | 55.4             | OK     |
| B12  | Nagl 16 mm - 1 | Step 83 | 0.8             | 14.4   | 1.6           | 103.4           | 52.7          | 53.9             | OK     |
| B13  | Nagl 16 mm - 1 | Step 83 | 1.0             | 14.4   | 1.9           | 103.4           | 52.6          | 54.0             | OK     |
| B14  | Nagl 16 mm - 1 | Step 83 | 0.1             | 14.3   | 0.3           | 101.4           | 52.3          | 52.5             | OK     |
| B15  | Nagl 16 mm - 1 | Step 83 | 1.1             | 14.2   | 2.2           | 101.4           | 52.1          | 53.6             | OK     |
| B16  | Nagl 16 mm - 1 | Step 83 | 1.8             | 14.2   | 3.6           | 101.4           | 52.1          | 54.6             | OK     |
| B17  | Nagl 16 mm - 1 | Step 83 | 1.5             | 14.3   | 3.1           | 103.4           | 52.3          | 54.6             | OK     |
| B18  | Nagl 16 mm - 1 | Step 88 | 6.9             | 19.9   | 14.0          | 90.4            | 72.6          | 82.6             | OK     |
| B19  | Nagl 16 mm - 1 | Step 83 | 0.9             | 17.6   | 1.8           | 101.4           | 64.2          | 65.5             | OK     |
| B20  | Nagl 16 mm - 1 | Step 83 | 0.2             | 16.4   | 0.4           | 101.4           | 59.9          | 60.1             | OK     |
| B21  | Nagl 16 mm - 1 | Step 83 | 0.2             | 15.5   | 0.4           | 101.4           | 56.7          | 56.9             | OK     |
| B22  | Nagl 16 mm - 1 | Step 83 | 0.1             | 14.8   | 0.2           | 101.4           | 54.2          | 54.3             | OK     |
| B23  | Nagl 16 mm - 1 | Step 83 | 0.2             | 14.3   | 0.3           | 101.4           | 52.4          | 52.6             | OK     |
| B24  | Nagl 16 mm - 1 | Step 83 | 0.2             | 14.0   | 0.4           | 101.4           | 51.0          | 51.3             | OK     |
| B25  | Nagl 16 mm - 1 | Step 83 | 0.2             | 13.7   | 0.4           | 101.4           | 49.9          | 50.2             | OK     |
| B26  | Nagl 16 mm - 1 | Step 83 | 0.2             | 13.4   | 0.3           | 101.4           | 49.1          | 49.3             | OK     |
| B27  | Nagl 16 mm - 1 | Step 83 | 0.2             | 13.2   | 0.4           | 101.4           | 48.4          | 48.7             | OK     |
| B28  | Nagl 16 mm - 1 | Step 83 | 0.2             | 13.0   | 0.4           | 101.4           | 47.5          | 47.7             | OK     |
| B29  | Nagl 16 mm - 1 | Step 83 | 0.1             | 12.8   | 0.3           | 103.4           | 46.7          | 46.9             | OK     |
| B30  | Nagl 16 mm - 1 | Step 83 | 0.3             | 12.6   | 0.6           | 103.4           | 46.0          | 46.4             | OK     |
| B31  | Nagl 16 mm - 1 | Step 83 | 0.2             | 12.3   | 0.5           | 101.4           | 45.0          | 45.3             | OK     |
| B32  | Nagl 16 mm - 1 | Step 83 | 0.1             | 12.1   | 0.3           | 101.4           | 44.1          | 44.3             | OK     |
| B33  | Nagl 16 mm - 1 | Step 83 | 0.3             | 12.0   | 0.6           | 101.4           | 43.9          | 44.3             | OK     |
| B34  | Nagl 16 mm - 1 | Step 83 | 0.7             | 12.1   | 1.3           | 103.4           | 44.1          | 45.1             | OK     |
| B76  | Nagl 16 mm - 1 | Step 88 | 2.9             | 17.9   | 5.8           | 101.4           | 65.3          | 69.5             | OK     |
| B77  | Nagl 16 mm - 1 | Step 83 | 0.5             | 17.0   | 1.0           | 101.4           | 62.0          | 62.7             | OK     |
| B78  | Nagl 16 mm - 1 | Step 83 | 0.4             | 16.1   | 0.9           | 101.4           | 58.8          | 59.5             | OK     |
| B79  | Nagl 16 mm - 1 | Step 83 | 0.4             | 15.4   | 0.7           | 101.4           | 56.3          | 56.9             | OK     |
| B80  | Nagl 16 mm - 1 | Step 83 | 0.4             | 14.9   | 0.7           | 101.4           | 54.4          | 54.9             | OK     |
| B81  | Nagl 16 mm - 1 | Step 83 | 0.3             | 14.4   | 0.7           | 101.4           | 52.8          | 53.3             | OK     |
| B82  | Nagl 16 mm - 1 | Step 83 | 0.2             | 14.0   | 0.3           | 101.4           | 51.4          | 51.6             | OK     |

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|                                                                                     | Name           | Grade          | Loads   | F <sub>t,Ed</sub> [kN] | V [kN] | U <sub>t</sub> [%] | F <sub>b,Rd</sub> [kN] | U <sub>s</sub> [%] | U <sub>ts</sub> [%] | Status |
|-------------------------------------------------------------------------------------|----------------|----------------|---------|------------------------|--------|--------------------|------------------------|--------------------|---------------------|--------|
|                                                                                     | B83            | Nagl 16 mm - 1 | Step 83 | 0.2                    | 13.8   | 0.4                | 103.4                  | 50.4               | 50.7                | OK     |
|                                                                                     | B84            | Nagl 16 mm - 1 | Step 83 | 0.1                    | 13.4   | 0.3                | 101.4                  | 48.8               | 49.0                | OK     |
|                                                                                     | B85            | Nagl 16 mm - 1 | Step 83 | 0.2                    | 13.2   | 0.5                | 103.4                  | 48.3               | 48.6                | OK     |
|                                                                                     | B86            | Nagl 16 mm - 1 | Step 83 | 0.3                    | 12.8   | 0.7                | 103.4                  | 46.9               | 47.3                | OK     |
|    | B35            | Nagl 16 mm - 2 | Step 83 | 5.7                    | 24.1   | 11.5               | 66.3                   | 88.0               | 96.3                | OK     |
|                                                                                     | B36            | Nagl 16 mm - 2 | Step 88 | 1.7                    | 25.0   | 3.5                | 90.7                   | 91.3               | 93.8                | OK     |
|                                                                                     | B37            | Nagl 16 mm - 2 | Step 88 | 1.2                    | 24.0   | 2.4                | 90.7                   | 87.8               | 89.6                | OK     |
|                                                                                     | B38            | Nagl 16 mm - 2 | Step 88 | 1.1                    | 23.5   | 2.2                | 90.7                   | 85.9               | 87.5                | OK     |
|                                                                                     | B39            | Nagl 16 mm - 2 | Step 88 | 1.1                    | 23.4   | 2.2                | 90.7                   | 85.5               | 87.0                | OK     |
|                                                                                     | B40            | Nagl 16 mm - 2 | Step 88 | 0.3                    | 23.7   | 0.5                | 90.7                   | 86.6               | 87.0                | OK     |
|                                                                                     | B41            | Nagl 16 mm - 2 | Step 94 | 11.9                   | 20.5   | 24.2               | 92.5                   | 74.9               | 92.2                | OK     |
|                                                                                     | B42            | Nagl 16 mm - 2 | Step 88 | 5.3                    | 24.3   | 10.8               | 85.8                   | 88.8               | 96.5                | OK     |
|                                                                                     | B43            | Nagl 16 mm - 2 | Step 88 | 1.5                    | 26.4   | 3.1                | 90.7                   | 96.7               | 98.9                | OK     |
|                                                                                     | B44            | Nagl 16 mm - 2 | Step 88 | 1.6                    | 25.7   | 3.3                | 90.7                   | 94.1               | 96.5                | OK     |
|                                                                                     | B45            | Nagl 16 mm - 2 | Step 88 | 1.2                    | 25.1   | 2.4                | 90.7                   | 91.7               | 93.5                | OK     |
|                                                                                     | B46            | Nagl 16 mm - 2 | Step 88 | 1.2                    | 24.9   | 2.4                | 90.7                   | 91.2               | 92.9                | OK     |
|                                                                                     | B47            | Nagl 16 mm - 2 | Step 88 | 1.0                    | 25.3   | 2.0                | 90.7                   | 92.4               | 93.8                | OK     |
| B48                                                                                 | Nagl 16 mm - 2 | Step 83        | 13.4    | 19.7                   | 27.3   | 92.5               | 72.0                   | 91.5               | OK                  |        |
|  | B49            | Nagl 19mm - 3  | Step 83 | 5.1                    | 34.7   | 7.4                | 129.2                  | 90.2               | 95.4                | OK     |
|                                                                                     | B50            | Nagl 19mm - 3  | Step 83 | 1.7                    | 33.9   | 2.5                | 102.6                  | 88.1               | 89.9                | OK     |
|                                                                                     | B51            | Nagl 19mm - 3  | Step 83 | 1.7                    | 33.4   | 2.4                | 102.6                  | 86.8               | 88.5                | OK     |
|                                                                                     | B52            | Nagl 19mm - 3  | Step 83 | 1.6                    | 33.2   | 2.3                | 102.6                  | 86.4               | 88.0                | OK     |
|                                                                                     | B53            | Nagl 19mm - 3  | Step 83 | 1.5                    | 33.5   | 2.2                | 102.6                  | 86.9               | 88.5                | OK     |
|                                                                                     | B54            | Nagl 19mm - 3  | Step 83 | 1.4                    | 34.0   | 2.1                | 102.6                  | 88.3               | 89.8                | OK     |
|                                                                                     | B55            | Nagl 19mm - 3  | Step 83 | 2.1                    | 34.9   | 3.0                | 102.6                  | 90.6               | 92.7                | OK     |
|  | B56            | Nagl 19mm - 4  | Step 94 | 11.0                   | 9.5    | 15.8               | 92.3                   | 24.8               | 36.1                | OK     |
|                                                                                     | B57            | Nagl 19mm - 4  | Step 94 | 6.2                    | 9.8    | 8.9                | 102.6                  | 25.4               | 31.7                | OK     |
|                                                                                     | B58            | Nagl 19mm - 4  | Step 94 | 4.7                    | 9.8    | 6.8                | 102.6                  | 25.4               | 30.3                | OK     |
|                                                                                     | B59            | Nagl 19mm - 4  | Step 94 | 2.1                    | 9.7    | 3.1                | 92.3                   | 25.2               | 27.4                | OK     |
|                                                                                     | B60            | Nagl 19mm - 4  | Step 94 | 0.5                    | 9.7    | 0.8                | 92.3                   | 25.2               | 25.7                | OK     |
|                                                                                     | B61            | Nagl 19mm - 4  | Step 94 | 0.8                    | 9.9    | 1.2                | 102.6                  | 25.7               | 26.5                | OK     |
|                                                                                     | B62            | Nagl 19mm - 4  | Step 94 | 1.1                    | 10.8   | 1.5                | 116.3                  | 28.0               | 29.0                | OK     |
|                                                                                     | B63            | Nagl 19mm - 4  | Step 94 | 10.4                   | 8.0    | 15.0               | 92.3                   | 20.7               | 31.4                | OK     |
|                                                                                     | B64            | Nagl 19mm - 4  | Step 94 | 4.0                    | 8.1    | 5.8                | 92.3                   | 21.2               | 25.3                | OK     |
|                                                                                     | B65            | Nagl 19mm - 4  | Step 94 | 2.6                    | 8.5    | 3.8                | 92.3                   | 22.0               | 24.7                | OK     |
|                                                                                     | B66            | Nagl 19mm - 4  | Step 94 | 1.6                    | 8.8    | 2.3                | 92.3                   | 22.8               | 24.4                | OK     |
|                                                                                     | B67            | Nagl 19mm - 4  | Step 94 | 0.9                    | 9.1    | 1.4                | 92.3                   | 23.5               | 24.5                | OK     |
|                                                                                     | B68            | Nagl 19mm - 4  | Step 94 | 0.7                    | 9.4    | 1.0                | 102.6                  | 24.3               | 25.0                | OK     |
|                                                                                     | B69            | Nagl 19mm - 4  | Step 94 | 0.7                    | 9.8    | 1.0                | 116.3                  | 25.4               | 26.1                | OK     |
|                                                                                     | B156           | Nagl 16 mm - 5 | Step 83 | 9.3                    | 22.0   | 18.9               | 90.7                   | 80.5               | 94.0                | OK     |
|                                                                                     | B157           | Nagl 16 mm - 5 | Step 88 | 1.2                    | 24.3   | 2.5                | 90.7                   | 88.7               | 90.5                | OK     |
|                                                                                     | B158           | Nagl 16 mm - 5 | Step 88 | 1.4                    | 23.8   | 2.8                | 90.7                   | 87.1               | 89.1                | OK     |
|                                                                                     | B159           | Nagl 16 mm - 5 | Step 88 | 1.1                    | 23.8   | 2.2                | 90.7                   | 87.1               | 88.7                | OK     |

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|  | Name | Grade          | Loads   | $F_{t,Ed}$ [kN] | V [kN] | $U_{t_t}$ [%] | $F_{b,Rd}$ [kN] | $U_{t_s}$ [%] | $U_{t_{ts}}$ [%] | Status |
|--|------|----------------|---------|-----------------|--------|---------------|-----------------|---------------|------------------|--------|
|  | B160 | Nagl 16 mm - 5 | Step 88 | 1.4             | 24.2   | 2.8           | 90.7            | 88.5          | 90.5             | OK     |
|  | B161 | Nagl 16 mm - 5 | Step 88 | 2.6             | 25.1   | 5.2           | 92.5            | 91.7          | 95.4             | OK     |
|  | B207 | Nagl 16 mm - 6 | Step 88 | 6.3             | 12.3   | 12.9          | 63.2            | 45.1          | 54.3             | OK     |
|  | B208 | Nagl 16 mm - 6 | Step 88 | 0.4             | 11.6   | 0.8           | 85.4            | 42.5          | 43.1             | OK     |
|  | B209 | Nagl 16 mm - 6 | Step 88 | 0.8             | 11.3   | 1.5           | 85.4            | 41.4          | 42.5             | OK     |
|  | B210 | Nagl 16 mm - 6 | Step 88 | 2.3             | 11.3   | 4.6           | 85.4            | 41.4          | 44.7             | OK     |
|  | B70  | Nagl 16 mm - 5 | Step 88 | 5.2             | 24.4   | 10.5          | 90.7            | 89.1          | 96.6             | OK     |
|  | B71  | Nagl 16 mm - 5 | Step 88 | 1.1             | 24.3   | 2.2           | 90.7            | 89.1          | 90.6             | OK     |
|  | B72  | Nagl 16 mm - 5 | Step 88 | 1.3             | 24.0   | 2.6           | 90.7            | 87.7          | 89.6             | OK     |
|  | B73  | Nagl 16 mm - 5 | Step 88 | 1.0             | 24.1   | 2.0           | 90.7            | 88.0          | 89.4             | OK     |
|  | B74  | Nagl 16 mm - 5 | Step 88 | 1.1             | 24.5   | 2.3           | 90.7            | 89.8          | 91.4             | OK     |
|  | B75  | Nagl 16 mm - 5 | Step 88 | 2.5             | 25.5   | 5.0           | 92.5            | 93.2          | 96.8             | OK     |
|  | B135 | Nagl 19mm - 3  | Step 83 | 5.8             | 34.6   | 8.3           | 129.2           | 89.9          | 95.9             | OK     |
|  | B136 | Nagl 19mm - 3  | Step 83 | 1.9             | 33.9   | 2.7           | 102.6           | 88.0          | 89.9             | OK     |
|  | B137 | Nagl 19mm - 3  | Step 83 | 1.8             | 33.4   | 2.6           | 102.6           | 86.7          | 88.6             | OK     |
|  | B138 | Nagl 19mm - 3  | Step 83 | 1.8             | 33.2   | 2.6           | 102.6           | 86.4          | 88.2             | OK     |
|  | B139 | Nagl 19mm - 3  | Step 83 | 1.7             | 33.5   | 2.5           | 102.6           | 87.0          | 88.8             | OK     |
|  | B140 | Nagl 19mm - 3  | Step 83 | 1.7             | 34.0   | 2.4           | 102.6           | 88.4          | 90.1             | OK     |
|  | B141 | Nagl 19mm - 3  | Step 83 | 2.4             | 34.9   | 3.5           | 102.6           | 90.7          | 93.2             | OK     |
|  | B180 | Nagl 19mm - 3  | Step 83 | 4.6             | 35.1   | 6.6           | 129.2           | 91.3          | 96.0             | OK     |
|  | B181 | Nagl 19mm - 3  | Step 83 | 1.6             | 34.3   | 2.4           | 102.6           | 89.2          | 90.9             | OK     |
|  | B182 | Nagl 19mm - 3  | Step 83 | 1.6             | 33.8   | 2.3           | 102.6           | 87.9          | 89.6             | OK     |
|  | B183 | Nagl 19mm - 3  | Step 83 | 1.6             | 33.8   | 2.3           | 102.6           | 87.8          | 89.4             | OK     |
|  | B184 | Nagl 19mm - 3  | Step 83 | 1.7             | 34.1   | 2.5           | 102.6           | 88.5          | 90.3             | OK     |
|  | B185 | Nagl 19mm - 3  | Step 83 | 1.8             | 34.7   | 2.6           | 102.6           | 90.2          | 92.0             | OK     |
|  | B186 | Nagl 19mm - 3  | Step 83 | 2.3             | 35.8   | 3.4           | 102.6           | 93.0          | 95.4             | OK     |
|  | B215 | Nagl 16 mm - 6 | Step 88 | 7.2             | 14.3   | 14.7          | 63.2            | 52.3          | 62.8             | OK     |
|  | B216 | Nagl 16 mm - 6 | Step 88 | 0.7             | 13.5   | 1.5           | 85.4            | 49.6          | 50.6             | OK     |
|  | B217 | Nagl 16 mm - 6 | Step 88 | 0.9             | 13.2   | 1.9           | 85.4            | 48.2          | 49.5             | OK     |
|  | B218 | Nagl 16 mm - 6 | Step 88 | 1.6             | 13.1   | 3.3           | 85.4            | 47.9          | 50.3             | OK     |
|  | B87  | Nagl 16 mm - 1 | Step 88 | 7.0             | 20.0   | 14.2          | 90.4            | 73.2          | 83.3             | OK     |
|  | B88  | Nagl 16 mm - 1 | Step 83 | 1.1             | 17.6   | 2.2           | 101.4           | 64.4          | 66.0             | OK     |
|  | B89  | Nagl 16 mm - 1 | Step 83 | 0.3             | 16.4   | 0.6           | 101.4           | 60.1          | 60.5             | OK     |
|  | B90  | Nagl 16 mm - 1 | Step 83 | 0.2             | 15.5   | 0.4           | 101.4           | 56.8          | 57.1             | OK     |
|  | B91  | Nagl 16 mm - 1 | Step 83 | 0.2             | 14.9   | 0.3           | 101.4           | 54.4          | 54.6             | OK     |
|  | B92  | Nagl 16 mm - 1 | Step 83 | 0.2             | 14.4   | 0.5           | 101.4           | 52.6          | 52.9             | OK     |
|  | B93  | Nagl 16 mm - 1 | Step 83 | 0.3             | 14.0   | 0.5           | 101.4           | 51.2          | 51.6             | OK     |
|  | B94  | Nagl 16 mm - 1 | Step 83 | 0.2             | 13.7   | 0.4           | 101.4           | 50.1          | 50.4             | OK     |
|  | B95  | Nagl 16 mm - 1 | Step 83 | 0.2             | 13.5   | 0.3           | 101.4           | 49.3          | 49.5             | OK     |
|  | B96  | Nagl 16 mm - 1 | Step 83 | 0.2             | 13.3   | 0.4           | 101.4           | 48.6          | 48.9             | OK     |
|  | B97  | Nagl 16 mm - 1 | Step 83 | 0.2             | 13.0   | 0.4           | 101.4           | 47.7          | 47.9             | OK     |
|  | B98  | Nagl 16 mm - 1 | Step 83 | 0.2             | 12.8   | 0.3           | 103.4           | 46.9          | 47.1             | OK     |
|  | B99  | Nagl 16 mm - 1 | Step 83 | 0.3             | 12.6   | 0.6           | 103.4           | 46.2          | 46.6             | OK     |



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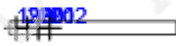


|  | Name | Grade          | Loads   | F <sub>t,Ed</sub> [kN] | V [kN] | U <sub>t</sub> [%] | F <sub>b,Rd</sub> [kN] | U <sub>s</sub> [%] | U <sub>ts</sub> [%] | Status |
|--|------|----------------|---------|------------------------|--------|--------------------|------------------------|--------------------|---------------------|--------|
|  | B100 | Nagl 16 mm - 1 | Step 83 | 0.2                    | 12.4   | 0.4                | 101.4                  | 45.2               | 45.5                | OK     |
|  | B101 | Nagl 16 mm - 1 | Step 83 | 0.1                    | 12.1   | 0.3                | 101.4                  | 44.4               | 44.6                | OK     |
|  | B102 | Nagl 16 mm - 1 | Step 83 | 0.3                    | 12.1   | 0.7                | 101.4                  | 44.2               | 44.6                | OK     |
|  | B103 | Nagl 16 mm - 1 | Step 83 | 0.7                    | 12.1   | 1.3                | 103.4                  | 44.4               | 45.4                | OK     |
|  | B104 | Nagl 16 mm - 1 | Step 88 | 6.2                    | 23.0   | 12.7               | 90.4                   | 84.3               | 93.3                | OK     |
|  | B105 | Nagl 16 mm - 1 | Step 88 | 1.6                    | 20.3   | 3.3                | 101.4                  | 74.2               | 76.6                | OK     |
|  | B106 | Nagl 16 mm - 1 | Step 88 | 0.5                    | 18.7   | 1.1                | 101.4                  | 68.5               | 69.3                | OK     |
|  | B107 | Nagl 16 mm - 1 | Step 83 | 0.2                    | 17.8   | 0.5                | 101.4                  | 65.2               | 65.5                | OK     |
|  | B108 | Nagl 16 mm - 1 | Step 83 | 0.1                    | 17.1   | 0.1                | 101.4                  | 62.4               | 62.5                | OK     |
|  | B109 | Nagl 16 mm - 1 | Step 83 | 1.0                    | 16.5   | 2.1                | 101.4                  | 60.3               | 61.8                | OK     |
|  | B110 | Nagl 16 mm - 1 | Step 83 | 3.8                    | 16.0   | 7.8                | 101.4                  | 58.4               | 64.0                | OK     |
|  | B111 | Nagl 16 mm - 1 | Step 83 | 6.7                    | 15.5   | 13.7               | 101.4                  | 56.6               | 66.4                | OK     |
|  | B112 | Nagl 16 mm - 1 | Step 83 | 7.4                    | 15.0   | 15.0               | 101.4                  | 55.0               | 65.7                | OK     |
|  | B113 | Nagl 16 mm - 1 | Step 83 | 5.5                    | 14.8   | 11.2               | 101.4                  | 54.0               | 62.0                | OK     |
|  | B114 | Nagl 16 mm - 1 | Step 83 | 1.7                    | 14.5   | 3.5                | 101.4                  | 53.1               | 55.6                | OK     |
|  | B115 | Nagl 16 mm - 1 | Step 83 | 0.4                    | 14.5   | 0.9                | 103.4                  | 53.0               | 53.6                | OK     |
|  | B116 | Nagl 16 mm - 1 | Step 83 | 0.8                    | 14.5   | 1.7                | 103.4                  | 52.9               | 54.1                | OK     |
|  | B117 | Nagl 16 mm - 1 | Step 83 | 0.1                    | 14.4   | 0.1                | 101.4                  | 52.6               | 52.7                | OK     |
|  | B118 | Nagl 16 mm - 1 | Step 83 | 0.8                    | 14.3   | 1.7                | 101.4                  | 52.3               | 53.5                | OK     |
|  | B119 | Nagl 16 mm - 1 | Step 83 | 1.2                    | 14.3   | 2.4                | 101.4                  | 52.3               | 54.0                | OK     |
|  | B120 | Nagl 16 mm - 1 | Step 83 | 0.9                    | 14.4   | 1.8                | 103.4                  | 52.6               | 53.9                | OK     |
|  | B162 | Nagl 16 mm - 1 | Step 88 | 2.5                    | 17.8   | 5.0                | 101.4                  | 65.2               | 68.8                | OK     |
|  | B163 | Nagl 16 mm - 1 | Step 83 | 0.3                    | 17.0   | 0.6                | 101.4                  | 62.1               | 62.6                | OK     |
|  | B164 | Nagl 16 mm - 1 | Step 83 | 0.2                    | 16.1   | 0.5                | 101.4                  | 59.0               | 59.3                | OK     |
|  | B165 | Nagl 16 mm - 1 | Step 83 | 0.2                    | 15.4   | 0.4                | 101.4                  | 56.5               | 56.8                | OK     |
|  | B166 | Nagl 16 mm - 1 | Step 83 | 0.2                    | 14.9   | 0.3                | 101.4                  | 54.6               | 54.8                | OK     |
|  | B167 | Nagl 16 mm - 1 | Step 83 | 0.3                    | 14.5   | 0.5                | 101.4                  | 53.0               | 53.4                | OK     |
|  | B168 | Nagl 16 mm - 1 | Step 83 | 0.3                    | 14.1   | 0.7                | 101.4                  | 51.6               | 52.1                | OK     |
|  | B169 | Nagl 16 mm - 1 | Step 83 | 0.5                    | 13.8   | 0.9                | 103.4                  | 50.7               | 51.3                | OK     |
|  | B170 | Nagl 16 mm - 1 | Step 83 | 0.2                    | 13.4   | 0.3                | 101.4                  | 49.1               | 49.3                | OK     |
|  | B171 | Nagl 16 mm - 1 | Step 83 | 0.2                    | 13.3   | 0.5                | 103.4                  | 48.5               | 48.8                | OK     |
|  | B172 | Nagl 16 mm - 1 | Step 83 | 0.3                    | 12.9   | 0.7                | 103.4                  | 47.1               | 47.6                | OK     |
|  | B121 | Nagl 16 mm - 2 | Step 88 | 4.8                    | 24.6   | 9.8                | 90.7                   | 89.8               | 96.8                | OK     |
|  | B122 | Nagl 16 mm - 2 | Step 88 | 1.1                    | 26.7   | 2.2                | 90.7                   | 97.6               | 99.2                | OK     |
|  | B123 | Nagl 16 mm - 2 | Step 88 | 1.6                    | 25.8   | 3.3                | 90.7                   | 94.4               | 96.7                | OK     |
|  | B124 | Nagl 16 mm - 2 | Step 88 | 1.0                    | 25.3   | 2.0                | 90.7                   | 92.4               | 93.9                | OK     |
|  | B125 | Nagl 16 mm - 2 | Step 88 | 0.5                    | 25.2   | 1.0                | 90.7                   | 92.1               | 92.8                | OK     |
|  | B126 | Nagl 16 mm - 2 | Step 88 | 1.3                    | 25.6   | 2.6                | 90.7                   | 93.6               | 95.4                | OK     |
|  | B127 | Nagl 16 mm - 2 | Step 83 | 14.5                   | 19.1   | 29.5               | 57.6                   | 69.8               | 90.9                | OK     |
|  | B128 | Nagl 16 mm - 2 | Step 83 | 5.1                    | 24.4   | 10.3               | 90.7                   | 89.3               | 96.6                | OK     |
|  | B129 | Nagl 16 mm - 2 | Step 88 | 1.4                    | 24.9   | 2.8                | 90.7                   | 91.1               | 93.1                | OK     |
|  | B130 | Nagl 16 mm - 2 | Step 88 | 1.2                    | 24.0   | 2.5                | 90.7                   | 87.9               | 89.7                | OK     |
|  | B131 | Nagl 16 mm - 2 | Step 88 | 0.8                    | 23.6   | 1.6                | 90.7                   | 86.4               | 87.5                | OK     |



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|      | Name | Grade          | Loads         | $F_{t,Ed}$ [kN] | V [kN] | $U_t$ [%] | $F_{b,Rd}$ [kN] | $U_s$ [%] | $U_{ts}$ [%] | Status |
|------|------|----------------|---------------|-----------------|--------|-----------|-----------------|-----------|--------------|--------|
|      | B132 | Nagl 16 mm - 2 | Step 88       | 0.8             | 23.6   | 1.5       | 90.7            | 86.2      | 87.3         | OK     |
|      | B133 | Nagl 16 mm - 2 | Step 88       | 0.6             | 23.9   | 1.2       | 90.7            | 87.5      | 88.4         | OK     |
|      | B134 | Nagl 16 mm - 2 | Step 94       | 12.8            | 20.0   | 25.9      | 57.6            | 73.2      | 91.7         | OK     |
|      | B142 | Nagl 19mm - 4  | Step 94       | 11.1            | 9.7    | 16.0      | 92.3            | 25.1      | 36.6         | OK     |
|      | B143 | Nagl 19mm - 4  | Step 94       | 6.2             | 9.9    | 8.9       | 102.6           | 25.7      | 32.0         | OK     |
|      | B144 | Nagl 19mm - 4  | Step 94       | 4.1             | 9.9    | 5.9       | 102.6           | 25.7      | 29.9         | OK     |
|      | B145 | Nagl 19mm - 4  | Step 94       | 1.7             | 9.9    | 2.5       | 92.3            | 25.6      | 27.4         | OK     |
|      | B146 | Nagl 19mm - 4  | Step 94       | 0.5             | 9.9    | 0.7       | 92.3            | 25.6      | 26.1         | OK     |
|      | B147 | Nagl 19mm - 4  | Step 94       | 0.6             | 10.1   | 0.9       | 102.6           | 26.1      | 26.8         | OK     |
|      | B148 | Nagl 19mm - 4  | Step 94       | 0.9             | 10.9   | 1.4       | 116.3           | 28.4      | 29.4         | OK     |
|      | B149 | Nagl 19mm - 4  | Step 94       | 10.5            | 8.0    | 15.2      | 92.3            | 20.7      | 31.6         | OK     |
|      | B150 | Nagl 19mm - 4  | Step 94       | 4.0             | 8.2    | 5.8       | 92.3            | 21.3      | 25.5         | OK     |
|      | B151 | Nagl 19mm - 4  | Step 94       | 2.5             | 8.6    | 3.7       | 92.3            | 22.3      | 24.9         | OK     |
|      | B152 | Nagl 19mm - 4  | Step 94       | 1.6             | 8.9    | 2.2       | 92.3            | 23.2      | 24.8         | OK     |
|      | B153 | Nagl 19mm - 4  | Step 94       | 1.0             | 9.2    | 1.4       | 92.3            | 23.9      | 25.0         | OK     |
|      | B154 | Nagl 19mm - 4  | Step 94       | 0.8             | 9.5    | 1.2       | 102.6           | 24.8      | 25.6         | OK     |
|      | B155 | Nagl 19mm - 4  | Step 94       | 0.9             | 10.0   | 1.3       | 116.3           | 25.9      | 26.8         | OK     |
|      |      | B173           | Nagl 19mm - 3 | Step 83         | 3.8    | 35.2      | 5.6             | 129.2     | 91.5         | 95.4   |
| B174 |      | Nagl 19mm - 3  | Step 83       | 1.4             | 34.3   | 2.0       | 102.6           | 89.2      | 90.7         | OK     |
| B175 |      | Nagl 19mm - 3  | Step 83       | 1.4             | 33.8   | 2.0       | 102.6           | 87.9      | 89.4         | OK     |
| B176 |      | Nagl 19mm - 3  | Step 83       | 1.4             | 33.7   | 2.0       | 102.6           | 87.7      | 89.1         | OK     |
| B177 |      | Nagl 19mm - 3  | Step 83       | 1.5             | 34.0   | 2.1       | 102.6           | 88.4      | 89.9         | OK     |
| B178 |      | Nagl 19mm - 3  | Step 83       | 1.5             | 34.7   | 2.1       | 102.6           | 90.0      | 91.6         | OK     |
| B179 |      | Nagl 19mm - 3  | Step 83       | 2.1             | 35.7   | 3.0       | 102.6           | 92.7      | 94.9         | OK     |
|      | B187 | Nagl 16 mm - 6 | Step 88       | 0.9             | 11.0   | 1.9       | 85.4            | 40.4      | 41.7         | OK     |
|      | B188 | Nagl 16 mm - 6 | Step 88       | 0.9             | 11.3   | 1.8       | 85.4            | 41.2      | 42.5         | OK     |
|      | B189 | Nagl 16 mm - 6 | Step 88       | 1.7             | 11.6   | 3.5       | 85.4            | 42.5      | 45.0         | OK     |
|      | B190 | Nagl 16 mm - 6 | Step 88       | 5.5             | 12.2   | 11.2      | 87.0            | 44.5      | 52.5         | OK     |
|      | B191 | Nagl 16 mm - 6 | Step 88       | 1.8             | 12.9   | 3.7       | 85.4            | 47.1      | 49.7         | OK     |
|      | B192 | Nagl 16 mm - 6 | Step 88       | 1.1             | 13.2   | 2.2       | 85.4            | 48.1      | 49.7         | OK     |
|      | B193 | Nagl 16 mm - 6 | Step 88       | 2.0             | 13.7   | 4.1       | 85.4            | 50.0      | 52.9         | OK     |
|      | B194 | Nagl 16 mm - 6 | Step 88       | 6.1             | 14.5   | 12.3      | 87.0            | 53.0      | 61.8         | OK     |
|      | B195 | Nagl 16 mm - 6 | Step 88       | 1.2             | 12.7   | 2.5       | 85.4            | 46.6      | 48.4         | OK     |
|      | B196 | Nagl 16 mm - 6 | Step 88       | 1.0             | 13.0   | 2.1       | 85.4            | 47.7      | 49.2         | OK     |
|      | B197 | Nagl 16 mm - 6 | Step 88       | 2.0             | 13.6   | 4.0       | 85.4            | 49.6      | 52.5         | OK     |
|      | B198 | Nagl 16 mm - 6 | Step 88       | 5.9             | 14.4   | 11.9      | 87.0            | 52.5      | 61.0         | OK     |
|      | B199 | Nagl 16 mm - 6 | Step 88       | 1.2             | 11.1   | 2.4       | 85.4            | 40.7      | 42.4         | OK     |
|      | B200 | Nagl 16 mm - 6 | Step 88       | 1.0             | 11.4   | 1.9       | 85.4            | 41.6      | 42.9         | OK     |
|      | B201 | Nagl 16 mm - 6 | Step 88       | 1.8             | 11.7   | 3.7       | 85.4            | 42.9      | 45.5         | OK     |

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|                                                                                   | Name | Grade          | Loads   | $F_{t,Ed}$<br>[kN] | V<br>[kN] | $U_t$<br>[%] | $F_{b,Rd}$<br>[kN] | $U_s$<br>[%] | $U_{ts}$<br>[%] | Status |
|-----------------------------------------------------------------------------------|------|----------------|---------|--------------------|-----------|--------------|--------------------|--------------|-----------------|--------|
|  | B202 | Nagl 16 mm - 6 | Step 88 | 5.8                | 12.3      | 11.7         | 87.0               | 45.0         | 53.4            | OK     |
|  | B203 | Nagl 16 mm - 6 | Step 88 | 5.4                | 12.2      | 11.0         | 63.2               | 44.5         | 52.4            | OK     |
|                                                                                   | B204 | Nagl 16 mm - 6 | Step 88 | 0.4                | 11.6      | 0.9          | 85.4               | 42.3         | 42.9            | OK     |
|                                                                                   | B205 | Nagl 16 mm - 6 | Step 88 | 0.6                | 11.3      | 1.2          | 85.4               | 41.2         | 42.1            | OK     |
|                                                                                   | B206 | Nagl 16 mm - 6 | Step 88 | 1.2                | 11.3      | 2.4          | 85.4               | 41.2         | 43.0            | OK     |
|  | B211 | Nagl 16 mm - 6 | Step 88 | 8.1                | 14.3      | 16.4         | 63.2               | 52.4         | 64.1            | OK     |
|                                                                                   | B212 | Nagl 16 mm - 6 | Step 88 | 0.8                | 13.5      | 1.7          | 85.4               | 49.5         | 50.7            | OK     |
|                                                                                   | B213 | Nagl 16 mm - 6 | Step 88 | 1.0                | 13.1      | 2.1          | 85.4               | 48.0         | 49.5            | OK     |
|                                                                                   | B214 | Nagl 16 mm - 6 | Step 88 | 2.9                | 13.0      | 5.9          | 85.4               | 47.7         | 51.9            | OK     |

#### Design data

| Name           | $F_{t,Rd}$<br>[kN] | $B_{p,Rd}$<br>[kN] | $F_{v,Rd}$<br>[kN] |
|----------------|--------------------|--------------------|--------------------|
| Nagl 16 mm - 1 | 49.2               | 128.9              | 27.3               |
| Nagl 16 mm - 2 | 49.2               | 115.4              | 27.3               |
| Nagl 19mm - 3  | 69.3               | 139.0              | 38.5               |
| Nagl 19mm - 4  | 69.3               | 156.3              | 38.5               |
| Nagl 16 mm - 5 | 49.2               | 135.7              | 27.3               |
| Nagl 16 mm - 6 | 49.2               | 108.6              | 27.3               |

#### Symbol explanation

|            |                                                 |
|------------|-------------------------------------------------|
| $F_{t,Rd}$ | Bolt tension resistance EN 1993-1-8 tab. 3.4    |
| $F_{t,Ed}$ | Tension force                                   |
| $B_{p,Rd}$ | Punching shear resistance                       |
| V          | Resultant of shear forces $V_y$ , $V_z$ in bolt |
| $F_{v,Rd}$ | Bolt shear resistance EN_1993-1-8 table 3.4     |
| $F_{b,Rd}$ | Plate bearing resistance EN 1993-1-8 tab. 3.4   |
| $U_t$      | Utilization in tension                          |
| $U_s$      | Utilization in shear                            |

#### Buckling

Buckling analysis was not calculated.

#### Code settings

| Item            | Value | Unit | Reference        |
|-----------------|-------|------|------------------|
| Y <sub>M0</sub> | 1.10  | -    | EN 1993-1-1: 6.1 |
| Y <sub>M1</sub> | 1.20  | -    | EN 1993-1-1: 6.1 |

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| Item                                    | Value                  | Unit | Reference                                                  |
|-----------------------------------------|------------------------|------|------------------------------------------------------------|
| YM2                                     | 1.25                   | -    | EN 1993-1-1: 6.1                                           |
| YM3                                     | 1.25                   | -    | EN 1993-1-8: 2.2                                           |
| YC                                      | 1.40                   | -    | EN 1992-1-1: 2.4.2.4                                       |
| YInst                                   | 1.20                   | -    | EN 1992-4: Table 4.1                                       |
| Joint coefficient $\beta_j$             | 0.67                   | -    | EN 1993-1-8: 6.2.5                                         |
| Effective area - influence of mesh size | 0.10                   | -    |                                                            |
| Friction coefficient - concrete         | 0.25                   | -    | EN 1993-1-8                                                |
| Friction coefficient in slip-resistance | 0.30                   | -    | EN 1993-1-8 tab 3.7                                        |
| Limit plastic strain                    | 0.05                   | -    | EN 1993-1-5                                                |
| Weld stress evaluation                  | Plastic redistribution |      |                                                            |
| Detailing                               | No                     |      |                                                            |
| Distance between bolts [d]              | 2.20                   | -    | EN 1993-1-8: tab 3.3                                       |
| Distance between bolts and edge [d]     | 1.00                   | -    | EN 1993-1-8: tab 3.3                                       |
| Concrete breakout resistance check      | Both                   |      | EN 1992-4: 7.2.1.4 and 7.2.2.5                             |
| Use calculated $a_b$ in bearing check.  | Yes                    |      | EN 1993-1-8: tab 3.4                                       |
| Cracked concrete                        | Yes                    |      | EN 1992-4                                                  |
| Local deformation check                 | No                     |      | CIDECT DG 1, 3 - 1.1                                       |
| Local deformation limit                 | 0.03                   | -    | CIDECT DG 1, 3 - 1.1                                       |
| Geometrical nonlinearity (GMNA)         | No                     |      | Analysis with large deformations for hollow section joints |
| Braced system                           | No                     |      | EN 1993-1-8: 5.2.2.5                                       |

## **Vedlegg K: Analyser fra SAP2000**

## Vedlegg K.1 Dominerende variabel last

**TABLE: Element Forces - Frames**

| Frame | Station | OutputCase | CaseType  | StepType | P        | V2    | V3       | T           | M2         | M3     | FrameElem | ElemStation |
|-------|---------|------------|-----------|----------|----------|-------|----------|-------------|------------|--------|-----------|-------------|
| Text  | m       | Text       | Text      | Text     | KN       | KN    | KN       | KN-m        | KN-m       | KN-m   | Text      | m           |
| 80    | 0       | Vindlast   | LinStatic |          | -7,673   | 0     | -0,078   | -0,00001676 | -0,1254    | 0      | 80-1      | 0           |
| 80    | 1,6295  | Vindlast   | LinStatic |          | -7,673   | 0     | -0,078   | -0,00001676 | 0,0024     | 0      | 80-1      | 1,6295      |
| 80    | 3,259   | Vindlast   | LinStatic |          | -7,673   | 0     | -0,078   | -0,00001676 | 0,1302     | 0      | 80-1      | 3,259       |
| 113   | 0       | Vindlast   | LinStatic |          | 67,911   | 0     | 0,000539 | -0,0001684  | 0,0013     | 0      | 113-1     | 0           |
| 113   | 2,19965 | Vindlast   | LinStatic |          | 67,911   | 0     | 0,000539 | -0,0001684  | 0,00009975 | 0      | 113-1     | 2,19965     |
| 113   | 4,3993  | Vindlast   | LinStatic |          | 67,911   | 0     | 0,000539 | -0,0001684  | -0,0011    | 0      | 113-1     | 4,3993      |
| 130   | 0       | Vindlast   | LinStatic |          | 71,804   | 0,012 | 0,584    | 0,000003614 | 0,9243     | 0,3901 | 130-1     | 0           |
| 130   | 0,46429 | Vindlast   | LinStatic |          | 71,804   | 0,012 | 0,584    | 0,000003614 | 0,653      | 0,3845 | 130-1     | 0,46429     |
| 130   | 0,92859 | Vindlast   | LinStatic |          | 71,804   | 0,012 | 0,584    | 0,000003614 | 0,3817     | 0,379  | 130-1     | 0,92859     |
| 130   | 1,39288 | Vindlast   | LinStatic |          | 71,804   | 0,012 | 0,584    | 0,000003614 | 0,1104     | 0,3734 | 130-1     | 1,39288     |
| 130   | 1,85717 | Vindlast   | LinStatic |          | 71,804   | 0,012 | 0,584    | 0,000003614 | -0,161     | 0,3679 | 130-1     | 1,85717     |
| 130   | 2,32146 | Vindlast   | LinStatic |          | 71,804   | 0,012 | 0,584    | 0,000003614 | -0,4323    | 0,3623 | 130-1     | 2,32146     |
| 130   | 2,78576 | Vindlast   | LinStatic |          | 71,804   | 0,012 | 0,584    | 0,000003614 | -0,7036    | 0,3567 | 130-1     | 2,78576     |
| 130   | 3,25005 | Vindlast   | LinStatic |          | 71,804   | 0,012 | 0,584    | 0,000003614 | -0,9749    | 0,3512 | 130-1     | 3,25005     |
| 130   | 3,25005 | Vindlast   | LinStatic |          | 71,816   | 0,012 | -0,569   | -0,00002256 | -0,9749    | 0,3512 | 130-2     | 0           |
| 130   | 3,71434 | Vindlast   | LinStatic |          | 71,816   | 0,012 | -0,569   | -0,00002256 | -0,7107    | 0,3456 | 130-2     | 0,46429     |
| 130   | 4,17863 | Vindlast   | LinStatic |          | 71,816   | 0,012 | -0,569   | -0,00002256 | -0,4465    | 0,3401 | 130-2     | 0,92859     |
| 130   | 4,64293 | Vindlast   | LinStatic |          | 71,816   | 0,012 | -0,569   | -0,00002256 | -0,1823    | 0,3345 | 130-2     | 1,39288     |
| 130   | 5,10722 | Vindlast   | LinStatic |          | 71,816   | 0,012 | -0,569   | -0,00002256 | 0,0819     | 0,3289 | 130-2     | 1,85717     |
| 130   | 5,57151 | Vindlast   | LinStatic |          | 71,816   | 0,012 | -0,569   | -0,00002256 | 0,3461     | 0,3234 | 130-2     | 2,32146     |
| 130   | 6,03581 | Vindlast   | LinStatic |          | 71,816   | 0,012 | -0,569   | -0,00002256 | 0,6103     | 0,3178 | 130-2     | 2,78576     |
| 130   | 6,5001  | Vindlast   | LinStatic |          | 71,816   | 0,012 | -0,569   | -0,00002256 | 0,8745     | 0,3123 | 130-2     | 3,25005     |
| 80    | 0       | Boggilast  | LinMSStat | Max      | 19,924   | 0     | 0,845    | 0,0002081   | 0,8417     | 0      | 80-1      | 0           |
| 80    | 1,6295  | Boggilast  | LinMSStat | Max      | 19,924   | 0     | 0,845    | 0,0002081   | 0,6412     | 0      | 80-1      | 1,6295      |
| 80    | 3,259   | Boggilast  | LinMSStat | Max      | 19,924   | 0     | 0,845    | 0,0002081   | 3,1033     | 0      | 80-1      | 3,259       |
| 80    | 0       | Boggilast  | LinMSStat | Min      | -179,193 | 0     | -1,511   | -0,0001854  | -1,8209    | 0      | 80-1      | 0           |
| 80    | 1,6295  | Boggilast  | LinMSStat | Min      | -179,193 | 0     | -1,511   | -0,0001854  | -0,5354    | 0      | 80-1      | 1,6295      |
| 80    | 3,259   | Boggilast  | LinMSStat | Min      | -179,193 | 0     | -1,511   | -0,0001854  | -1,9125    | 0      | 80-1      | 3,259       |
| 113   | 0       | Boggilast  | LinMSStat | Max      | 283,925  | 0     | 0,033    | 0,0027      | 0,0863     | 0      | 113-1     | 0           |

|     |         |           |           |     |         |        |           |           |         |         |       |         |
|-----|---------|-----------|-----------|-----|---------|--------|-----------|-----------|---------|---------|-------|---------|
| 113 | 2,19965 | Boggilast | LinMSStat | Max | 283,925 | 0      | 0,033     | 0,0027    | 0,0132  | 0       | 113-1 | 2,19965 |
| 113 | 4,3993  | Boggilast | LinMSStat | Max | 283,925 | 0      | 0,033     | 0,0027    | 0,0078  | 0       | 113-1 | 4,3993  |
| 113 | 0       | Boggilast | LinMSStat | Min | -19,824 | 0      | -0,003298 | -0,0018   | -0,008  | 0       | 113-1 | 0       |
| 113 | 2,19965 | Boggilast | LinMSStat | Min | -19,824 | 0      | -0,003298 | -0,0018   | -0,0022 | 0       | 113-1 | 2,19965 |
| 113 | 4,3993  | Boggilast | LinMSStat | Min | -19,824 | 0      | -0,003298 | -0,0018   | -0,0599 | 0       | 113-1 | 4,3993  |
| 130 | 0       | Boggilast | LinMSStat | Max | 466,227 | 0,823  | 4,079     | 0,0004207 | 7,3258  | 4,6107  | 130-1 | 0       |
| 130 | 0,46429 | Boggilast | LinMSStat | Max | 466,227 | 0,823  | 4,079     | 0,0004207 | 5,4319  | 4,2285  | 130-1 | 0,46429 |
| 130 | 0,92859 | Boggilast | LinMSStat | Max | 466,227 | 0,823  | 4,079     | 0,0004207 | 3,538   | 3,849   | 130-1 | 0,92859 |
| 130 | 1,39288 | Boggilast | LinMSStat | Max | 466,227 | 0,823  | 4,079     | 0,0004207 | 1,6442  | 3,4709  | 130-1 | 1,39288 |
| 130 | 1,85717 | Boggilast | LinMSStat | Max | 466,227 | 0,823  | 4,079     | 0,0004207 | 0,2562  | 3,0927  | 130-1 | 1,85717 |
| 130 | 2,32146 | Boggilast | LinMSStat | Max | 466,227 | 0,823  | 4,079     | 0,0004207 | 0,5483  | 2,7146  | 130-1 | 2,32146 |
| 130 | 2,78576 | Boggilast | LinMSStat | Max | 466,227 | 0,823  | 4,079     | 0,0004207 | 0,8404  | 2,3554  | 130-1 | 2,78576 |
| 130 | 3,25005 | Boggilast | LinMSStat | Max | 466,227 | 0,823  | 4,079     | 0,0004207 | 1,1326  | 2,1194  | 130-1 | 3,25005 |
| 130 | 3,25005 | Boggilast | LinMSStat | Max | 466,067 | 0,823  | 0,8       | 0,0003832 | 1,1328  | 2,1194  | 130-2 | 0       |
| 130 | 3,71434 | Boggilast | LinMSStat | Max | 466,067 | 0,823  | 0,8       | 0,0003832 | 0,7614  | 2,3145  | 130-2 | 0,46429 |
| 130 | 4,17863 | Boggilast | LinMSStat | Max | 466,067 | 0,823  | 0,8       | 0,0003832 | 0,4635  | 2,6726  | 130-2 | 0,92859 |
| 130 | 4,64293 | Boggilast | LinMSStat | Max | 466,067 | 0,823  | 0,8       | 0,0003832 | 0,2243  | 3,0307  | 130-2 | 1,39288 |
| 130 | 5,10722 | Boggilast | LinMSStat | Max | 466,067 | 0,823  | 0,8       | 0,0003832 | 1,5509  | 3,3888  | 130-2 | 1,85717 |
| 130 | 5,57151 | Boggilast | LinMSStat | Max | 466,067 | 0,823  | 0,8       | 0,0003832 | 3,4404  | 3,7469  | 130-2 | 2,32146 |
| 130 | 6,03581 | Boggilast | LinMSStat | Max | 466,067 | 0,823  | 0,8       | 0,0003832 | 5,3298  | 4,105   | 130-2 | 2,78576 |
| 130 | 6,5001  | Boggilast | LinMSStat | Max | 466,067 | 0,823  | 0,8       | 0,0003832 | 7,2193  | 4,4631  | 130-2 | 3,25005 |
| 130 | 0       | Boggilast | LinMSStat | Min | -98,062 | -0,771 | -0,667    | -0,000363 | -1,2251 | -0,5502 | 130-1 | 0       |
| 130 | 0,46429 | Boggilast | LinMSStat | Min | -98,062 | -0,771 | -0,667    | -0,000363 | -0,9155 | -0,4097 | 130-1 | 0,46429 |
| 130 | 0,92859 | Boggilast | LinMSStat | Min | -98,062 | -0,771 | -0,667    | -0,000363 | -0,6059 | -0,3756 | 130-1 | 0,92859 |
| 130 | 1,39288 | Boggilast | LinMSStat | Min | -98,062 | -0,771 | -0,667    | -0,000363 | -0,4727 | -0,3415 | 130-1 | 1,39288 |
| 130 | 1,85717 | Boggilast | LinMSStat | Min | -98,062 | -0,771 | -0,667    | -0,000363 | -1,8543 | -0,3074 | 130-1 | 1,85717 |
| 130 | 2,32146 | Boggilast | LinMSStat | Min | -98,062 | -0,771 | -0,667    | -0,000363 | -3,2625 | -0,2733 | 130-1 | 2,32146 |
| 130 | 2,78576 | Boggilast | LinMSStat | Min | -98,062 | -0,771 | -0,667    | -0,000363 | -4,6737 | -0,2392 | 130-1 | 2,78576 |
| 130 | 3,25005 | Boggilast | LinMSStat | Min | -98,062 | -0,771 | -0,667    | -0,000363 | -6,0884 | -0,2439 | 130-1 | 3,25005 |
| 130 | 3,25005 | Boggilast | LinMSStat | Min | -97,928 | -0,771 | -4,07     | -0,000394 | -6,0923 | -0,2439 | 130-2 | 0       |
| 130 | 3,71434 | Boggilast | LinMSStat | Min | -97,928 | -0,771 | -4,07     | -0,000394 | -4,6864 | -0,2767 | 130-2 | 0,46429 |
| 130 | 4,17863 | Boggilast | LinMSStat | Min | -97,928 | -0,771 | -4,07     | -0,000394 | -3,2923 | -0,3095 | 130-2 | 0,92859 |
| 130 | 4,64293 | Boggilast | LinMSStat | Min | -97,928 | -0,771 | -4,07     | -0,000394 | -1,8982 | -0,3423 | 130-2 | 1,39288 |



|     |         |              |           |     |         |        |           |            |         |         |       |         |
|-----|---------|--------------|-----------|-----|---------|--------|-----------|------------|---------|---------|-------|---------|
| 130 | 5,10722 | Boggilast    | LinMSStat | Min | -97,928 | -0,771 | -4,07     | -0,000394  | -0,5068 | -0,3751 | 130-2 | 1,85717 |
| 130 | 5,57151 | Boggilast    | LinMSStat | Min | -97,928 | -0,771 | -4,07     | -0,000394  | -0,7243 | -0,408  | 130-2 | 2,32146 |
| 130 | 6,03581 | Boggilast    | LinMSStat | Min | -97,928 | -0,771 | -4,07     | -0,000394  | -1,0958 | -0,4408 | 130-2 | 2,78576 |
| 130 | 6,5001  | Boggilast    | LinMSStat | Min | -97,928 | -0,771 | -4,07     | -0,000394  | -1,4672 | -0,7395 | 130-2 | 3,25005 |
| 80  | 0       | Trippelboggi | LinMSStat | Max | 15,234  | 0      | 0,769     | 0,000234   | 0,8126  | 0       | 80-1  | 0       |
| 80  | 1,6295  | Trippelboggi | LinMSStat | Max | 15,234  | 0      | 0,769     | 0,000234   | 0,4921  | 0       | 80-1  | 1,6295  |
| 80  | 3,259   | Trippelboggi | LinMSStat | Max | 15,234  | 0      | 0,769     | 0,000234   | 2,6032  | 0       | 80-1  | 3,259   |
| 80  | 0       | Trippelboggi | LinMSStat | Min | -197,26 | 0      | -1,296    | -0,0002258 | -1,6191 | 0       | 80-1  | 0       |
| 80  | 1,6295  | Trippelboggi | LinMSStat | Min | -197,26 | 0      | -1,296    | -0,0002258 | -0,4407 | 0       | 80-1  | 1,6295  |
| 80  | 3,259   | Trippelboggi | LinMSStat | Min | -197,26 | 0      | -1,296    | -0,0002258 | -1,6939 | 0       | 80-1  | 3,259   |
| 113 | 0       | Trippelboggi | LinMSStat | Max | 337,844 | 0      | 0,037     | 0,0031     | 0,0972  | 0       | 113-1 | 0       |
| 113 | 2,19965 | Trippelboggi | LinMSStat | Max | 337,844 | 0      | 0,037     | 0,0031     | 0,0148  | 0       | 113-1 | 2,19965 |
| 113 | 4,3993  | Trippelboggi | LinMSStat | Max | 337,844 | 0      | 0,037     | 0,0031     | 0,0084  | 0       | 113-1 | 4,3993  |
| 113 | 0       | Trippelboggi | LinMSStat | Min | -23,113 | 0      | -0,003424 | -0,0022    | -0,0078 | 0       | 113-1 | 0       |
| 113 | 2,19965 | Trippelboggi | LinMSStat | Min | -23,113 | 0      | -0,003424 | -0,0022    | -0,0027 | 0       | 113-1 | 2,19965 |
| 113 | 4,3993  | Trippelboggi | LinMSStat | Min | -23,113 | 0      | -0,003424 | -0,0022    | -0,0676 | 0       | 113-1 | 4,3993  |
| 130 | 0       | Trippelboggi | LinMSStat | Max | 572,162 | 0,994  | 4,931     | 0,0005018  | 8,8089  | 5,6427  | 130-1 | 0       |
| 130 | 0,46429 | Trippelboggi | LinMSStat | Max | 572,162 | 0,994  | 4,931     | 0,0005018  | 6,5196  | 5,1884  | 130-1 | 0,46429 |
| 130 | 0,92859 | Trippelboggi | LinMSStat | Max | 572,162 | 0,994  | 4,931     | 0,0005018  | 4,2303  | 4,734   | 130-1 | 0,92859 |
| 130 | 1,39288 | Trippelboggi | LinMSStat | Max | 572,162 | 0,994  | 4,931     | 0,0005018  | 1,9409  | 4,2796  | 130-1 | 1,39288 |
| 130 | 1,85717 | Trippelboggi | LinMSStat | Max | 572,162 | 0,994  | 4,931     | 0,0005018  | 0,3177  | 3,8252  | 130-1 | 1,85717 |
| 130 | 2,32146 | Trippelboggi | LinMSStat | Max | 572,162 | 0,994  | 4,931     | 0,0005018  | 0,68    | 3,3709  | 130-1 | 2,32146 |
| 130 | 2,78576 | Trippelboggi | LinMSStat | Max | 572,162 | 0,994  | 4,931     | 0,0005018  | 1,0423  | 2,9165  | 130-1 | 2,78576 |
| 130 | 3,25005 | Trippelboggi | LinMSStat | Max | 572,162 | 0,994  | 4,931     | 0,0005018  | 1,4045  | 2,6007  | 130-1 | 3,25005 |
| 130 | 3,25005 | Trippelboggi | LinMSStat | Max | 571,934 | 0,994  | 0,992     | 0,0004587  | 1,4048  | 2,6007  | 130-2 | 0       |
| 130 | 3,71434 | Trippelboggi | LinMSStat | Max | 571,934 | 0,994  | 0,992     | 0,0004587  | 0,9442  | 2,8456  | 130-2 | 0,46429 |
| 130 | 4,17863 | Trippelboggi | LinMSStat | Max | 571,934 | 0,994  | 0,992     | 0,0004587  | 0,5744  | 3,2494  | 130-2 | 0,92859 |
| 130 | 4,64293 | Trippelboggi | LinMSStat | Max | 571,934 | 0,994  | 0,992     | 0,0004587  | 0,278   | 3,6531  | 130-2 | 1,39288 |
| 130 | 5,10722 | Trippelboggi | LinMSStat | Max | 571,934 | 0,994  | 0,992     | 0,0004587  | 1,8468  | 4,0568  | 130-2 | 1,85717 |
| 130 | 5,57151 | Trippelboggi | LinMSStat | Max | 571,934 | 0,994  | 0,992     | 0,0004587  | 4,1207  | 4,4606  | 130-2 | 2,32146 |
| 130 | 6,03581 | Trippelboggi | LinMSStat | Max | 571,934 | 0,994  | 0,992     | 0,0004587  | 6,3946  | 4,8772  | 130-2 | 2,78576 |
| 130 | 6,5001  | Trippelboggi | LinMSStat | Max | 571,934 | 0,994  | 0,992     | 0,0004587  | 8,6684  | 5,2988  | 130-2 | 3,25005 |

|     |         |              |           |     |          |        |           |            |         |         |       |         |
|-----|---------|--------------|-----------|-----|----------|--------|-----------|------------|---------|---------|-------|---------|
| 130 | 0       | Trippelboggi | LinMSStat | Min | -121,609 | -0,908 | -0,826    | -0,0004329 | -1,5183 | -0,6031 | 130-1 | 0       |
| 130 | 0,46429 | Trippelboggi | LinMSStat | Min | -121,609 | -0,908 | -0,826    | -0,0004329 | -1,1346 | -0,5082 | 130-1 | 0,46429 |
| 130 | 0,92859 | Trippelboggi | LinMSStat | Min | -121,609 | -0,908 | -0,826    | -0,0004329 | -0,7509 | -0,4659 | 130-1 | 0,92859 |
| 130 | 1,39288 | Trippelboggi | LinMSStat | Min | -121,609 | -0,908 | -0,826    | -0,0004329 | -0,5278 | -0,4236 | 130-1 | 1,39288 |
| 130 | 1,85717 | Trippelboggi | LinMSStat | Min | -121,609 | -0,908 | -0,826    | -0,0004329 | -2,2293 | -0,3813 | 130-1 | 1,85717 |
| 130 | 2,32146 | Trippelboggi | LinMSStat | Min | -121,609 | -0,908 | -0,826    | -0,0004329 | -3,9617 | -0,339  | 130-1 | 2,32146 |
| 130 | 2,78576 | Trippelboggi | LinMSStat | Min | -121,609 | -0,908 | -0,826    | -0,0004329 | -5,694  | -0,2967 | 130-1 | 2,78576 |
| 130 | 3,25005 | Trippelboggi | LinMSStat | Min | -121,609 | -0,908 | -0,826    | -0,0004329 | -7,4264 | -0,3026 | 130-1 | 3,25005 |
| 130 | 3,25005 | Trippelboggi | LinMSStat | Min | -121,443 | -0,908 | -4,897    | -0,0004707 | -7,4351 | -0,3025 | 130-2 | 0       |
| 130 | 3,71434 | Trippelboggi | LinMSStat | Min | -121,443 | -0,908 | -4,897    | -0,0004707 | -5,7015 | -0,3433 | 130-2 | 0,46429 |
| 130 | 4,17863 | Trippelboggi | LinMSStat | Min | -121,443 | -0,908 | -4,897    | -0,0004707 | -3,987  | -0,384  | 130-2 | 0,92859 |
| 130 | 4,64293 | Trippelboggi | LinMSStat | Min | -121,443 | -0,908 | -4,897    | -0,0004707 | -2,2725 | -0,4247 | 130-2 | 1,39288 |
| 130 | 5,10722 | Trippelboggi | LinMSStat | Min | -121,443 | -0,908 | -4,897    | -0,0004707 | -0,5785 | -0,4654 | 130-2 | 1,85717 |
| 130 | 5,57151 | Trippelboggi | LinMSStat | Min | -121,443 | -0,908 | -4,897    | -0,0004707 | -0,8983 | -0,5061 | 130-2 | 2,32146 |
| 130 | 6,03581 | Trippelboggi | LinMSStat | Min | -121,443 | -0,908 | -4,897    | -0,0004707 | -1,3589 | -0,5469 | 130-2 | 2,78576 |
| 80  | 0       | Kjøretøy     | LinMSStat | Max | 5,303    | 0      | 0,239     | 0,000149   | 0,2516  | 0       | 80-1  | 0       |
| 80  | 1,6295  | Kjøretøy     | LinMSStat | Max | 5,303    | 0      | 0,239     | 0,000149   | 0,1643  | 0       | 80-1  | 1,6295  |
| 80  | 3,259   | Kjøretøy     | LinMSStat | Max | 5,303    | 0      | 0,239     | 0,000149   | 1,1928  | 0       | 80-1  | 3,259   |
| 80  | 0       | Kjøretøy     | LinMSStat | Min | -120,282 | 0      | -0,631    | -0,0002124 | -0,8648 | 0       | 80-1  | 0       |
| 80  | 1,6295  | Kjøretøy     | LinMSStat | Min | -120,282 | 0      | -0,631    | -0,0002124 | -0,1376 | 0       | 80-1  | 1,6295  |
| 80  | 3,259   | Kjøretøy     | LinMSStat | Min | -120,282 | 0      | -0,631    | -0,0002124 | -0,5269 | 0       | 80-1  | 3,259   |
| 113 | 0       | Kjøretøy     | LinMSStat | Max | 333,199  | 0      | 0,024     | 0,002      | 0,0625  | 0       | 113-1 | 0       |
| 113 | 2,19965 | Kjøretøy     | LinMSStat | Max | 333,199  | 0      | 0,024     | 0,002      | 0,0096  | 0       | 113-1 | 2,19965 |
| 113 | 4,3993  | Kjøretøy     | LinMSStat | Max | 333,199  | 0      | 0,024     | 0,002      | 0,006   | 0       | 113-1 | 4,3993  |
| 113 | 0       | Kjøretøy     | LinMSStat | Min | -21,044  | 0      | -0,002713 | -0,0022    | -0,0083 | 0       | 113-1 | 0       |
| 113 | 2,19965 | Kjøretøy     | LinMSStat | Min | -21,044  | 0      | -0,002713 | -0,0022    | -0,0029 | 0       | 113-1 | 2,19965 |
| 113 | 4,3993  | Kjøretøy     | LinMSStat | Min | -21,044  | 0      | -0,002713 | -0,0022    | -0,0432 | 0       | 113-1 | 4,3993  |
| 130 | 0       | Kjøretøy     | LinMSStat | Max | 574,74   | 0,861  | 4,684     | 0,0004258  | 8,0714  | 5,1132  | 130-1 | 0       |
| 130 | 0,46429 | Kjøretøy     | LinMSStat | Max | 574,74   | 0,861  | 4,684     | 0,0004258  | 5,9335  | 4,7184  | 130-1 | 0,46429 |
| 130 | 0,92859 | Kjøretøy     | LinMSStat | Max | 574,74   | 0,861  | 4,684     | 0,0004258  | 3,7956  | 4,3237  | 130-1 | 0,92859 |
| 130 | 1,39288 | Kjøretøy     | LinMSStat | Max | 574,74   | 0,861  | 4,684     | 0,0004258  | 1,7293  | 3,929   | 130-1 | 1,39288 |
| 130 | 1,85717 | Kjøretøy     | LinMSStat | Max | 574,74   | 0,861  | 4,684     | 0,0004258  | 0,3346  | 3,5342  | 130-1 | 1,85717 |

|     |         |          |           |     |          |        |        |            |         |         |       |         |
|-----|---------|----------|-----------|-----|----------|--------|--------|------------|---------|---------|-------|---------|
| 130 | 2,32146 | Kjøretøy | LinMSStat | Max | 574,74   | 0,861  | 4,684  | 0,0004258  | 0,7161  | 3,1482  | 130-1 | 2,32146 |
| 130 | 2,78576 | Kjøretøy | LinMSStat | Max | 574,74   | 0,861  | 4,684  | 0,0004258  | 1,0976  | 2,8665  | 130-1 | 2,78576 |
| 130 | 3,25005 | Kjøretøy | LinMSStat | Max | 574,74   | 0,861  | 4,684  | 0,0004258  | 1,479   | 2,7013  | 130-1 | 3,25005 |
| 130 | 3,25005 | Kjøretøy | LinMSStat | Max | 574,628  | 0,861  | 1,045  | 0,0003871  | 1,4793  | 2,7012  | 130-2 | 0       |
| 130 | 3,71434 | Kjøretøy | LinMSStat | Max | 574,628  | 0,861  | 1,045  | 0,0003871  | 0,9942  | 2,7919  | 130-2 | 0,46429 |
| 130 | 4,17863 | Kjøretøy | LinMSStat | Max | 574,628  | 0,861  | 1,045  | 0,0003871  | 0,603   | 3,0503  | 130-2 | 0,92859 |
| 130 | 4,64293 | Kjøretøy | LinMSStat | Max | 574,628  | 0,861  | 1,045  | 0,0003871  | 0,2919  | 3,376   | 130-2 | 1,39288 |
| 130 | 5,10722 | Kjøretøy | LinMSStat | Max | 574,628  | 0,861  | 1,045  | 0,0003871  | 1,6383  | 3,7017  | 130-2 | 1,85717 |
| 130 | 5,57151 | Kjøretøy | LinMSStat | Max | 574,628  | 0,861  | 1,045  | 0,0003871  | 3,675   | 4,0274  | 130-2 | 2,32146 |
| 130 | 6,03581 | Kjøretøy | LinMSStat | Max | 574,628  | 0,861  | 1,045  | 0,0003871  | 5,8153  | 4,3531  | 130-2 | 2,78576 |
| 130 | 6,5001  | Kjøretøy | LinMSStat | Max | 574,628  | 0,861  | 1,045  | 0,0003871  | 7,9555  | 4,6788  | 130-2 | 3,25005 |
| 130 | 0       | Kjøretøy | LinMSStat | Min | -128,06  | -0,758 | -0,867 | -0,000345  | -1,5939 | -0,5788 | 130-1 | 0       |
| 130 | 0,46429 | Kjøretøy | LinMSStat | Min | -128,06  | -0,758 | -0,867 | -0,000345  | -1,1911 | -0,5343 | 130-1 | 0,46429 |
| 130 | 0,92859 | Kjøretøy | LinMSStat | Min | -128,06  | -0,758 | -0,867 | -0,000345  | -0,7884 | -0,4899 | 130-1 | 0,92859 |
| 130 | 1,39288 | Kjøretøy | LinMSStat | Min | -128,06  | -0,758 | -0,867 | -0,000345  | -0,3856 | -0,4454 | 130-1 | 1,39288 |
| 130 | 1,85717 | Kjøretøy | LinMSStat | Min | -128,06  | -0,758 | -0,867 | -0,000345  | -1,9684 | -0,4009 | 130-1 | 1,85717 |
| 130 | 2,32146 | Kjøretøy | LinMSStat | Min | -128,06  | -0,758 | -0,867 | -0,000345  | -3,7895 | -0,3565 | 130-1 | 2,32146 |
| 130 | 2,78576 | Kjøretøy | LinMSStat | Min | -128,06  | -0,758 | -0,867 | -0,000345  | -5,7253 | -0,312  | 130-1 | 2,78576 |
| 130 | 3,25005 | Kjøretøy | LinMSStat | Min | -128,06  | -0,758 | -0,867 | -0,000345  | -7,7421 | -0,3193 | 130-1 | 3,25005 |
| 130 | 3,25005 | Kjøretøy | LinMSStat | Min | -127,886 | -0,758 | -4,712 | -0,0003806 | -7,7431 | -0,3192 | 130-2 | 0       |
| 130 | 3,71434 | Kjøretøy | LinMSStat | Min | -127,886 | -0,758 | -4,712 | -0,0003806 | -5,687  | -0,3622 | 130-2 | 0,46429 |
| 130 | 4,17863 | Kjøretøy | LinMSStat | Min | -127,886 | -0,758 | -4,712 | -0,0003806 | -3,7767 | -0,4052 | 130-2 | 0,92859 |
| 130 | 4,64293 | Kjøretøy | LinMSStat | Min | -127,886 | -0,758 | -4,712 | -0,0003806 | -2,0049 | -0,4481 | 130-2 | 1,39288 |
| 130 | 5,10722 | Kjøretøy | LinMSStat | Min | -127,886 | -0,758 | -4,712 | -0,0003806 | -0,4611 | -0,4911 | 130-2 | 1,85717 |
| 130 | 5,57151 | Kjøretøy | LinMSStat | Min | -127,886 | -0,758 | -4,712 | -0,0003806 | -0,9461 | -0,534  | 130-2 | 2,32146 |
| 130 | 6,03581 | Kjøretøy | LinMSStat | Min | -127,886 | -0,758 | -4,712 | -0,0003806 | -1,4312 | -0,577  | 130-2 | 2,78576 |
| 130 | 6,5001  | Kjøretøy | LinMSStat | Min | -127,886 | -0,758 | -4,712 | -0,0003806 | -1,9163 | -0,6449 | 130-2 | 3,25005 |
| 80  | 0       | Vogntog  | LinMSStat | Max | 5,177    | 0      | 0,23   | 0,0001163  | 0,2212  | 0       | 80-1  | 0       |
| 80  | 1,6295  | Vogntog  | LinMSStat | Max | 5,177    | 0      | 0,23   | 0,0001163  | 0,1774  | 0       | 80-1  | 1,6295  |
| 80  | 3,259   | Vogntog  | LinMSStat | Max | 5,177    | 0      | 0,23   | 0,0001163  | 1,6717  | 0       | 80-1  | 3,259   |
| 80  | 0       | Vogntog  | LinMSStat | Min | -107,587 | 0      | -0,917 | -0,000296  | -1,3169 | 0       | 80-1  | 0       |
| 80  | 1,6295  | Vogntog  | LinMSStat | Min | -107,587 | 0      | -0,917 | -0,000296  | -0,1541 | 0       | 80-1  | 1,6295  |

|     |         |         |           |     |          |        |           |            |          |         |       |         |
|-----|---------|---------|-----------|-----|----------|--------|-----------|------------|----------|---------|-------|---------|
| 80  | 3,259   | Vogntog | LinMSStat | Min | -107,587 | 0      | -0,917    | -0,000296  | -0,5294  | 0       | 80-1  | 3,259   |
| 113 | 0       | Vogntog | LinMSStat | Max | 540,277  | 0      | 0,02      | 0,0015     | 0,0543   | 0       | 113-1 | 0       |
| 113 | 2,19965 | Vogntog | LinMSStat | Max | 540,277  | 0      | 0,02      | 0,0015     | 0,0092   | 0       | 113-1 | 2,19965 |
| 113 | 4,3993  | Vogntog | LinMSStat | Max | 540,277  | 0      | 0,02      | 0,0015     | 0,0102   | 0       | 113-1 | 4,3993  |
| 113 | 0       | Vogntog | LinMSStat | Min | -24,543  | 0      | -0,004733 | -0,0032    | -0,0155  | 0       | 113-1 | 0       |
| 113 | 2,19965 | Vogntog | LinMSStat | Min | -24,543  | 0      | -0,004733 | -0,0032    | -0,0055  | 0       | 113-1 | 2,19965 |
| 113 | 4,3993  | Vogntog | LinMSStat | Min | -24,543  | 0      | -0,004733 | -0,0032    | -0,0358  | 0       | 113-1 | 4,3993  |
| 130 | 0       | Vogntog | LinMSStat | Max | 947,907  | 0,861  | 7,573     | 0,0003497  | 12,3629  | 5,4484  | 130-1 | 0       |
| 130 | 0,46429 | Vogntog | LinMSStat | Max | 947,907  | 0,861  | 7,573     | 0,0003497  | 8,859    | 5,0948  | 130-1 | 0,46429 |
| 130 | 0,92859 | Vogntog | LinMSStat | Max | 947,907  | 0,861  | 7,573     | 0,0003497  | 5,3551   | 4,8779  | 130-1 | 0,92859 |
| 130 | 1,39288 | Vogntog | LinMSStat | Max | 947,907  | 0,861  | 7,573     | 0,0003497  | 2,2221   | 4,6742  | 130-1 | 1,39288 |
| 130 | 1,85717 | Vogntog | LinMSStat | Max | 947,907  | 0,861  | 7,573     | 0,0003497  | 0,6247   | 4,5026  | 130-1 | 1,85717 |
| 130 | 2,32146 | Vogntog | LinMSStat | Max | 947,907  | 0,861  | 7,573     | 0,0003497  | 1,3369   | 4,3826  | 130-1 | 2,32146 |
| 130 | 2,78576 | Vogntog | LinMSStat | Max | 947,907  | 0,861  | 7,573     | 0,0003497  | 2,0492   | 4,2782  | 130-1 | 2,78576 |
| 130 | 3,25005 | Vogntog | LinMSStat | Max | 947,907  | 0,861  | 7,573     | 0,0003497  | 2,7615   | 4,2167  | 130-1 | 3,25005 |
| 130 | 3,25005 | Vogntog | LinMSStat | Max | 947,977  | 0,861  | 1,951     | 0,0004044  | 2,7619   | 4,2166  | 130-2 | 0       |
| 130 | 3,71434 | Vogntog | LinMSStat | Max | 947,977  | 0,861  | 1,951     | 0,0004044  | 1,8563   | 4,2075  | 130-2 | 0,46429 |
| 130 | 4,17863 | Vogntog | LinMSStat | Max | 947,977  | 0,861  | 1,951     | 0,0004044  | 1,0843   | 4,223   | 130-2 | 0,92859 |
| 130 | 4,64293 | Vogntog | LinMSStat | Max | 947,977  | 0,861  | 1,951     | 0,0004044  | 0,525    | 4,2768  | 130-2 | 1,39288 |
| 130 | 5,10722 | Vogntog | LinMSStat | Max | 947,977  | 0,861  | 1,951     | 0,0004044  | 2,2145   | 4,4067  | 130-2 | 1,85717 |
| 130 | 5,57151 | Vogntog | LinMSStat | Max | 947,977  | 0,861  | 1,951     | 0,0004044  | 5,2818   | 4,5366  | 130-2 | 2,32146 |
| 130 | 6,03581 | Vogntog | LinMSStat | Max | 947,977  | 0,861  | 1,951     | 0,0004044  | 8,7384   | 4,7577  | 130-2 | 2,78576 |
| 130 | 6,5001  | Vogntog | LinMSStat | Max | 947,977  | 0,861  | 1,951     | 0,0004044  | 12,24    | 5,0624  | 130-2 | 3,25005 |
| 130 | 0       | Vogntog | LinMSStat | Min | -239,097 | -0,749 | -1,56     | -0,0004174 | -2,8664  | -1,043  | 130-1 | 0       |
| 130 | 0,46429 | Vogntog | LinMSStat | Min | -239,097 | -0,749 | -1,56     | -0,0004174 | -2,1422  | -0,9629 | 130-1 | 0,46429 |
| 130 | 0,92859 | Vogntog | LinMSStat | Min | -239,097 | -0,749 | -1,56     | -0,0004174 | -1,4179  | -0,8828 | 130-1 | 0,92859 |
| 130 | 1,39288 | Vogntog | LinMSStat | Min | -239,097 | -0,749 | -1,56     | -0,0004174 | -0,6937  | -0,8026 | 130-1 | 1,39288 |
| 130 | 1,85717 | Vogntog | LinMSStat | Min | -239,097 | -0,749 | -1,56     | -0,0004174 | -2,4555  | -0,7225 | 130-1 | 1,85717 |
| 130 | 2,32146 | Vogntog | LinMSStat | Min | -239,097 | -0,749 | -1,56     | -0,0004174 | -5,715   | -0,6424 | 130-1 | 2,32146 |
| 130 | 2,78576 | Vogntog | LinMSStat | Min | -239,097 | -0,749 | -1,56     | -0,0004174 | -9,0201  | -0,5623 | 130-1 | 2,78576 |
| 130 | 3,25005 | Vogntog | LinMSStat | Min | -239,097 | -0,749 | -1,56     | -0,0004174 | -12,3626 | -0,5954 | 130-1 | 3,25005 |
| 130 | 3,25005 | Vogntog | LinMSStat | Min | -238,771 | -0,749 | -7,548    | -0,0004238 | -12,3637 | -0,5953 | 130-2 | 0       |
| 130 | 3,71434 | Vogntog | LinMSStat | Min | -238,771 | -0,749 | -7,548    | -0,0004238 | -9,0397  | -0,6755 | 130-2 | 0,46429 |

|     |         |         |           |     |          |        |        |            |         |         |       |         |
|-----|---------|---------|-----------|-----|----------|--------|--------|------------|---------|---------|-------|---------|
| 130 | 4,17863 | Vogntog | LinMSStat | Min | -238,771 | -0,749 | -7,548 | -0,0004238 | -5,7491 | -0,7556 | 130-2 | 0,92859 |
| 130 | 4,64293 | Vogntog | LinMSStat | Min | -238,771 | -0,749 | -7,548 | -0,0004238 | -2,5252 | -0,8357 | 130-2 | 1,39288 |
| 130 | 5,10722 | Vogntog | LinMSStat | Min | -238,771 | -0,749 | -7,548 | -0,0004238 | -0,8607 | -0,9158 | 130-2 | 1,85717 |
| 130 | 5,57151 | Vogntog | LinMSStat | Min | -238,771 | -0,749 | -7,548 | -0,0004238 | -1,7663 | -0,996  | 130-2 | 2,32146 |
| 130 | 6,03581 | Vogntog | LinMSStat | Min | -238,771 | -0,749 | -7,548 | -0,0004238 | -2,672  | -1,0761 | 130-2 | 2,78576 |
| 130 | 6,5001  | Vogntog | LinMSStat | Min | -238,771 | -0,749 | -7,548 | -0,0004238 | -3,5776 | -1,1562 | 130-2 | 3,25005 |

Sammenstilling av aksialkrefter for de ulike stavene og lastene

| Stavn. | Elementnavn | Lastform | Vindlast | Boggilast | Trippel-<br>boggi | Kjøretøy | Vogntog  | Største<br>trykklast |
|--------|-------------|----------|----------|-----------|-------------------|----------|----------|----------------------|
| 80     | V-3         | Strekk   |          | 19,924    | 15,234            | 5,303    | 5,177    |                      |
|        |             | Trykk    | -7,673   | -179,193  | -197,26           | -120,282 | -107,587 | -197,26              |
| 113    | D-7         | Strekk   | 67,911   | 283,925   | 337,844           | 333,199  | 540,277  |                      |
|        |             | Trykk    |          | -19,824   | -23,113           | -21,044  | -24,543  | -24,543              |
| 130    | UG-6        | Strekk   | 71,816   | 466,227   | 571,934           | 574,74   | 947,907  |                      |
|        |             | Trykk    |          | -98,062   | -121,443          | -128,06  | -239,097 | -239,097             |

## Vedlegg K.2 Lastkombinasjon a lett trafikk

**TABLE: Element Forces - Frames**

| Frame | Station | OutputCase           | CaseType    | StepType | P      | V2       | V3      | T        | M2      | M3      | FrameElem | ElemStation |
|-------|---------|----------------------|-------------|----------|--------|----------|---------|----------|---------|---------|-----------|-------------|
| Text  | m       | Text                 | Text        | Text     | KN     | KN       | KN      | KN-m     | KN-m    | KN-m    | Text      | m           |
| 1     | 0       | A inkl. lett trafikk | Combination | Max      | -309   | -60,93   | -8,382  | -0,0015  | -2,543  | -22,783 | 1-1       | 0           |
| 1     | 0,2501  | A inkl. lett trafikk | Combination | Max      | -309,1 | -49,723  | -8,382  | -0,0015  | -0,1401 | -4,0918 | 1-1       | 0,25008     |
| 1     | 0,2501  | A inkl. lett trafikk | Combination | Max      | -291,4 | -49,74   | 0,72    | -0,0015  | -0,1401 | -4,0918 | 1-2       | 0           |
| 1     | 1,2504  | A inkl. lett trafikk | Combination | Max      | -291,8 | -4,915   | 0,72    | -0,0015  | -0,7588 | 56,5183 | 1-2       | 1,00031     |
| 1     | 1,2504  | A inkl. lett trafikk | Combination | Max      | -275,6 | -4,915   | -0,155  | -0,0015  | -0,7588 | 56,5183 | 1-3       | 0           |
| 1     | 1,438   | A inkl. lett trafikk | Combination | Max      | -275,6 | 32,231   | -0,155  | -0,0015  | -0,7259 | 51,6349 | 1-3       | 0,18756     |
| 1     | 2,2507  | A inkl. lett trafikk | Combination | Max      | -276   | 68,652   | -0,155  | -0,0015  | -0,5808 | 24,0383 | 1-3       | 1,00031     |
| 1     | 2,2507  | A inkl. lett trafikk | Combination | Max      | -261,1 | 80,095   | -0,2    | -0,0015  | -0,5808 | 24,0383 | 1-4       | 0           |
| 1     | 2,8749  | A inkl. lett trafikk | Combination | Max      | -261,4 | 138,539  | -0,2    | -0,0015  | -0,449  | -25,538 | 1-4       | 0,62419     |
| 1     | 2,8749  | A inkl. lett trafikk | Combination | Max      | -261,4 | 138,539  | -0,2    | -0,0015  | -0,449  | -25,538 | 1-4       | 0,62419     |
| 1     | 2,8759  | A inkl. lett trafikk | Combination | Max      | -261,4 | 138,584  | -0,2    | -0,0015  | -0,4488 | -25,603 | 1-4       | 0,62519     |
| 1     | 0       | A inkl. lett trafikk | Combination | Min      | -622,8 | -147,408 | -15,622 | -0,0024  | -4,1246 | -47,591 | 1-1       | 0           |
| 1     | 0,2501  | A inkl. lett trafikk | Combination | Min      | -622,9 | -136,201 | -15,622 | -0,0024  | -0,963  | -20,418 | 1-1       | 0,25008     |
| 1     | 0,2501  | A inkl. lett trafikk | Combination | Min      | -596,5 | -106,798 | 0,192   | -0,0024  | -0,963  | -20,418 | 1-2       | 0           |
| 1     | 1,2504  | A inkl. lett trafikk | Combination | Min      | -596,6 | -50,614  | 0,192   | -0,0024  | -1,1604 | 16,2836 | 1-2       | 1,00031     |
| 1     | 1,2504  | A inkl. lett trafikk | Combination | Min      | -573,3 | -19,875  | -0,289  | -0,0024  | -1,1604 | 16,2836 | 1-3       | 0           |
| 1     | 1,438   | A inkl. lett trafikk | Combination | Min      | -573,1 | -0,767   | -0,289  | -0,0024  | -1,1104 | 17,2156 | 1-3       | 0,18756     |
| 1     | 2,2507  | A inkl. lett trafikk | Combination | Min      | -573,5 | 35,654   | -0,289  | -0,0024  | -0,8941 | -0,3435 | 1-3       | 1,00031     |
| 1     | 2,2507  | A inkl. lett trafikk | Combination | Min      | -552,5 | 35,55    | -0,319  | -0,0024  | -0,8941 | -0,3435 | 1-4       | 0           |
| 1     | 2,8749  | A inkl. lett trafikk | Combination | Min      | -551,9 | 63,521   | -0,319  | -0,0024  | -0,6984 | -55,062 | 1-4       | 0,62419     |
| 1     | 2,8749  | A inkl. lett trafikk | Combination | Min      | -551,9 | 63,521   | -0,319  | -0,0024  | -0,6984 | -55,062 | 1-4       | 0,62419     |
| 1     | 2,8759  | A inkl. lett trafikk | Combination | Min      | -551,9 | 63,565   | -0,319  | -0,0024  | -0,6981 | -55,182 | 1-4       | 0,62519     |
| 2     | 0       | A inkl. lett trafikk | Combination | Max      | -320,7 | 0        | 2,151   | -0,00019 | 3,1458  | 0       | 2-1       | 0           |
| 2     | 1,375   | A inkl. lett trafikk | Combination | Max      | -320   | 0        | 2,151   | -0,00019 | 0,6316  | 0       | 2-1       | 1,375       |
| 2     | 2,75    | A inkl. lett trafikk | Combination | Max      | -319,4 | 0        | 2,151   | -0,00019 | 0,0036  | 0       | 2-1       | 2,75        |
| 2     | 0       | A inkl. lett trafikk | Combination | Min      | -504,1 | 0        | 0,429   | -0,00041 | 1,1831  | 0       | 2-1       | 0           |
| 2     | 1,375   | A inkl. lett trafikk | Combination | Min      | -503,4 | 0        | 0,429   | -0,00041 | 0,0888  | 0       | 2-1       | 1,375       |
| 2     | 2,75    | A inkl. lett trafikk | Combination | Min      | -502,8 | 0        | 0,429   | -0,00041 | -2,7691 | 0       | 2-1       | 2,75        |
| 3     | 0       | A inkl. lett trafikk | Combination | Max      | -329,5 | -4,1E-17 | 5,397   | -0,014   | 8,1414  | 0       | 3-1       | 0           |
| 3     | 1,2038  | A inkl. lett trafikk | Combination | Max      | -329   | 0        | 4,719   | -0,014   | 2,2349  | 2,5E-17 | 3-1       | 1,20376     |

|   |        |                      |             |     |        |          |        |         |         |         |     |         |
|---|--------|----------------------|-------------|-----|--------|----------|--------|---------|---------|---------|-----|---------|
| 3 | 2,4075 | A inkl. lett trafikk | Combination | Max | -328,5 | 4,15E-17 | 4,042  | -0,014  | -1,892  | 0       | 3-1 | 2,40751 |
| 3 | 0      | A inkl. lett trafikk | Combination | Min | -530,2 | -4,1E-17 | 3,89   | -0,0153 | 5,7643  | 0       | 3-1 | 0       |
| 3 | 1,2038 | A inkl. lett trafikk | Combination | Min | -529,8 | 0        | 3,213  | -0,0153 | 1,4894  | 2,5E-17 | 3-1 | 1,20376 |
| 3 | 2,4075 | A inkl. lett trafikk | Combination | Min | -529,3 | 4,15E-17 | 2,535  | -0,0153 | -3,2208 | 0       | 3-1 | 2,40751 |
| 4 | 0      | A inkl. lett trafikk | Combination | Max | -652,9 | -66,919  | -0,2   | -0,0033 | -0,4478 | -28,094 | 4-1 | 0       |
| 4 | 0,3751 | A inkl. lett trafikk | Combination | Max | -653   | -50,11   | -0,2   | -0,0033 | -0,3686 | 1,7773  | 4-1 | 0,37511 |
| 4 | 0,3751 | A inkl. lett trafikk | Combination | Max | -647,8 | -50,406  | -0,138 | -0,0033 | -0,3686 | 1,7773  | 4-2 | 0       |
| 4 | 1,3754 | A inkl. lett trafikk | Combination | Max | -648,3 | -5,582   | -0,138 | -0,0033 | -0,198  | 61,9363 | 4-2 | 1,00029 |
| 4 | 1,3754 | A inkl. lett trafikk | Combination | Max | -647,2 | -5,34    | -0,997 | -0,0033 | -0,198  | 61,9363 | 4-3 | 0       |
| 4 | 1,4379 | A inkl. lett trafikk | Combination | Max | -647,2 | 26,925   | -0,997 | -0,0033 | -0,1303 | 60,7142 | 4-3 | 0,06252 |
| 4 | 2,3757 | A inkl. lett trafikk | Combination | Max | -647,7 | 68,948   | -0,997 | -0,0033 | 1,4701  | 28,7711 | 4-3 | 1,00029 |
| 4 | 2,3757 | A inkl. lett trafikk | Combination | Max | -650,8 | 81,11    | 10,663 | -0,0033 | 1,4701  | 28,7711 | 4-4 | 0       |
| 4 | 2,8749 | A inkl. lett trafikk | Combination | Max | -651   | 133,752  | 10,663 | -0,0033 | -1,8738 | -13,63  | 4-4 | 0,49915 |
| 4 | 2,8749 | A inkl. lett trafikk | Combination | Max | -651   | 133,752  | 10,663 | -0,0033 | -1,8738 | -13,63  | 4-4 | 0,49915 |
| 4 | 2,8759 | A inkl. lett trafikk | Combination | Max | -651   | 133,797  | 10,663 | -0,0033 | -1,8793 | -13,689 | 4-4 | 0,50015 |
| 4 | 0      | A inkl. lett trafikk | Combination | Min | -1188  | -152,723 | -0,319 | -0,005  | -0,6973 | -58,173 | 4-1 | 0       |
| 4 | 0,3751 | A inkl. lett trafikk | Combination | Min | -1188  | -135,914 | -0,319 | -0,005  | -0,5797 | -16,966 | 4-1 | 0,37511 |
| 4 | 0,3751 | A inkl. lett trafikk | Combination | Min | -1168  | -106,501 | -0,281 | -0,005  | -0,5797 | -16,966 | 4-2 | 0       |
| 4 | 1,3754 | A inkl. lett trafikk | Combination | Min | -1168  | -50,319  | -0,281 | -0,005  | -0,3106 | 19,5901 | 4-2 | 1,00029 |
| 4 | 1,3754 | A inkl. lett trafikk | Combination | Min | -1156  | -19,794  | -1,739 | -0,005  | -0,3106 | 19,5901 | 4-3 | 0       |
| 4 | 1,4379 | A inkl. lett trafikk | Combination | Min | -1156  | -8,244   | -1,739 | -0,005  | -0,2378 | 20,1931 | 4-3 | 0,06252 |
| 4 | 2,3757 | A inkl. lett trafikk | Combination | Min | -1156  | 33,778   | -1,739 | -0,005  | 0,7879  | 5,0232  | 4-3 | 1,00029 |
| 4 | 2,3757 | A inkl. lett trafikk | Combination | Min | -1151  | 34,118   | 5,45   | -0,005  | 0,7879  | 5,0232  | 4-4 | 0       |
| 4 | 2,8749 | A inkl. lett trafikk | Combination | Min | -1151  | 56,485   | 5,45   | -0,005  | -3,8578 | -35,864 | 4-4 | 0,49915 |
| 4 | 2,8749 | A inkl. lett trafikk | Combination | Min | -1151  | 56,485   | 5,45   | -0,005  | -3,8578 | -35,864 | 4-4 | 0,49915 |
| 4 | 2,8759 | A inkl. lett trafikk | Combination | Min | -1151  | 56,53    | 5,45   | -0,005  | -3,8685 | -35,979 | 4-4 | 0,50015 |
| 5 | 0      | A inkl. lett trafikk | Combination | Max | 530,5  | -2,9E-17 | 2,35   | 0,0024  | 3,2244  | 0       | 5-1 | 0       |
| 5 | 1,2151 | A inkl. lett trafikk | Combination | Max | 530,83 | 0        | 1,871  | 0,0024  | 1,3869  | 1,8E-17 | 5-1 | 1,21513 |
| 5 | 2,4303 | A inkl. lett trafikk | Combination | Max | 531,17 | 2,93E-17 | 1,392  | 0,0024  | 1,0574  | 0       | 5-1 | 2,43025 |
| 5 | 0      | A inkl. lett trafikk | Combination | Min | 329,22 | -2,9E-17 | 0,824  | 0,002   | 1,8957  | 0       | 5-1 | 0       |
| 5 | 1,2151 | A inkl. lett trafikk | Combination | Min | 329,56 | 0        | 0,345  | 0,002   | 0,6288  | 1,8E-17 | 5-1 | 1,21513 |
| 5 | 2,4303 | A inkl. lett trafikk | Combination | Min | 329,89 | 2,93E-17 | -0,134 | 0,002   | -1,3221 | 0       | 5-1 | 2,43025 |
| 6 | 0      | A inkl. lett trafikk | Combination | Max | 445,97 | -16,212  | 17,728 | 0,0024  | 16,235  | 0       | 6-1 | 0       |



|   |        |                      |             |     |        |         |        |         |         |         |     |         |
|---|--------|----------------------|-------------|-----|--------|---------|--------|---------|---------|---------|-----|---------|
| 6 | 0,9952 | A inkl. lett trafikk | Combination | Max | 445,22 | 28,378  | 17,728 | 0,0024  | 0,4737  | 24,8365 | 6-1 | 0,99515 |
| 6 | 0,9952 | A inkl. lett trafikk | Combination | Max | 461,64 | 35,826  | -0,938 | 0,0024  | 0,4737  | 24,8365 | 6-2 | 0       |
| 6 | 1,9893 | A inkl. lett trafikk | Combination | Max | 460,89 | 116,407 | -0,938 | 0,0024  | 1,4592  | -42,346 | 6-2 | 0,99415 |
| 6 | 1,9893 | A inkl. lett trafikk | Combination | Max | 460,89 | 116,407 | -0,938 | 0,0024  | 1,4592  | -42,346 | 6-2 | 0,99415 |
| 6 | 1,9903 | A inkl. lett trafikk | Combination | Max | 460,89 | 116,452 | -0,938 | 0,0024  | 1,4607  | -42,412 | 6-2 | 0,99515 |
| 6 | 0      | A inkl. lett trafikk | Combination | Min | 169,29 | -47,252 | 6,972  | 0,00039 | 6,9711  | 0       | 6-1 | 0       |
| 6 | 0,9952 | A inkl. lett trafikk | Combination | Min | 168,54 | -2,663  | 6,972  | 0,00039 | -1,4069 | -6,0536 | 6-1 | 0,99515 |
| 6 | 0,9952 | A inkl. lett trafikk | Combination | Min | 175,05 | 21,309  | -2,533 | 0,00039 | -1,4069 | -6,0536 | 6-2 | 0       |
| 6 | 1,9893 | A inkl. lett trafikk | Combination | Min | 174,31 | 65,854  | -2,533 | 0,00039 | 0,9661  | -71,214 | 6-2 | 0,99415 |
| 6 | 1,9893 | A inkl. lett trafikk | Combination | Min | 174,31 | 65,854  | -2,533 | 0,00039 | 0,9661  | -71,214 | 6-2 | 0,99415 |
| 6 | 1,9903 | A inkl. lett trafikk | Combination | Min | 174,31 | 65,899  | -2,533 | 0,00039 | 0,9671  | -71,306 | 6-2 | 0,99515 |
| 7 | 0      | A inkl. lett trafikk | Combination | Max | -375,4 | 0       | 0,202  | 0,0114  | -0,0116 | 0       | 7-1 | 0       |
| 7 | 0,68   | A inkl. lett trafikk | Combination | Max | -375   | 0       | 0,202  | 0,0114  | -0,0679 | 0       | 7-1 | 0,68    |
| 7 | 1,36   | A inkl. lett trafikk | Combination | Max | -374,5 | 0       | 0,202  | 0,0114  | -0,123  | 0       | 7-1 | 1,36    |
| 7 | 0      | A inkl. lett trafikk | Combination | Min | -603,7 | 0       | 0,081  | 0,0092  | -0,0129 | 0       | 7-1 | 0       |
| 7 | 0,68   | A inkl. lett trafikk | Combination | Min | -603,3 | 0       | 0,081  | 0,0092  | -0,1491 | 0       | 7-1 | 0,68    |
| 7 | 1,36   | A inkl. lett trafikk | Combination | Min | -602,9 | 0       | 0,081  | 0,0092  | -0,2864 | 0       | 7-1 | 1,36    |
| 8 | 0      | A inkl. lett trafikk | Combination | Max | -1197  | -8,238  | -0,187 | -0,002  | -0,6282 | -21,573 | 8-1 | 0       |
| 8 | 0,4643 | A inkl. lett trafikk | Combination | Max | -1197  | -7,571  | -0,187 | -0,002  | -0,5415 | -17,903 | 8-1 | 0,46429 |
| 8 | 0,9286 | A inkl. lett trafikk | Combination | Max | -1197  | -6,904  | -0,187 | -0,002  | -0,4549 | -14,543 | 8-1 | 0,92859 |
| 8 | 1,3929 | A inkl. lett trafikk | Combination | Max | -1197  | -6,236  | -0,187 | -0,002  | -0,3683 | -11,493 | 8-1 | 1,39288 |
| 8 | 1,8572 | A inkl. lett trafikk | Combination | Max | -1197  | -5,569  | -0,187 | -0,002  | -0,2776 | -8,7519 | 8-1 | 1,85717 |
| 8 | 2,3215 | A inkl. lett trafikk | Combination | Max | -1197  | -4,902  | -0,187 | -0,002  | -0,1861 | -6,3211 | 8-1 | 2,32146 |
| 8 | 2,7858 | A inkl. lett trafikk | Combination | Max | -1197  | -4,234  | -0,187 | -0,002  | -0,0947 | -3,7397 | 8-1 | 2,78576 |
| 8 | 3,2501 | A inkl. lett trafikk | Combination | Max | -1197  | -3,567  | -0,187 | -0,002  | -0,0032 | -0,8105 | 8-1 | 3,25005 |
| 8 | 0      | A inkl. lett trafikk | Combination | Min | -1644  | -10,773 | -0,236 | -0,0028 | -0,8483 | -28,327 | 8-1 | 0       |
| 8 | 0,4643 | A inkl. lett trafikk | Combination | Min | -1644  | -10,106 | -0,236 | -0,0028 | -0,7389 | -23,659 | 8-1 | 0,46429 |
| 8 | 0,9286 | A inkl. lett trafikk | Combination | Min | -1644  | -9,439  | -0,236 | -0,0028 | -0,6295 | -19,3   | 8-1 | 0,92859 |
| 8 | 1,3929 | A inkl. lett trafikk | Combination | Min | -1644  | -8,772  | -0,236 | -0,0028 | -0,5201 | -15,251 | 8-1 | 1,39288 |
| 8 | 1,8572 | A inkl. lett trafikk | Combination | Min | -1644  | -8,104  | -0,236 | -0,0028 | -0,4107 | -11,537 | 8-1 | 1,85717 |
| 8 | 2,3215 | A inkl. lett trafikk | Combination | Min | -1644  | -7,437  | -0,236 | -0,0028 | -0,3013 | -8,3789 | 8-1 | 2,32146 |
| 8 | 2,7858 | A inkl. lett trafikk | Combination | Min | -1644  | -6,77   | -0,236 | -0,0028 | -0,1919 | -5,8877 | 8-1 | 2,78576 |
| 8 | 3,2501 | A inkl. lett trafikk | Combination | Min | -1644  | -6,102  | -0,236 | -0,0028 | -0,0825 | -3,7134 | 8-1 | 3,25005 |

|    |        |                      |             |     |        |        |          |         |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|--------|----------|---------|---------|---------|------|---------|
| 9  | 0      | A inkl. lett trafikk | Combination | Max | -1196  | -2,153 | -0,187   | -0,002  | -0,0034 | -1,5249 | 9-1  | 0       |
| 9  | 0,4643 | A inkl. lett trafikk | Combination | Max | -1196  | -1,485 | -0,187   | -0,002  | 0,0881  | -0,514  | 9-1  | 0,46429 |
| 9  | 0,9286 | A inkl. lett trafikk | Combination | Max | -1196  | -0,818 | -0,187   | -0,002  | 0,1795  | 0,1932  | 9-1  | 0,92859 |
| 9  | 1,3929 | A inkl. lett trafikk | Combination | Max | -1196  | -0,151 | -0,187   | -0,002  | 0,274   | 0,5906  | 9-1  | 1,39288 |
| 9  | 1,8572 | A inkl. lett trafikk | Combination | Max | -1196  | 0,516  | -0,187   | -0,002  | 0,3785  | 0,7718  | 9-1  | 1,85717 |
| 9  | 2,3215 | A inkl. lett trafikk | Combination | Max | -1196  | 1,184  | -0,187   | -0,002  | 0,4831  | 0,8619  | 9-1  | 2,32146 |
| 9  | 2,7858 | A inkl. lett trafikk | Combination | Max | -1196  | 1,851  | -0,187   | -0,002  | 0,5877  | 0,6422  | 9-1  | 2,78576 |
| 9  | 3,2501 | A inkl. lett trafikk | Combination | Max | -1196  | 2,518  | -0,187   | -0,002  | 0,6922  | 0,1126  | 9-1  | 3,25005 |
| 9  | 0      | A inkl. lett trafikk | Combination | Min | -1644  | -3,228 | -0,236   | -0,0029 | -0,0828 | -4,2481 | 9-1  | 0       |
| 9  | 0,4643 | A inkl. lett trafikk | Combination | Min | -1644  | -2,561 | -0,236   | -0,0029 | 0,0266  | -3,2651 | 9-1  | 0,46429 |
| 9  | 0,9286 | A inkl. lett trafikk | Combination | Min | -1644  | -1,893 | -0,236   | -0,0029 | 0,136   | -2,5946 | 9-1  | 0,92859 |
| 9  | 1,3929 | A inkl. lett trafikk | Combination | Min | -1644  | -1,226 | -0,236   | -0,0029 | 0,238   | -2,2351 | 9-1  | 1,39288 |
| 9  | 1,8572 | A inkl. lett trafikk | Combination | Min | -1644  | -0,559 | -0,236   | -0,0029 | 0,3247  | -2,1856 | 9-1  | 1,85717 |
| 9  | 2,3215 | A inkl. lett trafikk | Combination | Min | -1644  | 0,109  | -0,236   | -0,0029 | 0,4113  | -2,446  | 9-1  | 2,32146 |
| 9  | 2,7858 | A inkl. lett trafikk | Combination | Min | -1644  | 0,776  | -0,236   | -0,0029 | 0,4979  | -3,0161 | 9-1  | 2,78576 |
| 9  | 3,2501 | A inkl. lett trafikk | Combination | Min | -1644  | 1,443  | -0,236   | -0,0029 | 0,5846  | -3,8962 | 9-1  | 3,25005 |
| 10 | 0      | A inkl. lett trafikk | Combination | Max | 552,41 | -3,649 | -0,00591 | 0,00095 | 0,11    | -4,2124 | 10-1 | 0       |
| 10 | 0,5    | A inkl. lett trafikk | Combination | Max | 552,41 | -3,199 | -0,00591 | 0,00095 | 0,113   | -2,3335 | 10-1 | 0,50001 |
| 10 | 1      | A inkl. lett trafikk | Combination | Max | 552,4  | -2,748 | -0,00591 | 0,00095 | 0,1159  | -0,6801 | 10-1 | 1,00002 |
| 10 | 1,5    | A inkl. lett trafikk | Combination | Max | 552,4  | -2,297 | -0,00591 | 0,00095 | 0,1189  | 0,7479  | 10-1 | 1,50002 |
| 10 | 2      | A inkl. lett trafikk | Combination | Max | 552,4  | -1,846 | -0,00591 | 0,00095 | 0,1218  | 1,9504  | 10-1 | 2,00003 |
| 10 | 2,5    | A inkl. lett trafikk | Combination | Max | 552,4  | -1,395 | -0,00591 | 0,00095 | 0,1248  | 2,9276  | 10-1 | 2,50004 |
| 10 | 3,0001 | A inkl. lett trafikk | Combination | Max | 552,4  | -0,944 | -0,00591 | 0,00095 | 0,1278  | 3,6792  | 10-1 | 3,00005 |
| 10 | 3,5001 | A inkl. lett trafikk | Combination | Max | 552,39 | -0,493 | -0,00591 | 0,00095 | 0,1331  | 4,2108  | 10-1 | 3,50005 |
| 10 | 4,0001 | A inkl. lett trafikk | Combination | Max | 552,39 | -0,042 | -0,00591 | 0,00095 | 0,1504  | 4,5685  | 10-1 | 4,00006 |
| 10 | 4,5001 | A inkl. lett trafikk | Combination | Max | 552,39 | 0,408  | -0,00591 | 0,00095 | 0,1677  | 4,7977  | 10-1 | 4,50007 |
| 10 | 5,0001 | A inkl. lett trafikk | Combination | Max | 552,39 | 0,859  | -0,00591 | 0,00095 | 0,185   | 4,8015  | 10-1 | 5,00008 |
| 10 | 5,5001 | A inkl. lett trafikk | Combination | Max | 552,38 | 1,31   | -0,00591 | 0,00095 | 0,2022  | 4,5799  | 10-1 | 5,50008 |
| 10 | 6,0001 | A inkl. lett trafikk | Combination | Max | 552,38 | 1,761  | -0,00591 | 0,00095 | 0,2195  | 4,1328  | 10-1 | 6,00009 |
| 10 | 6,5001 | A inkl. lett trafikk | Combination | Max | 552,38 | 2,212  | -0,00591 | 0,00095 | 0,2368  | 3,4603  | 10-1 | 6,5001  |
| 10 | 0      | A inkl. lett trafikk | Combination | Min | -183,5 | -4,42  | -0,035   | 0,00064 | -0,0145 | -7,023  | 10-1 | 0       |
| 10 | 0,5    | A inkl. lett trafikk | Combination | Min | -183,5 | -3,969 | -0,035   | 0,00064 | 0,0014  | -5,1996 | 10-1 | 0,50001 |
| 10 | 1      | A inkl. lett trafikk | Combination | Min | -183,6 | -3,518 | -0,035   | 0,00064 | 0,0173  | -3,6015 | 10-1 | 1,00002 |

|    |        |                      |             |     |        |        |        |         |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|--------|--------|---------|---------|---------|------|---------|
| 10 | 1,5    | A inkl. lett trafikk | Combination | Min | -183,6 | -3,067 | -0,035 | 0,00064 | 0,0333  | -2,229  | 10-1 | 1,50002 |
| 10 | 2      | A inkl. lett trafikk | Combination | Min | -183,6 | -2,616 | -0,035 | 0,00064 | 0,049   | -1,0818 | 10-1 | 2,00003 |
| 10 | 2,5    | A inkl. lett trafikk | Combination | Min | -183,6 | -2,166 | -0,035 | 0,00064 | 0,0646  | -0,1601 | 10-1 | 2,50004 |
| 10 | 3,0001 | A inkl. lett trafikk | Combination | Min | -183,6 | -1,715 | -0,035 | 0,00064 | 0,0802  | 0,5362  | 10-1 | 3,00005 |
| 10 | 3,5001 | A inkl. lett trafikk | Combination | Min | -183,6 | -1,264 | -0,035 | 0,00064 | 0,0952  | 1,007   | 10-1 | 3,50005 |
| 10 | 4,0001 | A inkl. lett trafikk | Combination | Min | -183,6 | -0,813 | -0,035 | 0,00064 | 0,1061  | 1,2524  | 10-1 | 4,00006 |
| 10 | 4,5001 | A inkl. lett trafikk | Combination | Min | -183,6 | -0,362 | -0,035 | 0,00064 | 0,1145  | 1,2724  | 10-1 | 4,50007 |
| 10 | 5,0001 | A inkl. lett trafikk | Combination | Min | -183,6 | 0,089  | -0,035 | 0,00064 | 0,1226  | 1,0669  | 10-1 | 5,00008 |
| 10 | 5,5001 | A inkl. lett trafikk | Combination | Min | -183,6 | 0,54   | -0,035 | 0,00064 | 0,1307  | 0,636   | 10-1 | 5,50008 |
| 10 | 6,0001 | A inkl. lett trafikk | Combination | Min | -183,6 | 0,99   | -0,035 | 0,00064 | 0,1386  | -0,0203 | 10-1 | 6,00009 |
| 10 | 6,5001 | A inkl. lett trafikk | Combination | Min | -183,6 | 1,441  | -0,035 | 0,00064 | 0,1463  | -0,9021 | 10-1 | 6,5001  |
| 11 | 0      | A inkl. lett trafikk | Combination | Max | 1557,7 | -4,669 | -0,011 | 0,0014  | -0,1561 | 0,7391  | 11-1 | 0       |
| 11 | 0,5    | A inkl. lett trafikk | Combination | Max | 1557,7 | -3,989 | -0,011 | 0,0014  | -0,1475 | 3,0212  | 11-1 | 0,50001 |
| 11 | 1      | A inkl. lett trafikk | Combination | Max | 1557,7 | -3,309 | -0,011 | 0,0014  | -0,1382 | 4,9631  | 11-1 | 1,00002 |
| 11 | 1,5    | A inkl. lett trafikk | Combination | Max | 1557,7 | -2,628 | -0,011 | 0,0014  | -0,1286 | 6,5894  | 11-1 | 1,50002 |
| 11 | 2      | A inkl. lett trafikk | Combination | Max | 1557,7 | -1,948 | -0,011 | 0,0014  | -0,1184 | 7,9128  | 11-1 | 2,00003 |
| 11 | 2,5    | A inkl. lett trafikk | Combination | Max | 1557,7 | -1,267 | -0,011 | 0,0014  | -0,1074 | 8,9586  | 11-1 | 2,50004 |
| 11 | 3,0001 | A inkl. lett trafikk | Combination | Max | 1557,7 | -0,587 | -0,011 | 0,0014  | -0,0874 | 9,6643  | 11-1 | 3,00005 |
| 11 | 3,5001 | A inkl. lett trafikk | Combination | Max | 1557,7 | 0,093  | -0,011 | 0,0014  | -0,0674 | 10,0711 | 11-1 | 3,50005 |
| 11 | 4,0001 | A inkl. lett trafikk | Combination | Max | 1557,7 | 0,774  | -0,011 | 0,0014  | -0,0473 | 10,2199 | 11-1 | 4,00006 |
| 11 | 4,5001 | A inkl. lett trafikk | Combination | Max | 1557,7 | 1,454  | -0,011 | 0,0014  | -0,0271 | 10,0784 | 11-1 | 4,50007 |
| 11 | 5,0001 | A inkl. lett trafikk | Combination | Max | 1557,6 | 2,135  | -0,011 | 0,0014  | -0,0067 | 9,6053  | 11-1 | 5,00008 |
| 11 | 5,5001 | A inkl. lett trafikk | Combination | Max | 1557,6 | 2,815  | -0,011 | 0,0014  | 0,0136  | 8,7921  | 11-1 | 5,50008 |
| 11 | 6,0001 | A inkl. lett trafikk | Combination | Max | 1557,6 | 3,495  | -0,011 | 0,0014  | 0,0356  | 7,6387  | 11-1 | 6,00009 |
| 11 | 6,5001 | A inkl. lett trafikk | Combination | Max | 1557,6 | 4,176  | -0,011 | 0,0014  | 0,0615  | 6,158   | 11-1 | 6,5001  |
| 11 | 0      | A inkl. lett trafikk | Combination | Min | 630,88 | -5,734 | -0,052 | 0,00092 | -0,2752 | -3,4207 | 11-1 | 0       |
| 11 | 0,5    | A inkl. lett trafikk | Combination | Min | 630,87 | -5,054 | -0,052 | 0,00092 | -0,2493 | -1,0281 | 11-1 | 0,50001 |
| 11 | 1      | A inkl. lett trafikk | Combination | Min | 630,87 | -4,373 | -0,052 | 0,00092 | -0,2234 | 1,0242  | 11-1 | 1,00002 |
| 11 | 1,5    | A inkl. lett trafikk | Combination | Min | 630,86 | -3,693 | -0,052 | 0,00092 | -0,1975 | 2,7364  | 11-1 | 1,50002 |
| 11 | 2      | A inkl. lett trafikk | Combination | Min | 630,86 | -3,012 | -0,052 | 0,00092 | -0,1716 | 4,1083  | 11-1 | 2,00003 |
| 11 | 2,5    | A inkl. lett trafikk | Combination | Min | 630,86 | -2,332 | -0,052 | 0,00092 | -0,1457 | 5,1401  | 11-1 | 2,50004 |
| 11 | 3,0001 | A inkl. lett trafikk | Combination | Min | 630,85 | -1,652 | -0,052 | 0,00092 | -0,1311 | 5,8316  | 11-1 | 3,00005 |
| 11 | 3,5001 | A inkl. lett trafikk | Combination | Min | 630,85 | -0,971 | -0,052 | 0,00092 | -0,1236 | 6,183   | 11-1 | 3,50005 |

|    |        |                      |             |     |        |        |        |         |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|--------|--------|---------|---------|---------|------|---------|
| 11 | 4,0001 | A inkl. lett trafikk | Combination | Min | 630,85 | -0,291 | -0,052 | 0,00092 | -0,1178 | 6,1942  | 11-1 | 4,00006 |
| 11 | 4,5001 | A inkl. lett trafikk | Combination | Min | 630,84 | 0,389  | -0,052 | 0,00092 | -0,1121 | 5,8651  | 11-1 | 4,50007 |
| 11 | 5,0001 | A inkl. lett trafikk | Combination | Min | 630,84 | 1,07   | -0,052 | 0,00092 | -0,1064 | 5,1959  | 11-1 | 5,00008 |
| 11 | 5,5001 | A inkl. lett trafikk | Combination | Min | 630,83 | 1,75   | -0,052 | 0,00092 | -0,1006 | 4,1865  | 11-1 | 5,50008 |
| 11 | 6,0001 | A inkl. lett trafikk | Combination | Min | 630,83 | 2,431  | -0,052 | 0,00092 | -0,0949 | 2,8352  | 11-1 | 6,00009 |
| 11 | 6,5001 | A inkl. lett trafikk | Combination | Min | 630,83 | 3,111  | -0,052 | 0,00092 | -0,0894 | 1,0416  | 11-1 | 6,5001  |
| 12 | 0      | A inkl. lett trafikk | Combination | Max | 1805,7 | -4,079 | -0,03  | 8,9E-05 | -0,2562 | 5,1153  | 12-1 | 0       |
| 12 | 0,5    | A inkl. lett trafikk | Combination | Max | 1805,7 | -3,322 | -0,03  | 8,9E-05 | -0,2358 | 7,0903  | 12-1 | 0,50001 |
| 12 | 1      | A inkl. lett trafikk | Combination | Max | 1805,7 | -2,566 | -0,03  | 8,9E-05 | -0,213  | 8,6954  | 12-1 | 1,00002 |
| 12 | 1,5    | A inkl. lett trafikk | Combination | Max | 1805,7 | -1,809 | -0,03  | 8,9E-05 | -0,1902 | 9,9369  | 12-1 | 1,50002 |
| 12 | 2      | A inkl. lett trafikk | Combination | Max | 1805,7 | -1,052 | -0,03  | 8,9E-05 | -0,1673 | 10,8116 | 12-1 | 2,00003 |
| 12 | 2,5    | A inkl. lett trafikk | Combination | Max | 1805,7 | -0,295 | -0,03  | 8,9E-05 | -0,1445 | 11,3594 | 12-1 | 2,50004 |
| 12 | 3,0001 | A inkl. lett trafikk | Combination | Max | 1805,6 | 0,462  | -0,03  | 8,9E-05 | -0,1217 | 11,561  | 12-1 | 3,00005 |
| 12 | 3,5001 | A inkl. lett trafikk | Combination | Max | 1805,6 | 1,219  | -0,03  | 8,9E-05 | -0,0965 | 11,4455 | 12-1 | 3,50005 |
| 12 | 4,0001 | A inkl. lett trafikk | Combination | Max | 1805,6 | 1,976  | -0,03  | 8,9E-05 | -0,0698 | 11,0229 | 12-1 | 4,00006 |
| 12 | 4,5001 | A inkl. lett trafikk | Combination | Max | 1805,6 | 2,733  | -0,03  | 8,9E-05 | -0,0431 | 10,2531 | 12-1 | 4,50007 |
| 12 | 5,0001 | A inkl. lett trafikk | Combination | Max | 1805,6 | 3,49   | -0,03  | 8,9E-05 | -0,0164 | 9,185   | 12-1 | 5,00008 |
| 12 | 5,5001 | A inkl. lett trafikk | Combination | Max | 1805,6 | 4,246  | -0,03  | 8,9E-05 | 0,0103  | 7,7385  | 12-1 | 5,50008 |
| 12 | 6,0001 | A inkl. lett trafikk | Combination | Max | 1805,6 | 5,003  | -0,03  | 8,9E-05 | 0,037   | 5,9136  | 12-1 | 6,00009 |
| 12 | 6,5001 | A inkl. lett trafikk | Combination | Max | 1805,6 | 5,76   | -0,03  | 8,9E-05 | 0,0675  | 3,7102  | 12-1 | 6,5001  |
| 12 | 0      | A inkl. lett trafikk | Combination | Min | 837,62 | -5,357 | -0,07  | -9E-05  | -0,4122 | -0,2496 | 12-1 | 0       |
| 12 | 0,5    | A inkl. lett trafikk | Combination | Min | 837,62 | -4,6   | -0,07  | -9E-05  | -0,3803 | 2,0135  | 12-1 | 0,50001 |
| 12 | 1      | A inkl. lett trafikk | Combination | Min | 837,61 | -3,843 | -0,07  | -9E-05  | -0,3484 | 3,8981  | 12-1 | 1,00002 |
| 12 | 1,5    | A inkl. lett trafikk | Combination | Min | 837,61 | -3,086 | -0,07  | -9E-05  | -0,3165 | 5,4042  | 12-1 | 1,50002 |
| 12 | 2      | A inkl. lett trafikk | Combination | Min | 837,61 | -2,329 | -0,07  | -9E-05  | -0,2847 | 6,5319  | 12-1 | 2,00003 |
| 12 | 2,5    | A inkl. lett trafikk | Combination | Min | 837,6  | -1,572 | -0,07  | -9E-05  | -0,2537 | 7,2812  | 12-1 | 2,50004 |
| 12 | 3,0001 | A inkl. lett trafikk | Combination | Min | 837,6  | -0,815 | -0,07  | -9E-05  | -0,2231 | 7,6312  | 12-1 | 3,00005 |
| 12 | 3,5001 | A inkl. lett trafikk | Combination | Min | 837,59 | -0,059 | -0,07  | -9E-05  | -0,1963 | 7,4837  | 12-1 | 3,50005 |
| 12 | 4,0001 | A inkl. lett trafikk | Combination | Min | 837,59 | 0,698  | -0,07  | -9E-05  | -0,1765 | 6,9577  | 12-1 | 4,00006 |
| 12 | 4,5001 | A inkl. lett trafikk | Combination | Min | 837,59 | 1,455  | -0,07  | -9E-05  | -0,1568 | 6,0532  | 12-1 | 4,50007 |
| 12 | 5,0001 | A inkl. lett trafikk | Combination | Min | 837,58 | 2,212  | -0,07  | -9E-05  | -0,1371 | 4,7703  | 12-1 | 5,00008 |
| 12 | 5,5001 | A inkl. lett trafikk | Combination | Min | 837,58 | 2,969  | -0,07  | -9E-05  | -0,1173 | 3,1089  | 12-1 | 5,50008 |
| 12 | 6,0001 | A inkl. lett trafikk | Combination | Min | 837,57 | 3,726  | -0,07  | -9E-05  | -0,0976 | 1,0691  | 12-1 | 6,00009 |

|    |        |                      |             |     |        |         |        |         |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|---------|--------|---------|---------|---------|------|---------|
| 12 | 6,5001 | A inkl. lett trafikk | Combination | Min | 837,57 | 4,483   | -0,07  | -9E-05  | -0,0783 | -1,3492 | 12-1 | 6,5001  |
| 13 | 0      | A inkl. lett trafikk | Combination | Max | 1339,8 | -2,415  | -0,093 | -0,0012 | -0,3071 | 6,0179  | 13-1 | 0       |
| 13 | 0,5    | A inkl. lett trafikk | Combination | Max | 1339,8 | -1,811  | -0,093 | -0,0012 | -0,2607 | 7,1547  | 13-1 | 0,50001 |
| 13 | 1      | A inkl. lett trafikk | Combination | Max | 1339,8 | -1,207  | -0,093 | -0,0012 | -0,2142 | 7,9895  | 13-1 | 1,00002 |
| 13 | 1,5    | A inkl. lett trafikk | Combination | Max | 1339,8 | -0,603  | -0,093 | -0,0012 | -0,1648 | 8,5223  | 13-1 | 1,50002 |
| 13 | 2      | A inkl. lett trafikk | Combination | Max | 1339,8 | 0,00048 | -0,093 | -0,0012 | -0,1147 | 8,7545  | 13-1 | 2,00003 |
| 13 | 2,5    | A inkl. lett trafikk | Combination | Max | 1339,8 | 0,604   | -0,093 | -0,0012 | -0,0645 | 8,7259  | 13-1 | 2,50004 |
| 13 | 3,0001 | A inkl. lett trafikk | Combination | Max | 1339,8 | 1,208   | -0,093 | -0,0012 | -0,0144 | 8,4527  | 13-1 | 3,00005 |
| 13 | 3,5001 | A inkl. lett trafikk | Combination | Max | 1339,7 | 1,812   | -0,093 | -0,0012 | 0,0358  | 7,9364  | 13-1 | 3,50005 |
| 13 | 4,0001 | A inkl. lett trafikk | Combination | Max | 1339,7 | 2,416   | -0,093 | -0,0012 | 0,0871  | 7,1761  | 13-1 | 4,00006 |
| 13 | 4,5001 | A inkl. lett trafikk | Combination | Max | 1339,7 | 3,02    | -0,093 | -0,0012 | 0,1465  | 6,1139  | 13-1 | 4,50007 |
| 13 | 5,0001 | A inkl. lett trafikk | Combination | Max | 1339,7 | 3,624   | -0,093 | -0,0012 | 0,2066  | 4,8019  | 13-1 | 5,00008 |
| 13 | 5,5001 | A inkl. lett trafikk | Combination | Max | 1339,7 | 4,228   | -0,093 | -0,0012 | 0,2668  | 3,2164  | 13-1 | 5,50008 |
| 13 | 6,0001 | A inkl. lett trafikk | Combination | Max | 1339,7 | 4,831   | -0,093 | -0,0012 | 0,3277  | 1,3379  | 13-1 | 6,00009 |
| 13 | 6,5001 | A inkl. lett trafikk | Combination | Max | 1339,7 | 5,435   | -0,093 | -0,0012 | 0,389   | -0,8185 | 13-1 | 6,5001  |
| 13 | 0      | A inkl. lett trafikk | Combination | Min | 414,8  | -3,469  | -0,129 | -0,0015 | -0,453  | 1,0349  | 13-1 | 0       |
| 13 | 0,5    | A inkl. lett trafikk | Combination | Min | 414,8  | -2,865  | -0,129 | -0,0015 | -0,3887 | 2,4101  | 13-1 | 0,50001 |
| 13 | 1      | A inkl. lett trafikk | Combination | Min | 414,8  | -2,261  | -0,129 | -0,0015 | -0,3245 | 3,4834  | 13-1 | 1,00002 |
| 13 | 1,5    | A inkl. lett trafikk | Combination | Min | 414,79 | -1,658  | -0,129 | -0,0015 | -0,2602 | 4,2548  | 13-1 | 1,50002 |
| 13 | 2      | A inkl. lett trafikk | Combination | Min | 414,79 | -1,054  | -0,129 | -0,0015 | -0,1959 | 4,7242  | 13-1 | 2,00003 |
| 13 | 2,5    | A inkl. lett trafikk | Combination | Min | 414,79 | -0,45   | -0,129 | -0,0015 | -0,1317 | 4,8916  | 13-1 | 2,50004 |
| 13 | 3,0001 | A inkl. lett trafikk | Combination | Min | 414,78 | 0,154   | -0,129 | -0,0015 | -0,0683 | 4,7571  | 13-1 | 3,00005 |
| 13 | 3,5001 | A inkl. lett trafikk | Combination | Min | 414,78 | 0,758   | -0,129 | -0,0015 | -0,0076 | 4,3205  | 13-1 | 3,50005 |
| 13 | 4,0001 | A inkl. lett trafikk | Combination | Min | 414,78 | 1,362   | -0,129 | -0,0015 | 0,052   | 3,5821  | 13-1 | 4,00006 |
| 13 | 4,5001 | A inkl. lett trafikk | Combination | Min | 414,77 | 1,966   | -0,129 | -0,0015 | 0,1108  | 2,5417  | 13-1 | 4,50007 |
| 13 | 5,0001 | A inkl. lett trafikk | Combination | Min | 414,77 | 2,57    | -0,129 | -0,0015 | 0,1573  | 1,1993  | 13-1 | 5,00008 |
| 13 | 5,5001 | A inkl. lett trafikk | Combination | Min | 414,77 | 3,173   | -0,129 | -0,0015 | 0,2037  | -0,445  | 13-1 | 5,50008 |
| 13 | 6,0001 | A inkl. lett trafikk | Combination | Min | 414,76 | 3,777   | -0,129 | -0,0015 | 0,2502  | -2,3912 | 13-1 | 6,00009 |
| 13 | 6,5001 | A inkl. lett trafikk | Combination | Min | 414,76 | 4,381   | -0,129 | -0,0015 | 0,2966  | -4,6394 | 13-1 | 6,5001  |
| 14 | 0      | A inkl. lett trafikk | Combination | Max | 211,8  | -1,403  | -0,026 | 9,2E-05 | -0,0417 | 2,0143  | 14-1 | 0       |
| 14 | 0,5    | A inkl. lett trafikk | Combination | Max | 211,8  | -0,952  | -0,026 | 9,2E-05 | -0,0289 | 2,6418  | 14-1 | 0,50001 |
| 14 | 1      | A inkl. lett trafikk | Combination | Max | 211,79 | -0,502  | -0,026 | 9,2E-05 | -0,016  | 3,0524  | 14-1 | 1,00002 |
| 14 | 1,5    | A inkl. lett trafikk | Combination | Max | 211,79 | -0,051  | -0,026 | 9,2E-05 | -0,0032 | 3,2375  | 14-1 | 1,50002 |

|    |        |                      |             |     |        |         |        |         |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|---------|--------|---------|---------|---------|------|---------|
| 14 | 2      | A inkl. lett trafikk | Combination | Max | 211,79 | 0,4     | -0,026 | 9,2E-05 | 0,0097  | 3,1973  | 14-1 | 2,00003 |
| 14 | 2,5    | A inkl. lett trafikk | Combination | Max | 211,79 | 0,851   | -0,026 | 9,2E-05 | 0,0225  | 2,9824  | 14-1 | 2,50004 |
| 14 | 3,0001 | A inkl. lett trafikk | Combination | Max | 211,78 | 1,302   | -0,026 | 9,2E-05 | 0,0354  | 2,5878  | 14-1 | 3,00005 |
| 14 | 3,5001 | A inkl. lett trafikk | Combination | Max | 211,78 | 1,753   | -0,026 | 9,2E-05 | 0,0482  | 1,9677  | 14-1 | 3,50005 |
| 14 | 4,0001 | A inkl. lett trafikk | Combination | Max | 211,78 | 2,204   | -0,026 | 9,2E-05 | 0,0664  | 1,1222  | 14-1 | 4,00006 |
| 14 | 4,5001 | A inkl. lett trafikk | Combination | Max | 211,78 | 2,655   | -0,026 | 9,2E-05 | 0,0879  | 0,0779  | 14-1 | 4,50007 |
| 14 | 5,0001 | A inkl. lett trafikk | Combination | Max | 211,77 | 3,105   | -0,026 | 9,2E-05 | 0,1094  | -1,1806 | 14-1 | 5,00008 |
| 14 | 5,5001 | A inkl. lett trafikk | Combination | Max | 211,77 | 3,556   | -0,026 | 9,2E-05 | 0,131   | -2,6646 | 14-1 | 5,50008 |
| 14 | 6,0001 | A inkl. lett trafikk | Combination | Max | 211,77 | 4,007   | -0,026 | 9,2E-05 | 0,1525  | -4,3739 | 14-1 | 6,00009 |
| 14 | 6,5001 | A inkl. lett trafikk | Combination | Max | 211,77 | 4,458   | -0,026 | 9,2E-05 | 0,174   | -6,3087 | 14-1 | 6,5001  |
| 14 | 0      | A inkl. lett trafikk | Combination | Min | -509,8 | -2,083  | -0,043 | 2,6E-05 | -0,118  | -2,0207 | 14-1 | 0       |
| 14 | 0,5    | A inkl. lett trafikk | Combination | Min | -509,8 | -1,632  | -0,043 | 2,6E-05 | -0,0971 | -1,1441 | 14-1 | 0,50001 |
| 14 | 1      | A inkl. lett trafikk | Combination | Min | -509,8 | -1,181  | -0,043 | 2,6E-05 | -0,0807 | -0,4928 | 14-1 | 1,00002 |
| 14 | 1,5    | A inkl. lett trafikk | Combination | Min | -509,8 | -0,731  | -0,043 | 2,6E-05 | -0,0644 | -0,0674 | 14-1 | 1,50002 |
| 14 | 2      | A inkl. lett trafikk | Combination | Min | -509,8 | -0,28   | -0,043 | 2,6E-05 | -0,0481 | 0,1324  | 14-1 | 2,00003 |
| 14 | 2,5    | A inkl. lett trafikk | Combination | Min | -509,8 | 0,171   | -0,043 | 2,6E-05 | -0,0317 | 0,1068  | 14-1 | 2,50004 |
| 14 | 3,0001 | A inkl. lett trafikk | Combination | Min | -509,8 | 0,622   | -0,043 | 2,6E-05 | -0,0154 | -0,1443 | 14-1 | 3,00005 |
| 14 | 3,5001 | A inkl. lett trafikk | Combination | Min | -509,8 | 1,073   | -0,043 | 2,6E-05 | 0,0009  | -0,6208 | 14-1 | 3,50005 |
| 14 | 4,0001 | A inkl. lett trafikk | Combination | Min | -509,8 | 1,524   | -0,043 | 2,6E-05 | 0,0173  | -1,3227 | 14-1 | 4,00006 |
| 14 | 4,5001 | A inkl. lett trafikk | Combination | Min | -509,8 | 1,975   | -0,043 | 2,6E-05 | 0,0336  | -2,25   | 14-1 | 4,50007 |
| 14 | 5,0001 | A inkl. lett trafikk | Combination | Min | -509,8 | 2,425   | -0,043 | 2,6E-05 | 0,0499  | -3,4028 | 14-1 | 5,00008 |
| 14 | 5,5001 | A inkl. lett trafikk | Combination | Min | -509,8 | 2,876   | -0,043 | 2,6E-05 | 0,0663  | -4,781  | 14-1 | 5,50008 |
| 14 | 6,0001 | A inkl. lett trafikk | Combination | Min | -509,8 | 3,327   | -0,043 | 2,6E-05 | 0,0826  | -6,3847 | 14-1 | 6,00009 |
| 14 | 6,5001 | A inkl. lett trafikk | Combination | Min | -509,8 | 3,778   | -0,043 | 2,6E-05 | 0,0989  | -8,313  | 14-1 | 6,5001  |
| 15 | 0      | A inkl. lett trafikk | Combination | Max | -1459  | -9,227  | -0,124 | 0,0046  | -0,3247 | -3,4067 | 15-1 | 0       |
| 15 | 0,4643 | A inkl. lett trafikk | Combination | Max | -1459  | -8,43   | -0,124 | 0,0046  | -0,2657 | 1,3865  | 15-1 | 0,46429 |
| 15 | 0,9286 | A inkl. lett trafikk | Combination | Max | -1459  | -7,632  | -0,124 | 0,0046  | -0,2068 | 5,8094  | 15-1 | 0,92859 |
| 15 | 1,3929 | A inkl. lett trafikk | Combination | Max | -1459  | -6,834  | -0,124 | 0,0046  | -0,1479 | 9,862   | 15-1 | 1,39288 |
| 15 | 1,8572 | A inkl. lett trafikk | Combination | Max | -1459  | -6,037  | -0,124 | 0,0046  | -0,0889 | 13,5442 | 15-1 | 1,85717 |
| 15 | 2,3215 | A inkl. lett trafikk | Combination | Max | -1459  | -5,239  | -0,124 | 0,0046  | -0,03   | 16,8562 | 15-1 | 2,32146 |
| 15 | 2,7858 | A inkl. lett trafikk | Combination | Max | -1459  | -4,442  | -0,124 | 0,0046  | 0,0291  | 19,8715 | 15-1 | 2,78576 |
| 15 | 3,2501 | A inkl. lett trafikk | Combination | Max | -1459  | -3,644  | -0,124 | 0,0046  | 0,0921  | 22,6277 | 15-1 | 3,25005 |
| 15 | 0      | A inkl. lett trafikk | Combination | Min | -1955  | -11,318 | -0,143 | 0,0037  | -0,3881 | -6,2456 | 15-1 | 0       |

|    |        |                      |             |     |        |        |        |          |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|--------|--------|----------|---------|---------|------|---------|
| 15 | 0,4643 | A inkl. lett trafikk | Combination | Min | -1955  | -10,52 | -0,143 | 0,0037   | -0,3219 | -1,7836 | 15-1 | 0,46429 |
| 15 | 0,9286 | A inkl. lett trafikk | Combination | Min | -1955  | -9,723 | -0,143 | 0,0037   | -0,257  | 2,2879  | 15-1 | 0,92859 |
| 15 | 1,3929 | A inkl. lett trafikk | Combination | Min | -1955  | -8,925 | -0,143 | 0,0037   | -0,1925 | 5,9622  | 15-1 | 1,39288 |
| 15 | 1,8572 | A inkl. lett trafikk | Combination | Min | -1955  | -8,128 | -0,143 | 0,0037   | -0,1297 | 9,1295  | 15-1 | 1,85717 |
| 15 | 2,3215 | A inkl. lett trafikk | Combination | Min | -1955  | -7,33  | -0,143 | 0,0037   | -0,0678 | 11,7472 | 15-1 | 2,32146 |
| 15 | 2,7858 | A inkl. lett trafikk | Combination | Min | -1955  | -6,532 | -0,143 | 0,0037   | -0,0059 | 13,9947 | 15-1 | 2,78576 |
| 15 | 3,2501 | A inkl. lett trafikk | Combination | Min | -1955  | -5,735 | -0,143 | 0,0037   | 0,0517  | 15,8718 | 15-1 | 3,25005 |
| 16 | 0      | A inkl. lett trafikk | Combination | Max | -1459  | 28,18  | -0,124 | 0,0046   | 0,092   | 23,7631 | 16-1 | 0       |
| 16 | 0,4643 | A inkl. lett trafikk | Combination | Max | -1459  | 28,977 | -0,124 | 0,0046   | 0,1556  | 10,5844 | 16-1 | 0,46429 |
| 16 | 0,9286 | A inkl. lett trafikk | Combination | Max | -1459  | 29,775 | -0,124 | 0,0046   | 0,2191  | -2,9647 | 16-1 | 0,92859 |
| 16 | 1,3929 | A inkl. lett trafikk | Combination | Max | -1459  | 30,572 | -0,124 | 0,0046   | 0,2826  | -14,774 | 16-1 | 1,39288 |
| 16 | 1,8572 | A inkl. lett trafikk | Combination | Max | -1459  | 31,37  | -0,124 | 0,0046   | 0,3464  | -26,16  | 16-1 | 1,85717 |
| 16 | 2,3215 | A inkl. lett trafikk | Combination | Max | -1459  | 32,167 | -0,124 | 0,0046   | 0,4109  | -37,917 | 16-1 | 2,32146 |
| 16 | 2,7858 | A inkl. lett trafikk | Combination | Max | -1459  | 32,965 | -0,124 | 0,0046   | 0,4754  | -49,959 | 16-1 | 2,78576 |
| 16 | 3,2501 | A inkl. lett trafikk | Combination | Max | -1459  | 33,763 | -0,124 | 0,0046   | 0,54    | -62,371 | 16-1 | 3,25005 |
| 16 | 0      | A inkl. lett trafikk | Combination | Min | -1956  | 21,547 | -0,143 | 0,0038   | 0,0516  | 16,7319 | 16-1 | 0       |
| 16 | 0,4643 | A inkl. lett trafikk | Combination | Min | -1956  | 22,345 | -0,143 | 0,0038   | 0,1092  | 6,0253  | 16-1 | 0,46429 |
| 16 | 0,9286 | A inkl. lett trafikk | Combination | Min | -1956  | 23,142 | -0,143 | 0,0038   | 0,1667  | -6,4383 | 16-1 | 0,92859 |
| 16 | 1,3929 | A inkl. lett trafikk | Combination | Min | -1956  | 23,94  | -0,143 | 0,0038   | 0,2243  | -19,411 | 16-1 | 1,39288 |
| 16 | 1,8572 | A inkl. lett trafikk | Combination | Min | -1956  | 24,738 | -0,143 | 0,0038   | 0,2818  | -32,785 | 16-1 | 1,85717 |
| 16 | 2,3215 | A inkl. lett trafikk | Combination | Min | -1956  | 25,535 | -0,143 | 0,0038   | 0,3394  | -46,643 | 16-1 | 2,32146 |
| 16 | 2,7858 | A inkl. lett trafikk | Combination | Min | -1956  | 26,333 | -0,143 | 0,0038   | 0,3969  | -61,756 | 16-1 | 2,78576 |
| 16 | 3,2501 | A inkl. lett trafikk | Combination | Min | -1956  | 27,13  | -0,143 | 0,0038   | 0,4545  | -77,24  | 16-1 | 3,25005 |
| 17 | 0      | A inkl. lett trafikk | Combination | Max | -1,138 | 0      | 0,44   | -0,00022 | 0,7608  | 0       | 17-1 | 0       |
| 17 | 1,717  | A inkl. lett trafikk | Combination | Max | -0,627 | 0      | 0,44   | -0,00022 | 0,0614  | 0       | 17-1 | 1,717   |
| 17 | 3,434  | A inkl. lett trafikk | Combination | Max | -0,115 | 0      | 0,44   | -0,00022 | -0,3642 | 0       | 17-1 | 3,434   |
| 17 | 0      | A inkl. lett trafikk | Combination | Min | -3,614 | 0      | 0,245  | -0,00032 | 0,4762  | 0       | 17-1 | 0       |
| 17 | 1,717  | A inkl. lett trafikk | Combination | Min | -3,102 | 0      | 0,245  | -0,00032 | -0,0025 | 0       | 17-1 | 1,717   |
| 17 | 3,434  | A inkl. lett trafikk | Combination | Min | -2,591 | 0      | 0,245  | -0,00032 | -0,7518 | 0       | 17-1 | 3,434   |
| 18 | 0      | A inkl. lett trafikk | Combination | Max | -123,7 | 0      | 1,736  | -0,00017 | 2,8356  | 0       | 18-1 | 0       |
| 18 | 1,751  | A inkl. lett trafikk | Combination | Max | -123   | 0      | 1,736  | -0,00017 | 0,1501  | 0       | 18-1 | 1,751   |
| 18 | 3,502  | A inkl. lett trafikk | Combination | Max | -122,3 | 0      | 1,736  | -0,00017 | -1,3971 | 0       | 18-1 | 3,502   |
| 18 | 0      | A inkl. lett trafikk | Combination | Min | -238,1 | 0      | 0,854  | -0,00026 | 1,5952  | 0       | 18-1 | 0       |

|    |        |                      |             |     |        |          |          |          |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|----------|----------|---------|---------|------|---------|
| 18 | 1,751  | A inkl. lett trafikk | Combination | Min | -237,4 | 0        | 0,854    | -0,00026 | -0,263  | 0       | 18-1 | 1,751   |
| 18 | 3,502  | A inkl. lett trafikk | Combination | Min | -236,7 | 0        | 0,854    | -0,00026 | -3,2762 | 0       | 18-1 | 3,502   |
| 19 | 0      | A inkl. lett trafikk | Combination | Max | -654   | -57,746  | -5,628   | 0,0038   | -1,9922 | -14,722 | 19-1 | 0       |
| 19 | 0,5002 | A inkl. lett trafikk | Combination | Max | -654,2 | -35,333  | -5,628   | 0,0038   | 1,457   | 28,5151 | 19-1 | 0,50017 |
| 19 | 0,5002 | A inkl. lett trafikk | Combination | Max | -661,5 | -34,855  | 1,558    | 0,0038   | 1,457   | 28,5151 | 19-2 | 0       |
| 19 | 1,438  | A inkl. lett trafikk | Combination | Max | -661,9 | 7,169    | 1,558    | 0,0038   | 0,0887  | 60,8188 | 19-2 | 0,93781 |
| 19 | 1,5005 | A inkl. lett trafikk | Combination | Max | -661,9 | 9,971    | 1,558    | 0,0038   | 0,0347  | 62,4417 | 19-2 | 1,00033 |
| 19 | 1,5005 | A inkl. lett trafikk | Combination | Max | -673,4 | 19,666   | 0,009684 | 0,0038   | 0,0347  | 62,4417 | 19-3 | 0       |
| 19 | 2,5008 | A inkl. lett trafikk | Combination | Max | -673,8 | 94,708   | 0,009684 | 0,0038   | 0,025   | 3,1405  | 19-3 | 1,00033 |
| 19 | 2,5008 | A inkl. lett trafikk | Combination | Max | -689,7 | 105,975  | 0,049    | 0,0038   | 0,025   | 3,1405  | 19-4 | 0       |
| 19 | 2,875  | A inkl. lett trafikk | Combination | Max | -689,8 | 152,08   | 0,049    | 0,0038   | 0,0068  | -26,73  | 19-4 | 0,37412 |
| 19 | 2,875  | A inkl. lett trafikk | Combination | Max | -689,8 | 152,08   | 0,049    | 0,0038   | 0,0068  | -26,73  | 19-4 | 0,37412 |
| 19 | 2,876  | A inkl. lett trafikk | Combination | Max | -689,8 | 152,124  | 0,049    | 0,0038   | 0,0067  | -26,797 | 19-4 | 0,37512 |
| 19 | 0      | A inkl. lett trafikk | Combination | Min | -1157  | -134,193 | -10,893  | 0,0021   | -3,9921 | -36,612 | 19-1 | 0       |
| 19 | 0,5002 | A inkl. lett trafikk | Combination | Min | -1157  | -111,78  | -10,893  | 0,0021   | 0,7738  | 4,0935  | 19-1 | 0,50017 |
| 19 | 0,5002 | A inkl. lett trafikk | Combination | Min | -1158  | -80,742  | 0,821    | 0,0021   | 0,7738  | 4,0935  | 19-2 | 0       |
| 19 | 1,438  | A inkl. lett trafikk | Combination | Min | -1158  | -27,359  | 0,821    | 0,0021   | -0,0327 | 21,5375 | 19-2 | 0,93781 |
| 19 | 1,5005 | A inkl. lett trafikk | Combination | Min | -1158  | -24,558  | 0,821    | 0,0021   | -0,116  | 21,0017 | 19-2 | 1,00033 |
| 19 | 1,5005 | A inkl. lett trafikk | Combination | Min | -1166  | 5,044    | -0,042   | 0,0021   | -0,116  | 21,0017 | 19-3 | 0       |
| 19 | 2,5008 | A inkl. lett trafikk | Combination | Min | -1166  | 50,023   | -0,042   | 0,0021   | -0,0852 | -15,534 | 19-3 | 1,00033 |
| 19 | 2,5008 | A inkl. lett trafikk | Combination | Min | -1182  | 49,782   | 0,025    | 0,0021   | -0,0852 | -15,534 | 19-4 | 0       |
| 19 | 2,875  | A inkl. lett trafikk | Combination | Min | -1182  | 66,547   | 0,025    | 0,0021   | -0,0973 | -56,423 | 19-4 | 0,37412 |
| 19 | 2,875  | A inkl. lett trafikk | Combination | Min | -1182  | 66,547   | 0,025    | 0,0021   | -0,0973 | -56,423 | 19-4 | 0,37412 |
| 19 | 2,876  | A inkl. lett trafikk | Combination | Min | -1182  | 66,592   | 0,025    | 0,0021   | -0,0973 | -56,557 | 19-4 | 0,37512 |
| 20 | 0      | A inkl. lett trafikk | Combination | Max | -469   | -66,143  | 0,049    | 0,0026   | 0,0067  | -26,566 | 20-1 | 0       |
| 20 | 0,6252 | A inkl. lett trafikk | Combination | Max | -469,2 | -38,127  | 0,049    | 0,0026   | -0,0237 | 26,8041 | 20-1 | 0,62519 |
| 20 | 0,6252 | A inkl. lett trafikk | Combination | Max | -488,8 | -38,291  | 0,017    | 0,0026   | -0,0237 | 26,8041 | 20-2 | 0       |
| 20 | 1,438  | A inkl. lett trafikk | Combination | Max | -489,1 | -1,87    | 0,017    | 0,0026   | -0,0371 | 57,2286 | 20-2 | 0,81275 |
| 20 | 1,6255 | A inkl. lett trafikk | Combination | Max | -489,2 | 6,534    | 0,017    | 0,0026   | -0,0397 | 63,1485 | 20-2 | 1,00031 |
| 20 | 1,6255 | A inkl. lett trafikk | Combination | Max | -511,8 | 16,564   | -0,475   | 0,0026   | -0,0397 | 63,1485 | 20-3 | 0       |
| 20 | 2,6258 | A inkl. lett trafikk | Combination | Max | -512,3 | 91,905   | -0,475   | 0,0026   | 0,9504  | 6,5032  | 20-3 | 1,00031 |
| 20 | 2,6258 | A inkl. lett trafikk | Combination | Max | -538,2 | 103,341  | 16,464   | 0,0026   | 0,9504  | 6,5032  | 20-4 | 0       |
| 20 | 2,8749 | A inkl. lett trafikk | Combination | Max | -538,3 | 143,472  | 16,464   | 0,0026   | -1,6028 | -14,171 | 20-4 | 0,24908 |



|    |        |                      |             |     |        |          |        |         |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|--------|---------|---------|---------|------|---------|
| 20 | 2,8749 | A inkl. lett trafikk | Combination | Max | -538,3 | 143,472  | 16,464 | 0,0026  | -1,6028 | -14,171 | 20-4 | 0,24908 |
| 20 | 2,8759 | A inkl. lett trafikk | Combination | Max | -538,3 | 143,517  | 16,464 | 0,0026  | -1,6109 | -14,228 | 20-4 | 0,25008 |
| 20 | 0      | A inkl. lett trafikk | Combination | Min | -1038  | -142,123 | 0,025  | 0,0013  | -0,0974 | -54,712 | 20-1 | 0       |
| 20 | 0,6252 | A inkl. lett trafikk | Combination | Min | -1038  | -114,108 | 0,025  | 0,0013  | -0,1176 | 0,6605  | 20-1 | 0,62519 |
| 20 | 0,6252 | A inkl. lett trafikk | Combination | Min | -1056  | -83,544  | -0,03  | 0,0013  | -0,1176 | 0,6605  | 20-2 | 0       |
| 20 | 1,438  | A inkl. lett trafikk | Combination | Min | -1056  | -35,765  | -0,03  | 0,0013  | -0,103  | 21,4569 | 20-2 | 0,81275 |
| 20 | 1,6255 | A inkl. lett trafikk | Combination | Min | -1056  | -27,361  | -0,03  | 0,0013  | -0,0997 | 21,911  | 20-2 | 1,00031 |
| 20 | 1,6255 | A inkl. lett trafikk | Combination | Min | -1079  | 1,027    | -1,014 | 0,0013  | -0,0997 | 21,911  | 20-3 | 0       |
| 20 | 2,6258 | A inkl. lett trafikk | Combination | Min | -1080  | 45,853   | -1,014 | 0,0013  | 0,4056  | -10,102 | 20-3 | 1,00031 |
| 20 | 2,6258 | A inkl. lett trafikk | Combination | Min | -1109  | 45,714   | 8,064  | 0,0013  | 0,4056  | -10,102 | 20-4 | 0       |
| 20 | 2,8749 | A inkl. lett trafikk | Combination | Min | -1108  | 56,876   | 8,064  | 0,0013  | -3,1505 | -35,838 | 20-4 | 0,24908 |
| 20 | 2,8749 | A inkl. lett trafikk | Combination | Min | -1108  | 56,876   | 8,064  | 0,0013  | -3,1505 | -35,838 | 20-4 | 0,24908 |
| 20 | 2,8759 | A inkl. lett trafikk | Combination | Min | -1108  | 56,92    | 8,064  | 0,0013  | -3,167  | -35,964 | 20-4 | 0,25008 |
| 21 | 0      | A inkl. lett trafikk | Combination | Max | -116,6 | 0        | 1,508  | 4,9E-05 | 2,5796  | 0       | 21-1 | 0       |
| 21 | 1,814  | A inkl. lett trafikk | Combination | Max | -115,9 | 0        | 1,508  | 4,9E-05 | 0,2241  | 0       | 21-1 | 1,814   |
| 21 | 3,628  | A inkl. lett trafikk | Combination | Max | -115,2 | 0        | 1,508  | 4,9E-05 | -0,8162 | 0       | 21-1 | 3,628   |
| 21 | 0      | A inkl. lett trafikk | Combination | Min | -228,6 | 0        | 0,549  | 2,5E-05 | 1,1747  | 0       | 21-1 | 0       |
| 21 | 1,814  | A inkl. lett trafikk | Combination | Min | -227,9 | 0        | 0,549  | 2,5E-05 | -0,2084 | 0       | 21-1 | 1,814   |
| 21 | 3,628  | A inkl. lett trafikk | Combination | Min | -227,2 | 0        | 0,549  | 2,5E-05 | -2,8907 | 0       | 21-1 | 3,628   |
| 22 | 0      | A inkl. lett trafikk | Combination | Max | -540   | -54,467  | -2,667 | 0,003   | -1,6711 | -12,265 | 22-1 | 0       |
| 22 | 0,7502 | A inkl. lett trafikk | Combination | Max | -540,4 | -20,849  | -2,667 | 0,003   | 0,8338  | 44,786  | 22-1 | 0,75023 |
| 22 | 0,7502 | A inkl. lett trafikk | Combination | Max | -569,9 | -20,891  | 1,014  | 0,003   | 0,8338  | 44,786  | 22-2 | 0       |
| 22 | 1,4379 | A inkl. lett trafikk | Combination | Max | -570,2 | 18,917   | 1,014  | 0,003   | 0,1365  | 49,78   | 22-2 | 0,68771 |
| 22 | 1,7505 | A inkl. lett trafikk | Combination | Max | -570,3 | 32,924   | 1,014  | 0,003   | -0,1097 | 51,6724 | 22-2 | 1,0003  |
| 22 | 1,7505 | A inkl. lett trafikk | Combination | Max | -603,7 | 44,543   | -0,109 | 0,003   | -0,1097 | 51,6724 | 22-3 | 0       |
| 22 | 2,7508 | A inkl. lett trafikk | Combination | Max | -604,1 | 120,216  | -0,109 | 0,003   | 0,0172  | -26,311 | 22-3 | 1,0003  |
| 22 | 2,7508 | A inkl. lett trafikk | Combination | Max | -641,6 | 131,682  | -0,044 | 0,003   | 0,0172  | -26,311 | 22-4 | 0       |
| 22 | 2,8749 | A inkl. lett trafikk | Combination | Max | -641,7 | 164,835  | -0,044 | 0,003   | 0,0266  | -34,777 | 22-4 | 0,12404 |
| 22 | 2,8749 | A inkl. lett trafikk | Combination | Max | -641,7 | 164,835  | -0,044 | 0,003   | 0,0266  | -34,777 | 22-4 | 0,12404 |
| 22 | 2,8759 | A inkl. lett trafikk | Combination | Max | -641,7 | 164,88   | -0,044 | 0,003   | 0,0267  | -34,848 | 22-4 | 0,12504 |
| 22 | 0      | A inkl. lett trafikk | Combination | Min | -1113  | -119,9   | -5,397 | 0,0023  | -3,215  | -33,145 | 22-1 | 0       |
| 22 | 0,7502 | A inkl. lett trafikk | Combination | Min | -1113  | -86,282  | -5,397 | 0,0023  | 0,3297  | 12,9316 | 22-1 | 0,75023 |
| 22 | 0,7502 | A inkl. lett trafikk | Combination | Min | -1150  | -55,233  | 0,446  | 0,0023  | 0,3297  | 12,9316 | 22-2 | 0       |

|    |        |                      |             |     |        |          |        |         |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|--------|---------|---------|---------|------|---------|
| 22 | 1,4379 | A inkl. lett trafikk | Combination | Min | -1150  | -13,058  | 0,446  | 0,0023  | 0,0012  | 18,6394 | 22-2 | 0,68771 |
| 22 | 1,7505 | A inkl. lett trafikk | Combination | Min | -1150  | 0,95     | 0,446  | 0,0023  | -0,2026 | 13,3471 | 22-2 | 1,0003  |
| 22 | 1,7505 | A inkl. lett trafikk | Combination | Min | -1194  | 20,182   | -0,153 | 0,0023  | -0,2026 | 13,3471 | 22-3 | 0       |
| 22 | 2,7508 | A inkl. lett trafikk | Combination | Min | -1194  | 65,007   | -0,153 | 0,0023  | -0,065  | -46,018 | 22-3 | 1,0003  |
| 22 | 2,7508 | A inkl. lett trafikk | Combination | Min | -1246  | 64,878   | -0,076 | 0,0023  | -0,065  | -46,018 | 22-4 | 0       |
| 22 | 2,8749 | A inkl. lett trafikk | Combination | Min | -1246  | 70,436   | -0,076 | 0,0023  | -0,0587 | -63,761 | 22-4 | 0,12404 |
| 22 | 2,8749 | A inkl. lett trafikk | Combination | Min | -1246  | 70,436   | -0,076 | 0,0023  | -0,0587 | -63,761 | 22-4 | 0,12404 |
| 22 | 2,8759 | A inkl. lett trafikk | Combination | Min | -1246  | 70,481   | -0,076 | 0,0023  | -0,0587 | -63,91  | 22-4 | 0,12504 |
| 23 | 0      | A inkl. lett trafikk | Combination | Max | -116,5 | 0        | 0,869  | 9E-06   | 1,4136  | 0       | 23-1 | 0       |
| 23 | 1,8615 | A inkl. lett trafikk | Combination | Max | -115,8 | 0        | 0,869  | 9E-06   | 0,1654  | 0       | 23-1 | 1,8615  |
| 23 | 3,723  | A inkl. lett trafikk | Combination | Max | -115   | 0        | 0,869  | 9E-06   | 0,485   | 0       | 23-1 | 3,723   |
| 23 | 0      | A inkl. lett trafikk | Combination | Min | -228,8 | 0        | -0,194 | -1E-05  | -0,2371 | 0       | 23-1 | 0       |
| 23 | 1,8615 | A inkl. lett trafikk | Combination | Min | -228   | 0        | -0,194 | -1E-05  | -0,2596 | 0       | 23-1 | 1,8615  |
| 23 | 3,723  | A inkl. lett trafikk | Combination | Min | -227,3 | 0        | -0,194 | -1E-05  | -1,822  | 0       | 23-1 | 3,723   |
| 24 | 0      | A inkl. lett trafikk | Combination | Max | 58,35  | -66,833  | -0,044 | 0,0015  | 0,0253  | -32,223 | 24-1 | 0       |
| 24 | 0,8753 | A inkl. lett trafikk | Combination | Max | 57,956 | -27,612  | -0,044 | 0,0015  | 0,0918  | 38,8517 | 24-1 | 0,87526 |
| 24 | 0,8753 | A inkl. lett trafikk | Combination | Max | 20,398 | -27,624  | -0,222 | 0,0015  | 0,0918  | 38,8517 | 24-2 | 0       |
| 24 | 1,4379 | A inkl. lett trafikk | Combination | Max | 20,145 | 6,582    | -0,222 | 0,0015  | 0,2308  | 45,04   | 24-2 | 0,56267 |
| 24 | 1,8756 | A inkl. lett trafikk | Combination | Max | 19,948 | 26,193   | -0,222 | 0,0015  | 0,4052  | 51,7045 | 24-2 | 1,0003  |
| 24 | 1,8756 | A inkl. lett trafikk | Combination | Max | -17,32 | 37,811   | 0,762  | 0,0015  | 0,4052  | 51,7045 | 24-3 | 0       |
| 24 | 2,8749 | A inkl. lett trafikk | Combination | Max | -17,77 | 113,798  | 0,762  | 0,0015  | 0,0237  | -18,309 | 24-3 | 0,9993  |
| 24 | 2,8749 | A inkl. lett trafikk | Combination | Max | -17,77 | 113,798  | 0,762  | 0,0015  | 0,0237  | -18,309 | 24-3 | 0,9993  |
| 24 | 2,8759 | A inkl. lett trafikk | Combination | Max | -17,77 | 113,843  | 0,762  | 0,0015  | 0,0234  | -18,365 | 24-3 | 1,0003  |
| 24 | 0      | A inkl. lett trafikk | Combination | Min | -429,3 | -132,273 | -0,076 | 0,00093 | -0,0602 | -59,757 | 24-1 | 0       |
| 24 | 0,8753 | A inkl. lett trafikk | Combination | Min | -429,7 | -93,052  | -0,076 | 0,00093 | -0,0157 | 5,7959  | 24-1 | 0,87526 |
| 24 | 0,8753 | A inkl. lett trafikk | Combination | Min | -476,7 | -61,606  | -0,399 | 0,00093 | -0,0157 | 5,7959  | 24-2 | 0       |
| 24 | 1,4379 | A inkl. lett trafikk | Combination | Min | -476,7 | -25,034  | -0,399 | 0,00093 | 0,1479  | 17,1282 | 24-2 | 0,56267 |
| 24 | 1,8756 | A inkl. lett trafikk | Combination | Min | -476,9 | -5,423   | -0,399 | 0,00093 | 0,2535  | 14,3227 | 24-2 | 1,0003  |
| 24 | 1,8756 | A inkl. lett trafikk | Combination | Min | -526,4 | 12,077   | 0,293  | 0,00093 | 0,2535  | 14,3227 | 24-3 | 0       |
| 24 | 2,8749 | A inkl. lett trafikk | Combination | Min | -526,6 | 56,856   | 0,293  | 0,00093 | -0,3585 | -39,266 | 24-3 | 0,9993  |
| 24 | 2,8749 | A inkl. lett trafikk | Combination | Min | -526,6 | 56,856   | 0,293  | 0,00093 | -0,3585 | -39,266 | 24-3 | 0,9993  |
| 24 | 2,8759 | A inkl. lett trafikk | Combination | Min | -526,6 | 56,901   | 0,293  | 0,00093 | -0,3592 | -39,38  | 24-3 | 1,0003  |
| 25 | 0      | A inkl. lett trafikk | Combination | Max | -115,6 | 0        | -0,149 | 3,6E-05 | -0,4015 | 0       | 25-1 | 0       |



|    |        |                      |             |     |        |          |        |          |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|--------|----------|---------|---------|------|---------|
| 25 | 1,9    | A inkl. lett trafikk | Combination | Max | -114,9 | 0        | -0,149 | 3,6E-05  | 0,2845  | 0       | 25-1 | 1,9     |
| 25 | 3,8    | A inkl. lett trafikk | Combination | Max | -114,2 | 0        | -0,149 | 3,6E-05  | 2,5924  | 0       | 25-1 | 3,8     |
| 25 | 0      | A inkl. lett trafikk | Combination | Min | -225,4 | 0        | -1,236 | 1,5E-05  | -2,1029 | 0       | 25-1 | 0       |
| 25 | 1,9    | A inkl. lett trafikk | Combination | Min | -224,7 | 0        | -1,236 | 1,5E-05  | -0,1369 | 0       | 25-1 | 1,9     |
| 25 | 3,8    | A inkl. lett trafikk | Combination | Min | -224   | 0        | -1,236 | 1,5E-05  | 0,1652  | 0       | 25-1 | 3,8     |
| 26 | 0      | A inkl. lett trafikk | Combination | Max | -56,52 | -52,555  | -0,117 | 0,003    | -0,0312 | -15,736 | 26-1 | 0       |
| 26 | 1,0003 | A inkl. lett trafikk | Combination | Max | -56,91 | -7,729   | -0,117 | 0,003    | 0,1974  | 49,4522 | 26-1 | 1,00033 |
| 26 | 1,0003 | A inkl. lett trafikk | Combination | Max | -94,65 | -7,729   | 0,483  | 0,003    | 0,1974  | 49,4522 | 26-2 | 0       |
| 26 | 1,438  | A inkl. lett trafikk | Combination | Max | -94,82 | 30,171   | 0,483  | 0,003    | -0,0139 | 40,9132 | 26-2 | 0,43764 |
| 26 | 2,0007 | A inkl. lett trafikk | Combination | Max | -95,04 | 55,386   | 0,483  | 0,003    | -0,2094 | 31,6247 | 26-2 | 1,00033 |
| 26 | 2,0007 | A inkl. lett trafikk | Combination | Max | -133,5 | 66,983   | 0,206  | 0,003    | -0,2094 | 31,6247 | 26-3 | 0       |
| 26 | 2,875  | A inkl. lett trafikk | Combination | Max | -133,8 | 137,341  | 0,206  | 0,003    | -0,3442 | -41,586 | 26-3 | 0,87429 |
| 26 | 2,875  | A inkl. lett trafikk | Combination | Max | -133,8 | 137,341  | 0,206  | 0,003    | -0,3442 | -41,586 | 26-3 | 0,87429 |
| 26 | 2,876  | A inkl. lett trafikk | Combination | Max | -133,8 | 137,386  | 0,206  | 0,003    | -0,3443 | -41,657 | 26-3 | 0,87529 |
| 26 | 0      | A inkl. lett trafikk | Combination | Min | -582,7 | -120,065 | -0,599 | 0,0024   | -0,4022 | -36,983 | 26-1 | 0       |
| 26 | 1,0003 | A inkl. lett trafikk | Combination | Min | -582,8 | -63,88   | -0,599 | 0,0024   | 0,021   | 12,9663 | 26-1 | 1,00033 |
| 26 | 1,0003 | A inkl. lett trafikk | Combination | Min | -640,3 | -32,441  | 0,3    | 0,0024   | 0,021   | 12,9663 | 26-2 | 0       |
| 26 | 1,438  | A inkl. lett trafikk | Combination | Min | -640,2 | -1,472   | 0,3    | 0,0024   | -0,1392 | 12,6598 | 26-2 | 0,43764 |
| 26 | 2,0007 | A inkl. lett trafikk | Combination | Min | -640,4 | 23,743   | 0,3    | 0,0024   | -0,3501 | -1,1205 | 26-2 | 1,00033 |
| 26 | 2,0007 | A inkl. lett trafikk | Combination | Min | -702   | 31,913   | 0,134  | 0,0024   | -0,3501 | -1,1205 | 26-3 | 0       |
| 26 | 2,875  | A inkl. lett trafikk | Combination | Min | -702   | 71,091   | 0,134  | 0,0024   | -0,5277 | -70,951 | 26-3 | 0,87429 |
| 26 | 2,875  | A inkl. lett trafikk | Combination | Min | -702   | 71,091   | 0,134  | 0,0024   | -0,5277 | -70,951 | 26-3 | 0,87429 |
| 26 | 2,876  | A inkl. lett trafikk | Combination | Min | -702   | 71,136   | 0,134  | 0,0024   | -0,5279 | -71,088 | 26-3 | 0,87529 |
| 27 | 0      | A inkl. lett trafikk | Combination | Max | -118,9 | 0        | -0,556 | 7,8E-05  | -1,2439 | 0       | 27-1 | 0       |
| 27 | 1,9275 | A inkl. lett trafikk | Combination | Max | -118,2 | 0        | -0,556 | 7,8E-05  | 0,1637  | 0       | 27-1 | 1,9275  |
| 27 | 3,855  | A inkl. lett trafikk | Combination | Max | -117,4 | 0        | -0,556 | 7,8E-05  | 2,6074  | 0       | 27-1 | 3,855   |
| 27 | 0      | A inkl. lett trafikk | Combination | Min | -232,4 | 0        | -1,297 | 5,2E-05  | -2,4054 | 0       | 27-1 | 0       |
| 27 | 1,9275 | A inkl. lett trafikk | Combination | Min | -231,7 | 0        | -1,297 | 5,2E-05  | -0,2372 | 0       | 27-1 | 1,9275  |
| 27 | 3,855  | A inkl. lett trafikk | Combination | Min | -230,9 | 0        | -1,297 | 5,2E-05  | 0,9004  | 0       | 27-1 | 3,855   |
| 28 | 0      | A inkl. lett trafikk | Combination | Max | 1004,7 | -66,525  | 0,209  | -0,00031 | -0,3469 | -36,419 | 28-1 | 0       |
| 28 | 0,125  | A inkl. lett trafikk | Combination | Max | 1004,7 | -60,921  | 0,209  | -0,00031 | -0,3666 | -28,352 | 28-1 | 0,12504 |
| 28 | 0,125  | A inkl. lett trafikk | Combination | Max | 966,09 | -60,939  | 0,271  | -0,00031 | -0,3666 | -28,352 | 28-2 | 0       |
| 28 | 1,1254 | A inkl. lett trafikk | Combination | Max | 965,67 | -16,114  | 0,271  | -0,00031 | -0,5493 | 44,1353 | 28-2 | 1,00031 |

|    |        |                      |             |     |        |          |        |          |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|--------|----------|---------|---------|------|---------|
| 28 | 1,1254 | A inkl. lett trafikk | Combination | Max | 933,99 | -16,114  | -0,162 | -0,00031 | -0,5493 | 44,1353 | 28-3 | 0       |
| 28 | 1,438  | A inkl. lett trafikk | Combination | Max | 933,86 | 17,395   | -0,162 | -0,00031 | -0,4607 | 41,2608 | 28-3 | 0,3126  |
| 28 | 2,1257 | A inkl. lett trafikk | Combination | Max | 933,57 | 48,212   | -0,162 | -0,00031 | -0,0569 | 32,838  | 28-3 | 1,00031 |
| 28 | 2,1257 | A inkl. lett trafikk | Combination | Max | 908,5  | 59,827   | 4,64   | -0,00031 | -0,0569 | 32,838  | 28-4 | 0       |
| 28 | 2,8749 | A inkl. lett trafikk | Combination | Max | 908,18 | 124,619  | 4,64   | -0,00031 | -1,8546 | -25,493 | 28-4 | 0,74923 |
| 28 | 2,8749 | A inkl. lett trafikk | Combination | Max | 908,18 | 124,619  | 4,64   | -0,00031 | -1,8546 | -25,493 | 28-4 | 0,74923 |
| 28 | 2,8759 | A inkl. lett trafikk | Combination | Max | 908,18 | 124,663  | 4,64   | -0,00031 | -1,8566 | -25,55  | 28-4 | 0,75023 |
| 28 | 0      | A inkl. lett trafikk | Combination | Min | 677,41 | -161,023 | 0,137  | -0,0009  | -0,5306 | -67,139 | 28-1 | 0       |
| 28 | 0,125  | A inkl. lett trafikk | Combination | Min | 677,36 | -155,419 | 0,137  | -0,0009  | -0,5567 | -49,743 | 28-1 | 0,12504 |
| 28 | 0,125  | A inkl. lett trafikk | Combination | Min | 624,06 | -127,238 | 0,181  | -0,0009  | -0,5567 | -49,743 | 28-2 | 0       |
| 28 | 1,1254 | A inkl. lett trafikk | Combination | Min | 623,92 | -71,054  | 0,181  | -0,0009  | -0,8274 | 6,923   | 28-2 | 1,00031 |
| 28 | 1,1254 | A inkl. lett trafikk | Combination | Min | 575,46 | -39,577  | -0,701 | -0,0009  | -0,8274 | 6,923   | 28-3 | 0       |
| 28 | 1,438  | A inkl. lett trafikk | Combination | Min | 575,61 | -14,21   | -0,701 | -0,0009  | -0,6826 | 10,7175 | 28-3 | 0,3126  |
| 28 | 2,1257 | A inkl. lett trafikk | Combination | Min | 575,32 | 16,607   | -0,701 | -0,0009  | -0,56   | 1,5689  | 28-3 | 1,00031 |
| 28 | 2,1257 | A inkl. lett trafikk | Combination | Min | 530,29 | 24,15    | 1,984  | -0,0009  | -0,56   | 1,5689  | 28-4 | 0       |
| 28 | 2,8749 | A inkl. lett trafikk | Combination | Min | 530,91 | 57,724   | 1,984  | -0,0009  | -3,5335 | -47,727 | 28-4 | 0,74923 |
| 28 | 2,8749 | A inkl. lett trafikk | Combination | Min | 530,91 | 57,724   | 1,984  | -0,0009  | -3,5335 | -47,727 | 28-4 | 0,74923 |
| 28 | 2,8759 | A inkl. lett trafikk | Combination | Min | 530,91 | 57,769   | 1,984  | -0,0009  | -3,5381 | -47,816 | 28-4 | 0,75023 |
| 29 | 0      | A inkl. lett trafikk | Combination | Max | -112,8 | 0        | 2,187  | -0,00017 | 3,0474  | 0       | 29-1 | 0       |
| 29 | 1,426  | A inkl. lett trafikk | Combination | Max | -112,2 | 0        | 2,187  | -0,00017 | 0,2742  | 0       | 29-1 | 1,426   |
| 29 | 2,852  | A inkl. lett trafikk | Combination | Max | -111,7 | 0        | 2,187  | -0,00017 | -1,2441 | 0       | 29-1 | 2,852   |
| 29 | 0      | A inkl. lett trafikk | Combination | Min | -222,4 | 0        | 1,018  | -0,00027 | 1,5572  | 0       | 29-1 | 0       |
| 29 | 1,426  | A inkl. lett trafikk | Combination | Min | -221,8 | 0        | 1,018  | -0,00027 | -0,1446 | 0       | 29-1 | 1,426   |
| 29 | 2,852  | A inkl. lett trafikk | Combination | Min | -221,3 | 0        | 1,018  | -0,00027 | -3,233  | 0       | 29-1 | 2,852   |
| 30 | 0      | A inkl. lett trafikk | Combination | Max | -135,8 | 0        | -0,501 | -5,7E-06 | -1,0579 | 0       | 30-1 | 0       |
| 30 | 1,944  | A inkl. lett trafikk | Combination | Max | -135   | 0        | -0,501 | -5,7E-06 | 0,2098  | 0       | 30-1 | 1,944   |
| 30 | 3,888  | A inkl. lett trafikk | Combination | Max | -134,3 | 0        | -0,501 | -5,7E-06 | 2,4015  | 0       | 30-1 | 3,888   |
| 30 | 0      | A inkl. lett trafikk | Combination | Min | -248,8 | 0        | -1,143 | -1,7E-05 | -2,0439 | 0       | 30-1 | 0       |
| 30 | 1,944  | A inkl. lett trafikk | Combination | Min | -248,1 | 0        | -1,143 | -1,7E-05 | -0,1075 | 0       | 30-1 | 1,944   |
| 30 | 3,888  | A inkl. lett trafikk | Combination | Min | -247,3 | 0        | -1,143 | -1,7E-05 | 0,8917  | 0       | 30-1 | 3,888   |
| 31 | 0      | A inkl. lett trafikk | Combination | Max | -110,1 | 0        | 1,077  | 1,5E-05  | 1,4162  | 0       | 31-1 | 0       |
| 31 | 1,476  | A inkl. lett trafikk | Combination | Max | -109,5 | 0        | 1,077  | 1,5E-05  | 0,1874  | 0       | 31-1 | 1,476   |
| 31 | 2,952  | A inkl. lett trafikk | Combination | Max | -108,9 | 0        | 1,077  | 1,5E-05  | 0,4498  | 0       | 31-1 | 2,952   |



|    |        |                      |             |     |        |         |        |          |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|---------|--------|----------|---------|---------|------|---------|
| 31 | 0      | A inkl. lett trafikk | Combination | Min | -214,6 | 0       | -0,205 | -2,8E-05 | -0,1547 | 0       | 31-1 | 0       |
| 31 | 1,476  | A inkl. lett trafikk | Combination | Min | -214,1 | 0       | -0,205 | -2,8E-05 | -0,2132 | 0       | 31-1 | 1,476   |
| 31 | 2,952  | A inkl. lett trafikk | Combination | Min | -213,5 | 0       | -0,205 | -2,8E-05 | -1,7631 | 0       | 31-1 | 2,952   |
| 32 | 0      | A inkl. lett trafikk | Combination | Max | -25,24 | 0       | -0,436 | -6,2E-05 | -0,8601 | 0       | 32-1 | 0       |
| 32 | 1,9485 | A inkl. lett trafikk | Combination | Max | -24,66 | 0       | -0,436 | -6,2E-05 | 0,0218  | 0       | 32-1 | 1,9485  |
| 32 | 3,897  | A inkl. lett trafikk | Combination | Max | -24,08 | 0       | -0,436 | -6,2E-05 | 1,2626  | 0       | 32-1 | 3,897   |
| 32 | 0      | A inkl. lett trafikk | Combination | Min | -33,77 | 0       | -0,64  | -8,3E-05 | -1,2328 | 0       | 32-1 | 0       |
| 32 | 1,9485 | A inkl. lett trafikk | Combination | Min | -33,19 | 0       | -0,64  | -8,3E-05 | -0,0516 | 0       | 32-1 | 1,9485  |
| 32 | 3,897  | A inkl. lett trafikk | Combination | Min | -32,61 | 0       | -0,64  | -8,3E-05 | 0,8164  | 0       | 32-1 | 3,897   |
| 33 | 0      | A inkl. lett trafikk | Combination | Max | -104,7 | 0       | -0,48  | -3,2E-06 | -0,815  | 0       | 33-1 | 0       |
| 33 | 1,528  | A inkl. lett trafikk | Combination | Max | -104,1 | 0       | -0,48  | -3,2E-06 | 0,3007  | 0       | 33-1 | 1,528   |
| 33 | 3,056  | A inkl. lett trafikk | Combination | Max | -103,5 | 0       | -0,48  | -3,2E-06 | 2,8792  | 0       | 33-1 | 3,056   |
| 33 | 0      | A inkl. lett trafikk | Combination | Min | -210   | 0       | -1,735 | -2,8E-05 | -2,4227 | 0       | 33-1 | 0       |
| 33 | 1,528  | A inkl. lett trafikk | Combination | Min | -209,4 | 0       | -1,735 | -2,8E-05 | -0,1006 | 0       | 33-1 | 1,528   |
| 33 | 3,056  | A inkl. lett trafikk | Combination | Min | -208,8 | 0       | -1,735 | -2,8E-05 | 0,6514  | 0       | 33-1 | 3,056   |
| 34 | 0      | A inkl. lett trafikk | Combination | Max | -139,6 | 0       | 0,528  | 7,6E-06  | 0,8971  | 0       | 34-1 | 0       |
| 34 | 1,951  | A inkl. lett trafikk | Combination | Max | -138,8 | 0       | 0,528  | 7,6E-06  | 0,1877  | 0       | 34-1 | 1,951   |
| 34 | 3,902  | A inkl. lett trafikk | Combination | Max | -138,1 | 0       | 0,528  | 7,6E-06  | 1,2175  | 0       | 34-1 | 3,902   |
| 34 | 0      | A inkl. lett trafikk | Combination | Min | -243,2 | 0       | -0,556 | -2E-05   | -0,9508 | 0       | 34-1 | 0       |
| 34 | 1,951  | A inkl. lett trafikk | Combination | Min | -242,4 | 0       | -0,556 | -2E-05   | -0,19   | 0       | 34-1 | 1,951   |
| 34 | 3,902  | A inkl. lett trafikk | Combination | Min | -241,7 | 0       | -0,556 | -2E-05   | -1,1655 | 0       | 34-1 | 3,902   |
| 35 | 0      | A inkl. lett trafikk | Combination | Max | -106   | 0       | -1,063 | 5,6E-06  | -1,7644 | 0       | 35-1 | 0       |
| 35 | 1,5775 | A inkl. lett trafikk | Combination | Max | -105,4 | 0       | -1,063 | 5,6E-06  | 0,2334  | 0       | 35-1 | 1,5775  |
| 35 | 3,155  | A inkl. lett trafikk | Combination | Max | -104,8 | 0       | -1,063 | 5,6E-06  | 3,4022  | 0       | 35-1 | 3,155   |
| 35 | 0      | A inkl. lett trafikk | Combination | Min | -213,2 | 0       | -2,022 | -1,7E-05 | -3,0512 | 0       | 35-1 | 0       |
| 35 | 1,5775 | A inkl. lett trafikk | Combination | Min | -212,6 | 0       | -2,022 | -1,7E-05 | -0,1655 | 0       | 35-1 | 1,5775  |
| 35 | 3,155  | A inkl. lett trafikk | Combination | Min | -212   | 0       | -2,022 | -1,7E-05 | 1,588   | 0       | 35-1 | 3,155   |
| 36 | 0      | A inkl. lett trafikk | Combination | Max | 2415,1 | -79,879 | 1,823  | 0,0169   | 3,0351  | -63,613 | 36-1 | 0       |
| 36 | 0,5001 | A inkl. lett trafikk | Combination | Max | 2414,7 | -56,899 | 1,823  | 0,0169   | 3,2513  | -18,614 | 36-1 | 0,50007 |
| 36 | 0,5001 | A inkl. lett trafikk | Combination | Max | 2437   | -56,125 | 1,098  | 0,0169   | 3,2513  | -18,614 | 36-2 | 0       |
| 36 | 1,5002 | A inkl. lett trafikk | Combination | Max | 2436,2 | -10,165 | 1,098  | 0,0169   | 2,1529  | 43,3722 | 36-2 | 1,00014 |
| 36 | 1,5002 | A inkl. lett trafikk | Combination | Max | 2468,8 | -6,066  | 0,665  | 0,0169   | 2,1529  | 43,3722 | 36-3 | 0       |
| 36 | 1,6242 | A inkl. lett trafikk | Combination | Max | 2468,7 | 27,574  | 0,665  | 0,0169   | 2,0704  | 40,6795 | 36-3 | 0,12402 |

|    |        |                      |             |     |        |          |        |         |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|--------|---------|---------|---------|------|---------|
| 36 | 1,6242 | A inkl. lett trafikk | Combination | Max | 2468,7 | 27,574   | 0,665  | 0,0169  | 2,0704  | 40,6795 | 36-3 | 0,12402 |
| 36 | 2,5004 | A inkl. lett trafikk | Combination | Max | 2468   | 67,835   | 0,665  | 0,0169  | 1,4899  | 12,7995 | 36-3 | 1,00014 |
| 36 | 2,5004 | A inkl. lett trafikk | Combination | Max | 2508,9 | 79,486   | 0,626  | 0,0169  | 1,4899  | 12,7995 | 36-4 | 0       |
| 36 | 3,2495 | A inkl. lett trafikk | Combination | Max | 2508,3 | 142,634  | 0,626  | 0,0169  | 1,0227  | -43,352 | 36-4 | 0,7491  |
| 36 | 3,2495 | A inkl. lett trafikk | Combination | Max | 2508,3 | 142,634  | 0,626  | 0,0169  | 1,0227  | -43,352 | 36-4 | 0,7491  |
| 36 | 3,2505 | A inkl. lett trafikk | Combination | Max | 2508,3 | 142,68   | 0,626  | 0,0169  | 1,0221  | -43,418 | 36-4 | 0,7501  |
| 36 | 0      | A inkl. lett trafikk | Combination | Min | 1897,8 | -161,72  | -3,463 | 0,0082  | 1,5194  | -99,019 | 36-1 | 0       |
| 36 | 0,5001 | A inkl. lett trafikk | Combination | Min | 1897,4 | -138,74  | -3,463 | 0,0082  | 1,9421  | -40,766 | 36-1 | 0,50007 |
| 36 | 0,5001 | A inkl. lett trafikk | Combination | Min | 1898,4 | -109,899 | 0,331  | 0,0082  | 1,9421  | -40,766 | 36-2 | 0       |
| 36 | 1,5002 | A inkl. lett trafikk | Combination | Min | 1897,6 | -52,579  | 0,331  | 0,0082  | 1,488   | -2,5458 | 36-2 | 1,00014 |
| 36 | 1,5002 | A inkl. lett trafikk | Combination | Min | 1904,9 | -23,594  | 0,442  | 0,0082  | 1,488   | -2,5458 | 36-3 | 0       |
| 36 | 1,6242 | A inkl. lett trafikk | Combination | Min | 1904,8 | -9,85    | 0,442  | 0,0082  | 1,4332  | -1,6386 | 36-3 | 0,12402 |
| 36 | 1,6242 | A inkl. lett trafikk | Combination | Min | 1904,8 | -9,85    | 0,442  | 0,0082  | 1,4332  | -1,6386 | 36-3 | 0,12402 |
| 36 | 2,5004 | A inkl. lett trafikk | Combination | Min | 1904,1 | 30,411   | 0,442  | 0,0082  | 1,0458  | -15,363 | 36-3 | 1,00014 |
| 36 | 2,5004 | A inkl. lett trafikk | Combination | Min | 1917,8 | 30,459   | 0,445  | 0,0082  | 1,0458  | -15,363 | 36-4 | 0       |
| 36 | 3,2495 | A inkl. lett trafikk | Combination | Min | 1917,2 | 64,884   | 0,445  | 0,0082  | 0,7124  | -81,949 | 36-4 | 0,7491  |
| 36 | 3,2495 | A inkl. lett trafikk | Combination | Min | 1917,2 | 64,884   | 0,445  | 0,0082  | 0,7124  | -81,949 | 36-4 | 0,7491  |
| 36 | 3,2505 | A inkl. lett trafikk | Combination | Min | 1917,2 | 64,929   | 0,445  | 0,0082  | 0,7119  | -82,074 | 36-4 | 0,7501  |
| 37 | 0      | A inkl. lett trafikk | Combination | Max | -107,4 | 0        | -1,082 | 0,00033 | -1,86   | 0       | 37-1 | 0       |
| 37 | 1,6295 | A inkl. lett trafikk | Combination | Max | -106,8 | 0        | -1,082 | 0,00033 | 0,1985  | 0       | 37-1 | 1,6295  |
| 37 | 3,259  | A inkl. lett trafikk | Combination | Max | -106,2 | 0        | -1,082 | 0,00033 | 3,3973  | 0       | 37-1 | 3,259   |
| 37 | 0      | A inkl. lett trafikk | Combination | Min | -212,2 | 0        | -1,988 | 0,00023 | -3,0813 | 0       | 37-1 | 0       |
| 37 | 1,6295 | A inkl. lett trafikk | Combination | Min | -211,6 | 0        | -1,988 | 0,00023 | -0,1431 | 0       | 37-1 | 1,6295  |
| 37 | 3,259  | A inkl. lett trafikk | Combination | Min | -211   | 0        | -1,988 | 0,00023 | 1,6647  | 0       | 37-1 | 3,259   |
| 38 | 0      | A inkl. lett trafikk | Combination | Max | -2,814 | 0        | -0,293 | 0,00034 | -0,532  | 0       | 38-1 | 0       |
| 38 | 1,6545 | A inkl. lett trafikk | Combination | Max | -2,321 | 0        | -0,293 | 0,00034 | 0,0003  | 0       | 38-1 | 1,6545  |
| 38 | 3,309  | A inkl. lett trafikk | Combination | Max | -1,828 | 0        | -0,293 | 0,00034 | 0,8031  | 0       | 38-1 | 3,309   |
| 38 | 0      | A inkl. lett trafikk | Combination | Min | -5,651 | 0        | -0,489 | 0,00023 | -0,8137 | 0       | 38-1 | 0       |
| 38 | 1,6545 | A inkl. lett trafikk | Combination | Min | -5,158 | 0        | -0,489 | 0,00023 | -0,0568 | 0       | 38-1 | 1,6545  |
| 38 | 3,309  | A inkl. lett trafikk | Combination | Min | -4,665 | 0        | -0,489 | 0,00023 | 0,4367  | 0       | 38-1 | 3,309   |
| 39 | 0      | A inkl. lett trafikk | Combination | Max | -175,2 | 0        | 0,513  | 3,9E-05 | 0,6984  | 0       | 39-1 | 0       |
| 39 | 1,681  | A inkl. lett trafikk | Combination | Max | -174,6 | 0        | 0,513  | 3,9E-05 | 0,0548  | 0       | 39-1 | 1,681   |
| 39 | 3,362  | A inkl. lett trafikk | Combination | Max | -174   | 0        | 0,513  | 3,9E-05 | 0,395   | 0       | 39-1 | 3,362   |



|    |        |                      |             |     |        |          |        |         |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|--------|---------|---------|---------|------|---------|
| 39 | 0      | A inkl. lett trafikk | Combination | Min | -289,8 | 0        | -0,202 | 9,4E-06 | -0,2854 | 0       | 39-1 | 0       |
| 39 | 1,681  | A inkl. lett trafikk | Combination | Min | -289,1 | 0        | -0,202 | 9,4E-06 | -0,1986 | 0       | 39-1 | 1,681   |
| 39 | 3,362  | A inkl. lett trafikk | Combination | Min | -288,5 | 0        | -0,202 | 9,4E-06 | -1,0402 | 0       | 39-1 | 3,362   |
| 40 | 0      | A inkl. lett trafikk | Combination | Max | 750,43 | -69,081  | 0,339  | -0,0019 | 1,3569  | -43,255 | 40-1 | 0       |
| 40 | 1,0003 | A inkl. lett trafikk | Combination | Max | 750,01 | -24,256  | 0,339  | -0,0019 | 1,041   | 29,9019 | 40-1 | 1,00031 |
| 40 | 1,0003 | A inkl. lett trafikk | Combination | Max | 777,24 | -24,256  | 0,613  | -0,0019 | 1,041   | 29,9019 | 40-2 | 0       |
| 40 | 1,438  | A inkl. lett trafikk | Combination | Max | 777,05 | 11,692   | 0,613  | -0,0019 | 0,7725  | 29,4498 | 40-2 | 0,43764 |
| 40 | 2,0006 | A inkl. lett trafikk | Combination | Max | 776,82 | 36,907   | 0,613  | -0,0019 | 0,4273  | 30,8557 | 40-2 | 1,00031 |
| 40 | 2,0006 | A inkl. lett trafikk | Combination | Max | 810,79 | 48,527   | 0,502  | -0,0019 | 0,4273  | 30,8557 | 40-3 | 0       |
| 40 | 2,8749 | A inkl. lett trafikk | Combination | Max | 810,43 | 119,171  | 0,502  | -0,0019 | 0,0197  | -23,89  | 40-3 | 0,87427 |
| 40 | 2,8749 | A inkl. lett trafikk | Combination | Max | 810,43 | 119,171  | 0,502  | -0,0019 | 0,0197  | -23,89  | 40-3 | 0,87427 |
| 40 | 2,8759 | A inkl. lett trafikk | Combination | Max | 810,43 | 119,216  | 0,502  | -0,0019 | 0,0193  | -23,944 | 40-3 | 0,87527 |
| 40 | 0      | A inkl. lett trafikk | Combination | Min | 454,84 | -138,543 | 0,206  | -0,0047 | 0,8507  | -75,016 | 40-1 | 0       |
| 40 | 1,0003 | A inkl. lett trafikk | Combination | Min | 454,42 | -82,359  | 0,206  | -0,0047 | 0,6447  | -2,1711 | 40-1 | 1,00031 |
| 40 | 1,0003 | A inkl. lett trafikk | Combination | Min | 466,34 | -50,632  | 0,386  | -0,0047 | 0,6447  | -2,1711 | 40-2 | 0       |
| 40 | 1,438  | A inkl. lett trafikk | Combination | Min | 466,15 | -19,663  | 0,386  | -0,0047 | 0,4756  | 4,9946  | 40-2 | 0,43764 |
| 40 | 2,0006 | A inkl. lett trafikk | Combination | Min | 465,92 | 5,551    | 0,386  | -0,0047 | 0,2583  | 1,5965  | 40-2 | 1,00031 |
| 40 | 2,0006 | A inkl. lett trafikk | Combination | Min | 481,69 | 15,429   | 0,315  | -0,0047 | 0,2583  | 1,5965  | 40-3 | 0       |
| 40 | 2,8749 | A inkl. lett trafikk | Combination | Min | 481,32 | 54,607   | 0,315  | -0,0047 | -0,0277 | -55,833 | 40-3 | 0,87427 |
| 40 | 2,8749 | A inkl. lett trafikk | Combination | Min | 481,32 | 54,607   | 0,315  | -0,0047 | -0,0277 | -55,833 | 40-3 | 0,87427 |
| 40 | 2,8759 | A inkl. lett trafikk | Combination | Min | 481,32 | 54,651   | 0,315  | -0,0047 | -0,0282 | -55,952 | 40-3 | 0,87527 |
| 41 | 0      | A inkl. lett trafikk | Combination | Max | -367,3 | -63,696  | 0,508  | -0,0046 | 0,0248  | -26,372 | 41-1 | 0       |
| 41 | 0,125  | A inkl. lett trafikk | Combination | Max | -367,4 | -58,092  | 0,508  | -0,0046 | -0,0178 | -18,758 | 41-1 | 0,12504 |
| 41 | 0,125  | A inkl. lett trafikk | Combination | Max | -344,2 | -58,075  | 0,569  | -0,0046 | -0,0178 | -18,758 | 41-2 | 0       |
| 41 | 1,1254 | A inkl. lett trafikk | Combination | Max | -344,6 | -13,25   | 0,569  | -0,0046 | -0,3978 | 50,9298 | 41-2 | 1,00031 |
| 41 | 1,1254 | A inkl. lett trafikk | Combination | Max | -323,3 | -13,25   | -0,031 | -0,0046 | -0,3978 | 50,9298 | 41-3 | 0       |
| 41 | 1,438  | A inkl. lett trafikk | Combination | Max | -323,5 | 18,889   | -0,031 | -0,0046 | -0,2577 | 47,5881 | 41-3 | 0,3126  |
| 41 | 2,1257 | A inkl. lett trafikk | Combination | Max | -323,8 | 49,706   | -0,031 | -0,0046 | 0,1097  | 38,2762 | 41-3 | 1,00031 |
| 41 | 2,1257 | A inkl. lett trafikk | Combination | Max | -304,3 | 61,32    | 5,383  | -0,0046 | 0,1097  | 38,2762 | 41-4 | 0       |
| 41 | 2,8749 | A inkl. lett trafikk | Combination | Max | -304,7 | 126,184  | 5,383  | -0,0046 | -2,4113 | -20,728 | 41-4 | 0,74923 |
| 41 | 2,8749 | A inkl. lett trafikk | Combination | Max | -304,7 | 126,184  | 5,383  | -0,0046 | -2,4113 | -20,728 | 41-4 | 0,74923 |
| 41 | 2,8759 | A inkl. lett trafikk | Combination | Max | -304,7 | 126,229  | 5,383  | -0,0046 | -2,4142 | -20,786 | 41-4 | 0,75023 |
| 41 | 0      | A inkl. lett trafikk | Combination | Min | -719,2 | -159,786 | 0,323  | -0,006  | -0,0252 | -58,68  | 41-1 | 0       |

|    |        |                      |             |     |        |          |        |         |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|--------|---------|---------|---------|------|---------|
| 41 | 0,125  | A inkl. lett trafikk | Combination | Min | -719,2 | -154,183 | 0,323  | -0,006  | -0,0885 | -42,146 | 41-1 | 0,12504 |
| 41 | 0,125  | A inkl. lett trafikk | Combination | Min | -680,9 | -125,743 | 0,359  | -0,006  | -0,0885 | -42,146 | 41-2 | 0       |
| 41 | 1,1254 | A inkl. lett trafikk | Combination | Min | -681   | -69,56   | 0,359  | -0,006  | -0,6422 | 11,3812 | 41-2 | 1,00031 |
| 41 | 1,1254 | A inkl. lett trafikk | Combination | Min | -646,8 | -38,01   | -0,601 | -0,006  | -0,6422 | 11,3812 | 41-3 | 0       |
| 41 | 1,438  | A inkl. lett trafikk | Combination | Min | -646,6 | -12,643  | -0,601 | -0,006  | -0,6223 | 15,7081 | 41-3 | 0,3126  |
| 41 | 2,1257 | A inkl. lett trafikk | Combination | Min | -646,9 | 18,174   | -0,601 | -0,006  | -0,5983 | 7,7502  | 41-3 | 1,00031 |
| 41 | 2,1257 | A inkl. lett trafikk | Combination | Min | -616,3 | 23,977   | 2,963  | -0,006  | -0,5983 | 7,7502  | 41-4 | 0       |
| 41 | 2,8749 | A inkl. lett trafikk | Combination | Min | -616,3 | 57,551   | 2,963  | -0,006  | -3,9648 | -44,147 | 41-4 | 0,74923 |
| 41 | 2,8749 | A inkl. lett trafikk | Combination | Min | -616,3 | 57,551   | 2,963  | -0,006  | -3,9648 | -44,147 | 41-4 | 0,74923 |
| 41 | 2,8759 | A inkl. lett trafikk | Combination | Min | -616,3 | 57,596   | 2,963  | -0,006  | -3,9702 | -44,239 | 41-4 | 0,75023 |
| 42 | 0      | A inkl. lett trafikk | Combination | Max | 646,69 | -67,227  | -0,597 | 0,0012  | -1,1171 | -33,513 | 42-1 | 0       |
| 42 | 1,0001 | A inkl. lett trafikk | Combination | Max | 645,8  | -22,418  | -0,597 | 0,0012  | -0,4848 | 47,0564 | 42-1 | 1,00011 |
| 42 | 1,0001 | A inkl. lett trafikk | Combination | Max | 673,64 | -22,418  | 0,149  | 0,0012  | -0,4848 | 47,0564 | 42-2 | 0       |
| 42 | 1,6242 | A inkl. lett trafikk | Combination | Max | 673,08 | 16,319   | 0,149  | 0,0012  | -0,513  | 50,6178 | 42-2 | 0,62407 |
| 42 | 1,6242 | A inkl. lett trafikk | Combination | Max | 673,08 | 16,319   | 0,149  | 0,0012  | -0,513  | 50,6178 | 42-2 | 0,62407 |
| 42 | 2,0002 | A inkl. lett trafikk | Combination | Max | 672,75 | 33,167   | 0,149  | 0,0012  | -0,5213 | 53,9025 | 42-2 | 1,00011 |
| 42 | 2,0002 | A inkl. lett trafikk | Combination | Max | 705,41 | 44,788   | -0,173 | 0,0012  | -0,5213 | 53,9025 | 42-3 | 0       |
| 42 | 3,0003 | A inkl. lett trafikk | Combination | Max | 704,52 | 118,954  | -0,173 | 0,0012  | -0,3484 | -23,525 | 42-3 | 1,00011 |
| 42 | 3,0003 | A inkl. lett trafikk | Combination | Max | 742,32 | 130,347  | -0,151 | 0,0012  | -0,3484 | -23,525 | 42-4 | 0       |
| 42 | 3,2493 | A inkl. lett trafikk | Combination | Max | 742,1  | 167,946  | -0,151 | 0,0012  | -0,3107 | -40,518 | 42-4 | 0,24903 |
| 42 | 3,2493 | A inkl. lett trafikk | Combination | Max | 742,1  | 167,946  | -0,151 | 0,0012  | -0,3107 | -40,518 | 42-4 | 0,24903 |
| 42 | 3,2503 | A inkl. lett trafikk | Combination | Max | 742,1  | 167,991  | -0,151 | 0,0012  | -0,3106 | -40,592 | 42-4 | 0,25003 |
| 42 | 0      | A inkl. lett trafikk | Combination | Min | 252,73 | -142,268 | -1,106 | 0,00078 | -1,6523 | -61,572 | 42-1 | 0       |
| 42 | 1,0001 | A inkl. lett trafikk | Combination | Min | 252,01 | -86,098  | -1,106 | 0,00078 | -0,7453 | 7,6393  | 42-1 | 1,00011 |
| 42 | 1,0001 | A inkl. lett trafikk | Combination | Min | 299,5  | -56,481  | -0,045 | 0,00078 | -0,7453 | 7,6393  | 42-2 | 0       |
| 42 | 1,6242 | A inkl. lett trafikk | Combination | Min | 299,36 | -17,159  | -0,045 | 0,00078 | -0,7305 | 16,3617 | 42-2 | 0,62407 |
| 42 | 1,6242 | A inkl. lett trafikk | Combination | Min | 299,36 | -17,159  | -0,045 | 0,00078 | -0,7305 | 16,3617 | 42-2 | 0,62407 |
| 42 | 2,0002 | A inkl. lett trafikk | Combination | Min | 299,02 | -0,311   | -0,045 | 0,00078 | -0,7573 | 11,3265 | 42-2 | 1,00011 |
| 42 | 2,0002 | A inkl. lett trafikk | Combination | Min | 347,12 | 16,852   | -0,237 | 0,00078 | -0,7573 | 11,3265 | 42-3 | 0       |
| 42 | 3,0003 | A inkl. lett trafikk | Combination | Min | 346,39 | 61,661   | -0,237 | 0,00078 | -0,52   | -45,237 | 42-3 | 1,00011 |
| 42 | 3,0003 | A inkl. lett trafikk | Combination | Min | 397,39 | 61,589   | -0,207 | 0,00078 | -0,52   | -45,237 | 42-4 | 0       |
| 42 | 3,2493 | A inkl. lett trafikk | Combination | Min | 397,33 | 72,747   | -0,207 | 0,00078 | -0,4689 | -78,848 | 42-4 | 0,24903 |
| 42 | 3,2493 | A inkl. lett trafikk | Combination | Min | 397,33 | 72,747   | -0,207 | 0,00078 | -0,4689 | -78,848 | 42-4 | 0,24903 |



|    |        |                      |             |     |        |          |          |         |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|----------|---------|---------|---------|------|---------|
| 42 | 3,2503 | A inkl. lett trafikk | Combination | Min | 397,33 | 72,791   | -0,207   | 0,00078 | -0,4687 | -79,001 | 42-4 | 0,25003 |
| 43 | 0      | A inkl. lett trafikk | Combination | Max | -388   | -76,192  | -0,153   | 0,0107  | -0,3149 | -45,227 | 43-1 | 0       |
| 43 | 0,7501 | A inkl. lett trafikk | Combination | Max | -388,7 | -42,586  | -0,153   | 0,0107  | -0,1962 | 22,0067 | 43-1 | 0,75007 |
| 43 | 0,7501 | A inkl. lett trafikk | Combination | Max | -351,6 | -42,67   | -0,091   | 0,0107  | -0,1962 | 22,0067 | 43-2 | 0       |
| 43 | 1,6241 | A inkl. lett trafikk | Combination | Max | -352,5 | -3,508   | -0,091   | 0,0107  | -0,0859 | 60,7272 | 43-2 | 0,87408 |
| 43 | 1,6241 | A inkl. lett trafikk | Combination | Max | -352,5 | -3,508   | -0,091   | 0,0107  | -0,0859 | 60,7272 | 43-2 | 0,87408 |
| 43 | 1,7502 | A inkl. lett trafikk | Combination | Max | -352,6 | 2,137    | -0,091   | 0,0107  | -0,0699 | 65,5134 | 43-2 | 1,00009 |
| 43 | 1,7502 | A inkl. lett trafikk | Combination | Max | -318,1 | 10,562   | -1,04    | 0,0107  | -0,0699 | 65,5134 | 43-3 | 0       |
| 43 | 2,7502 | A inkl. lett trafikk | Combination | Max | -319   | 84,105   | -1,04    | 0,0107  | 1,8179  | 17,2859 | 43-3 | 1,00009 |
| 43 | 2,7502 | A inkl. lett trafikk | Combination | Max | -286,7 | 94,925   | 11,917   | 0,0107  | 1,8179  | 17,2859 | 43-4 | 0       |
| 43 | 3,2493 | A inkl. lett trafikk | Combination | Max | -287,2 | 145,41   | 11,917   | 0,0107  | -1,9438 | -23,311 | 43-4 | 0,49904 |
| 43 | 3,2493 | A inkl. lett trafikk | Combination | Max | -287,2 | 145,41   | 11,917   | 0,0107  | -1,9438 | -23,311 | 43-4 | 0,49904 |
| 43 | 3,2503 | A inkl. lett trafikk | Combination | Max | -287,2 | 145,455  | 11,917   | 0,0107  | -1,9497 | -23,376 | 43-4 | 0,50004 |
| 43 | 0      | A inkl. lett trafikk | Combination | Min | -948,6 | -153,847 | -0,208   | 0,0046  | -0,473  | -81,732 | 43-1 | 0       |
| 43 | 0,7501 | A inkl. lett trafikk | Combination | Min | -949,3 | -120,241 | -0,208   | 0,0046  | -0,3183 | -7,7812 | 43-1 | 0,75007 |
| 43 | 0,7501 | A inkl. lett trafikk | Combination | Min | -890,4 | -91,328  | -0,164   | 0,0046  | -0,3183 | -7,7812 | 43-2 | 0       |
| 43 | 1,6241 | A inkl. lett trafikk | Combination | Min | -891,1 | -40,805  | -0,164   | 0,0046  | -0,1772 | 18,1938 | 43-2 | 0,87408 |
| 43 | 1,6241 | A inkl. lett trafikk | Combination | Min | -891,1 | -40,805  | -0,164   | 0,0046  | -0,1772 | 18,1938 | 43-2 | 0,87408 |
| 43 | 1,7502 | A inkl. lett trafikk | Combination | Min | -891,2 | -35,159  | -0,164   | 0,0046  | -0,1569 | 19,1154 | 43-2 | 1,00009 |
| 43 | 1,7502 | A inkl. lett trafikk | Combination | Min | -838,4 | -6,751   | -1,937   | 0,0046  | -0,1569 | 19,1154 | 43-3 | 0       |
| 43 | 2,7502 | A inkl. lett trafikk | Combination | Min | -839,2 | 40,317   | -1,937   | 0,0046  | 0,9516  | -6,6483 | 43-3 | 1,00009 |
| 43 | 2,7502 | A inkl. lett trafikk | Combination | Min | -792,6 | 39,849   | 5,816    | 0,0046  | 0,9516  | -6,6483 | 43-4 | 0       |
| 43 | 3,2493 | A inkl. lett trafikk | Combination | Min | -793   | 62,208   | 5,816    | 0,0046  | -4,1334 | -54,327 | 43-4 | 0,49904 |
| 43 | 3,2493 | A inkl. lett trafikk | Combination | Min | -793   | 62,208   | 5,816    | 0,0046  | -4,1334 | -54,327 | 43-4 | 0,49904 |
| 43 | 3,2503 | A inkl. lett trafikk | Combination | Min | -793   | 62,253   | 5,816    | 0,0046  | -4,1454 | -54,455 | 43-4 | 0,50004 |
| 44 | 0      | A inkl. lett trafikk | Combination | Max | -289,7 | -64,315  | -6,035   | -0,001  | -2,0927 | -25,543 | 44-1 | 0       |
| 44 | 0,5    | A inkl. lett trafikk | Combination | Max | -290,2 | -41,914  | -6,035   | -0,001  | 1,7802  | 16,7215 | 44-1 | 0,50002 |
| 44 | 0,5    | A inkl. lett trafikk | Combination | Max | -259,9 | -42,71   | 1,803    | -0,001  | 1,7802  | 16,7215 | 44-2 | 0       |
| 44 | 1,5001 | A inkl. lett trafikk | Combination | Max | -261   | 2,092    | 1,803    | -0,001  | 0,0447  | 67,7245 | 44-2 | 1,00005 |
| 44 | 1,5001 | A inkl. lett trafikk | Combination | Max | -232,3 | 4,495    | 0,000637 | -0,001  | 0,0447  | 67,7245 | 44-3 | 0       |
| 44 | 1,6241 | A inkl. lett trafikk | Combination | Max | -232,4 | 38,214   | 0,000637 | -0,001  | 0,0449  | 63,7038 | 44-3 | 0,12401 |
| 44 | 1,6241 | A inkl. lett trafikk | Combination | Max | -232,4 | 38,214   | 0,000637 | -0,001  | 0,0449  | 63,7038 | 44-3 | 0,12401 |
| 44 | 2,5001 | A inkl. lett trafikk | Combination | Max | -233,4 | 77,46    | 0,000637 | -0,001  | 0,0459  | 26,9067 | 44-3 | 1,00005 |

|    |        |                      |             |     |        |          |         |          |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|---------|----------|---------|---------|------|---------|
| 44 | 2,5001 | A inkl. lett trafikk | Combination | Max | -206,1 | 88,954   | 0,035   | -0,001   | 0,0459  | 26,9067 | 44-4 | 0       |
| 44 | 3,2492 | A inkl. lett trafikk | Combination | Max | -206,9 | 151,242  | 0,035   | -0,001   | 0,023   | -38,96  | 44-4 | 0,74903 |
| 44 | 3,2492 | A inkl. lett trafikk | Combination | Max | -206,9 | 151,242  | 0,035   | -0,001   | 0,023   | -38,96  | 44-4 | 0,74903 |
| 44 | 3,2502 | A inkl. lett trafikk | Combination | Max | -206,9 | 151,286  | 0,035   | -0,001   | 0,023   | -39,033 | 44-4 | 0,75003 |
| 44 | 0      | A inkl. lett trafikk | Combination | Min | -797   | -147,95  | -12,149 | -0,0035  | -4,2946 | -56,436 | 44-1 | 0       |
| 44 | 0,5    | A inkl. lett trafikk | Combination | Min | -797,6 | -125,549 | -12,149 | -0,0035  | 0,9151  | -7,3265 | 44-1 | 0,50002 |
| 44 | 0,5    | A inkl. lett trafikk | Combination | Min | -755,9 | -97,965  | 0,906   | -0,0035  | 0,9151  | -7,3265 | 44-2 | 0       |
| 44 | 1,5001 | A inkl. lett trafikk | Combination | Min | -756,6 | -41,802  | 0,906   | -0,0035  | -0,0267 | 21,1553 | 44-2 | 1,00005 |
| 44 | 1,5001 | A inkl. lett trafikk | Combination | Min | -719,8 | -12,809  | -0,041  | -0,0035  | -0,0267 | 21,1553 | 44-3 | 0       |
| 44 | 1,6241 | A inkl. lett trafikk | Combination | Min | -719,8 | 0,783    | -0,041  | -0,0035  | -0,0218 | 20,7218 | 44-3 | 0,12401 |
| 44 | 1,6241 | A inkl. lett trafikk | Combination | Min | -719,8 | 0,783    | -0,041  | -0,0035  | -0,0218 | 20,7218 | 44-3 | 0,12401 |
| 44 | 2,5001 | A inkl. lett trafikk | Combination | Min | -720,8 | 40,029   | -0,041  | -0,0035  | -0,0011 | -3,1679 | 44-3 | 1,00005 |
| 44 | 2,5001 | A inkl. lett trafikk | Combination | Min | -688,2 | 39,942   | 0,018   | -0,0035  | -0,0011 | -3,1679 | 44-4 | 0       |
| 44 | 3,2492 | A inkl. lett trafikk | Combination | Min | -688,9 | 73,499   | 0,018   | -0,0035  | -0,0195 | -74,557 | 44-4 | 0,74903 |
| 44 | 3,2492 | A inkl. lett trafikk | Combination | Min | -688,9 | 73,499   | 0,018   | -0,0035  | -0,0195 | -74,557 | 44-4 | 0,74903 |
| 44 | 3,2502 | A inkl. lett trafikk | Combination | Min | -688,9 | 73,543   | 0,018   | -0,0035  | -0,0195 | -74,691 | 44-4 | 0,75003 |
| 45 | 0      | A inkl. lett trafikk | Combination | Max | -732,4 | -76,302  | 0,035   | 0,00097  | 0,0219  | -40,994 | 45-1 | 0       |
| 45 | 0,25   | A inkl. lett trafikk | Combination | Max | -732,7 | -65,102  | 0,035   | 0,00097  | 0,0142  | -23,002 | 45-1 | 0,25001 |
| 45 | 0,25   | A inkl. lett trafikk | Combination | Max | -708,1 | -65,448  | 0,109   | 0,00097  | 0,0142  | -23,002 | 45-2 | 0       |
| 45 | 1,2501 | A inkl. lett trafikk | Combination | Max | -709,2 | -20,648  | 0,109   | 0,00097  | -0,0601 | 59,5379 | 45-2 | 1,00004 |
| 45 | 1,2501 | A inkl. lett trafikk | Combination | Max | -688,8 | -20,648  | -0,17   | 0,00097  | -0,0601 | 59,5379 | 45-3 | 0       |
| 45 | 1,6241 | A inkl. lett trafikk | Combination | Max | -689,3 | 13,221   | -0,17   | 0,00097  | 0,0184  | 58,1002 | 45-3 | 0,37401 |
| 45 | 1,6241 | A inkl. lett trafikk | Combination | Max | -689,3 | 13,221   | -0,17   | 0,00097  | 0,0184  | 58,1002 | 45-3 | 0,37401 |
| 45 | 2,2501 | A inkl. lett trafikk | Combination | Max | -690   | 41,266   | -0,17   | 0,00097  | 0,2409  | 56,8801 | 45-3 | 1,00004 |
| 45 | 2,2501 | A inkl. lett trafikk | Combination | Max | -674,2 | 52,887   | 1,045   | 0,00097  | 0,2409  | 56,8801 | 45-4 | 0       |
| 45 | 3,2491 | A inkl. lett trafikk | Combination | Max | -675,4 | 126,693  | 1,045   | 0,00097  | -0,4371 | -20,826 | 45-4 | 0,99904 |
| 45 | 3,2491 | A inkl. lett trafikk | Combination | Max | -675,4 | 126,693  | 1,045   | 0,00097  | -0,4371 | -20,826 | 45-4 | 0,99904 |
| 45 | 3,2501 | A inkl. lett trafikk | Combination | Max | -675,4 | 126,738  | 1,045   | 0,00097  | -0,4376 | -20,891 | 45-4 | 1,00004 |
| 45 | 0      | A inkl. lett trafikk | Combination | Min | -1286  | -171,602 | 0,018   | -0,00039 | -0,021  | -78,658 | 45-1 | 0       |
| 45 | 0,25   | A inkl. lett trafikk | Combination | Min | -1286  | -160,402 | 0,018   | -0,00039 | -0,0277 | -44,139 | 45-1 | 0,25001 |
| 45 | 0,25   | A inkl. lett trafikk | Combination | Min | -1250  | -134,158 | 0,063   | -0,00039 | -0,0277 | -44,139 | 45-2 | 0       |
| 45 | 1,2501 | A inkl. lett trafikk | Combination | Min | -1251  | -77,996  | 0,063   | -0,00039 | -0,1237 | 15,8478 | 45-2 | 1,00004 |
| 45 | 1,2501 | A inkl. lett trafikk | Combination | Min | -1224  | -48,685  | -0,355  | -0,00039 | -0,1237 | 15,8478 | 45-3 | 0       |



|    |        |                      |             |     |        |          |          |          |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|----------|----------|---------|---------|------|---------|
| 45 | 1,6241 | A inkl. lett trafikk | Combination | Min | -1224  | -20,568  | -0,355   | -0,00039 | -0,0463 | 22,4196 | 45-3 | 0,37401 |
| 45 | 1,6241 | A inkl. lett trafikk | Combination | Min | -1224  | -20,568  | -0,355   | -0,00039 | -0,0463 | 22,4196 | 45-3 | 0,37401 |
| 45 | 2,2501 | A inkl. lett trafikk | Combination | Min | -1225  | 7,477    | -0,355   | -0,00039 | 0,0622  | 16,7835 | 45-3 | 1,00004 |
| 45 | 2,2501 | A inkl. lett trafikk | Combination | Min | -1206  | 18,852   | 0,544    | -0,00039 | 0,0622  | 16,7835 | 45-4 | 0       |
| 45 | 3,2491 | A inkl. lett trafikk | Combination | Min | -1207  | 63,607   | 0,544    | -0,00039 | -0,8032 | -46,962 | 45-4 | 0,99904 |
| 45 | 3,2491 | A inkl. lett trafikk | Combination | Min | -1207  | 63,607   | 0,544    | -0,00039 | -0,8032 | -46,962 | 45-4 | 0,99904 |
| 45 | 3,2501 | A inkl. lett trafikk | Combination | Min | -1207  | 63,652   | 0,544    | -0,00039 | -0,8042 | -47,088 | 45-4 | 1,00004 |
| 46 | 0      | A inkl. lett trafikk | Combination | Max | -665,6 | -64,682  | -0,552   | 0,0011   | -0,5532 | -22,013 | 46-1 | 0       |
| 46 | 1      | A inkl. lett trafikk | Combination | Max | -666,8 | -19,883  | -0,552   | 0,0011   | 0,1171  | 57,8561 | 46-1 | 1,00003 |
| 46 | 1      | A inkl. lett trafikk | Combination | Max | -659,9 | -19,883  | 0,387    | 0,0011   | 0,1171  | 57,8561 | 46-2 | 0       |
| 46 | 1,624  | A inkl. lett trafikk | Combination | Max | -660,6 | 19,122   | 0,387    | 0,0011   | -0,119  | 59,7339 | 46-2 | 0,62402 |
| 46 | 1,624  | A inkl. lett trafikk | Combination | Max | -660,6 | 19,122   | 0,387    | 0,0011   | -0,119  | 59,7339 | 46-2 | 0,62402 |
| 46 | 2,0001 | A inkl. lett trafikk | Combination | Max | -661,1 | 35,966   | 0,387    | 0,0011   | -0,1951 | 62,0737 | 46-2 | 1,00003 |
| 46 | 2,0001 | A inkl. lett trafikk | Combination | Max | -658,6 | 47,587   | -0,057   | 0,0011   | -0,1951 | 62,0737 | 46-3 | 0       |
| 46 | 3,0001 | A inkl. lett trafikk | Combination | Max | -659,8 | 121,459  | -0,057   | 0,0011   | -0,1229 | -19,551 | 46-3 | 1,00003 |
| 46 | 3,0001 | A inkl. lett trafikk | Combination | Max | -661,6 | 131,99   | 0,019    | 0,0011   | -0,1229 | -19,551 | 46-4 | 0       |
| 46 | 3,2491 | A inkl. lett trafikk | Combination | Max | -661,9 | 169,527  | 0,019    | 0,0011   | -0,1224 | -37,001 | 46-4 | 0,24901 |
| 46 | 3,2491 | A inkl. lett trafikk | Combination | Max | -661,9 | 169,527  | 0,019    | 0,0011   | -0,1224 | -37,001 | 46-4 | 0,24901 |
| 46 | 3,2501 | A inkl. lett trafikk | Combination | Max | -661,9 | 169,572  | 0,019    | 0,0011   | -0,1224 | -37,076 | 46-4 | 0,25001 |
| 46 | 0      | A inkl. lett trafikk | Combination | Min | -1197  | -139,454 | -1,041   | -0,00047 | -0,9239 | -47,954 | 46-1 | 0       |
| 46 | 1      | A inkl. lett trafikk | Combination | Min | -1198  | -83,294  | -1,041   | -0,00047 | -0,053  | 17,2151 | 46-1 | 1,00003 |
| 46 | 1      | A inkl. lett trafikk | Combination | Min | -1194  | -53,961  | 0,192    | -0,00047 | -0,053  | 17,2151 | 46-2 | 0       |
| 46 | 1,624  | A inkl. lett trafikk | Combination | Min | -1195  | -14,645  | 0,192    | -0,00047 | -0,1794 | 23,9564 | 46-2 | 0,62402 |
| 46 | 1,624  | A inkl. lett trafikk | Combination | Min | -1195  | -14,645  | 0,192    | -0,00047 | -0,1794 | 23,9564 | 46-2 | 0,62402 |
| 46 | 2,0001 | A inkl. lett trafikk | Combination | Min | -1195  | 2,199    | 0,192    | -0,00047 | -0,2761 | 17,755  | 46-2 | 1,00003 |
| 46 | 2,0001 | A inkl. lett trafikk | Combination | Min | -1199  | 18,838   | -0,108   | -0,00047 | -0,2761 | 17,755  | 46-3 | 0       |
| 46 | 3,0001 | A inkl. lett trafikk | Combination | Min | -1200  | 63,636   | -0,108   | -0,00047 | -0,1841 | -40,802 | 46-3 | 1,00003 |
| 46 | 3,0001 | A inkl. lett trafikk | Combination | Min | -1211  | 62,781   | -0,00708 | -0,00047 | -0,1841 | -40,802 | 46-4 | 0       |
| 46 | 3,2491 | A inkl. lett trafikk | Combination | Min | -1211  | 73,936   | -0,00708 | -0,00047 | -0,1869 | -73,587 | 46-4 | 0,24901 |
| 46 | 3,2491 | A inkl. lett trafikk | Combination | Min | -1211  | 73,936   | -0,00708 | -0,00047 | -0,1869 | -73,587 | 46-4 | 0,24901 |
| 46 | 3,2501 | A inkl. lett trafikk | Combination | Min | -1211  | 73,981   | -0,00708 | -0,00047 | -0,187  | -73,741 | 46-4 | 0,25001 |
| 47 | 0      | A inkl. lett trafikk | Combination | Max | -561,9 | -74,171  | 0,019    | 0,0016   | -0,1225 | -36,854 | 47-1 | 0       |
| 47 | 0,75   | A inkl. lett trafikk | Combination | Max | -562,8 | -40,575  | 0,019    | 0,0016   | -0,1212 | 30,1748 | 47-1 | 0,75001 |

|    |        |                      |             |     |        |          |          |         |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|----------|---------|---------|---------|------|---------|
| 47 | 0,75   | A inkl. lett trafikk | Combination | Max | -579,4 | -40,864  | 0,074    | 0,0016  | -0,1212 | 30,1748 | 47-2 | 0       |
| 47 | 1,624  | A inkl. lett trafikk | Combination | Max | -580,6 | -1,713   | 0,074    | 0,0016  | -0,1437 | 67,1923 | 47-2 | 0,87401 |
| 47 | 1,624  | A inkl. lett trafikk | Combination | Max | -580,6 | -1,713   | 0,074    | 0,0016  | -0,1437 | 67,1923 | 47-2 | 0,87401 |
| 47 | 1,75   | A inkl. lett trafikk | Combination | Max | -580,7 | 3,931    | 0,074    | 0,0016  | -0,1469 | 71,7511 | 47-2 | 1,00001 |
| 47 | 1,75   | A inkl. lett trafikk | Combination | Max | -601,1 | 12,509   | -0,959   | 0,0016  | -0,1469 | 71,7511 | 47-3 | 0       |
| 47 | 2,75   | A inkl. lett trafikk | Combination | Max | -602,4 | 85,9     | -0,959   | 0,0016  | 1,5724  | 21,8576 | 47-3 | 1,00001 |
| 47 | 2,75   | A inkl. lett trafikk | Combination | Max | -626,9 | 97,126   | 12,929   | 0,0016  | 1,5724  | 21,8576 | 47-4 | 0       |
| 47 | 3,2491 | A inkl. lett trafikk | Combination | Max | -627,5 | 147,365  | 12,929   | 0,0016  | -2,5216 | -21,87  | 47-4 | 0,49901 |
| 47 | 3,2491 | A inkl. lett trafikk | Combination | Max | -627,5 | 147,365  | 12,929   | 0,0016  | -2,5216 | -21,87  | 47-4 | 0,49901 |
| 47 | 3,2501 | A inkl. lett trafikk | Combination | Max | -627,5 | 147,409  | 12,929   | 0,0016  | -2,5283 | -21,934 | 47-4 | 0,50001 |
| 47 | 0      | A inkl. lett trafikk | Combination | Min | -1097  | -151,603 | -0,00708 | 9,2E-06 | -0,187  | -72,104 | 47-1 | 0       |
| 47 | 0,75   | A inkl. lett trafikk | Combination | Min | -1098  | -118,007 | -0,00708 | 9,2E-06 | -0,1956 | 0,1027  | 47-1 | 0,75001 |
| 47 | 0,75   | A inkl. lett trafikk | Combination | Min | -1109  | -89,515  | 0,018    | 9,2E-06 | -0,1956 | 0,1027  | 47-2 | 0       |
| 47 | 1,624  | A inkl. lett trafikk | Combination | Min | -1110  | -39,002  | 0,018    | 9,2E-06 | -0,2491 | 24,1701 | 47-2 | 0,87401 |
| 47 | 1,624  | A inkl. lett trafikk | Combination | Min | -1110  | -39,002  | 0,018    | 9,2E-06 | -0,2491 | 24,1701 | 47-2 | 0,87401 |
| 47 | 1,75   | A inkl. lett trafikk | Combination | Min | -1110  | -33,358  | 0,018    | 9,2E-06 | -0,2579 | 24,4636 | 47-2 | 1,00001 |
| 47 | 1,75   | A inkl. lett trafikk | Combination | Min | -1128  | -5,213   | -1,83    | 9,2E-06 | -0,2579 | 24,4636 | 47-3 | 0       |
| 47 | 2,75   | A inkl. lett trafikk | Combination | Min | -1129  | 42,478   | -1,83    | 9,2E-06 | 0,7931  | -2,3359 | 47-3 | 1,00001 |
| 47 | 2,75   | A inkl. lett trafikk | Combination | Min | -1154  | 42,143   | 6,672    | 9,2E-06 | 0,7931  | -2,3359 | 47-4 | 0       |
| 47 | 3,2491 | A inkl. lett trafikk | Combination | Min | -1155  | 64,496   | 6,672    | 9,2E-06 | -4,8792 | -50,978 | 47-4 | 0,49901 |
| 47 | 3,2491 | A inkl. lett trafikk | Combination | Min | -1155  | 64,496   | 6,672    | 9,2E-06 | -4,8792 | -50,978 | 47-4 | 0,49901 |
| 47 | 3,2501 | A inkl. lett trafikk | Combination | Min | -1155  | 64,541   | 6,672    | 9,2E-06 | -4,8922 | -51,109 | 47-4 | 0,50001 |
| 48 | 0      | A inkl. lett trafikk | Combination | Max | -627,4 | -62,315  | -6,646   | -0,0023 | -2,5932 | -20,266 | 48-1 | 0       |
| 48 | 0,5    | A inkl. lett trafikk | Combination | Max | -628,1 | -39,919  | -6,646   | -0,0023 | 1,5021  | 21,7603 | 48-1 | 0,5     |
| 48 | 0,5    | A inkl. lett trafikk | Combination | Max | -656,8 | -40,205  | 1,775    | -0,0023 | 1,5021  | 21,7603 | 48-2 | 0       |
| 48 | 1      | A inkl. lett trafikk | Combination | Max | -657,5 | -17,809  | 1,775    | -0,0023 | 0,6148  | 44,0141 | 48-2 | 0,5     |
| 48 | 1,5    | A inkl. lett trafikk | Combination | Max | -658,2 | 4,588    | 1,775    | -0,0023 | -0,1829 | 68,4439 | 48-2 | 1,00001 |
| 48 | 1,5    | A inkl. lett trafikk | Combination | Max | -691,5 | 8,809    | -0,058   | -0,0023 | -0,1829 | 68,4439 | 48-3 | 0       |
| 48 | 1,624  | A inkl. lett trafikk | Combination | Max | -691,7 | 42,357   | -0,058   | -0,0023 | -0,1736 | 63,9097 | 48-3 | 0,124   |
| 48 | 1,624  | A inkl. lett trafikk | Combination | Max | -691,7 | 42,357   | -0,058   | -0,0023 | -0,1736 | 63,9097 | 48-3 | 0,124   |
| 48 | 2,062  | A inkl. lett trafikk | Combination | Max | -692,3 | 61,976   | -0,058   | -0,0023 | -0,1406 | 41,0606 | 48-3 | 0,562   |
| 48 | 2,5    | A inkl. lett trafikk | Combination | Max | -692,8 | 81,595   | -0,058   | -0,0023 | -0,1077 | 23,7418 | 48-3 | 1,00001 |
| 48 | 2,5    | A inkl. lett trafikk | Combination | Max | -731   | 92,949   | -0,023   | -0,0023 | -0,1077 | 23,7418 | 48-4 | 0       |



|    |        |                      |             |     |        |          |         |         |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|---------|---------|---------|---------|------|---------|
| 48 | 2,8745 | A inkl. lett trafikk | Combination | Max | -731,5 | 138,194  | -0,023  | -0,0023 | -0,0927 | -17,784 | 48-4 | 0,3745  |
| 48 | 3,249  | A inkl. lett trafikk | Combination | Max | -732   | 154,969  | -0,023  | -0,0023 | -0,0777 | -44,142 | 48-4 | 0,74901 |
| 48 | 3,249  | A inkl. lett trafikk | Combination | Max | -732   | 154,969  | -0,023  | -0,0023 | -0,0777 | -44,142 | 48-4 | 0,74901 |
| 48 | 3,25   | A inkl. lett trafikk | Combination | Max | -732   | 155,014  | -0,023  | -0,0023 | -0,0777 | -44,221 | 48-4 | 0,75001 |
| 48 | 0      | A inkl. lett trafikk | Combination | Min | -1155  | -144,074 | -12,901 | -0,0044 | -4,9532 | -49,723 | 48-1 | 0       |
| 48 | 0,5    | A inkl. lett trafikk | Combination | Min | -1156  | -121,678 | -12,901 | -0,0044 | 0,7123  | -2,5374 | 48-1 | 0,5     |
| 48 | 0,5    | A inkl. lett trafikk | Combination | Min | -1188  | -93,816  | 0,916   | -0,0044 | 0,7123  | -2,5374 | 48-2 | 0       |
| 48 | 1      | A inkl. lett trafikk | Combination | Min | -1189  | -60,058  | 0,916   | -0,0044 | 0,2285  | 15,5239 | 48-2 | 0,5     |
| 48 | 1,5    | A inkl. lett trafikk | Combination | Min | -1189  | -37,661  | 0,916   | -0,0044 | -0,2763 | 21,4967 | 48-2 | 1,00001 |
| 48 | 1,5    | A inkl. lett trafikk | Combination | Min | -1230  | -8,934   | -0,131  | -0,0044 | -0,2763 | 21,4967 | 48-3 | 0       |
| 48 | 1,624  | A inkl. lett trafikk | Combination | Min | -1230  | 4,807    | -0,131  | -0,0044 | -0,2617 | 21,234  | 48-3 | 0,124   |
| 48 | 1,624  | A inkl. lett trafikk | Combination | Min | -1230  | 4,807    | -0,131  | -0,0044 | -0,2617 | 21,234  | 48-3 | 0,124   |
| 48 | 2,062  | A inkl. lett trafikk | Combination | Min | -1230  | 24,426   | -0,131  | -0,0044 | -0,2104 | 12,4951 | 48-3 | 0,562   |
| 48 | 2,5    | A inkl. lett trafikk | Combination | Min | -1231  | 44,046   | -0,131  | -0,0044 | -0,1728 | -4,8371 | 48-3 | 1,00001 |
| 48 | 2,5    | A inkl. lett trafikk | Combination | Min | -1279  | 43,809   | -0,066  | -0,0044 | -0,1728 | -4,8371 | 48-4 | 0       |
| 48 | 2,8745 | A inkl. lett trafikk | Combination | Min | -1280  | 60,584   | -0,066  | -0,0044 | -0,1552 | -37,88  | 48-4 | 0,3745  |
| 48 | 3,249  | A inkl. lett trafikk | Combination | Min | -1280  | 77,359   | -0,066  | -0,0044 | -0,1375 | -80,962 | 48-4 | 0,74901 |
| 48 | 3,249  | A inkl. lett trafikk | Combination | Min | -1280  | 77,359   | -0,066  | -0,0044 | -0,1375 | -80,962 | 48-4 | 0,74901 |
| 48 | 3,25   | A inkl. lett trafikk | Combination | Min | -1280  | 77,403   | -0,066  | -0,0044 | -0,1375 | -81,1   | 48-4 | 0,75001 |
| 49 | 0      | A inkl. lett trafikk | Combination | Max | -55,91 | -73,692  | -0,023  | -0,001  | -0,0759 | -41,234 | 49-1 | 0       |
| 49 | 0,25   | A inkl. lett trafikk | Combination | Max | -56,27 | -62,494  | -0,023  | -0,001  | -0,0658 | -24,211 | 49-1 | 0,25    |
| 49 | 0,25   | A inkl. lett trafikk | Combination | Max | -98,43 | -62,967  | 0,026   | -0,001  | -0,0658 | -24,211 | 49-2 | 0       |
| 49 | 0,75   | A inkl. lett trafikk | Combination | Max | -99,16 | -40,572  | 0,026   | -0,001  | -0,0724 | 13,1521 | 49-2 | 0,5     |
| 49 | 1,25   | A inkl. lett trafikk | Combination | Max | -99,88 | -18,178  | 0,026   | -0,001  | -0,079  | 56,4599 | 49-2 | 1       |
| 49 | 1,25   | A inkl. lett trafikk | Combination | Max | -142,7 | -18,178  | -0,211  | -0,001  | -0,079  | 56,4599 | 49-3 | 0       |
| 49 | 1,624  | A inkl. lett trafikk | Combination | Max | -143,2 | 15,797   | -0,211  | -0,001  | 0,0569  | 54,0579 | 49-3 | 0,374   |
| 49 | 1,624  | A inkl. lett trafikk | Combination | Max | -143,2 | 15,797   | -0,211  | -0,001  | 0,0569  | 54,0579 | 49-3 | 0,374   |
| 49 | 1,937  | A inkl. lett trafikk | Combination | Max | -143,7 | 29,816   | -0,211  | -0,001  | 0,1935  | 52,1693 | 49-3 | 0,687   |
| 49 | 2,25   | A inkl. lett trafikk | Combination | Max | -144,2 | 43,836   | -0,211  | -0,001  | 0,3301  | 51,1457 | 49-3 | 1       |
| 49 | 2,25   | A inkl. lett trafikk | Combination | Max | -188   | 55,458   | 0,971   | -0,001  | 0,3301  | 51,1457 | 49-4 | 0       |
| 49 | 2,7495 | A inkl. lett trafikk | Combination | Max | -188,8 | 107,116  | 0,971   | -0,001  | -0,0856 | 3,6021  | 49-4 | 0,4995  |
| 49 | 3,249  | A inkl. lett trafikk | Combination | Max | -189,5 | 129,489  | 0,971   | -0,001  | -0,3393 | -27,508 | 49-4 | 0,999   |
| 49 | 3,249  | A inkl. lett trafikk | Combination | Max | -189,5 | 129,489  | 0,971   | -0,001  | -0,3393 | -27,508 | 49-4 | 0,999   |

|    |        |                      |             |     |        |          |          |          |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|----------|----------|---------|---------|------|---------|
| 49 | 3,25   | A inkl. lett trafikk | Combination | Max | -189,5 | 129,534  | 0,971    | -0,001   | -0,3398 | -27,575 | 49-4 | 1       |
| 49 | 0      | A inkl. lett trafikk | Combination | Min | -513,2 | -168,843 | -0,066   | -0,0019  | -0,1358 | -78,406 | 49-1 | 0       |
| 49 | 0,25   | A inkl. lett trafikk | Combination | Min | -513,5 | -157,646 | -0,066   | -0,0019  | -0,1241 | -45,533 | 49-1 | 0,25    |
| 49 | 0,25   | A inkl. lett trafikk | Combination | Min | -560,3 | -131,57  | 0,001003 | -0,0019  | -0,1241 | -45,533 | 49-2 | 0       |
| 49 | 0,75   | A inkl. lett trafikk | Combination | Min | -561   | -97,813  | 0,001003 | -0,0019  | -0,1314 | -5,604  | 49-2 | 0,5     |
| 49 | 1,25   | A inkl. lett trafikk | Combination | Min | -561,7 | -75,418  | 0,001003 | -0,0019  | -0,1416 | 12,4003 | 49-2 | 1       |
| 49 | 1,25   | A inkl. lett trafikk | Combination | Min | -611,8 | -45,872  | -0,436   | -0,0019  | -0,1416 | 12,4003 | 49-3 | 0       |
| 49 | 1,624  | A inkl. lett trafikk | Combination | Min | -612,3 | -17,758  | -0,436   | -0,0019  | -0,0627 | 18,4905 | 49-3 | 0,374   |
| 49 | 1,624  | A inkl. lett trafikk | Combination | Min | -612,3 | -17,758  | -0,436   | -0,0019  | -0,0627 | 18,4905 | 49-3 | 0,374   |
| 49 | 1,937  | A inkl. lett trafikk | Combination | Min | -612,8 | -3,739   | -0,436   | -0,0019  | 0,0033  | 18,2797 | 49-3 | 0,687   |
| 49 | 2,25   | A inkl. lett trafikk | Combination | Min | -613,2 | 10,28    | -0,436   | -0,0019  | 0,0694  | 12,144  | 49-3 | 1       |
| 49 | 2,25   | A inkl. lett trafikk | Combination | Min | -667,1 | 20,13    | 0,471    | -0,0019  | 0,0694  | 12,144  | 49-4 | 0       |
| 49 | 2,7495 | A inkl. lett trafikk | Combination | Min | -667,8 | 42,502   | 0,471    | -0,0019  | -0,1846 | -11,691 | 49-4 | 0,4995  |
| 49 | 3,249  | A inkl. lett trafikk | Combination | Min | -668,6 | 64,875   | 0,471    | -0,0019  | -0,6397 | -55,49  | 49-4 | 0,999   |
| 49 | 3,249  | A inkl. lett trafikk | Combination | Min | -668,6 | 64,875   | 0,471    | -0,0019  | -0,6397 | -55,49  | 49-4 | 0,999   |
| 49 | 3,25   | A inkl. lett trafikk | Combination | Min | -668,6 | 64,92    | 0,471    | -0,0019  | -0,6407 | -55,62  | 49-4 | 1       |
| 50 | 0      | A inkl. lett trafikk | Combination | Max | 906,61 | -54,138  | -5,971   | 3,5E-05  | -1,9112 | -22,883 | 50-1 | 0       |
| 50 | 0,2501 | A inkl. lett trafikk | Combination | Max | 906,51 | -42,932  | -5,971   | 3,5E-05  | -0,062  | -5,2498 | 50-1 | 0,25008 |
| 50 | 0,2501 | A inkl. lett trafikk | Combination | Max | 887,81 | -42,905  | 0,142    | 3,5E-05  | -0,062  | -5,2498 | 50-2 | 0       |
| 50 | 1,2504 | A inkl. lett trafikk | Combination | Max | 887,37 | 1,92     | 0,142    | 3,5E-05  | -0,1663 | 46,3397 | 50-2 | 1,0003  |
| 50 | 1,2504 | A inkl. lett trafikk | Combination | Max | 874,94 | 3,09     | -0,546   | 3,5E-05  | -0,1663 | 46,3397 | 50-3 | 0       |
| 50 | 1,4379 | A inkl. lett trafikk | Combination | Max | 874,86 | 41,624   | -0,546   | 3,5E-05  | -0,0547 | 39,6947 | 50-3 | 0,18756 |
| 50 | 2,2507 | A inkl. lett trafikk | Combination | Max | 874,5  | 78,044   | -0,546   | 3,5E-05  | 0,5184  | 4,3449  | 50-3 | 1,0003  |
| 50 | 2,2507 | A inkl. lett trafikk | Combination | Max | 868,15 | 89,63    | -0,573   | 3,5E-05  | 0,5184  | 4,3449  | 50-4 | 0       |
| 50 | 2,8749 | A inkl. lett trafikk | Combination | Max | 867,88 | 148,241  | -0,573   | 3,5E-05  | 1,0131  | -45,781 | 50-4 | 0,62419 |
| 50 | 2,8749 | A inkl. lett trafikk | Combination | Max | 867,88 | 148,241  | -0,573   | 3,5E-05  | 1,0131  | -45,781 | 50-4 | 0,62419 |
| 50 | 2,8759 | A inkl. lett trafikk | Combination | Max | 867,88 | 148,285  | -0,573   | 3,5E-05  | 1,0139  | -45,853 | 50-4 | 0,62519 |
| 50 | 0      | A inkl. lett trafikk | Combination | Min | 527,09 | -138,993 | -14,114  | -0,00076 | -3,5914 | -46,027 | 50-1 | 0       |
| 50 | 0,2501 | A inkl. lett trafikk | Combination | Min | 526,98 | -127,787 | -14,114  | -0,00076 | -0,6151 | -21,737 | 50-1 | 0,25008 |
| 50 | 0,2501 | A inkl. lett trafikk | Combination | Min | 485,52 | -97,406  | -0,359   | -0,00076 | -0,6151 | -21,737 | 50-2 | 0       |
| 50 | 1,2504 | A inkl. lett trafikk | Combination | Min | 485,37 | -41,222  | -0,359   | -0,00076 | -0,2612 | 7,9916  | 50-2 | 1,0003  |
| 50 | 1,2504 | A inkl. lett trafikk | Combination | Min | 447,18 | -10,32   | -0,77    | -0,00076 | -0,2612 | 7,9916  | 50-3 | 0       |
| 50 | 1,4379 | A inkl. lett trafikk | Combination | Min | 447,38 | 5,914    | -0,77    | -0,00076 | -0,1249 | 7,5196  | 50-3 | 0,18756 |



|    |        |                      |             |     |        |          |        |          |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|--------|----------|---------|---------|------|---------|
| 50 | 2,2507 | A inkl. lett trafikk | Combination | Min | 447,03 | 42,334   | -0,77  | -0,00076 | 0,3716  | -15,672 | 50-3 | 1,0003  |
| 50 | 2,2507 | A inkl. lett trafikk | Combination | Min | 412,06 | 42,311   | -0,794 | -0,00076 | 0,3716  | -15,672 | 50-4 | 0       |
| 50 | 2,8749 | A inkl. lett trafikk | Combination | Min | 412,07 | 70,282   | -0,794 | -0,00076 | 0,729   | -80,587 | 50-4 | 0,62419 |
| 50 | 2,8749 | A inkl. lett trafikk | Combination | Min | 412,07 | 70,282   | -0,794 | -0,00076 | 0,729   | -80,587 | 50-4 | 0,62419 |
| 50 | 2,8759 | A inkl. lett trafikk | Combination | Min | 412,07 | 70,326   | -0,794 | -0,00076 | 0,7295  | -80,716 | 50-4 | 0,62519 |
| 51 | 0      | A inkl. lett trafikk | Combination | Max | 2507   | -51,674  | -0,571 | -0,0107  | 0,9992  | -37,913 | 51-1 | 0       |
| 51 | 0,3751 | A inkl. lett trafikk | Combination | Max | 2506,8 | -34,434  | -0,571 | -0,0107  | 1,2964  | -15,784 | 51-1 | 0,37512 |
| 51 | 0,3751 | A inkl. lett trafikk | Combination | Max | 2469,5 | -34,55   | -0,559 | -0,0107  | 1,2964  | -15,784 | 51-2 | 0       |
| 51 | 1,3755 | A inkl. lett trafikk | Combination | Max | 2469,1 | 11,424   | -0,559 | -0,0107  | 2,1035  | 28,8437 | 51-2 | 1,00033 |
| 51 | 1,3755 | A inkl. lett trafikk | Combination | Max | 2440,1 | 11,424   | -0,467 | -0,0107  | 2,1035  | 28,8437 | 51-3 | 0       |
| 51 | 1,438  | A inkl. lett trafikk | Combination | Max | 2440,1 | 43,54    | -0,467 | -0,0107  | 2,1822  | 26,585  | 51-3 | 0,06252 |
| 51 | 2,3758 | A inkl. lett trafikk | Combination | Max | 2439,8 | 86,64    | -0,467 | -0,0107  | 3,3622  | -21,827 | 51-3 | 1,00033 |
| 51 | 2,3758 | A inkl. lett trafikk | Combination | Max | 2419,1 | 98,893   | 3,18   | -0,0107  | 3,3622  | -21,827 | 51-4 | 0       |
| 51 | 2,875  | A inkl. lett trafikk | Combination | Max | 2418,9 | 152,043  | 3,18   | -0,0107  | 3,2215  | -63,152 | 51-4 | 0,49916 |
| 51 | 2,875  | A inkl. lett trafikk | Combination | Max | 2418,9 | 152,043  | 3,18   | -0,0107  | 3,2215  | -63,152 | 51-4 | 0,49916 |
| 51 | 2,876  | A inkl. lett trafikk | Combination | Max | 2418,9 | 152,089  | 3,18   | -0,0107  | 3,2235  | -63,227 | 51-4 | 0,50016 |
| 51 | 0      | A inkl. lett trafikk | Combination | Min | 1938,2 | -138,182 | -0,794 | -0,0185  | 0,7145  | -69,694 | 51-1 | 0       |
| 51 | 0,3751 | A inkl. lett trafikk | Combination | Min | 1938,1 | -120,942 | -0,794 | -0,0185  | 0,9286  | -35,7   | 51-1 | 0,37512 |
| 51 | 0,3751 | A inkl. lett trafikk | Combination | Min | 1919,7 | -91,105  | -0,81  | -0,0185  | 0,9286  | -35,7   | 51-2 | 0       |
| 51 | 1,3755 | A inkl. lett trafikk | Combination | Min | 1919,4 | -33,773  | -0,81  | -0,0185  | 1,4873  | -11,037 | 51-2 | 1,00033 |
| 51 | 1,3755 | A inkl. lett trafikk | Combination | Min | 1907,5 | -3,305   | -1,258 | -0,0185  | 1,4873  | -11,037 | 51-3 | 0       |
| 51 | 1,438  | A inkl. lett trafikk | Combination | Min | 1907,5 | 7,415    | -1,258 | -0,0185  | 1,5233  | -11,626 | 51-3 | 0,06252 |
| 51 | 2,3758 | A inkl. lett trafikk | Combination | Min | 1907,2 | 50,516   | -1,258 | -0,0185  | 2,0634  | -46,582 | 51-3 | 1,00033 |
| 51 | 2,3758 | A inkl. lett trafikk | Combination | Min | 1901,8 | 51,177   | -1,983 | -0,0185  | 2,0634  | -46,582 | 51-4 | 0       |
| 51 | 2,875  | A inkl. lett trafikk | Combination | Min | 1901,6 | 74,118   | -1,983 | -0,0185  | 1,7723  | -97,636 | 51-4 | 0,49916 |
| 51 | 2,875  | A inkl. lett trafikk | Combination | Min | 1901,6 | 74,118   | -1,983 | -0,0185  | 1,7723  | -97,636 | 51-4 | 0,49916 |
| 51 | 2,876  | A inkl. lett trafikk | Combination | Min | 1901,6 | 74,164   | -1,983 | -0,0185  | 1,7691  | -97,75  | 51-4 | 0,50016 |
| 52 | 0      | A inkl. lett trafikk | Combination | Max | -732,3 | -9,4E-17 | 1,98   | 0,0151   | 1,9788  | 0       | 52-1 | 0       |
| 52 | 2,0142 | A inkl. lett trafikk | Combination | Max | -730,8 | 0        | 0,451  | 0,0151   | 0,8191  | 9,4E-17 | 52-1 | 2,01421 |
| 52 | 4,0284 | A inkl. lett trafikk | Combination | Max | -729,2 | 9,36E-17 | -1,078 | 0,0151   | 4,6587  | 0       | 52-1 | 4,02842 |
| 52 | 0      | A inkl. lett trafikk | Combination | Min | -1216  | -9,4E-17 | 0,387  | 0,0132   | 0,0588  | 0       | 52-1 | 0       |
| 52 | 2,0142 | A inkl. lett trafikk | Combination | Min | -1215  | 0        | -1,142 | 0,0132   | -0,4691 | 9,4E-17 | 52-1 | 2,01421 |
| 52 | 4,0284 | A inkl. lett trafikk | Combination | Min | -1213  | 9,36E-17 | -2,671 | 0,0132   | 0,1622  | 0       | 52-1 | 4,02842 |

|    |        |                      |             |     |        |          |          |          |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|----------|----------|---------|---------|------|---------|
| 53 | 0      | A inkl. lett trafikk | Combination | Max | 922,59 | -0,987   | -0,00606 | -0,00076 | -0,0151 | 0       | 53-1 | 0       |
| 53 | 1,9997 | A inkl. lett trafikk | Combination | Max | 921,64 | -3E-17   | -0,00606 | -0,00076 | -0,003  | 0,9864  | 53-1 | 1,99966 |
| 53 | 3,9993 | A inkl. lett trafikk | Combination | Max | 920,69 | 0,987    | -0,00606 | -0,00076 | 0,0127  | -2E-17  | 53-1 | 3,99932 |
| 53 | 0      | A inkl. lett trafikk | Combination | Min | 516,08 | -0,987   | -0,0085  | -0,0012  | -0,0213 | 0       | 53-1 | 0       |
| 53 | 1,9997 | A inkl. lett trafikk | Combination | Min | 515,13 | -3E-17   | -0,0085  | -0,0012  | -0,0045 | 0,9864  | 53-1 | 1,99966 |
| 53 | 3,9993 | A inkl. lett trafikk | Combination | Min | 514,17 | 0,987    | -0,0085  | -0,0012  | 0,0092  | -2E-17  | 53-1 | 3,99932 |
| 54 | 0      | A inkl. lett trafikk | Combination | Max | -322,1 | -6E-17   | 0,789    | -0,0015  | -0,634  | 0       | 54-1 | 0       |
| 54 | 2,0503 | A inkl. lett trafikk | Combination | Max | -321,1 | 0        | -0,19    | -0,0015  | -0,6918 | 6,1E-17 | 54-1 | 2,05026 |
| 54 | 4,1005 | A inkl. lett trafikk | Combination | Max | -320,1 | 5,99E-17 | -1,169   | -0,0015  | 2,7216  | 0       | 54-1 | 4,10052 |
| 54 | 0      | A inkl. lett trafikk | Combination | Min | -660,3 | -6E-17   | -0,225   | -0,0025  | -2,2639 | 0       | 54-1 | 0       |
| 54 | 2,0503 | A inkl. lett trafikk | Combination | Min | -659,3 | 0        | -1,204   | -0,0025  | -1,4763 | 6,1E-17 | 54-1 | 2,05026 |
| 54 | 4,1005 | A inkl. lett trafikk | Combination | Min | -658,3 | 5,99E-17 | -2,183   | -0,0025  | -0,0268 | 0       | 54-1 | 4,10052 |
| 55 | 0      | A inkl. lett trafikk | Combination | Max | 386,85 | -4,2E-17 | 0,75     | 0,00066  | 0,2261  | 0       | 55-1 | 0       |
| 55 | 2,0355 | A inkl. lett trafikk | Combination | Max | 386,16 | 0        | 0,058    | 0,00066  | -0,596  | 4,3E-17 | 55-1 | 2,03548 |
| 55 | 4,071  | A inkl. lett trafikk | Combination | Max | 385,47 | 4,24E-17 | -0,634   | 0,00066  | 0,9811  | 0       | 55-1 | 4,07096 |
| 55 | 0      | A inkl. lett trafikk | Combination | Min | 118,03 | -4,2E-17 | -0,017   | 0,00036  | -1,9849 | 0       | 55-1 | 0       |
| 55 | 2,0355 | A inkl. lett trafikk | Combination | Min | 117,34 | 0        | -0,708   | 0,00036  | -1,2986 | 4,3E-17 | 55-1 | 2,03548 |
| 55 | 4,071  | A inkl. lett trafikk | Combination | Min | 116,65 | 4,24E-17 | -1,4     | 0,00036  | -0,1497 | 0       | 55-1 | 4,07096 |
| 56 | 0      | A inkl. lett trafikk | Combination | Max | 101,25 | -4,2E-17 | 1,088    | -0,00052 | 0,4482  | 0       | 56-1 | 0       |
| 56 | 2,087  | A inkl. lett trafikk | Combination | Max | 101,98 | 0        | 0,397    | -0,00052 | -0,6522 | 4,4E-17 | 56-1 | 2,08697 |
| 56 | 4,1739 | A inkl. lett trafikk | Combination | Max | 102,7  | 4,24E-17 | -0,295   | -0,00052 | 0,7771  | 0       | 56-1 | 4,17393 |
| 56 | 0      | A inkl. lett trafikk | Combination | Min | -148   | -4,2E-17 | 0,353    | -0,00082 | -0,7151 | 0       | 56-1 | 0       |
| 56 | 2,087  | A inkl. lett trafikk | Combination | Min | -147,2 | 0        | -0,339   | -0,00082 | -1,2792 | 4,4E-17 | 56-1 | 2,08697 |
| 56 | 4,1739 | A inkl. lett trafikk | Combination | Min | -146,5 | 4,24E-17 | -1,031   | -0,00082 | -1,3853 | 0       | 56-1 | 4,17393 |
| 57 | 0      | A inkl. lett trafikk | Combination | Max | -91,86 | -4,2E-17 | 1,284    | 0,00079  | 1,333   | 0       | 57-1 | 0       |
| 57 | 2,0719 | A inkl. lett trafikk | Combination | Max | -92,58 | 0        | 0,592    | 0,00079  | -0,5803 | 4,4E-17 | 57-1 | 2,0719  |
| 57 | 4,1438 | A inkl. lett trafikk | Combination | Max | -93,3  | 4,24E-17 | -0,1     | 0,00079  | 0,0287  | 0       | 57-1 | 4,1438  |
| 57 | 0      | A inkl. lett trafikk | Combination | Min | -351,4 | -4,2E-17 | 0,505    | 0,00054  | -0,7442 | 0       | 57-1 | 0       |
| 57 | 2,0719 | A inkl. lett trafikk | Combination | Min | -352,1 | 0        | -0,187   | 0,00054  | -1,2016 | 4,4E-17 | 57-1 | 2,0719  |
| 57 | 4,1438 | A inkl. lett trafikk | Combination | Min | -352,8 | 4,24E-17 | -0,878   | 0,00054  | -1,2257 | 0       | 57-1 | 4,1438  |
| 58 | 0      | A inkl. lett trafikk | Combination | Max | 589,6  | -4,2E-17 | 1,456    | 1,1E-05  | 1,3336  | 0       | 58-1 | 0       |
| 58 | 2,1238 | A inkl. lett trafikk | Combination | Max | 590,35 | 0        | 0,765    | 1,1E-05  | -0,5388 | 4,5E-17 | 58-1 | 2,12382 |
| 58 | 4,2477 | A inkl. lett trafikk | Combination | Max | 591,11 | 4,24E-17 | 0,073    | 1,1E-05  | 0,0231  | 0       | 58-1 | 4,24765 |



|    |        |                      |             |     |        |          |          |          |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|----------|----------|---------|---------|------|---------|
| 58 | 0      | A inkl. lett trafikk | Combination | Min | 302,98 | -4,2E-17 | 0,77     | -9,7E-05 | 0,2488  | 0       | 58-1 | 0       |
| 58 | 2,1238 | A inkl. lett trafikk | Combination | Min | 303,73 | 0        | 0,079    | -9,7E-05 | -1,173  | 4,5E-17 | 58-1 | 2,12382 |
| 58 | 4,2477 | A inkl. lett trafikk | Combination | Min | 304,49 | 4,24E-17 | -0,613   | -9,7E-05 | -2,0626 | 0       | 58-1 | 4,24765 |
| 59 | 0      | A inkl. lett trafikk | Combination | Max | -515,9 | -6,9E-17 | 2,468    | 0,0022   | 3,4274  | 0       | 59-1 | 0       |
| 59 | 2,1085 | A inkl. lett trafikk | Combination | Max | -517,1 | 0        | 1,343    | 0,0022   | -0,5517 | 7,3E-17 | 59-1 | 2,10852 |
| 59 | 4,217  | A inkl. lett trafikk | Combination | Max | -518,3 | 6,89E-17 | 0,217    | 0,0022   | -0,6197 | 0       | 59-1 | 4,21704 |
| 59 | 0      | A inkl. lett trafikk | Combination | Min | -828,1 | -6,9E-17 | 1,442    | 0,0019   | 0,5349  | 0       | 59-1 | 0       |
| 59 | 2,1085 | A inkl. lett trafikk | Combination | Min | -829,3 | 0        | 0,317    | 0,0019   | -1,3755 | 7,3E-17 | 59-1 | 2,10852 |
| 59 | 4,217  | A inkl. lett trafikk | Combination | Min | -830,5 | 6,89E-17 | -0,809   | 0,0019   | -2,2979 | 0       | 59-1 | 4,21704 |
| 60 | 0      | A inkl. lett trafikk | Combination | Max | 1055,5 | -1,182   | 0,003838 | 0,00027  | 0,0099  | 0       | 60-1 | 0       |
| 60 | 2,1616 | A inkl. lett trafikk | Combination | Max | 1056,8 | 1,79E-16 | 0,003838 | 0,00027  | 0,0018  | 1,2777  | 60-1 | 2,16164 |
| 60 | 4,3233 | A inkl. lett trafikk | Combination | Max | 1058,1 | 1,182    | 0,003838 | 0,00027  | -0,0059 | -9E-16  | 60-1 | 4,32328 |
| 60 | 0      | A inkl. lett trafikk | Combination | Min | 695,72 | -1,182   | 0,003312 | 0,00011  | 0,0082  | 0       | 60-1 | 0       |
| 60 | 2,1616 | A inkl. lett trafikk | Combination | Min | 697,05 | 1,79E-16 | 0,003312 | 0,00011  | 0,001   | 1,2777  | 60-1 | 2,16164 |
| 60 | 4,3233 | A inkl. lett trafikk | Combination | Min | 698,38 | 1,182    | 0,003312 | 0,00011  | -0,0072 | -9E-16  | 60-1 | 4,32328 |
| 61 | 0      | A inkl. lett trafikk | Combination | Max | -861,6 | -9,7E-17 | 4,098    | -0,0021  | 7,2952  | 0       | 61-1 | 0       |
| 61 | 2,1462 | A inkl. lett trafikk | Combination | Max | -863,4 | 0        | 2,509    | -0,0021  | 0,2927  | 1E-16   | 61-1 | 2,14615 |
| 61 | 4,2923 | A inkl. lett trafikk | Combination | Max | -865,2 | 9,74E-17 | 0,919    | -0,0021  | -0,9749 | 0       | 61-1 | 4,2923  |
| 61 | 0      | A inkl. lett trafikk | Combination | Min | -1270  | -9,7E-17 | 2,384    | -0,0031  | 2,1543  | 0       | 61-1 | 0       |
| 61 | 2,1462 | A inkl. lett trafikk | Combination | Min | -1272  | 0        | 0,794    | -0,0031  | -1,2555 | 1E-16   | 61-1 | 2,14615 |
| 61 | 4,2923 | A inkl. lett trafikk | Combination | Min | -1273  | 9,74E-17 | -0,796   | -0,0031  | -3,5332 | 0       | 61-1 | 4,2923  |
| 62 | 0      | A inkl. lett trafikk | Combination | Max | 1483,4 | -1,598   | 0,003022 | 0,0038   | -0,0084 | 0       | 62-1 | 0       |
| 62 | 2,1997 | A inkl. lett trafikk | Combination | Max | 1485,3 | -2,3E-16 | 0,003022 | 0,0038   | -0,0123 | 1,7571  | 62-1 | 2,19965 |
| 62 | 4,3993 | A inkl. lett trafikk | Combination | Max | 1487,1 | 1,598    | 0,003022 | 0,0038   | -0,0131 | 1E-15   | 62-1 | 4,3993  |
| 62 | 0      | A inkl. lett trafikk | Combination | Min | 1027,1 | -1,598   | 0,000267 | 0,0026   | -0,0121 | 0       | 62-1 | 0       |
| 62 | 2,1997 | A inkl. lett trafikk | Combination | Min | 1028,9 | -2,3E-16 | 0,000267 | 0,0026   | -0,0171 | 1,7571  | 62-1 | 2,19965 |
| 62 | 4,3993 | A inkl. lett trafikk | Combination | Min | 1030,8 | 1,598    | 0,000267 | 0,0026   | -0,0238 | 1E-15   | 62-1 | 4,3993  |
| 63 | 0      | A inkl. lett trafikk | Combination | Max | -1160  | -1,2E-16 | 3,886    | 0,0032   | 11,789  | 0       | 63-1 | 0       |
| 63 | 2,1839 | A inkl. lett trafikk | Combination | Max | -1162  | 0        | 1,92     | 0,0032   | 5,4486  | 1,3E-16 | 63-1 | 2,18391 |
| 63 | 4,3678 | A inkl. lett trafikk | Combination | Max | -1164  | 1,2E-16  | -0,045   | 0,0032   | 7,1696  | 0       | 63-1 | 4,36782 |
| 63 | 0      | A inkl. lett trafikk | Combination | Min | -1648  | -1,2E-16 | 1,304    | 0,0025   | 4,1115  | 0       | 63-1 | 0       |
| 63 | 2,1839 | A inkl. lett trafikk | Combination | Min | -1650  | 0        | -0,662   | 0,0025   | 3,2703  | 1,3E-16 | 63-1 | 2,18391 |
| 63 | 4,3678 | A inkl. lett trafikk | Combination | Min | -1653  | 1,2E-16  | -2,627   | 0,0025   | 3,4009  | 0       | 63-1 | 4,36782 |

|    |        |                      |             |     |        |        |          |         |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|--------|----------|---------|---------|---------|------|---------|
| 64 | 0      | A inkl. lett trafikk | Combination | Max | 595,2  | -4,096 | -0,054   | 0,0032  | -0,1681 | -6,5961 | 64-1 | 0       |
| 64 | 0,4792 | A inkl. lett trafikk | Combination | Max | 595,2  | -3,664 | -0,054   | 0,0032  | -0,1411 | -4,7368 | 64-1 | 0,47918 |
| 64 | 0,9584 | A inkl. lett trafikk | Combination | Max | 595,21 | -3,232 | -0,054   | 0,0032  | -0,114  | -3,0845 | 64-1 | 0,95836 |
| 64 | 1,4375 | A inkl. lett trafikk | Combination | Max | 595,21 | -2,8   | -0,054   | 0,0032  | -0,0788 | -1,6393 | 64-1 | 1,43754 |
| 64 | 1,9167 | A inkl. lett trafikk | Combination | Max | 595,21 | -2,368 | -0,054   | 0,0032  | -0,0436 | -0,4011 | 64-1 | 1,91672 |
| 64 | 2,3959 | A inkl. lett trafikk | Combination | Max | 595,22 | -1,936 | -0,054   | 0,0032  | -0,0084 | 0,7365  | 64-1 | 2,3959  |
| 64 | 2,8751 | A inkl. lett trafikk | Combination | Max | 595,22 | -1,504 | -0,054   | 0,0032  | 0,0268  | 2,1201  | 64-1 | 2,87508 |
| 64 | 3,3543 | A inkl. lett trafikk | Combination | Max | 595,22 | -1,072 | -0,054   | 0,0032  | 0,062   | 3,2966  | 64-1 | 3,35425 |
| 64 | 3,8334 | A inkl. lett trafikk | Combination | Max | 595,22 | -0,64  | -0,054   | 0,0032  | 0,0973  | 4,2661  | 64-1 | 3,83343 |
| 64 | 4,3126 | A inkl. lett trafikk | Combination | Max | 595,23 | -0,208 | -0,054   | 0,0032  | 0,1328  | 5,0291  | 64-1 | 4,31261 |
| 64 | 4,7918 | A inkl. lett trafikk | Combination | Max | 595,23 | 0,225  | -0,054   | 0,0032  | 0,1689  | 5,6029  | 64-1 | 4,79179 |
| 64 | 5,271  | A inkl. lett trafikk | Combination | Max | 595,23 | 0,657  | -0,054   | 0,0032  | 0,2049  | 5,9696  | 64-1 | 5,27097 |
| 64 | 5,7502 | A inkl. lett trafikk | Combination | Max | 595,24 | 1,089  | -0,054   | 0,0032  | 0,2413  | 6,1293  | 64-1 | 5,75015 |
| 64 | 0      | A inkl. lett trafikk | Combination | Min | 150,48 | -5,303 | -0,077   | 0,0028  | -0,2142 | -9,7182 | 64-1 | 0       |
| 64 | 0,4792 | A inkl. lett trafikk | Combination | Min | 150,49 | -4,871 | -0,077   | 0,0028  | -0,1808 | -7,2883 | 64-1 | 0,47918 |
| 64 | 0,9584 | A inkl. lett trafikk | Combination | Min | 150,49 | -4,439 | -0,077   | 0,0028  | -0,1475 | -5,0653 | 64-1 | 0,95836 |
| 64 | 1,4375 | A inkl. lett trafikk | Combination | Min | 150,49 | -4,007 | -0,077   | 0,0028  | -0,1177 | -3,0494 | 64-1 | 1,43754 |
| 64 | 1,9167 | A inkl. lett trafikk | Combination | Min | 150,5  | -3,574 | -0,077   | 0,0028  | -0,0879 | -1,4337 | 64-1 | 1,91672 |
| 64 | 2,3959 | A inkl. lett trafikk | Combination | Min | 150,5  | -3,142 | -0,077   | 0,0028  | -0,0609 | -0,3013 | 64-1 | 2,3959  |
| 64 | 2,8751 | A inkl. lett trafikk | Combination | Min | 150,5  | -2,71  | -0,077   | 0,0028  | -0,0351 | 0,6241  | 64-1 | 2,87508 |
| 64 | 3,3543 | A inkl. lett trafikk | Combination | Min | 150,5  | -2,278 | -0,077   | 0,0028  | -0,0093 | 1,3424  | 64-1 | 3,35425 |
| 64 | 3,8334 | A inkl. lett trafikk | Combination | Min | 150,51 | -1,846 | -0,077   | 0,0028  | 0,0166  | 1,8537  | 64-1 | 3,83343 |
| 64 | 4,3126 | A inkl. lett trafikk | Combination | Min | 150,51 | -1,414 | -0,077   | 0,0028  | 0,0424  | 2,158   | 64-1 | 4,31261 |
| 64 | 4,7918 | A inkl. lett trafikk | Combination | Min | 150,51 | -0,982 | -0,077   | 0,0028  | 0,0683  | 2,2552  | 64-1 | 4,79179 |
| 64 | 5,271  | A inkl. lett trafikk | Combination | Min | 150,52 | -0,55  | -0,077   | 0,0028  | 0,0941  | 2,1454  | 64-1 | 5,27097 |
| 64 | 5,7502 | A inkl. lett trafikk | Combination | Min | 150,52 | -0,118 | -0,077   | 0,0028  | 0,1199  | 1,8259  | 64-1 | 5,75015 |
| 65 | 0      | A inkl. lett trafikk | Combination | Max | 1670,3 | -4,579 | -0,00413 | -0,0019 | -0,0478 | 2,1779  | 65-1 | 0       |
| 65 | 0,4792 | A inkl. lett trafikk | Combination | Max | 1670,3 | -3,89  | -0,00413 | -0,0019 | -0,0458 | 4,3898  | 65-1 | 0,47918 |
| 65 | 0,9584 | A inkl. lett trafikk | Combination | Max | 1670,3 | -3,201 | -0,00413 | -0,0019 | -0,0438 | 6,3475  | 65-1 | 0,95836 |
| 65 | 1,4375 | A inkl. lett trafikk | Combination | Max | 1670,3 | -2,512 | -0,00413 | -0,0019 | -0,0419 | 8,0107  | 65-1 | 1,43754 |
| 65 | 1,9167 | A inkl. lett trafikk | Combination | Max | 1670,3 | -1,824 | -0,00413 | -0,0019 | -0,0399 | 9,344   | 65-1 | 1,91672 |
| 65 | 2,3959 | A inkl. lett trafikk | Combination | Max | 1670,3 | -1,135 | -0,00413 | -0,0019 | -0,0377 | 10,3472 | 65-1 | 2,3959  |
| 65 | 2,8751 | A inkl. lett trafikk | Combination | Max | 1670,3 | -0,446 | -0,00413 | -0,0019 | -0,0354 | 11,1486 | 65-1 | 2,87508 |



|    |        |                      |             |     |        |        |          |          |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|--------|----------|----------|---------|---------|------|---------|
| 65 | 3,3543 | A inkl. lett trafikk | Combination | Max | 1670,3 | 0,242  | -0,00413 | -0,0019  | -0,025  | 11,7113 | 65-1 | 3,35425 |
| 65 | 3,8334 | A inkl. lett trafikk | Combination | Max | 1670,3 | 0,931  | -0,00413 | -0,0019  | -0,0133 | 11,9439 | 65-1 | 3,83343 |
| 65 | 4,3126 | A inkl. lett trafikk | Combination | Max | 1670,3 | 1,62   | -0,00413 | -0,0019  | -0,0015 | 11,8465 | 65-1 | 4,31261 |
| 65 | 4,7918 | A inkl. lett trafikk | Combination | Max | 1670,3 | 2,308  | -0,00413 | -0,0019  | 0,0103  | 11,4191 | 65-1 | 4,79179 |
| 65 | 5,271  | A inkl. lett trafikk | Combination | Max | 1670,4 | 2,997  | -0,00413 | -0,0019  | 0,0221  | 10,6617 | 65-1 | 5,27097 |
| 65 | 5,7502 | A inkl. lett trafikk | Combination | Max | 1670,4 | 3,686  | -0,00413 | -0,0019  | 0,0338  | 9,5743  | 65-1 | 5,75015 |
| 65 | 0      | A inkl. lett trafikk | Combination | Min | 840,13 | -5,842 | -0,025   | -0,0031  | -0,1414 | -1,2238 | 65-1 | 0       |
| 65 | 0,4792 | A inkl. lett trafikk | Combination | Min | 840,13 | -5,153 | -0,025   | -0,0031  | -0,1334 | 1,0805  | 65-1 | 0,47918 |
| 65 | 0,9584 | A inkl. lett trafikk | Combination | Min | 840,14 | -4,464 | -0,025   | -0,0031  | -0,1254 | 2,9608  | 65-1 | 0,95836 |
| 65 | 1,4375 | A inkl. lett trafikk | Combination | Min | 840,14 | -3,776 | -0,025   | -0,0031  | -0,1176 | 4,5111  | 65-1 | 1,43754 |
| 65 | 1,9167 | A inkl. lett trafikk | Combination | Min | 840,15 | -3,087 | -0,025   | -0,0031  | -0,1099 | 5,7313  | 65-1 | 1,91672 |
| 65 | 2,3959 | A inkl. lett trafikk | Combination | Min | 840,15 | -2,398 | -0,025   | -0,0031  | -0,1022 | 6,6216  | 65-1 | 2,3959  |
| 65 | 2,8751 | A inkl. lett trafikk | Combination | Min | 840,16 | -1,71  | -0,025   | -0,0031  | -0,0945 | 7,1818  | 65-1 | 2,87508 |
| 65 | 3,3543 | A inkl. lett trafikk | Combination | Min | 840,16 | -1,021 | -0,025   | -0,0031  | -0,0904 | 7,412   | 65-1 | 3,35425 |
| 65 | 3,8334 | A inkl. lett trafikk | Combination | Min | 840,17 | -0,332 | -0,025   | -0,0031  | -0,0872 | 7,209   | 65-1 | 3,83343 |
| 65 | 4,3126 | A inkl. lett trafikk | Combination | Min | 840,17 | 0,356  | -0,025   | -0,0031  | -0,084  | 6,6735  | 65-1 | 4,31261 |
| 65 | 4,7918 | A inkl. lett trafikk | Combination | Min | 840,18 | 1,045  | -0,025   | -0,0031  | -0,0808 | 5,8081  | 65-1 | 4,79179 |
| 65 | 5,271  | A inkl. lett trafikk | Combination | Min | 840,18 | 1,734  | -0,025   | -0,0031  | -0,0775 | 4,6126  | 65-1 | 5,27097 |
| 65 | 5,7502 | A inkl. lett trafikk | Combination | Min | 840,19 | 2,423  | -0,025   | -0,0031  | -0,0743 | 3,0871  | 65-1 | 5,75015 |
| 66 | 0      | A inkl. lett trafikk | Combination | Max | 1924,3 | -3,583 | -0,062   | 0,00055  | -0,253  | 8,4075  | 66-1 | 0       |
| 66 | 0,4792 | A inkl. lett trafikk | Combination | Max | 1924,3 | -2,821 | -0,062   | 0,00055  | -0,2231 | 10,0269 | 66-1 | 0,47918 |
| 66 | 0,9584 | A inkl. lett trafikk | Combination | Max | 1924,3 | -2,059 | -0,062   | 0,00055  | -0,1932 | 11,2813 | 66-1 | 0,95836 |
| 66 | 1,4375 | A inkl. lett trafikk | Combination | Max | 1924,3 | -1,297 | -0,062   | 0,00055  | -0,1633 | 12,1793 | 66-1 | 1,43754 |
| 66 | 1,9167 | A inkl. lett trafikk | Combination | Max | 1924,3 | -0,535 | -0,062   | 0,00055  | -0,1334 | 12,7752 | 66-1 | 1,91672 |
| 66 | 2,3959 | A inkl. lett trafikk | Combination | Max | 1924,4 | 0,227  | -0,062   | 0,00055  | -0,0979 | 13,0291 | 66-1 | 2,3959  |
| 66 | 2,8751 | A inkl. lett trafikk | Combination | Max | 1924,4 | 0,989  | -0,062   | 0,00055  | -0,0591 | 12,9772 | 66-1 | 2,87508 |
| 66 | 3,3543 | A inkl. lett trafikk | Combination | Max | 1924,4 | 1,751  | -0,062   | 0,00055  | -0,0202 | 12,6525 | 66-1 | 3,35425 |
| 66 | 3,8334 | A inkl. lett trafikk | Combination | Max | 1924,4 | 2,513  | -0,062   | 0,00055  | 0,0187  | 12,0206 | 66-1 | 3,83343 |
| 66 | 4,3126 | A inkl. lett trafikk | Combination | Max | 1924,4 | 3,275  | -0,062   | 0,00055  | 0,0576  | 11,0607 | 66-1 | 4,31261 |
| 66 | 4,7918 | A inkl. lett trafikk | Combination | Max | 1924,4 | 4,037  | -0,062   | 0,00055  | 0,0964  | 9,7692  | 66-1 | 4,79179 |
| 66 | 5,271  | A inkl. lett trafikk | Combination | Max | 1924,4 | 4,799  | -0,062   | 0,00055  | 0,1369  | 8,1152  | 66-1 | 5,27097 |
| 66 | 5,7502 | A inkl. lett trafikk | Combination | Max | 1924,4 | 5,561  | -0,062   | 0,00055  | 0,1814  | 6,0961  | 66-1 | 5,75015 |
| 66 | 0      | A inkl. lett trafikk | Combination | Min | 876,27 | -4,907 | -0,093   | -0,00018 | -0,3674 | 2,6154  | 66-1 | 0       |

|    |        |                      |             |     |        |        |        |          |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|--------|--------|----------|---------|---------|------|---------|
| 66 | 0,4792 | A inkl. lett trafikk | Combination | Min | 876,27 | -4,145 | -0,093 | -0,00018 | -0,3266 | 4,5036  | 66-1 | 0,47918 |
| 66 | 0,9584 | A inkl. lett trafikk | Combination | Min | 876,28 | -3,383 | -0,093 | -0,00018 | -0,2858 | 6,0267  | 66-1 | 0,95836 |
| 66 | 1,4375 | A inkl. lett trafikk | Combination | Min | 876,28 | -2,621 | -0,093 | -0,00018 | -0,245  | 7,0747  | 66-1 | 1,43754 |
| 66 | 1,9167 | A inkl. lett trafikk | Combination | Min | 876,29 | -1,859 | -0,093 | -0,00018 | -0,2042 | 7,7401  | 66-1 | 1,91672 |
| 66 | 2,3959 | A inkl. lett trafikk | Combination | Min | 876,29 | -1,097 | -0,093 | -0,00018 | -0,1635 | 8,0405  | 66-1 | 2,3959  |
| 66 | 2,8751 | A inkl. lett trafikk | Combination | Min | 876,3  | -0,335 | -0,093 | -0,00018 | -0,1227 | 7,9757  | 66-1 | 2,87508 |
| 66 | 3,3543 | A inkl. lett trafikk | Combination | Min | 876,31 | 0,427  | -0,093 | -0,00018 | -0,086  | 7,5457  | 66-1 | 3,35425 |
| 66 | 3,8334 | A inkl. lett trafikk | Combination | Min | 876,31 | 1,189  | -0,093 | -0,00018 | -0,0527 | 6,7506  | 66-1 | 3,83343 |
| 66 | 4,3126 | A inkl. lett trafikk | Combination | Min | 876,32 | 1,951  | -0,093 | -0,00018 | -0,0195 | 5,5904  | 66-1 | 4,31261 |
| 66 | 4,7918 | A inkl. lett trafikk | Combination | Min | 876,32 | 2,713  | -0,093 | -0,00018 | 0,0137  | 4,065   | 66-1 | 4,79179 |
| 66 | 5,271  | A inkl. lett trafikk | Combination | Min | 876,33 | 3,475  | -0,093 | -0,00018 | 0,0469  | 2,1745  | 66-1 | 5,27097 |
| 66 | 5,7502 | A inkl. lett trafikk | Combination | Min | 876,33 | 4,237  | -0,093 | -0,00018 | 0,0801  | -0,0811 | 66-1 | 5,75015 |
| 67 | 0      | A inkl. lett trafikk | Combination | Max | 1409,9 | -1,47  | -0,034 | 0,003    | -0,1659 | 9,1507  | 67-1 | 0       |
| 67 | 0,4792 | A inkl. lett trafikk | Combination | Max | 1410   | -0,891 | -0,034 | 0,003    | -0,1488 | 9,7694  | 67-1 | 0,47918 |
| 67 | 0,9584 | A inkl. lett trafikk | Combination | Max | 1410   | -0,313 | -0,034 | 0,003    | -0,1267 | 10,1108 | 67-1 | 0,95836 |
| 67 | 1,4375 | A inkl. lett trafikk | Combination | Max | 1410   | 0,266  | -0,034 | 0,003    | -0,1046 | 10,1749 | 67-1 | 1,43754 |
| 67 | 1,9167 | A inkl. lett trafikk | Combination | Max | 1410   | 0,845  | -0,034 | 0,003    | -0,0826 | 9,9617  | 67-1 | 1,91672 |
| 67 | 2,3959 | A inkl. lett trafikk | Combination | Max | 1410   | 1,424  | -0,034 | 0,003    | -0,0605 | 9,4712  | 67-1 | 2,3959  |
| 67 | 2,8751 | A inkl. lett trafikk | Combination | Max | 1410   | 2,002  | -0,034 | 0,003    | -0,0384 | 8,7823  | 67-1 | 2,87508 |
| 67 | 3,3543 | A inkl. lett trafikk | Combination | Max | 1410   | 2,581  | -0,034 | 0,003    | -0,0163 | 7,9519  | 67-1 | 3,35425 |
| 67 | 3,8334 | A inkl. lett trafikk | Combination | Max | 1410   | 3,16   | -0,034 | 0,003    | 0,0097  | 6,8442  | 67-1 | 3,83343 |
| 67 | 4,3126 | A inkl. lett trafikk | Combination | Max | 1410   | 3,738  | -0,034 | 0,003    | 0,0373  | 5,4608  | 67-1 | 4,31261 |
| 67 | 4,7918 | A inkl. lett trafikk | Combination | Max | 1410   | 4,317  | -0,034 | 0,003    | 0,0649  | 3,8958  | 67-1 | 4,79179 |
| 67 | 5,271  | A inkl. lett trafikk | Combination | Max | 1410   | 4,896  | -0,034 | 0,003    | 0,0928  | 2,0536  | 67-1 | 5,27097 |
| 67 | 5,7502 | A inkl. lett trafikk | Combination | Max | 1410   | 5,475  | -0,034 | 0,003    | 0,1231  | -0,066  | 67-1 | 5,75015 |
| 67 | 0      | A inkl. lett trafikk | Combination | Min | 409,13 | -2,629 | -0,063 | 0,0024   | -0,2729 | 2,9278  | 67-1 | 0       |
| 67 | 0,4792 | A inkl. lett trafikk | Combination | Min | 409,13 | -2,05  | -0,063 | 0,0024   | -0,2436 | 3,8368  | 67-1 | 0,47918 |
| 67 | 0,9584 | A inkl. lett trafikk | Combination | Min | 409,14 | -1,472 | -0,063 | 0,0024   | -0,2143 | 4,4686  | 67-1 | 0,95836 |
| 67 | 1,4375 | A inkl. lett trafikk | Combination | Min | 409,14 | -0,893 | -0,063 | 0,0024   | -0,185  | 4,823   | 67-1 | 1,43754 |
| 67 | 1,9167 | A inkl. lett trafikk | Combination | Min | 409,15 | -0,314 | -0,063 | 0,0024   | -0,1557 | 4,9002  | 67-1 | 1,91672 |
| 67 | 2,3959 | A inkl. lett trafikk | Combination | Min | 409,15 | 0,265  | -0,063 | 0,0024   | -0,1263 | 4,7     | 67-1 | 2,3959  |
| 67 | 2,8751 | A inkl. lett trafikk | Combination | Min | 409,15 | 0,843  | -0,063 | 0,0024   | -0,1005 | 4,2225  | 67-1 | 2,87508 |
| 67 | 3,3543 | A inkl. lett trafikk | Combination | Min | 409,16 | 1,422  | -0,063 | 0,0024   | -0,0778 | 3,4677  | 67-1 | 3,35425 |



|    |        |                      |             |     |        |        |        |          |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|--------|--------|----------|---------|---------|------|---------|
| 67 | 3,8334 | A inkl. lett trafikk | Combination | Min | 409,16 | 2,001  | -0,063 | 0,0024   | -0,0551 | 2,4357  | 67-1 | 3,83343 |
| 67 | 4,3126 | A inkl. lett trafikk | Combination | Min | 409,17 | 2,579  | -0,063 | 0,0024   | -0,0324 | 1,1263  | 67-1 | 4,31261 |
| 67 | 4,7918 | A inkl. lett trafikk | Combination | Min | 409,17 | 3,158  | -0,063 | 0,0024   | -0,0098 | -0,4605 | 67-1 | 4,79179 |
| 67 | 5,271  | A inkl. lett trafikk | Combination | Min | 409,18 | 3,737  | -0,063 | 0,0024   | 0,0101  | -2,3245 | 67-1 | 5,27097 |
| 67 | 5,7502 | A inkl. lett trafikk | Combination | Min | 409,18 | 4,315  | -0,063 | 0,0024   | 0,0276  | -4,4658 | 67-1 | 5,75015 |
| 68 | 0      | A inkl. lett trafikk | Combination | Max | 240,83 | -0,799 | -0,14  | -0,00067 | -0,2486 | 3,6875  | 68-1 | 0       |
| 68 | 0,4792 | A inkl. lett trafikk | Combination | Max | 240,83 | -0,367 | -0,14  | -0,00067 | -0,1814 | 3,9989  | 68-1 | 0,47918 |
| 68 | 0,9584 | A inkl. lett trafikk | Combination | Max | 240,83 | 0,065  | -0,14  | -0,00067 | -0,1143 | 4,1032  | 68-1 | 0,95836 |
| 68 | 1,4375 | A inkl. lett trafikk | Combination | Max | 240,84 | 0,497  | -0,14  | -0,00067 | -0,0463 | 4,0005  | 68-1 | 1,43754 |
| 68 | 1,9167 | A inkl. lett trafikk | Combination | Max | 240,84 | 0,929  | -0,14  | -0,00067 | 0,0227  | 3,6907  | 68-1 | 1,91672 |
| 68 | 2,3959 | A inkl. lett trafikk | Combination | Max | 240,84 | 1,361  | -0,14  | -0,00067 | 0,0997  | 3,1746  | 68-1 | 2,3959  |
| 68 | 2,8751 | A inkl. lett trafikk | Combination | Max | 240,85 | 1,794  | -0,14  | -0,00067 | 0,1774  | 2,6097  | 68-1 | 2,87508 |
| 68 | 3,3543 | A inkl. lett trafikk | Combination | Max | 240,85 | 2,226  | -0,14  | -0,00067 | 0,2552  | 1,8378  | 68-1 | 3,35425 |
| 68 | 3,8334 | A inkl. lett trafikk | Combination | Max | 240,85 | 2,658  | -0,14  | -0,00067 | 0,3329  | 0,8589  | 68-1 | 3,83343 |
| 68 | 4,3126 | A inkl. lett trafikk | Combination | Max | 240,86 | 3,09   | -0,14  | -0,00067 | 0,4128  | -0,3271 | 68-1 | 4,31261 |
| 68 | 4,7918 | A inkl. lett trafikk | Combination | Max | 240,86 | 3,522  | -0,14  | -0,00067 | 0,494   | -1,7201 | 68-1 | 4,79179 |
| 68 | 5,271  | A inkl. lett trafikk | Combination | Max | 240,86 | 3,954  | -0,14  | -0,00067 | 0,5751  | -3,3201 | 68-1 | 5,27097 |
| 68 | 5,7502 | A inkl. lett trafikk | Combination | Max | 240,87 | 4,386  | -0,14  | -0,00067 | 0,6563  | -5,1272 | 68-1 | 5,75015 |
| 68 | 0      | A inkl. lett trafikk | Combination | Min | -516   | -1,603 | -0,173 | -0,00099 | -0,3696 | -1,2295 | 68-1 | 0       |
| 68 | 0,4792 | A inkl. lett trafikk | Combination | Min | -516   | -1,171 | -0,173 | -0,00099 | -0,2867 | -0,6663 | 68-1 | 0,47918 |
| 68 | 0,9584 | A inkl. lett trafikk | Combination | Min | -516   | -0,739 | -0,173 | -0,00099 | -0,2064 | -0,3102 | 68-1 | 0,95836 |
| 68 | 1,4375 | A inkl. lett trafikk | Combination | Min | -516   | -0,307 | -0,173 | -0,00099 | -0,1285 | -0,161  | 68-1 | 1,43754 |
| 68 | 1,9167 | A inkl. lett trafikk | Combination | Min | -516   | 0,125  | -0,173 | -0,00099 | -0,0506 | -0,219  | 68-1 | 1,91672 |
| 68 | 2,3959 | A inkl. lett trafikk | Combination | Min | -516   | 0,557  | -0,173 | -0,00099 | 0,0271  | -0,4839 | 68-1 | 2,3959  |
| 68 | 2,8751 | A inkl. lett trafikk | Combination | Min | -516   | 0,989  | -0,173 | -0,00099 | 0,1046  | -0,9559 | 68-1 | 2,87508 |
| 68 | 3,3543 | A inkl. lett trafikk | Combination | Min | -516   | 1,421  | -0,173 | -0,00099 | 0,1822  | -1,635  | 68-1 | 3,35425 |
| 68 | 3,8334 | A inkl. lett trafikk | Combination | Min | -516   | 1,854  | -0,173 | -0,00099 | 0,2515  | -2,5211 | 68-1 | 3,83343 |
| 68 | 4,3126 | A inkl. lett trafikk | Combination | Min | -516   | 2,286  | -0,173 | -0,00099 | 0,3185  | -3,6142 | 68-1 | 4,31261 |
| 68 | 4,7918 | A inkl. lett trafikk | Combination | Min | -516   | 2,718  | -0,173 | -0,00099 | 0,3855  | -4,9144 | 68-1 | 4,79179 |
| 68 | 5,271  | A inkl. lett trafikk | Combination | Min | -516   | 3,15   | -0,173 | -0,00099 | 0,4525  | -6,4216 | 68-1 | 5,27097 |
| 68 | 5,7502 | A inkl. lett trafikk | Combination | Min | -516   | 3,582  | -0,173 | -0,00099 | 0,5195  | -8,1358 | 68-1 | 5,75015 |
| 69 | 0      | A inkl. lett trafikk | Combination | Max | -1332  | -0,942 | 0,128  | 0,0053   | 0,2646  | 0,0746  | 69-1 | 0       |
| 69 | 0,4792 | A inkl. lett trafikk | Combination | Max | -1332  | -0,18  | 0,128  | 0,0053   | 0,2051  | 0,3712  | 69-1 | 0,47918 |

|    |        |                      |             |     |        |         |       |         |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|---------|-------|---------|---------|---------|------|---------|
| 69 | 0,9584 | A inkl. lett trafikk | Combination | Max | -1332  | 0,582   | 0,128 | 0,0053  | 0,1456  | 0,3027  | 69-1 | 0,95836 |
| 69 | 1,4375 | A inkl. lett trafikk | Combination | Max | -1332  | 1,344   | 0,128 | 0,0053  | 0,0962  | -0,0794 | 69-1 | 1,43754 |
| 69 | 1,9167 | A inkl. lett trafikk | Combination | Max | -1332  | 2,106   | 0,128 | 0,0053  | 0,0508  | -0,4656 | 69-1 | 1,91672 |
| 69 | 2,3959 | A inkl. lett trafikk | Combination | Max | -1332  | 2,868   | 0,128 | 0,0053  | 0,0058  | -1,1938 | 69-1 | 2,3959  |
| 69 | 2,8751 | A inkl. lett trafikk | Combination | Max | -1332  | 3,63    | 0,128 | 0,0053  | -0,0346 | -2,2871 | 69-1 | 2,87508 |
| 69 | 0      | A inkl. lett trafikk | Combination | Min | -1866  | -2,375  | 0,064 | 0,004   | 0,1312  | -4,4203 | 69-1 | 0       |
| 69 | 0,4792 | A inkl. lett trafikk | Combination | Min | -1866  | -1,613  | 0,064 | 0,004   | 0,1004  | -3,5962 | 69-1 | 0,47918 |
| 69 | 0,9584 | A inkl. lett trafikk | Combination | Min | -1866  | -0,851  | 0,064 | 0,004   | 0,0691  | -3,14   | 69-1 | 0,95836 |
| 69 | 1,4375 | A inkl. lett trafikk | Combination | Min | -1866  | -0,089  | 0,064 | 0,004   | 0,0374  | -3,0562 | 69-1 | 1,43754 |
| 69 | 1,9167 | A inkl. lett trafikk | Combination | Min | -1866  | 0,673   | 0,064 | 0,004   | 0,0041  | -3,3418 | 69-1 | 1,91672 |
| 69 | 2,3959 | A inkl. lett trafikk | Combination | Min | -1866  | 1,435   | 0,064 | 0,004   | -0,0434 | -3,9956 | 69-1 | 2,3959  |
| 69 | 2,8751 | A inkl. lett trafikk | Combination | Min | -1866  | 2,197   | 0,064 | 0,004   | -0,1038 | -5,0146 | 69-1 | 2,87508 |
| 70 | 0      | A inkl. lett trafikk | Combination | Max | -1332  | 8,291   | 0,128 | 0,0053  | -0,0344 | -1,531  | 70-1 | 0       |
| 70 | 0,4792 | A inkl. lett trafikk | Combination | Max | -1332  | 9,053   | 0,128 | 0,0053  | -0,0746 | -5,6468 | 70-1 | 0,47918 |
| 70 | 0,9584 | A inkl. lett trafikk | Combination | Max | -1332  | 9,815   | 0,128 | 0,0053  | -0,1145 | -8,7972 | 70-1 | 0,95836 |
| 70 | 1,4375 | A inkl. lett trafikk | Combination | Max | -1332  | 10,577  | 0,128 | 0,0053  | -0,1452 | -12,313 | 70-1 | 1,43754 |
| 70 | 1,9167 | A inkl. lett trafikk | Combination | Max | -1332  | 11,339  | 0,128 | 0,0053  | -0,176  | -16,193 | 70-1 | 1,91672 |
| 70 | 2,3959 | A inkl. lett trafikk | Combination | Max | -1332  | 12,101  | 0,128 | 0,0053  | -0,2067 | -20,439 | 70-1 | 2,3959  |
| 70 | 2,8751 | A inkl. lett trafikk | Combination | Max | -1332  | 12,863  | 0,128 | 0,0053  | -0,2374 | -25,05  | 70-1 | 2,87508 |
| 70 | 0      | A inkl. lett trafikk | Combination | Min | -1866  | 5,431   | 0,064 | 0,004   | -0,1034 | -4,4374 | 70-1 | 0       |
| 70 | 0,4792 | A inkl. lett trafikk | Combination | Min | -1866  | 6,193   | 0,064 | 0,004   | -0,1647 | -7,6287 | 70-1 | 0,47918 |
| 70 | 0,9584 | A inkl. lett trafikk | Combination | Min | -1866  | 6,955   | 0,064 | 0,004   | -0,2259 | -11,575 | 70-1 | 0,95836 |
| 70 | 1,4375 | A inkl. lett trafikk | Combination | Min | -1866  | 7,717   | 0,064 | 0,004   | -0,2871 | -16,034 | 70-1 | 1,43754 |
| 70 | 1,9167 | A inkl. lett trafikk | Combination | Min | -1866  | 8,479   | 0,064 | 0,004   | -0,3484 | -21,024 | 70-1 | 1,91672 |
| 70 | 2,3959 | A inkl. lett trafikk | Combination | Min | -1866  | 9,241   | 0,064 | 0,004   | -0,4096 | -26,379 | 70-1 | 2,3959  |
| 70 | 2,8751 | A inkl. lett trafikk | Combination | Min | -1866  | 10,003  | 0,064 | 0,004   | -0,4708 | -32,208 | 70-1 | 2,87508 |
| 71 | 0      | A inkl. lett trafikk | Combination | Max | 585,37 | -77,129 | 0,626 | 0,00023 | 1,0358  | -54,245 | 71-1 | 0       |
| 71 | 0,25   | A inkl. lett trafikk | Combination | Max | 585,16 | -65,926 | 0,626 | 0,00023 | 0,8799  | -35,783 | 71-1 | 0,25003 |
| 71 | 0,25   | A inkl. lett trafikk | Combination | Max | 595,69 | -65,846 | 0,669 | 0,00023 | 0,8799  | -35,783 | 71-2 | 0       |
| 71 | 1,2502 | A inkl. lett trafikk | Combination | Max | 594,84 | -21,035 | 0,669 | 0,00023 | 0,216   | 44,0182 | 71-2 | 1,00012 |
| 71 | 1,2502 | A inkl. lett trafikk | Combination | Max | 609,46 | -21,035 | 0,452 | 0,00023 | 0,216   | 44,0182 | 71-3 | 0       |
| 71 | 1,6242 | A inkl. lett trafikk | Combination | Max | 609,14 | 10,552  | 0,452 | 0,00023 | 0,0864  | 43,5792 | 71-3 | 0,37404 |
| 71 | 1,6242 | A inkl. lett trafikk | Combination | Max | 609,14 | 10,552  | 0,452 | 0,00023 | 0,0864  | 43,5792 | 71-3 | 0,37404 |



|    |        |                      |             |     |        |          |        |          |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|--------|----------|---------|---------|------|---------|
| 71 | 2,2503 | A inkl. lett trafikk | Combination | Max | 608,61 | 38,603   | 0,452  | 0,00023  | -0,0684 | 44      | 71-3 | 1,00012 |
| 71 | 2,2503 | A inkl. lett trafikk | Combination | Max | 627,47 | 50,224   | 1,423  | 0,00023  | -0,0684 | 44      | 71-4 | 0       |
| 71 | 3,2494 | A inkl. lett trafikk | Combination | Max | 626,62 | 124,85   | 1,423  | 0,00023  | -0,9746 | -30,894 | 71-4 | 0,99912 |
| 71 | 3,2494 | A inkl. lett trafikk | Combination | Max | 626,62 | 124,85   | 1,423  | 0,00023  | -0,9746 | -30,894 | 71-4 | 0,99912 |
| 71 | 3,2504 | A inkl. lett trafikk | Combination | Max | 626,62 | 124,895  | 1,423  | 0,00023  | -0,9754 | -30,959 | 71-4 | 1,00012 |
| 71 | 0      | A inkl. lett trafikk | Combination | Min | 87,351 | -174,023 | 0,446  | -0,00029 | 0,7262  | -97,649 | 71-1 | 0       |
| 71 | 0,25   | A inkl. lett trafikk | Combination | Min | 87,139 | -162,82  | 0,446  | -0,00029 | 0,6146  | -59,175 | 71-1 | 0,25003 |
| 71 | 0,25   | A inkl. lett trafikk | Combination | Min | 129,49 | -136,834 | 0,46   | -0,00029 | 0,6146  | -59,175 | 71-2 | 0       |
| 71 | 1,2502 | A inkl. lett trafikk | Combination | Min | 128,82 | -80,662  | 0,46   | -0,00029 | 0,1366  | 4,9146  | 71-2 | 1,00012 |
| 71 | 1,2502 | A inkl. lett trafikk | Combination | Min | 170,98 | -50,542  | 0,22   | -0,00029 | 0,1366  | 4,9146  | 71-3 | 0       |
| 71 | 1,6242 | A inkl. lett trafikk | Combination | Min | 170,84 | -22,422  | 0,22   | -0,00029 | 0,0082  | 11,637  | 71-3 | 0,37404 |
| 71 | 1,6242 | A inkl. lett trafikk | Combination | Min | 170,84 | -22,422  | 0,22   | -0,00029 | 0,0082  | 11,637  | 71-3 | 0,37404 |
| 71 | 2,2503 | A inkl. lett trafikk | Combination | Min | 170,31 | 5,63     | 0,22   | -0,00029 | -0,259  | 5,7145  | 71-3 | 1,00012 |
| 71 | 2,2503 | A inkl. lett trafikk | Combination | Min | 213,74 | 18,459   | 0,855  | -0,00029 | -0,259  | 5,7145  | 71-4 | 0       |
| 71 | 3,2494 | A inkl. lett trafikk | Combination | Min | 213,07 | 63,225   | 0,855  | -0,00029 | -1,4898 | -58,045 | 71-4 | 0,99912 |
| 71 | 3,2494 | A inkl. lett trafikk | Combination | Min | 213,07 | 63,225   | 0,855  | -0,00029 | -1,4898 | -58,045 | 71-4 | 0,99912 |
| 71 | 3,2504 | A inkl. lett trafikk | Combination | Min | 213,07 | 63,269   | 0,855  | -0,00029 | -1,4912 | -58,139 | 71-4 | 1,00012 |
| 72 | 0      | A inkl. lett trafikk | Combination | Max | -234,2 | -62,842  | -0,558 | -0,0014  | -0,3976 | -26,061 | 72-1 | 0       |
| 72 | 0,5    | A inkl. lett trafikk | Combination | Max | -234,9 | -40,448  | -0,558 | -0,0014  | -0,1025 | 4,1503  | 72-1 | 0,5     |
| 72 | 1      | A inkl. lett trafikk | Combination | Max | -235,7 | -18,055  | -0,558 | -0,0014  | 0,3551  | 50,7848 | 72-1 | 1       |
| 72 | 1      | A inkl. lett trafikk | Combination | Max | -282,9 | -18,055  | 0,288  | -0,0014  | 0,3551  | 50,7848 | 72-2 | 0       |
| 72 | 1,312  | A inkl. lett trafikk | Combination | Max | -283,4 | 6,366    | 0,288  | -0,0014  | 0,2653  | 51,3523 | 72-2 | 0,312   |
| 72 | 1,624  | A inkl. lett trafikk | Combination | Max | -283,9 | 20,34    | 0,288  | -0,0014  | 0,1754  | 51,7448 | 72-2 | 0,624   |
| 72 | 1,624  | A inkl. lett trafikk | Combination | Max | -283,9 | 20,34    | 0,288  | -0,0014  | 0,1754  | 51,7448 | 72-2 | 0,624   |
| 72 | 2      | A inkl. lett trafikk | Combination | Max | -284,4 | 37,18    | 0,288  | -0,0014  | 0,0884  | 53,4925 | 72-2 | 1       |
| 72 | 2      | A inkl. lett trafikk | Combination | Max | -334,1 | 48,802   | -0,114 | -0,0014  | 0,0884  | 53,4925 | 72-3 | 0       |
| 72 | 2,5    | A inkl. lett trafikk | Combination | Max | -334,8 | 100,63   | -0,114 | -0,0014  | 0,1482  | 9,1497  | 72-3 | 0,5     |
| 72 | 3      | A inkl. lett trafikk | Combination | Max | -335,6 | 123,024  | -0,114 | -0,0014  | 0,2125  | -28,018 | 72-3 | 1       |
| 72 | 3      | A inkl. lett trafikk | Combination | Max | -388   | 134,593  | -0,085 | -0,0014  | 0,2125  | -28,018 | 72-4 | 0       |
| 72 | 3,249  | A inkl. lett trafikk | Combination | Max | -388,4 | 172,131  | -0,085 | -0,0014  | 0,2399  | -45,489 | 72-4 | 0,249   |
| 72 | 3,249  | A inkl. lett trafikk | Combination | Max | -388,4 | 172,131  | -0,085 | -0,0014  | 0,2399  | -45,489 | 72-4 | 0,249   |
| 72 | 3,25   | A inkl. lett trafikk | Combination | Max | -388,4 | 172,176  | -0,085 | -0,0014  | 0,24    | -45,565 | 72-4 | 0,25    |
| 72 | 0      | A inkl. lett trafikk | Combination | Min | -726,9 | -138,222 | -1,055 | -0,0025  | -0,6994 | -53,795 | 72-1 | 0       |

|    |       |                      |             |     |        |          |        |         |         |         |      |       |
|----|-------|----------------------|-------------|-----|--------|----------|--------|---------|---------|---------|------|-------|
| 72 | 0,5   | A inkl. lett trafikk | Combination | Min | -727,6 | -104,466 | -1,055 | -0,0025 | -0,2006 | -11,155 | 72-1 | 0,5   |
| 72 | 1     | A inkl. lett trafikk | Combination | Min | -728,4 | -82,072  | -1,055 | -0,0025 | 0,1008  | 11,6753 | 72-1 | 1     |
| 72 | 1     | A inkl. lett trafikk | Combination | Min | -792,6 | -52,378  | 0,059  | -0,0025 | 0,1008  | 11,6753 | 72-2 | 0     |
| 72 | 1,312 | A inkl. lett trafikk | Combination | Min | -793,1 | -27,042  | 0,059  | -0,0025 | 0,0823  | 17,2769 | 72-2 | 0,312 |
| 72 | 1,624 | A inkl. lett trafikk | Combination | Min | -793,6 | -13,068  | 0,059  | -0,0025 | 0,0637  | 16,9334 | 72-2 | 0,624 |
| 72 | 1,624 | A inkl. lett trafikk | Combination | Min | -793,6 | -13,068  | 0,059  | -0,0025 | 0,0637  | 16,9334 | 72-2 | 0,624 |
| 72 | 2     | A inkl. lett trafikk | Combination | Min | -794,1 | 3,772    | 0,059  | -0,0025 | 0,0388  | 10,0477 | 72-2 | 1     |
| 72 | 2     | A inkl. lett trafikk | Combination | Min | -863,9 | 19,847   | -0,154 | -0,0025 | 0,0388  | 10,0477 | 72-3 | 0     |
| 72 | 2,5   | A inkl. lett trafikk | Combination | Min | -864,6 | 42,241   | -0,154 | -0,0025 | 0,1071  | -8,9174 | 72-3 | 0,5   |
| 72 | 3     | A inkl. lett trafikk | Combination | Min | -865,4 | 64,635   | -0,154 | -0,0025 | 0,1644  | -49,268 | 72-3 | 1     |
| 72 | 3     | A inkl. lett trafikk | Combination | Min | -941,2 | 64,586   | -0,126 | -0,0025 | 0,1644  | -49,268 | 72-4 | 0     |
| 72 | 3,249 | A inkl. lett trafikk | Combination | Min | -941,6 | 75,738   | -0,126 | -0,0025 | 0,187   | -84,381 | 72-4 | 0,249 |
| 72 | 3,249 | A inkl. lett trafikk | Combination | Min | -941,6 | 75,738   | -0,126 | -0,0025 | 0,187   | -84,381 | 72-4 | 0,249 |
| 72 | 3,25  | A inkl. lett trafikk | Combination | Min | -941,6 | 75,783   | -0,126 | -0,0025 | 0,1871  | -84,538 | 72-4 | 0,25  |
| 73 | 0     | A inkl. lett trafikk | Combination | Max | 788,64 | -72,217  | -0,087 | -6E-05  | 0,2401  | -40,342 | 73-1 | 0     |
| 73 | 0,375 | A inkl. lett trafikk | Combination | Max | 788,04 | -55,423  | -0,087 | -6E-05  | 0,2818  | -16,257 | 73-1 | 0,375 |
| 73 | 0,75  | A inkl. lett trafikk | Combination | Max | 787,43 | -38,629  | -0,087 | -6E-05  | 0,3244  | 21,4499 | 73-1 | 0,75  |
| 73 | 0,75  | A inkl. lett trafikk | Combination | Max | 738,15 | -38,558  | -0,073 | -6E-05  | 0,3244  | 21,4499 | 73-2 | 0     |
| 73 | 1,187 | A inkl. lett trafikk | Combination | Max | 737,45 | -18,987  | -0,073 | -6E-05  | 0,3714  | 35,3977 | 73-2 | 0,437 |
| 73 | 1,624 | A inkl. lett trafikk | Combination | Max | 736,74 | 0,584    | -0,073 | -6E-05  | 0,4183  | 54,8936 | 73-2 | 0,874 |
| 73 | 1,624 | A inkl. lett trafikk | Combination | Max | 736,74 | 0,584    | -0,073 | -6E-05  | 0,4183  | 54,8936 | 73-2 | 0,874 |
| 73 | 1,75  | A inkl. lett trafikk | Combination | Max | 736,54 | 6,226    | -0,073 | -6E-05  | 0,4319  | 58,9264 | 73-2 | 1     |
| 73 | 1,75  | A inkl. lett trafikk | Combination | Max | 692,13 | 16,069   | -0,689 | -6E-05  | 0,4319  | 58,9264 | 73-3 | 0     |
| 73 | 2,25  | A inkl. lett trafikk | Combination | Max | 691,33 | 67,671   | -0,689 | -6E-05  | 1,0844  | 31,0623 | 73-3 | 0,5   |
| 73 | 2,75  | A inkl. lett trafikk | Combination | Max | 690,52 | 90,064   | -0,689 | -6E-05  | 1,7567  | 5,3578  | 73-3 | 1     |
| 73 | 2,75  | A inkl. lett trafikk | Combination | Max | 650,56 | 101,794  | 10,894 | -6E-05  | 1,7567  | 5,3578  | 73-4 | 0     |
| 73 | 3,249 | A inkl. lett trafikk | Combination | Max | 649,76 | 152,029  | 10,894 | -6E-05  | -1,4708 | -36,781 | 73-4 | 0,499 |
| 73 | 3,249 | A inkl. lett trafikk | Combination | Max | 649,76 | 152,029  | 10,894 | -6E-05  | -1,4708 | -36,781 | 73-4 | 0,499 |
| 73 | 3,25  | A inkl. lett trafikk | Combination | Max | 649,76 | 152,074  | 10,894 | -6E-05  | -1,476  | -36,851 | 73-4 | 0,5   |
| 73 | 0     | A inkl. lett trafikk | Combination | Min | 456,22 | -148,381 | -0,128 | -0,0003 | 0,1873  | -77,876 | 73-1 | 0     |
| 73 | 0,375 | A inkl. lett trafikk | Combination | Min | 455,62 | -131,586 | -0,128 | -0,0003 | 0,2218  | -37,553 | 73-1 | 0,375 |
| 73 | 0,75  | A inkl. lett trafikk | Combination | Min | 455,02 | -114,792 | -0,128 | -0,0003 | 0,2563  | -6,1657 | 73-1 | 0,75  |
| 73 | 0,75  | A inkl. lett trafikk | Combination | Min | 390,68 | -85,331  | -0,109 | -0,0003 | 0,2563  | -6,1657 | 73-2 | 0     |



|    |       |                      |             |     |        |          |        |         |         |         |      |       |
|----|-------|----------------------|-------------|-----|--------|----------|--------|---------|---------|---------|------|-------|
| 73 | 1,187 | A inkl. lett trafikk | Combination | Min | 389,96 | -54,398  | -0,109 | -0,0003 | 0,2909  | 8,5151  | 73-2 | 0,437 |
| 73 | 1,624 | A inkl. lett trafikk | Combination | Min | 389,26 | -34,828  | -0,109 | -0,0003 | 0,3249  | 14,6436 | 73-2 | 0,874 |
| 73 | 1,624 | A inkl. lett trafikk | Combination | Min | 389,26 | -34,828  | -0,109 | -0,0003 | 0,3249  | 14,6436 | 73-2 | 0,874 |
| 73 | 1,75  | A inkl. lett trafikk | Combination | Min | 389,06 | -29,185  | -0,109 | -0,0003 | 0,3347  | 14,5709 | 73-2 | 1     |
| 73 | 1,75  | A inkl. lett trafikk | Combination | Min | 327,48 | -1,039   | -1,345 | -0,0003 | 0,3347  | 14,5709 | 73-3 | 0     |
| 73 | 2,25  | A inkl. lett trafikk | Combination | Min | 326,65 | 23,797   | -1,345 | -0,0003 | 0,6976  | 5,8597  | 73-3 | 0,5   |
| 73 | 2,75  | A inkl. lett trafikk | Combination | Min | 325,85 | 46,189   | -1,345 | -0,0003 | 1,0594  | -15,602 | 73-3 | 1     |
| 73 | 2,75  | A inkl. lett trafikk | Combination | Min | 266,4  | 46,294   | 5,161  | -0,0003 | 1,0594  | -15,602 | 73-4 | 0     |
| 73 | 3,249 | A inkl. lett trafikk | Combination | Min | 265,54 | 68,641   | 5,161  | -0,0003 | -3,6793 | -70,298 | 73-4 | 0,499 |
| 73 | 3,249 | A inkl. lett trafikk | Combination | Min | 265,54 | 68,641   | 5,161  | -0,0003 | -3,6793 | -70,298 | 73-4 | 0,499 |
| 73 | 3,25  | A inkl. lett trafikk | Combination | Min | 265,54 | 68,686   | 5,161  | -0,0003 | -3,6902 | -70,434 | 73-4 | 0,5   |
| 74 | 0     | A inkl. lett trafikk | Combination | Max | -320,2 | 0        | 2,219  | 0,0038  | 3,2679  | 0       | 74-1 | 0     |
| 74 | 1,375 | A inkl. lett trafikk | Combination | Max | -319,6 | 0        | 2,219  | 0,0038  | 0,6603  | 0       | 74-1 | 1,375 |
| 74 | 2,75  | A inkl. lett trafikk | Combination | Max | -318,9 | 0        | 2,219  | 0,0038  | -0,0625 | 0       | 74-1 | 2,75  |
| 74 | 0     | A inkl. lett trafikk | Combination | Min | -503,4 | 0        | 0,497  | 0,0025  | 1,3052  | 0       | 74-1 | 0     |
| 74 | 1,375 | A inkl. lett trafikk | Combination | Min | -502,7 | 0        | 0,497  | 0,0025  | 0,1175  | 0       | 74-1 | 1,375 |
| 74 | 2,75  | A inkl. lett trafikk | Combination | Min | -502   | 0        | 0,497  | 0,0025  | -2,8351 | 0       | 74-1 | 2,75  |
| 75 | 0     | A inkl. lett trafikk | Combination | Max | 11,548 | -357,939 | 14,245 | 0       | 8,2003  | 4,1E-14 | 75-1 | 0     |
| 75 | 0,5   | A inkl. lett trafikk | Combination | Max | 10,778 | -334,076 | 14,245 | 0       | 1,0777  | 271,065 | 75-1 | 0,5   |
| 75 | 1     | A inkl. lett trafikk | Combination | Max | 10,008 | -310,213 | 14,245 | 0       | -2,5654 | 530,199 | 75-1 | 1     |
| 75 | 1     | A inkl. lett trafikk | Combination | Max | 25,742 | -308,699 | 11,56  | 1,8E-17 | 5,6668  | 530,199 | 75-2 | 0     |
| 75 | 1,5   | A inkl. lett trafikk | Combination | Max | 24,972 | -284,836 | 11,56  | 1,8E-17 | -0,0471 | 766,04  | 75-2 | 0,5   |
| 75 | 2     | A inkl. lett trafikk | Combination | Max | 24,202 | -260,973 | 11,56  | 1,8E-17 | -2,4969 | 989,949 | 75-2 | 1     |
| 75 | 2     | A inkl. lett trafikk | Combination | Max | 40,231 | -257,944 | 12,16  | 4E-17   | 6,0091  | 989,949 | 75-3 | 0     |
| 75 | 2,5   | A inkl. lett trafikk | Combination | Max | 39,461 | -234,081 | 12,16  | 4E-17   | -0,0282 | 1190,56 | 75-3 | 0,5   |
| 75 | 3     | A inkl. lett trafikk | Combination | Max | 38,692 | -210,218 | 12,16  | 4E-17   | -2,5982 | 1379,25 | 75-3 | 1     |
| 75 | 3     | A inkl. lett trafikk | Combination | Max | 55,578 | -205,674 | 12,951 | 3,8E-17 | 6,3856  | 1379,25 | 75-4 | 0     |
| 75 | 3,5   | A inkl. lett trafikk | Combination | Max | 54,809 | -181,811 | 12,951 | 3,8E-17 | -0,0357 | 1543,11 | 75-4 | 0,5   |
| 75 | 4     | A inkl. lett trafikk | Combination | Max | 54,039 | -157,949 | 12,951 | 3,8E-17 | -2,7629 | 1696,35 | 75-4 | 1     |
| 75 | 4     | A inkl. lett trafikk | Combination | Max | 72,136 | -151,889 | 13,978 | 3,5E-17 | 6,8702  | 1696,35 | 75-5 | 0     |
| 75 | 4,5   | A inkl. lett trafikk | Combination | Max | 71,367 | -128,026 | 13,978 | 3,5E-17 | -0,047  | 1817,52 | 75-5 | 0,5   |
| 75 | 5     | A inkl. lett trafikk | Combination | Max | 70,597 | -104,164 | 13,978 | 3,5E-17 | -2,9774 | 1934,56 | 75-5 | 1     |
| 75 | 5     | A inkl. lett trafikk | Combination | Max | 90,267 | -96,589  | 15,289 | 5,9E-17 | 7,4958  | 1934,56 | 75-6 | 0     |

|    |      |                      |             |     |        |          |        |          |         |         |       |     |
|----|------|----------------------|-------------|-----|--------|----------|--------|----------|---------|---------|-------|-----|
| 75 | 5,5  | A inkl. lett trafikk | Combination | Max | 89,497 | -72,727  | 15,289 | 5,9E-17  | -0,0588 | 2009,24 | 75-6  | 0,5 |
| 75 | 6    | A inkl. lett trafikk | Combination | Max | 88,728 | -48,864  | 15,289 | 5,9E-17  | -3,2484 | 2089,33 | 75-6  | 1   |
| 75 | 6    | A inkl. lett trafikk | Combination | Max | 110,37 | -39,774  | 16,909 | 2E-17    | 8,2728  | 2089,33 | 75-7  | 0   |
| 75 | 6,5  | A inkl. lett trafikk | Combination | Max | 109,6  | -15,912  | 16,909 | 2E-17    | -0,0718 | 2123,58 | 75-7  | 0,5 |
| 75 | 7    | A inkl. lett trafikk | Combination | Max | 108,83 | 7,951    | 16,909 | 2E-17    | -3,5817 | 2166,71 | 75-7  | 1   |
| 75 | 7    | A inkl. lett trafikk | Combination | Max | 132,88 | 18,555   | 18,872 | 4E-17    | 9,2175  | 2166,71 | 75-8  | 0   |
| 75 | 7,5  | A inkl. lett trafikk | Combination | Max | 132,11 | 42,418   | 18,872 | 4E-17    | -0,0864 | 2160,54 | 75-8  | 0,5 |
| 75 | 8    | A inkl. lett trafikk | Combination | Max | 131,34 | 66,28    | 18,872 | 4E-17    | -3,9841 | 2166,71 | 75-8  | 1   |
| 75 | 8    | A inkl. lett trafikk | Combination | Max | 158,28 | 78,4     | 21,22  | 3,8E-17  | 10,35   | 2166,71 | 75-9  | 0   |
| 75 | 8,5  | A inkl. lett trafikk | Combination | Max | 157,51 | 102,262  | 21,22  | 3,8E-17  | -0,1028 | 2123,58 | 75-9  | 0,5 |
| 75 | 9    | A inkl. lett trafikk | Combination | Max | 156,74 | 126,125  | 21,22  | 3,8E-17  | -4,4641 | 2089,33 | 75-9  | 1   |
| 75 | 9    | A inkl. lett trafikk | Combination | Max | 187,13 | 148,235  | 24     | 3,5E-17  | 11,693  | 2089,33 | 75-10 | 0   |
| 75 | 9,5  | A inkl. lett trafikk | Combination | Max | 186,36 | 172,098  | 24     | 3,5E-17  | -0,1211 | 2009,24 | 75-10 | 0,5 |
| 75 | 10   | A inkl. lett trafikk | Combination | Max | 185,59 | 195,96   | 24     | 3,5E-17  | -5,0312 | 1934,56 | 75-10 | 1   |
| 75 | 10   | A inkl. lett trafikk | Combination | Max | 220,05 | 222,151  | 27,284 | 4E-17    | 13,278  | 1934,56 | 75-11 | 0   |
| 75 | 10,5 | A inkl. lett trafikk | Combination | Max | 219,28 | 246,013  | 27,284 | 4E-17    | -0,1439 | 1817,52 | 75-11 | 0,5 |
| 75 | 11   | A inkl. lett trafikk | Combination | Max | 218,51 | 269,876  | 27,284 | 4E-17    | -5,7021 | 1696,35 | 75-11 | 1   |
| 75 | 11   | A inkl. lett trafikk | Combination | Max | 257,75 | 294,552  | 31,016 | 2,4E-17  | 15,12   | 1696,35 | 75-12 | 0   |
| 75 | 11,5 | A inkl. lett trafikk | Combination | Max | 256,98 | 318,414  | 31,016 | 2,4E-17  | -0,1526 | 1543,11 | 75-12 | 0,5 |
| 75 | 12   | A inkl. lett trafikk | Combination | Max | 256,21 | 342,277  | 31,016 | 2,4E-17  | -6,4462 | 1379,25 | 75-12 | 1   |
| 75 | 12   | A inkl. lett trafikk | Combination | Max | 301,02 | 365,438  | 36,139 | 1,8E-17  | 17,414  | 1379,25 | 75-13 | 0   |
| 75 | 12,5 | A inkl. lett trafikk | Combination | Max | 300,25 | 389,3    | 36,139 | 1,8E-17  | -0,2611 | 1190,56 | 75-13 | 0,5 |
| 75 | 13   | A inkl. lett trafikk | Combination | Max | 299,48 | 413,163  | 36,139 | 1,8E-17  | -7,5712 | 989,949 | 75-13 | 1   |
| 75 | 13   | A inkl. lett trafikk | Combination | Max | 351,22 | 435,887  | 39,127 | 1,8E-17  | 19,404  | 989,948 | 75-14 | 0   |
| 75 | 13,5 | A inkl. lett trafikk | Combination | Max | 350,45 | 459,749  | 39,127 | 1,8E-17  | 0,0064  | 766,039 | 75-14 | 0,5 |
| 75 | 14   | A inkl. lett trafikk | Combination | Max | 349,68 | 483,612  | 39,127 | 1,8E-17  | -7,8669 | 530,199 | 75-14 | 1   |
| 75 | 14   | A inkl. lett trafikk | Combination | Max | 402,94 | 506,336  | 45,007 | 3,8E-17  | 21,699  | 530,198 | 75-15 | 0   |
| 75 | 14,5 | A inkl. lett trafikk | Combination | Max | 402,17 | 530,198  | 45,007 | 3,8E-17  | -0,1109 | 271,065 | 75-15 | 0,5 |
| 75 | 15   | A inkl. lett trafikk | Combination | Max | 401,4  | 554,061  | 45,007 | 3,8E-17  | -9,2766 | -5E-13  | 75-15 | 1   |
| 75 | 0    | A inkl. lett trafikk | Combination | Min | 4,902  | -554,062 | 6,046  | 0        | 3,481   | 0       | 75-1  | 0   |
| 75 | 0,5  | A inkl. lett trafikk | Combination | Min | 4,132  | -530,199 | 6,046  | 0        | 0,4578  | 173,004 | 75-1  | 0,5 |
| 75 | 1    | A inkl. lett trafikk | Combination | Min | 3,363  | -506,337 | 6,046  | 0        | -6,0449 | 334,076 | 75-1  | 1   |
| 75 | 1    | A inkl. lett trafikk | Combination | Min | 10,037 | -483,613 | 4,9    | -3,3E-18 | 2,4028  | 334,076 | 75-2  | 0   |



|    |      |                      |             |     |        |          |        |          |         |         |       |     |
|----|------|----------------------|-------------|-----|--------|----------|--------|----------|---------|---------|-------|-----|
| 75 | 1,5  | A inkl. lett trafikk | Combination | Min | 9,267  | -459,75  | 4,9    | -3,3E-18 | -0,1134 | 483,217 | 75-2  | 0,5 |
| 75 | 2    | A inkl. lett trafikk | Combination | Min | 8,497  | -435,888 | 4,9    | -3,3E-18 | -5,8936 | 620,427 | 75-2  | 1   |
| 75 | 2    | A inkl. lett trafikk | Combination | Min | 15,283 | -413,164 | 5,14   | 1,9E-17  | 2,5417  | 620,426 | 75-3  | 0   |
| 75 | 2,5  | A inkl. lett trafikk | Combination | Min | 14,513 | -389,301 | 5,14   | 1,9E-17  | -0,0707 | 745,705 | 75-3  | 0,5 |
| 75 | 3    | A inkl. lett trafikk | Combination | Min | 13,743 | -365,439 | 5,14   | 1,9E-17  | -6,1504 | 859,052 | 75-3  | 1   |
| 75 | 3    | A inkl. lett trafikk | Combination | Min | 20,869 | -342,278 | 5,454  | 1,4E-17  | 2,6916  | 859,052 | 75-4  | 0   |
| 75 | 3,5  | A inkl. lett trafikk | Combination | Min | 20,099 | -318,415 | 5,454  | 1,4E-17  | -0,0901 | 960,468 | 75-4  | 0,5 |
| 75 | 4    | A inkl. lett trafikk | Combination | Min | 19,33  | -294,553 | 5,454  | 1,4E-17  | -6,5657 | 1049,95 | 75-4  | 1   |
| 75 | 4    | A inkl. lett trafikk | Combination | Min | 26,935 | -269,877 | 5,861  | 1,1E-17  | 2,8834  | 1049,95 | 75-5  | 0   |
| 75 | 4,5  | A inkl. lett trafikk | Combination | Min | 26,165 | -246,014 | 5,861  | 1,1E-17  | -0,1187 | 1127,51 | 75-5  | 0,5 |
| 75 | 5    | A inkl. lett trafikk | Combination | Min | 25,395 | -222,152 | 5,861  | 1,1E-17  | -7,1076 | 1193,13 | 75-5  | 1   |
| 75 | 5    | A inkl. lett trafikk | Combination | Min | 33,623 | -195,961 | 6,379  | 1,7E-17  | 3,1309  | 1193,13 | 75-6  | 0   |
| 75 | 5,5  | A inkl. lett trafikk | Combination | Min | 32,853 | -172,099 | 6,379  | 1,7E-17  | -0,1486 | 1246,82 | 75-6  | 0,5 |
| 75 | 6    | A inkl. lett trafikk | Combination | Min | 32,083 | -148,236 | 6,379  | 1,7E-17  | -7,793  | 1288,58 | 75-6  | 1   |
| 75 | 6    | A inkl. lett trafikk | Combination | Min | 41,089 | -126,126 | 7,02   | -3,3E-18 | 3,438   | 1288,58 | 75-7  | 0   |
| 75 | 6,5  | A inkl. lett trafikk | Combination | Min | 40,32  | -102,263 | 7,02   | -3,3E-18 | -0,1817 | 1318,41 | 75-7  | 0,5 |
| 75 | 7    | A inkl. lett trafikk | Combination | Min | 39,55  | -78,401  | 7,02   | -3,3E-18 | -8,6361 | 1336,3  | 75-7  | 1   |
| 75 | 7    | A inkl. lett trafikk | Combination | Min | 49,507 | -66,281  | 7,795  | 1,9E-17  | 3,8113  | 1336,3  | 75-8  | 0   |
| 75 | 7,5  | A inkl. lett trafikk | Combination | Min | 48,738 | -42,419  | 7,795  | 1,9E-17  | -0,2186 | 1342,27 | 75-8  | 0,5 |
| 75 | 8    | A inkl. lett trafikk | Combination | Min | 47,968 | -18,556  | 7,795  | 1,9E-17  | -9,6546 | 1336,3  | 75-8  | 1   |
| 75 | 8    | A inkl. lett trafikk | Combination | Min | 59,07  | -7,952   | 8,723  | 1,4E-17  | 4,2585  | 1336,3  | 75-9  | 0   |
| 75 | 8,5  | A inkl. lett trafikk | Combination | Min | 58,3   | 15,911   | 8,723  | 1,4E-17  | -0,2601 | 1318,41 | 75-9  | 0,5 |
| 75 | 9    | A inkl. lett trafikk | Combination | Min | 57,531 | 39,774   | 8,723  | 1,4E-17  | -10,87  | 1288,58 | 75-9  | 1   |
| 75 | 9    | A inkl. lett trafikk | Combination | Min | 69,993 | 48,863   | 9,82   | 1,3E-17  | 4,789   | 1288,58 | 75-10 | 0   |
| 75 | 9,5  | A inkl. lett trafikk | Combination | Min | 69,223 | 72,726   | 9,82   | 1,3E-17  | -0,3066 | 1246,82 | 75-10 | 0,5 |
| 75 | 10   | A inkl. lett trafikk | Combination | Min | 68,453 | 96,588   | 9,82   | 1,3E-17  | -12,307 | 1193,13 | 75-10 | 1   |
| 75 | 10   | A inkl. lett trafikk | Combination | Min | 82,521 | 104,163  | 11,116 | 1,9E-17  | 5,4143  | 1193,13 | 75-11 | 0   |
| 75 | 10,5 | A inkl. lett trafikk | Combination | Min | 81,751 | 128,026  | 11,116 | 1,9E-17  | -0,3643 | 1127,51 | 75-11 | 0,5 |
| 75 | 11   | A inkl. lett trafikk | Combination | Min | 80,982 | 151,888  | 11,116 | 1,9E-17  | -14,006 | 1049,95 | 75-11 | 1   |
| 75 | 11   | A inkl. lett trafikk | Combination | Min | 96,934 | 157,948  | 12,587 | 2,4E-18  | 6,1411  | 1049,95 | 75-12 | 0   |
| 75 | 11,5 | A inkl. lett trafikk | Combination | Min | 96,165 | 181,81   | 12,587 | 2,4E-18  | -0,3881 | 960,467 | 75-12 | 0,5 |
| 75 | 12   | A inkl. lett trafikk | Combination | Min | 95,395 | 205,673  | 12,587 | 2,4E-18  | -15,896 | 859,052 | 75-12 | 1   |
| 75 | 12   | A inkl. lett trafikk | Combination | Min | 113,55 | 210,218  | 14,62  | -3,3E-18 | 7,0491  | 859,051 | 75-13 | 0   |

|    |        |                      |             |     |        |         |        |          |         |         |       |        |
|----|--------|----------------------|-------------|-----|--------|---------|--------|----------|---------|---------|-------|--------|
| 75 | 12,5   | A inkl. lett trafikk | Combination | Min | 112,78 | 234,08  | 14,62  | -3,3E-18 | -0,6552 | 745,704 | 75-13 | 0,5    |
| 75 | 13     | A inkl. lett trafikk | Combination | Min | 112,01 | 257,943 | 14,62  | -3,3E-18 | -18,725 | 620,426 | 75-13 | 1      |
| 75 | 13     | A inkl. lett trafikk | Combination | Min | 132,9  | 260,973 | 15,692 | -3,3E-18 | 7,8256  | 620,426 | 75-14 | 0      |
| 75 | 13,5   | A inkl. lett trafikk | Combination | Min | 132,13 | 284,835 | 15,692 | -3,3E-18 | -0,1599 | 483,216 | 75-14 | 0,5    |
| 75 | 14     | A inkl. lett trafikk | Combination | Min | 131,36 | 308,698 | 15,692 | -3,3E-18 | -19,724 | 334,076 | 75-14 | 1      |
| 75 | 14     | A inkl. lett trafikk | Combination | Min | 152,89 | 310,212 | 18,176 | 1,7E-17  | 8,8995  | 334,075 | 75-15 | 0      |
| 75 | 14,5   | A inkl. lett trafikk | Combination | Min | 152,12 | 334,075 | 18,176 | 1,7E-17  | -0,8042 | 173,003 | 75-15 | 0,5    |
| 75 | 15     | A inkl. lett trafikk | Combination | Min | 151,35 | 357,938 | 18,176 | 1,7E-17  | -23,308 | -2E-12  | 75-15 | 1      |
| 76 | 0      | A inkl. lett trafikk | Combination | Max | -113,8 | 0       | 2,181  | 0,00021  | 3,035   | 0       | 76-1  | 0      |
| 76 | 1,426  | A inkl. lett trafikk | Combination | Max | -113,3 | 0       | 2,181  | 0,00021  | 0,2691  | 0       | 76-1  | 1,426  |
| 76 | 2,852  | A inkl. lett trafikk | Combination | Max | -112,7 | 0       | 2,181  | 0,00021  | -1,2409 | 0       | 76-1  | 2,852  |
| 76 | 0      | A inkl. lett trafikk | Combination | Min | -223,3 | 0       | 1,013  | -8,7E-05 | 1,5449  | 0       | 76-1  | 0      |
| 76 | 1,426  | A inkl. lett trafikk | Combination | Min | -222,7 | 0       | 1,013  | -8,7E-05 | -0,1497 | 0       | 76-1  | 1,426  |
| 76 | 2,852  | A inkl. lett trafikk | Combination | Min | -222,2 | 0       | 1,013  | -8,7E-05 | -3,2302 | 0       | 76-1  | 2,852  |
| 77 | 0      | A inkl. lett trafikk | Combination | Max | -109,6 | 0       | 1,083  | 0,00013  | 1,426   | 0       | 77-1  | 0      |
| 77 | 1,476  | A inkl. lett trafikk | Combination | Max | -109   | 0       | 1,083  | 0,00013  | 0,1886  | 0       | 77-1  | 1,476  |
| 77 | 2,952  | A inkl. lett trafikk | Combination | Max | -108,5 | 0       | 1,083  | 0,00013  | 0,4439  | 0       | 77-1  | 2,952  |
| 77 | 0      | A inkl. lett trafikk | Combination | Min | -214,3 | 0       | -0,2   | 1E-05    | -0,1464 | 0       | 77-1  | 0      |
| 77 | 1,476  | A inkl. lett trafikk | Combination | Min | -213,8 | 0       | -0,2   | 1E-05    | -0,2119 | 0       | 77-1  | 1,476  |
| 77 | 2,952  | A inkl. lett trafikk | Combination | Min | -213,2 | 0       | -0,2   | 1E-05    | -1,7704 | 0       | 77-1  | 2,952  |
| 78 | 0      | A inkl. lett trafikk | Combination | Max | -104,8 | 0       | -0,477 | -3,4E-05 | -0,8114 | 0       | 78-1  | 0      |
| 78 | 1,528  | A inkl. lett trafikk | Combination | Max | -104,3 | 0       | -0,477 | -3,4E-05 | 0,2999  | 0       | 78-1  | 1,528  |
| 78 | 3,056  | A inkl. lett trafikk | Combination | Max | -103,7 | 0       | -0,477 | -3,4E-05 | 2,8745  | 0       | 78-1  | 3,056  |
| 78 | 0      | A inkl. lett trafikk | Combination | Min | -210,1 | 0       | -1,732 | -0,00019 | -2,4196 | 0       | 78-1  | 0      |
| 78 | 1,528  | A inkl. lett trafikk | Combination | Min | -209,5 | 0       | -1,732 | -0,00019 | -0,1014 | 0       | 78-1  | 1,528  |
| 78 | 3,056  | A inkl. lett trafikk | Combination | Min | -209   | 0       | -1,732 | -0,00019 | 0,6462  | 0       | 78-1  | 3,056  |
| 79 | 0      | A inkl. lett trafikk | Combination | Max | -105,6 | 0       | -1,051 | -0,00048 | -1,7422 | 0       | 79-1  | 0      |
| 79 | 1,5775 | A inkl. lett trafikk | Combination | Max | -105   | 0       | -1,051 | -0,00048 | 0,237   | 0       | 79-1  | 1,5775 |
| 79 | 3,155  | A inkl. lett trafikk | Combination | Max | -104,4 | 0       | -1,051 | -0,00048 | 3,3877  | 0       | 79-1  | 3,155  |
| 79 | 0      | A inkl. lett trafikk | Combination | Min | -212,8 | 0       | -2,011 | -0,0007  | -3,0296 | 0       | 79-1  | 0      |
| 79 | 1,5775 | A inkl. lett trafikk | Combination | Min | -212,2 | 0       | -2,011 | -0,0007  | -0,1619 | 0       | 79-1  | 1,5775 |
| 79 | 3,155  | A inkl. lett trafikk | Combination | Min | -211,6 | 0       | -2,011 | -0,0007  | 1,5731  | 0       | 79-1  | 3,155  |
| 80 | 0      | A inkl. lett trafikk | Combination | Max | -108,7 | 0       | -1,088 | -0,00018 | -1,876  | 0       | 80-1  | 0      |



|    |        |                      |             |     |        |          |         |          |         |         |      |        |
|----|--------|----------------------|-------------|-----|--------|----------|---------|----------|---------|---------|------|--------|
| 80 | 1,6295 | A inkl. lett trafikk | Combination | Max | -108,1 | 0        | -1,088  | -0,00018 | 0,1927  | 0       | 80-1 | 1,6295 |
| 80 | 3,259  | A inkl. lett trafikk | Combination | Max | -107,5 | 0        | -1,088  | -0,00018 | 3,4019  | 0       | 80-1 | 3,259  |
| 80 | 0      | A inkl. lett trafikk | Combination | Min | -213,7 | 0        | -1,994  | -0,00051 | -3,0974 | 0       | 80-1 | 0      |
| 80 | 1,6295 | A inkl. lett trafikk | Combination | Min | -213   | 0        | -1,994  | -0,00051 | -0,1488 | 0       | 80-1 | 1,6295 |
| 80 | 3,259  | A inkl. lett trafikk | Combination | Min | -212,4 | 0        | -1,994  | -0,00051 | 1,6694  | 0       | 80-1 | 3,259  |
| 81 | 0      | A inkl. lett trafikk | Combination | Max | -2,138 | 0        | -0,294  | -0,00029 | -0,5341 | 0       | 81-1 | 0      |
| 81 | 1,6545 | A inkl. lett trafikk | Combination | Max | -1,645 | 0        | -0,294  | -0,00029 | 0,0009  | 0       | 81-1 | 1,6545 |
| 81 | 3,309  | A inkl. lett trafikk | Combination | Max | -1,152 | 0        | -0,294  | -0,00029 | 0,8061  | 0       | 81-1 | 3,309  |
| 81 | 0      | A inkl. lett trafikk | Combination | Min | -4,973 | 0        | -0,49   | -0,00049 | -0,8156 | 0       | 81-1 | 0      |
| 81 | 1,6545 | A inkl. lett trafikk | Combination | Min | -4,48  | 0        | -0,49   | -0,00049 | -0,0562 | 0       | 81-1 | 1,6545 |
| 81 | 3,309  | A inkl. lett trafikk | Combination | Min | -3,987 | 0        | -0,49   | -0,00049 | 0,4399  | 0       | 81-1 | 3,309  |
| 82 | 0      | A inkl. lett trafikk | Combination | Max | 650,81 | -73,758  | -5,858  | -0,0021  | -1,5413 | -35,397 | 82-1 | 0      |
| 82 | 0,5    | A inkl. lett trafikk | Combination | Max | 649,98 | -50,751  | -5,858  | -0,0021  | 2,4763  | 13,4798 | 82-1 | 0,5    |
| 82 | 0,5    | A inkl. lett trafikk | Combination | Max | 612,78 | -50,567  | 2,119   | -0,0021  | 2,4763  | 13,4798 | 82-2 | 0      |
| 82 | 1      | A inkl. lett trafikk | Combination | Max | 611,95 | -27,559  | 2,119   | -0,0021  | 1,4168  | 42,9354 | 82-2 | 0,5    |
| 82 | 1,5    | A inkl. lett trafikk | Combination | Max | 611,12 | -4,552   | 2,119   | -0,0021  | 0,3698  | 73,4398 | 82-2 | 1      |
| 82 | 1,5    | A inkl. lett trafikk | Combination | Max | 575,18 | -2,914   | 0,195   | -0,0021  | 0,3698  | 73,4398 | 82-3 | 0      |
| 82 | 1,624  | A inkl. lett trafikk | Combination | Max | 574,98 | 30,665   | 0,195   | -0,0021  | 0,3458  | 70,3647 | 82-3 | 0,124  |
| 82 | 1,624  | A inkl. lett trafikk | Combination | Max | 574,98 | 30,665   | 0,195   | -0,0021  | 0,3458  | 70,3647 | 82-3 | 0,124  |
| 82 | 2,062  | A inkl. lett trafikk | Combination | Max | 574,25 | 50,82    | 0,195   | -0,0021  | 0,2614  | 52,5196 | 82-3 | 0,562  |
| 82 | 2,5    | A inkl. lett trafikk | Combination | Max | 573,52 | 70,974   | 0,195   | -0,0021  | 0,1861  | 39,3406 | 82-3 | 1      |
| 82 | 2,5    | A inkl. lett trafikk | Combination | Max | 538,65 | 82,71    | 0,105   | -0,0021  | 0,1861  | 39,3406 | 82-4 | 0      |
| 82 | 2,8745 | A inkl. lett trafikk | Combination | Max | 538,02 | 128,3    | 0,105   | -0,0021  | 0,1503  | 0,9539  | 82-4 | 0,3745 |
| 82 | 3,249  | A inkl. lett trafikk | Combination | Max | 537,4  | 145,532  | 0,105   | -0,0021  | 0,1145  | -21,74  | 82-4 | 0,749  |
| 82 | 3,249  | A inkl. lett trafikk | Combination | Max | 537,4  | 145,532  | 0,105   | -0,0021  | 0,1145  | -21,74  | 82-4 | 0,749  |
| 82 | 3,25   | A inkl. lett trafikk | Combination | Max | 537,4  | 145,579  | 0,105   | -0,0021  | 0,1144  | -21,806 | 82-4 | 0,75   |
| 82 | 0      | A inkl. lett trafikk | Combination | Min | 267,13 | -158,136 | -12,426 | -0,0047  | -3,7366 | -68,071 | 82-1 | 0      |
| 82 | 0,5    | A inkl. lett trafikk | Combination | Min | 266,3  | -135,128 | -12,426 | -0,0047  | 1,364   | -14,384 | 82-1 | 0,5    |
| 82 | 0,5    | A inkl. lett trafikk | Combination | Min | 207,94 | -106,882 | 1,069   | -0,0047  | 1,364   | -14,384 | 82-2 | 0      |
| 82 | 1      | A inkl. lett trafikk | Combination | Min | 207,08 | -72,512  | 1,069   | -0,0047  | 0,8235  | 11,5128 | 82-2 | 0,5    |
| 82 | 1,5    | A inkl. lett trafikk | Combination | Min | 206,25 | -49,505  | 1,069   | -0,0047  | 0,2605  | 23,2898 | 82-2 | 1      |
| 82 | 1,5    | A inkl. lett trafikk | Combination | Min | 147,03 | -20,889  | 0,129   | -0,0047  | 0,2605  | 23,2898 | 82-3 | 0      |
| 82 | 1,624  | A inkl. lett trafikk | Combination | Min | 146,79 | -8,284   | 0,129   | -0,0047  | 0,2438  | 23,5005 | 82-3 | 0,124  |

|    |        |                      |             |     |        |          |        |         |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|--------|---------|---------|---------|------|---------|
| 82 | 1,624  | A inkl. lett trafikk | Combination | Min | 146,79 | -8,284   | 0,129  | -0,0047 | 0,2438  | 23,5005 | 82-3 | 0,124   |
| 82 | 2,062  | A inkl. lett trafikk | Combination | Min | 146,06 | 11,87    | 0,129  | -0,0047 | 0,1851  | 18,5811 | 82-3 | 0,562   |
| 82 | 2,5    | A inkl. lett trafikk | Combination | Min | 145,33 | 32,025   | 0,129  | -0,0047 | 0,1263  | 4,834   | 82-3 | 1       |
| 82 | 2,5    | A inkl. lett trafikk | Combination | Min | 85,637 | 32,142   | 0,071  | -0,0047 | 0,1263  | 4,834   | 82-4 | 0       |
| 82 | 2,8745 | A inkl. lett trafikk | Combination | Min | 84,983 | 49,375   | 0,071  | -0,0047 | 0,0976  | -24,738 | 82-4 | 0,3745  |
| 82 | 3,249  | A inkl. lett trafikk | Combination | Min | 84,36  | 66,608   | 0,071  | -0,0047 | 0,0686  | -62,628 | 82-4 | 0,749   |
| 82 | 3,249  | A inkl. lett trafikk | Combination | Min | 84,36  | 66,608   | 0,071  | -0,0047 | 0,0686  | -62,628 | 82-4 | 0,749   |
| 82 | 3,25   | A inkl. lett trafikk | Combination | Min | 84,359 | 66,654   | 0,071  | -0,0047 | 0,0686  | -62,737 | 82-4 | 0,75    |
| 83 | 0      | A inkl. lett trafikk | Combination | Max | 2315,7 | -45,319  | 0,104  | -0,0044 | 0,1132  | -17,507 | 83-1 | 0       |
| 83 | 0,25   | A inkl. lett trafikk | Combination | Max | 2315,2 | -34,124  | 0,104  | -0,0044 | 0,0895  | -7,36   | 83-1 | 0,25    |
| 83 | 0,25   | A inkl. lett trafikk | Combination | Max | 2252,5 | -33,693  | 0,24   | -0,0044 | 0,0895  | -7,36   | 83-2 | 0       |
| 83 | 0,75   | A inkl. lett trafikk | Combination | Max | 2251,7 | -11,303  | 0,24   | -0,0044 | -0,0012 | 10,2924 | 83-2 | 0,5     |
| 83 | 1,25   | A inkl. lett trafikk | Combination | Max | 2250,8 | 11,087   | 0,24   | -0,0044 | -0,0919 | 39,2698 | 83-2 | 1,00001 |
| 83 | 1,25   | A inkl. lett trafikk | Combination | Max | 2203,9 | 11,087   | -0,369 | -0,0044 | -0,0919 | 39,2698 | 83-3 | 0       |
| 83 | 1,624  | A inkl. lett trafikk | Combination | Max | 2203,2 | 44,452   | -0,369 | -0,0044 | 0,1005  | 26,1501 | 83-3 | 0,374   |
| 83 | 1,624  | A inkl. lett trafikk | Combination | Max | 2203,2 | 44,452   | -0,369 | -0,0044 | 0,1005  | 26,1501 | 83-3 | 0,374   |
| 83 | 1,937  | A inkl. lett trafikk | Combination | Max | 2202,7 | 58,468   | -0,369 | -0,0044 | 0,3277  | 15,3232 | 83-3 | 0,68701 |
| 83 | 2,25   | A inkl. lett trafikk | Combination | Max | 2202,2 | 72,485   | -0,369 | -0,0044 | 0,5549  | 5,2796  | 83-3 | 1,00001 |
| 83 | 2,25   | A inkl. lett trafikk | Combination | Max | 2170,5 | 84,107   | 2,271  | -0,0044 | 0,5549  | 5,2796  | 83-4 | 0       |
| 83 | 2,7495 | A inkl. lett trafikk | Combination | Max | 2169,7 | 135,928  | 2,271  | -0,0044 | -0,3543 | -50,66  | 83-4 | 0,4995  |
| 83 | 3,249  | A inkl. lett trafikk | Combination | Max | 2168,8 | 158,296  | 2,271  | -0,0044 | -1,0108 | -91,601 | 83-4 | 0,99901 |
| 83 | 3,249  | A inkl. lett trafikk | Combination | Max | 2168,8 | 158,296  | 2,271  | -0,0044 | -1,0108 | -91,601 | 83-4 | 0,99901 |
| 83 | 3,25   | A inkl. lett trafikk | Combination | Max | 2168,8 | 158,34   | 2,271  | -0,0044 | -1,0121 | -91,694 | 83-4 | 1,00001 |
| 83 | 0      | A inkl. lett trafikk | Combination | Min | 1800,7 | -140,732 | 0,071  | -0,0072 | 0,0673  | -60,047 | 83-1 | 0       |
| 83 | 0,25   | A inkl. lett trafikk | Combination | Min | 1800,3 | -129,537 | 0,071  | -0,0072 | 0,0455  | -29,994 | 83-1 | 0,25    |
| 83 | 0,25   | A inkl. lett trafikk | Combination | Min | 1765,7 | -102,902 | 0,156  | -0,0072 | 0,0455  | -29,994 | 83-2 | 0       |
| 83 | 0,75   | A inkl. lett trafikk | Combination | Min | 1764,9 | -69,15   | 0,156  | -0,0072 | -0,0568 | -4,9551 | 83-2 | 0,5     |
| 83 | 1,25   | A inkl. lett trafikk | Combination | Min | 1764   | -46,759  | 0,156  | -0,0072 | -0,171  | -0,4054 | 83-2 | 1,00001 |
| 83 | 1,25   | A inkl. lett trafikk | Combination | Min | 1741,8 | -17,046  | -0,726 | -0,0072 | -0,171  | -0,4054 | 83-3 | 0       |
| 83 | 1,624  | A inkl. lett trafikk | Combination | Min | 1741,1 | 11,064   | -0,726 | -0,0072 | 0,0164  | -7,3967 | 83-3 | 0,374   |
| 83 | 1,624  | A inkl. lett trafikk | Combination | Min | 1741,1 | 11,064   | -0,726 | -0,0072 | 0,0164  | -7,3967 | 83-3 | 0,374   |
| 83 | 1,937  | A inkl. lett trafikk | Combination | Min | 1740,6 | 25,08    | -0,726 | -0,0072 | 0,1371  | -18,303 | 83-3 | 0,68701 |
| 83 | 2,25   | A inkl. lett trafikk | Combination | Min | 1740   | 39,096   | -0,726 | -0,0072 | 0,2545  | -33,596 | 83-3 | 1,00001 |



|    |        |                      |             |     |        |          |          |          |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|----------|----------|---------|---------|------|---------|
| 83 | 2,25   | A inkl. lett trafikk | Combination | Min | 1729,8 | 48,366   | 1,314    | -0,0072  | 0,2545  | -33,596 | 83-4 | 0       |
| 83 | 2,7495 | A inkl. lett trafikk | Combination | Min | 1729   | 70,734   | 1,314    | -0,0072  | -0,5856 | -71,888 | 83-4 | 0,4995  |
| 83 | 3,249  | A inkl. lett trafikk | Combination | Min | 1728,1 | 93,102   | 1,314    | -0,0072  | -1,7143 | -130,14 | 83-4 | 0,99901 |
| 83 | 3,249  | A inkl. lett trafikk | Combination | Min | 1728,1 | 93,102   | 1,314    | -0,0072  | -1,7143 | -130,14 | 83-4 | 0,99901 |
| 83 | 3,25   | A inkl. lett trafikk | Combination | Min | 1728,1 | 93,147   | 1,314    | -0,0072  | -1,7166 | -130,3  | 83-4 | 1,00001 |
| 84 | 0      | A inkl. lett trafikk | Combination | Max | -1318  | -1,6E-16 | 4,471    | -0,0022  | 12,543  | 0       | 84-1 | 0       |
| 84 | 2,3576 | A inkl. lett trafikk | Combination | Max | -1316  | 0        | 1,899    | -0,0022  | 8,4062  | 1,9E-16 | 84-1 | 2,35759 |
| 84 | 4,7152 | A inkl. lett trafikk | Combination | Max | -1313  | 1,58E-16 | -0,672   | -0,0022  | 16,141  | 0       | 84-1 | 4,71518 |
| 84 | 0      | A inkl. lett trafikk | Combination | Min | -1904  | -1,6E-16 | 0,577    | -0,0028  | 6,7346  | 0       | 84-1 | 0       |
| 84 | 2,3576 | A inkl. lett trafikk | Combination | Min | -1902  | 0        | -1,995   | -0,0028  | 4,5308  | 1,9E-16 | 84-1 | 2,35759 |
| 84 | 4,7152 | A inkl. lett trafikk | Combination | Min | -1899  | 1,58E-16 | -4,567   | -0,0028  | 3,2394  | 0       | 84-1 | 4,71518 |
| 85 | 0      | A inkl. lett trafikk | Combination | Max | 1578,9 | -2,087   | 0,000215 | -0,0022  | -0,0132 | 0       | 85-1 | 0       |
| 85 | 2,3706 | A inkl. lett trafikk | Combination | Max | 1576,7 | 1,71E-18 | 0,000215 | -0,0022  | -0,0135 | 2,4736  | 85-1 | 2,37055 |
| 85 | 4,7411 | A inkl. lett trafikk | Combination | Max | 1574,5 | 2,087    | 0,000215 | -0,0022  | -0,0109 | 1,9E-17 | 85-1 | 4,74111 |
| 85 | 0      | A inkl. lett trafikk | Combination | Min | 1059,9 | -2,087   | -0,0025  | -0,0035  | -0,0247 | 0       | 85-1 | 0       |
| 85 | 2,3706 | A inkl. lett trafikk | Combination | Min | 1057,7 | 1,71E-18 | -0,0025  | -0,0035  | -0,0188 | 2,4736  | 85-1 | 2,37055 |
| 85 | 4,7411 | A inkl. lett trafikk | Combination | Min | 1055,5 | 2,087    | -0,0025  | -0,0035  | -0,0142 | 1,9E-17 | 85-1 | 4,74111 |
| 86 | 0      | A inkl. lett trafikk | Combination | Max | -833,5 | -1,1E-16 | 1,668    | 0,0034   | 0,0125  | 0       | 86-1 | 0       |
| 86 | 2,4062 | A inkl. lett trafikk | Combination | Max | -831,4 | 0        | -0,199   | 0,0034   | 0,0688  | 1,4E-16 | 86-1 | 2,40617 |
| 86 | 4,8123 | A inkl. lett trafikk | Combination | Max | -829,4 | 1,14E-16 | -2,065   | 0,0034   | 7,5885  | 0       | 86-1 | 4,81234 |
| 86 | 0      | A inkl. lett trafikk | Combination | Min | -1293  | -1,1E-16 | -0,326   | 0,0022   | -3,0993 | 0       | 86-1 | 0       |
| 86 | 2,4062 | A inkl. lett trafikk | Combination | Min | -1291  | 0        | -2,192   | 0,0022   | -1,9605 | 1,4E-16 | 86-1 | 2,40617 |
| 86 | 4,8123 | A inkl. lett trafikk | Combination | Min | -1289  | 1,14E-16 | -4,058   | 0,0022   | 0,7624  | 0       | 86-1 | 4,81234 |
| 87 | 0      | A inkl. lett trafikk | Combination | Max | 987,14 | -1,336   | 0,00329  | 0,0001   | 0,0112  | 0       | 87-1 | 0       |
| 87 | 2,4194 | A inkl. lett trafikk | Combination | Max | 985,66 | 5,79E-17 | 0,00329  | 0,0001   | 0,0033  | 1,6165  | 87-1 | 2,41936 |
| 87 | 4,8387 | A inkl. lett trafikk | Combination | Max | 984,19 | 1,336    | 0,00329  | 0,0001   | -0,0028 | -4E-16  | 87-1 | 4,83873 |
| 87 | 0      | A inkl. lett trafikk | Combination | Min | 594,7  | -1,336   | 0,001184 | -2,6E-05 | 0,0029  | 0       | 87-1 | 0       |
| 87 | 2,4194 | A inkl. lett trafikk | Combination | Min | 593,23 | 5,79E-17 | 0,001184 | -2,6E-05 | -0,0002 | 1,6165  | 87-1 | 2,41936 |
| 87 | 4,8387 | A inkl. lett trafikk | Combination | Min | 591,75 | 1,336    | 0,001184 | -2,6E-05 | -0,0047 | -4E-16  | 87-1 | 4,83873 |
| 88 | 0      | A inkl. lett trafikk | Combination | Max | -387,8 | -7,8E-17 | 1,215    | 0,0039   | -0,0121 | 0       | 88-1 | 0       |
| 88 | 2,447  | A inkl. lett trafikk | Combination | Max | -386,4 | 0        | -0,057   | 0,0039   | -0,7035 | 9,5E-17 | 88-1 | 2,44701 |
| 88 | 4,894  | A inkl. lett trafikk | Combination | Max | -384,9 | 7,79E-17 | -1,33    | 0,0039   | 3,5555  | 0       | 88-1 | 4,89403 |
| 88 | 0      | A inkl. lett trafikk | Combination | Min | -725,1 | -7,8E-17 | 0,168    | 0,0018   | -1,8624 | 0       | 88-1 | 0       |

|    |        |                      |             |     |        |          |          |          |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|----------|----------|---------|---------|------|---------|
| 88 | 2,447  | A inkl. lett trafikk | Combination | Min | -723,7 | 0        | -1,104   | 0,0018   | -1,5748 | 9,5E-17 | 88-1 | 2,44701 |
| 88 | 4,894  | A inkl. lett trafikk | Combination | Min | -722,2 | 7,79E-17 | -2,377   | 0,0018   | 0,2691  | 0       | 88-1 | 4,89403 |
| 89 | 0      | A inkl. lett trafikk | Combination | Max | 449,01 | -4,8E-17 | 0,934    | -0,00032 | 0,7782  | 0       | 89-1 | 0       |
| 89 | 2,4604 | A inkl. lett trafikk | Combination | Max | 448,12 | 0        | 0,153    | -0,00032 | -0,5589 | 5,9E-17 | 89-1 | 2,46039 |
| 89 | 4,9208 | A inkl. lett trafikk | Combination | Max | 447,23 | 4,79E-17 | -0,629   | -0,00032 | 1,1784  | 0       | 89-1 | 4,92078 |
| 89 | 0      | A inkl. lett trafikk | Combination | Min | 125,56 | -4,8E-17 | 0,25     | -0,00077 | -1,459  | 0       | 89-1 | 0       |
| 89 | 2,4604 | A inkl. lett trafikk | Combination | Min | 124,67 | 0        | -0,532   | -0,00077 | -1,208  | 5,9E-17 | 89-1 | 2,46039 |
| 89 | 4,9208 | A inkl. lett trafikk | Combination | Min | 123,78 | 4,79E-17 | -1,314   | -0,00077 | -0,0706 | 0       | 89-1 | 4,92078 |
| 90 | 0      | A inkl. lett trafikk | Combination | Max | 116,2  | -4,8E-17 | 1,152    | 0,00077  | 0,7797  | 0       | 90-1 | 0       |
| 90 | 2,4801 | A inkl. lett trafikk | Combination | Max | 117,1  | 0        | 0,371    | 0,00077  | -0,5734 | 5,9E-17 | 90-1 | 2,48008 |
| 90 | 4,9602 | A inkl. lett trafikk | Combination | Max | 118    | 4,79E-17 | -0,411   | 0,00077  | 1,3234  | 0       | 90-1 | 4,96017 |
| 90 | 0      | A inkl. lett trafikk | Combination | Min | -203,7 | -4,8E-17 | 0,408    | 0,00039  | -0,5311 | 0       | 90-1 | 0       |
| 90 | 2,4801 | A inkl. lett trafikk | Combination | Min | -202,8 | 0        | -0,374   | 0,00039  | -1,2168 | 5,9E-17 | 90-1 | 2,48008 |
| 90 | 4,9602 | A inkl. lett trafikk | Combination | Min | -201,9 | 4,79E-17 | -1,156   | 0,00039  | -1,0585 | 0       | 90-1 | 4,96017 |
| 91 | 0      | A inkl. lett trafikk | Combination | Max | -48,23 | -4,8E-17 | 1,305    | -0,00036 | 1,7239  | 0       | 91-1 | 0       |
| 91 | 2,4936 | A inkl. lett trafikk | Combination | Max | -49,14 | 0        | 0,523    | -0,00036 | -0,5556 | 6E-17   | 91-1 | 2,4936  |
| 91 | 4,9872 | A inkl. lett trafikk | Combination | Max | -50,05 | 4,79E-17 | -0,259   | -0,00036 | 0,425   | 0       | 91-1 | 4,98719 |
| 91 | 0      | A inkl. lett trafikk | Combination | Min | -368,7 | -4,8E-17 | 0,573    | -0,00072 | -0,6181 | 0       | 91-1 | 0       |
| 91 | 2,4936 | A inkl. lett trafikk | Combination | Min | -369,6 | 0        | -0,209   | -0,00072 | -1,1645 | 6E-17   | 91-1 | 2,4936  |
| 91 | 4,9872 | A inkl. lett trafikk | Combination | Min | -370,5 | 4,79E-17 | -0,991   | -0,00072 | -0,9073 | 0       | 91-1 | 4,98719 |
| 92 | 0      | A inkl. lett trafikk | Combination | Max | 605,78 | -4,8E-17 | 1,406    | 0,00041  | 1,5398  | 0       | 92-1 | 0       |
| 92 | 2,5051 | A inkl. lett trafikk | Combination | Max | 606,7  | 0        | 0,624    | 0,00041  | -0,5128 | 6E-17   | 92-1 | 2,50511 |
| 92 | 5,0102 | A inkl. lett trafikk | Combination | Max | 607,61 | 4,79E-17 | -0,157   | 0,00041  | 0,577   | 0       | 92-1 | 5,01021 |
| 92 | 0      | A inkl. lett trafikk | Combination | Min | 276,13 | -4,8E-17 | 0,738    | 0,0002   | 0,2707  | 0       | 92-1 | 0       |
| 92 | 2,5051 | A inkl. lett trafikk | Combination | Min | 277,04 | 0        | -0,044   | 0,0002   | -1,1111 | 6E-17   | 92-1 | 2,50511 |
| 92 | 5,0102 | A inkl. lett trafikk | Combination | Min | 277,96 | 4,79E-17 | -0,826   | 0,0002   | -1,5885 | 0       | 92-1 | 5,01021 |
| 93 | 0      | A inkl. lett trafikk | Combination | Max | -512,3 | -8,8E-17 | 2,846    | -0,0021  | 4,7208  | 0       | 93-1 | 0       |
| 93 | 2,5188 | A inkl. lett trafikk | Combination | Max | -514   | 0        | 1,408    | -0,0021  | -0,6369 | 1,1E-16 | 93-1 | 2,51876 |
| 93 | 5,0375 | A inkl. lett trafikk | Combination | Max | -515,7 | 8,81E-17 | -0,03    | -0,0021  | -0,286  | 0       | 93-1 | 5,03751 |
| 93 | 0      | A inkl. lett trafikk | Combination | Min | -864,2 | -8,8E-17 | 1,658    | -0,0037  | 0,7903  | 0       | 93-1 | 0       |
| 93 | 2,5188 | A inkl. lett trafikk | Combination | Min | -865,9 | 0        | 0,22     | -0,0037  | -1,713  | 1,1E-16 | 93-1 | 2,51876 |
| 93 | 5,0375 | A inkl. lett trafikk | Combination | Min | -867,6 | 8,81E-17 | -1,218   | -0,0037  | -2,3843 | 0       | 93-1 | 5,03751 |
| 94 | 0      | A inkl. lett trafikk | Combination | Max | 1099,8 | -1,447   | -0,00134 | 0,00047  | -0,0054 | 0       | 94-1 | 0       |



|    |        |                      |             |     |        |          |          |          |         |         |      |         |
|----|--------|----------------------|-------------|-----|--------|----------|----------|----------|---------|---------|------|---------|
| 94 | 2,5219 | A inkl. lett trafikk | Combination | Max | 1101,6 | 2,9E-17  | -0,00134 | 0,00047  | -0,0019 | 1,8244  | 94-1 | 2,52193 |
| 94 | 5,0439 | A inkl. lett trafikk | Combination | Max | 1103,3 | 1,447    | -0,00134 | 0,00047  | 0,0027  | 6,1E-17 | 94-1 | 5,04386 |
| 94 | 0      | A inkl. lett trafikk | Combination | Min | 700,05 | -1,447   | -0,00191 | 0,00026  | -0,0071 | 0       | 94-1 | 0       |
| 94 | 2,5219 | A inkl. lett trafikk | Combination | Min | 701,76 | 2,9E-17  | -0,00191 | 0,00026  | -0,0025 | 1,8244  | 94-1 | 2,52193 |
| 94 | 5,0439 | A inkl. lett trafikk | Combination | Min | 703,48 | 1,447    | -0,00191 | 0,00026  | 0,0011  | 6,1E-17 | 94-1 | 5,04386 |
| 95 | 0      | A inkl. lett trafikk | Combination | Max | -905,7 | -1,2E-16 | 4,116    | 0,00071  | 8,5068  | 0       | 95-1 | 0       |
| 95 | 2,5356 | A inkl. lett trafikk | Combination | Max | -908   | 0        | 2,181    | 0,00071  | 0,5807  | 1,5E-16 | 95-1 | 2,5356  |
| 95 | 5,0712 | A inkl. lett trafikk | Combination | Max | -910,3 | 1,19E-16 | 0,245    | 0,00071  | 0,7268  | 0       | 95-1 | 5,07121 |
| 95 | 0      | A inkl. lett trafikk | Combination | Min | -1355  | -1,2E-16 | 2,15     | 0,0005   | 1,5617  | 0       | 95-1 | 0       |
| 95 | 2,5356 | A inkl. lett trafikk | Combination | Min | -1357  | 0        | 0,214    | 0,0005   | -1,4351 | 1,5E-16 | 95-1 | 2,5356  |
| 95 | 5,0712 | A inkl. lett trafikk | Combination | Min | -1360  | 1,19E-16 | -1,721   | 0,0005   | -2,571  | 0       | 95-1 | 5,07121 |
| 96 | 0      | A inkl. lett trafikk | Combination | Max | 1621,8 | -2,087   | -0,00029 | -0,00056 | -0,0052 | 0       | 96-1 | 0       |
| 96 | 2,5304 | A inkl. lett trafikk | Combination | Max | 1624,3 | -2E-16   | -0,00029 | -0,00056 | -0,0027 | 2,6403  | 96-1 | 2,53035 |
| 96 | 5,0607 | A inkl. lett trafikk | Combination | Max | 1626,8 | 2,087    | -0,00029 | -0,00056 | -0,0002 | 1,5E-15 | 96-1 | 5,0607  |
| 96 | 0      | A inkl. lett trafikk | Combination | Min | 1121   | -2,087   | -0,00099 | -0,00084 | -0,0062 | 0       | 96-1 | 0       |
| 96 | 2,5304 | A inkl. lett trafikk | Combination | Min | 1123,5 | -2E-16   | -0,00099 | -0,00084 | -0,0052 | 2,6403  | 96-1 | 2,53035 |
| 96 | 5,0607 | A inkl. lett trafikk | Combination | Min | 1126   | 2,087    | -0,00099 | -0,00084 | -0,0045 | 1,5E-15 | 96-1 | 5,0607  |
| 97 | 0      | A inkl. lett trafikk | Combination | Max | -1264  | -6,8E-17 | 1,574    | 0,00047  | 4,3945  | 0       | 97-1 | 0       |
| 97 | 2,5441 | A inkl. lett trafikk | Combination | Max | -1266  | 0        | 0,467    | 0,00047  | 1,7981  | 8,6E-17 | 97-1 | 2,54406 |
| 97 | 5,0881 | A inkl. lett trafikk | Combination | Max | -1267  | 6,78E-17 | -0,639   | 0,00047  | 3,8172  | 0       | 97-1 | 5,08812 |
| 97 | 0      | A inkl. lett trafikk | Combination | Min | -1793  | -6,8E-17 | 0,689    | 0,00039  | 1,6947  | 0       | 97-1 | 0       |
| 97 | 2,5441 | A inkl. lett trafikk | Combination | Min | -1795  | 0        | -0,417   | 0,00039  | 1,1746  | 8,6E-17 | 97-1 | 2,54406 |
| 97 | 5,0881 | A inkl. lett trafikk | Combination | Min | -1796  | 6,78E-17 | -1,524   | 0,00039  | 2,0167  | 0       | 97-1 | 5,08812 |

## Vedlegg K.3 Lastkombinasjon a



**TABLE: Element Forces - Frames**

| Frame | Station | OutputCase  | CaseType    | tepTyp | P      | V2        | V3      | T          | M2      | M3        | FrameElem | ElemStation |
|-------|---------|-------------|-------------|--------|--------|-----------|---------|------------|---------|-----------|-----------|-------------|
| Text  | m       | Text        | Text        | Text   | KN     | KN        | KN      | KN-m       | KN-m    | KN-m      | Text      | m           |
| 1     | 0       | Lastkomb. A | Combination | Max    | -211   | -48,572   | -6,738  | -0,0013    | -2,076  | -17,443   | 1-1       | 0           |
| 1     | 0,25    | Lastkomb. A | Combination | Max    | -211,1 | -39,316   | -6,738  | -0,0013    | 0,1297  | -4,4992   | 1-1       | 0,25008     |
| 1     | 0,25    | Lastkomb. A | Combination | Max    | -195,8 | -39,335   | 0,803   | -0,0013    | 0,1297  | -4,4992   | 1-2       | 0           |
| 1     | 1,25    | Lastkomb. A | Combination | Max    | -196,4 | -2,31     | 0,803   | -0,0013    | -0,6346 | 61,2196   | 1-2       | 1,00031     |
| 1     | 1,25    | Lastkomb. A | Combination | Max    | -182,1 | -2,31     | -0,112  | -0,0013    | -0,6346 | 61,2196   | 1-3       | 0           |
| 1     | 1,438   | Lastkomb. A | Combination | Max    | -182,2 | 37,415    | -0,112  | -0,0013    | -0,6067 | 55,3046   | 1-3       | 0,18756     |
| 1     | 2,251   | Lastkomb. A | Combination | Max    | -182,7 | 67,498    | -0,112  | -0,0013    | -0,4814 | 26,1587   | 1-3       | 1,00031     |
| 1     | 2,251   | Lastkomb. A | Combination | Max    | -169,2 | 86,718    | -0,163  | -0,0013    | -0,4814 | 26,1587   | 1-4       | 0           |
| 1     | 2,875   | Lastkomb. A | Combination | Max    | -169,6 | 148,03    | -0,163  | -0,0013    | -0,3677 | -18,3781  | 1-4       | 0,62419     |
| 1     | 2,875   | Lastkomb. A | Combination | Max    | -169,6 | 148,03    | -0,163  | -0,0013    | -0,3677 | -18,3781  | 1-4       | 0,62419     |
| 1     | 2,876   | Lastkomb. A | Combination | Max    | -169,6 | 148,067   | -0,163  | -0,0013    | -0,3675 | -18,4297  | 1-4       | 0,62519     |
| 1     | 0       | Lastkomb. A | Combination | Min    | -710   | -162,173  | -17,079 | -0,0026    | -4,4263 | -51,9603  | 1-1       | 0           |
| 1     | 0,25    | Lastkomb. A | Combination | Min    | -710,1 | -152,917  | -17,079 | -0,0026    | -1,2286 | -20,805   | 1-1       | 0,25008     |
| 1     | 0,25    | Lastkomb. A | Combination | Min    | -679,3 | -115,744  | 0,049   | -0,0026    | -1,2286 | -20,805   | 1-2       | 0           |
| 1     | 1,25    | Lastkomb. A | Combination | Min    | -679,4 | -59,563   | 0,049   | -0,0026    | -1,284  | 11,0435   | 1-2       | 1,00031     |
| 1     | 1,25    | Lastkomb. A | Combination | Min    | -652,3 | -21,085   | -0,332  | -0,0026    | -1,284  | 11,0435   | 1-3       | 0           |
| 1     | 1,438   | Lastkomb. A | Combination | Min    | -652   | -2,718    | -0,332  | -0,0026    | -1,2218 | 12,2042   | 1-3       | 0,18756     |
| 1     | 2,251   | Lastkomb. A | Combination | Min    | -652,5 | 27,365    | -0,332  | -0,0026    | -0,9521 | -3,7741   | 1-3       | 1,00031     |
| 1     | 2,251   | Lastkomb. A | Combination | Min    | -628,7 | 27,28     | -0,356  | -0,0026    | -0,9521 | -3,7741   | 1-4       | 0           |
| 1     | 2,875   | Lastkomb. A | Combination | Min    | -628,6 | 50,384    | -0,356  | -0,0026    | -0,7429 | -60,4351  | 1-4       | 0,62419     |
| 1     | 2,875   | Lastkomb. A | Combination | Min    | -628,6 | 50,384    | -0,356  | -0,0026    | -0,7429 | -60,4351  | 1-4       | 0,62419     |
| 1     | 2,876   | Lastkomb. A | Combination | Min    | -628,6 | 50,421    | -0,356  | -0,0026    | -0,7426 | -60,5641  | 1-4       | 0,62519     |
| 2     | 0       | Lastkomb. A | Combination | Max    | -266,7 | 0         | 2,709   | -0,0001258 | 3,7753  | 0         | 2-1       | 0           |
| 2     | 1,375   | Lastkomb. A | Combination | Max    | -266   | 0         | 2,709   | -0,0001258 | 0,7257  | 0         | 2-1       | 1,375       |
| 2     | 2,75    | Lastkomb. A | Combination | Max    | -265,3 | 0         | 2,709   | -0,0001258 | 0,8593  | 0         | 2-1       | 2,75        |
| 2     | 0       | Lastkomb. A | Combination | Min    | -546,6 | 0         | -0,098  | -0,0004751 | 0,5887  | 0         | 2-1       | 0           |
| 2     | 1,375   | Lastkomb. A | Combination | Min    | -545,9 | 0         | -0,098  | -0,0004751 | 0,046   | 0         | 2-1       | 1,375       |
| 2     | 2,75    | Lastkomb. A | Combination | Min    | -545,3 | 0         | -0,098  | -0,0004751 | -3,6744 | 0         | 2-1       | 2,75        |
| 3     | 0       | Lastkomb. A | Combination | Max    | -270,7 | -4,15E-17 | 5,632   | -0,0135    | 8,509   | 0         | 3-1       | 0           |
| 3     | 1,204   | Lastkomb. A | Combination | Max    | -270,2 | 0         | 4,955   | -0,0135    | 2,3266  | 2,497E-17 | 3-1       | 1,20376     |

|   |       |             |             |     |        |           |        |         |         |               |         |
|---|-------|-------------|-------------|-----|--------|-----------|--------|---------|---------|---------------|---------|
| 3 | 2,408 | Lastkomb. A | Combination | Max | -269,7 | 4,149E-17 | 4,277  | -0,0135 | -1,5205 | 0 3-1         | 2,40751 |
| 3 | 0     | Lastkomb. A | Combination | Min | -585,4 | -4,15E-17 | 3,373  | -0,0157 | 4,8284  | 0 3-1         | 0       |
| 3 | 1,204 | Lastkomb. A | Combination | Min | -585   | 0         | 2,695  | -0,0157 | 1,1761  | 2,497E-17 3-1 | 1,20376 |
| 3 | 2,408 | Lastkomb. A | Combination | Min | -584,5 | 4,149E-17 | 2,018  | -0,0157 | -3,419  | 0 3-1         | 2,40751 |
| 4 | 0     | Lastkomb. A | Combination | Max | -490,3 | -53,35    | -0,163 | -0,0029 | -0,3665 | -21,1624 4-1  | 0       |
| 4 | 0,375 | Lastkomb. A | Combination | Max | -490,6 | -39,466   | -0,163 | -0,0029 | -0,2981 | 2,1471 4-1    | 0,37511 |
| 4 | 0,375 | Lastkomb. A | Combination | Max | -490,5 | -39,803   | -0,091 | -0,0029 | -0,2981 | 2,1471 4-2    | 0       |
| 4 | 1,375 | Lastkomb. A | Combination | Max | -491,2 | -2,778    | -0,091 | -0,0029 | -0,1505 | 67,2824 4-2   | 1,00029 |
| 4 | 1,375 | Lastkomb. A | Combination | Max | -494,4 | -2,778    | -0,798 | -0,0029 | -0,1505 | 67,2824 4-3   | 0       |
| 4 | 1,438 | Lastkomb. A | Combination | Max | -494,4 | 33,306    | -0,798 | -0,0029 | -0,0918 | 65,7241 4-3   | 0,06252 |
| 4 | 2,376 | Lastkomb. A | Combination | Max | -495   | 68,016    | -0,798 | -0,0029 | 1,5876  | 31,2657 4-3   | 1,00029 |
| 4 | 2,376 | Lastkomb. A | Combination | Max | -501,6 | 88,065    | 11,867 | -0,0029 | 1,5876  | 31,2657 4-4   | 0       |
| 4 | 2,875 | Lastkomb. A | Combination | Max | -501,9 | 144,65    | 11,867 | -0,0029 | -1,4259 | -8,65 4-4     | 0,49915 |
| 4 | 2,875 | Lastkomb. A | Combination | Max | -501,9 | 144,65    | 11,867 | -0,0029 | -1,4259 | -8,65 4-4     | 0,49915 |
| 4 | 2,876 | Lastkomb. A | Combination | Max | -501,9 | 144,687   | 11,867 | -0,0029 | -1,4303 | -8,6982 4-4   | 0,50015 |
| 4 | 0     | Lastkomb. A | Combination | Min | -1337  | -166,309  | -0,356 | -0,0054 | -0,7419 | -63,3639 4-1  | 0       |
| 4 | 0,375 | Lastkomb. A | Combination | Min | -1338  | -152,425  | -0,356 | -0,0054 | -0,6177 | -16,7853 4-1  | 0,37511 |
| 4 | 0,375 | Lastkomb. A | Combination | Min | -1314  | -115,226  | -0,325 | -0,0054 | -0,6177 | -16,7853 4-2  | 0       |
| 4 | 1,375 | Lastkomb. A | Combination | Min | -1314  | -59,046   | -0,325 | -0,0054 | -0,328  | 13,8777 4-2   | 1,00029 |
| 4 | 1,375 | Lastkomb. A | Combination | Min | -1298  | -20,692   | -1,866 | -0,0054 | -0,328  | 13,8777 4-3   | 0       |
| 4 | 1,438 | Lastkomb. A | Combination | Min | -1297  | -9,697    | -1,866 | -0,0054 | -0,262  | 14,5563 4-3   | 0,06252 |
| 4 | 2,376 | Lastkomb. A | Combination | Min | -1298  | 25,013    | -1,866 | -0,0054 | 0,6287  | 1,8042 4-3    | 1,00029 |
| 4 | 2,376 | Lastkomb. A | Combination | Min | -1290  | 25,323    | 4,306  | -0,0054 | 0,6287  | 1,8042 4-4    | 0       |
| 4 | 2,875 | Lastkomb. A | Combination | Min | -1290  | 43,798    | 4,306  | -0,0054 | -4,3356 | -39,7224 4-4  | 0,49915 |
| 4 | 2,875 | Lastkomb. A | Combination | Min | -1290  | 43,798    | 4,306  | -0,0054 | -4,3356 | -39,7224 4-4  | 0,49915 |
| 4 | 2,876 | Lastkomb. A | Combination | Min | -1290  | 43,835    | 4,306  | -0,0054 | -4,3474 | -39,8482 4-4  | 0,50015 |
| 5 | 0     | Lastkomb. A | Combination | Max | 585,61 | -2,93E-17 | 2,666  | 0,0025  | 3,4224  | 0 5-1         | 0       |
| 5 | 1,215 | Lastkomb. A | Combination | Max | 585,95 | 0         | 2,187  | 0,0025  | 1,4525  | 1,781E-17 5-1 | 1,21513 |
| 5 | 2,43  | Lastkomb. A | Combination | Max | 586,28 | 2,931E-17 | 1,708  | 0,0025  | 1,8079  | 0 5-1         | 2,43025 |
| 5 | 0     | Lastkomb. A | Combination | Min | 270,39 | -2,93E-17 | 0,362  | 0,0019  | 1,5243  | 0 5-1         | 0       |
| 5 | 1,215 | Lastkomb. A | Combination | Min | 270,73 | 0         | -0,117 | 0,0019  | 0,456   | 1,781E-17 5-1 | 1,21513 |
| 5 | 2,43  | Lastkomb. A | Combination | Min | 271,06 | 2,931E-17 | -0,595 | 0,0019  | -1,9024 | 0 5-1         | 2,43025 |
| 6 | 0     | Lastkomb. A | Combination | Max | 535,47 | -8,019    | 21,252 | 0,003   | 19,1103 | 0 6-1         | 0       |



|   |       |             |             |     |        |         |        |            |         |          |     |         |
|---|-------|-------------|-------------|-----|--------|---------|--------|------------|---------|----------|-----|---------|
| 6 | 0,995 | Lastkomb. A | Combination | Max | 534,59 | 28,81   | 21,252 | 0,003      | 0,9814  | 26,9463  | 6-1 | 0,99515 |
| 6 | 0,995 | Lastkomb. A | Combination | Max | 554,22 | 37,626  | -0,516 | 0,003      | 0,9814  | 26,9463  | 6-2 | 0       |
| 6 | 1,989 | Lastkomb. A | Combination | Max | 553,33 | 118,212 | -0,516 | 0,003      | 1,5459  | -34,1339 | 6-2 | 0,99415 |
| 6 | 1,989 | Lastkomb. A | Combination | Max | 553,33 | 118,212 | -0,516 | 0,003      | 1,5459  | -34,1339 | 6-2 | 0,99415 |
| 6 | 1,99  | Lastkomb. A | Combination | Max | 553,33 | 118,249 | -0,516 | 0,003      | 1,5465  | -34,1879 | 6-2 | 0,99515 |
| 6 | 0     | Lastkomb. A | Combination | Min | 91,893 | -45,492 | 4,006  | -0,0002857 | 4,262   | 0        | 6-1 | 0       |
| 6 | 0,995 | Lastkomb. A | Combination | Min | 91,009 | -8,663  | 4,006  | -0,0002857 | -2,0386 | -10,3453 | 6-1 | 0,99515 |
| 6 | 0,995 | Lastkomb. A | Combination | Min | 94,753 | 17,177  | -3,072 | -0,0002857 | -2,0386 | -10,3453 | 6-2 | 0       |
| 6 | 1,989 | Lastkomb. A | Combination | Min | 93,87  | 53,969  | -3,072 | -0,0002857 | 0,788   | -74,7928 | 6-2 | 0,99415 |
| 6 | 1,989 | Lastkomb. A | Combination | Min | 93,87  | 53,969  | -3,072 | -0,0002857 | 0,788   | -74,7928 | 6-2 | 0,99415 |
| 6 | 1,99  | Lastkomb. A | Combination | Min | 93,869 | 54,006  | -3,072 | -0,0002857 | 0,7885  | -74,8864 | 6-2 | 0,99515 |
| 7 | 0     | Lastkomb. A | Combination | Max | -308,7 | 0       | 0,239  | 0,0121     | -0,0113 | 0        | 7-1 | 0       |
| 7 | 0,68  | Lastkomb. A | Combination | Max | -308,3 | 0       | 0,239  | 0,0121     | -0,044  | 0        | 7-1 | 0,68    |
| 7 | 1,36  | Lastkomb. A | Combination | Max | -307,9 | 0       | 0,239  | 0,0121     | -0,0747 | 0        | 7-1 | 1,36    |
| 7 | 0     | Lastkomb. A | Combination | Min | -666,3 | 0       | 0,045  | 0,0086     | -0,0134 | 0        | 7-1 | 0       |
| 7 | 0,68  | Lastkomb. A | Combination | Min | -665,9 | 0       | 0,045  | 0,0086     | -0,174  | 0        | 7-1 | 0,68    |
| 7 | 1,36  | Lastkomb. A | Combination | Min | -665,5 | 0       | 0,045  | 0,0086     | -0,3366 | 0        | 7-1 | 1,36    |
| 8 | 0     | Lastkomb. A | Combination | Max | -965,1 | -7,16   | -0,166 | -0,0016    | -0,5527 | -17,6897 | 8-1 | 0       |
| 8 | 0,464 | Lastkomb. A | Combination | Max | -965,1 | -6,493  | -0,166 | -0,0016    | -0,4754 | -14,5203 | 8-1 | 0,46429 |
| 8 | 0,929 | Lastkomb. A | Combination | Max | -965,1 | -5,825  | -0,166 | -0,0016    | -0,3981 | -11,6607 | 8-1 | 0,92859 |
| 8 | 1,393 | Lastkomb. A | Combination | Max | -965,1 | -5,158  | -0,166 | -0,0016    | -0,318  | -9,111   | 8-1 | 1,39288 |
| 8 | 1,857 | Lastkomb. A | Combination | Max | -965,1 | -4,491  | -0,166 | -0,0016    | -0,2336 | -6,871   | 8-1 | 1,85717 |
| 8 | 2,321 | Lastkomb. A | Combination | Max | -965,1 | -3,823  | -0,166 | -0,0016    | -0,1491 | -4,9409  | 8-1 | 2,32146 |
| 8 | 2,786 | Lastkomb. A | Combination | Max | -965,1 | -3,156  | -0,166 | -0,0016    | -0,0646 | -2,8831  | 8-1 | 2,78576 |
| 8 | 3,25  | Lastkomb. A | Combination | Max | -965,1 | -2,489  | -0,166 | -0,0016    | 0,0199  | 0,1046   | 8-1 | 3,25005 |
| 8 | 0     | Lastkomb. A | Combination | Min | -1683  | -10,879 | -0,232 | -0,0028    | -0,8489 | -28,6348 | 8-1 | 0       |
| 8 | 0,464 | Lastkomb. A | Combination | Min | -1683  | -10,212 | -0,232 | -0,0028    | -0,7411 | -23,8351 | 8-1 | 0,46429 |
| 8 | 0,929 | Lastkomb. A | Combination | Min | -1683  | -9,545  | -0,232 | -0,0028    | -0,6332 | -19,3452 | 8-1 | 0,92859 |
| 8 | 1,393 | Lastkomb. A | Combination | Min | -1683  | -8,877  | -0,232 | -0,0028    | -0,5253 | -15,1652 | 8-1 | 1,39288 |
| 8 | 1,857 | Lastkomb. A | Combination | Min | -1683  | -8,21   | -0,232 | -0,0028    | -0,4175 | -11,3725 | 8-1 | 1,85717 |
| 8 | 2,321 | Lastkomb. A | Combination | Min | -1683  | -7,543  | -0,232 | -0,0028    | -0,3096 | -8,2417  | 8-1 | 2,32146 |
| 8 | 2,786 | Lastkomb. A | Combination | Min | -1683  | -6,875  | -0,232 | -0,0028    | -0,2017 | -6,0247  | 8-1 | 2,78576 |
| 8 | 3,25  | Lastkomb. A | Combination | Min | -1683  | -6,208  | -0,232 | -0,0028    | -0,0938 | -4,1329  | 8-1 | 3,25005 |

|    |       |             |             |     |        |        |         |           |         |              |         |
|----|-------|-------------|-------------|-----|--------|--------|---------|-----------|---------|--------------|---------|
| 9  | 0     | Lastkomb. A | Combination | Max | -964,9 | -1,77  | -0,166  | -0,0016   | 0,0197  | -0,6143 9-1  | 0       |
| 9  | 0,464 | Lastkomb. A | Combination | Max | -964,9 | -1,103 | -0,166  | -0,0016   | 0,1042  | 0,4027 9-1   | 0,46429 |
| 9  | 0,929 | Lastkomb. A | Combination | Max | -964,9 | -0,436 | -0,166  | -0,0016   | 0,1886  | 1,1098 9-1   | 0,92859 |
| 9  | 1,393 | Lastkomb. A | Combination | Max | -964,9 | 0,232  | -0,166  | -0,0016   | 0,2771  | 1,5072 9-1   | 1,39288 |
| 9  | 1,857 | Lastkomb. A | Combination | Max | -964,9 | 0,899  | -0,166  | -0,0016   | 0,3847  | 1,6935 9-1   | 1,85717 |
| 9  | 2,321 | Lastkomb. A | Combination | Max | -964,9 | 1,566  | -0,166  | -0,0016   | 0,4923  | 1,8204 9-1   | 2,32146 |
| 9  | 2,786 | Lastkomb. A | Combination | Max | -964,9 | 2,233  | -0,166  | -0,0016   | 0,5999  | 1,6375 9-1   | 2,78576 |
| 9  | 3,25  | Lastkomb. A | Combination | Max | -964,9 | 2,901  | -0,166  | -0,0016   | 0,7075  | 1,1602 9-1   | 3,25005 |
| 9  | 0     | Lastkomb. A | Combination | Min | -1683  | -3,525 | -0,232  | -0,0028   | -0,0941 | -4,6004 9-1  | 0       |
| 9  | 0,464 | Lastkomb. A | Combination | Min | -1683  | -2,858 | -0,232  | -0,0028   | 0,0137  | -3,6951 9-1  | 0,46429 |
| 9  | 0,929 | Lastkomb. A | Combination | Min | -1683  | -2,19  | -0,232  | -0,0028   | 0,1216  | -3,1038 9-1  | 0,92859 |
| 9  | 1,393 | Lastkomb. A | Combination | Min | -1683  | -1,523 | -0,232  | -0,0028   | 0,2198  | -2,8246 9-1  | 1,39288 |
| 9  | 1,857 | Lastkomb. A | Combination | Min | -1683  | -0,856 | -0,232  | -0,0028   | 0,297   | -2,8567 9-1  | 1,85717 |
| 9  | 2,321 | Lastkomb. A | Combination | Min | -1683  | -0,188 | -0,232  | -0,0028   | 0,3743  | -3,1986 9-1  | 2,32146 |
| 9  | 2,786 | Lastkomb. A | Combination | Min | -1683  | 0,479  | -0,232  | -0,0028   | 0,4515  | -3,8504 9-1  | 2,78576 |
| 9  | 3,25  | Lastkomb. A | Combination | Min | -1683  | 1,146  | -0,232  | -0,0028   | 0,5288  | -4,812 9-1   | 3,25005 |
| 10 | 0     | Lastkomb. A | Combination | Max | 776,49 | -3,37  | 0,00221 | 0,000956  | 0,143   | -3,2523 10-1 | 0       |
| 10 | 0,5   | Lastkomb. A | Combination | Max | 776,49 | -2,919 | 0,00221 | 0,000956  | 0,1419  | -1,4061 10-1 | 0,50001 |
| 10 | 1     | Lastkomb. A | Combination | Max | 776,49 | -2,468 | 0,00221 | 0,000956  | 0,1408  | 0,2477 10-1  | 1,00002 |
| 10 | 1,5   | Lastkomb. A | Combination | Max | 776,48 | -2,018 | 0,00221 | 0,000956  | 0,1397  | 1,6833 10-1  | 1,50002 |
| 10 | 2     | Lastkomb. A | Combination | Max | 776,48 | -1,567 | 0,00221 | 0,000956  | 0,1386  | 2,8935 10-1  | 2,00003 |
| 10 | 2,5   | Lastkomb. A | Combination | Max | 776,48 | -1,116 | 0,00221 | 0,000956  | 0,1374  | 3,8783 10-1  | 2,50004 |
| 10 | 3     | Lastkomb. A | Combination | Max | 776,48 | -0,665 | 0,00221 | 0,000956  | 0,1363  | 4,6376 10-1  | 3,00005 |
| 10 | 3,5   | Lastkomb. A | Combination | Max | 776,47 | -0,214 | 0,00221 | 0,000956  | 0,1396  | 5,2131 10-1  | 3,50005 |
| 10 | 4     | Lastkomb. A | Combination | Max | 776,47 | 0,237  | 0,00221 | 0,000956  | 0,1629  | 5,5874 10-1  | 4,00006 |
| 10 | 4,5   | Lastkomb. A | Combination | Max | 776,47 | 0,688  | 0,00221 | 0,000956  | 0,1861  | 5,8141 10-1  | 4,50007 |
| 10 | 5     | Lastkomb. A | Combination | Max | 776,47 | 1,138  | 0,00221 | 0,000956  | 0,2093  | 5,843 10-1   | 5,00008 |
| 10 | 5,5   | Lastkomb. A | Combination | Max | 776,46 | 1,589  | 0,00221 | 0,000956  | 0,2326  | 5,6464 10-1  | 5,50008 |
| 10 | 6     | Lastkomb. A | Combination | Max | 776,46 | 2,04   | 0,00221 | 0,000956  | 0,2558  | 5,2244 10-1  | 6,00009 |
| 10 | 6,5   | Lastkomb. A | Combination | Max | 776,46 | 2,491  | 0,00221 | 0,000956  | 0,2791  | 4,577 10-1   | 6,5001  |
| 10 | 0     | Lastkomb. A | Combination | Min | -396,7 | -4,62  | -0,046  | 0,0005083 | -0,0733 | -7,401 10-1  | 0       |
| 10 | 0,5   | Lastkomb. A | Combination | Min | -396,7 | -4,169 | -0,046  | 0,0005083 | -0,0511 | -5,6443 10-1 | 0,50001 |
| 10 | 1     | Lastkomb. A | Combination | Min | -396,7 | -3,719 | -0,046  | 0,0005083 | -0,0289 | -4,113 10-1  | 1,00002 |



|    |                 |             |     |        |        |          |           |           |         |      |         |
|----|-----------------|-------------|-----|--------|--------|----------|-----------|-----------|---------|------|---------|
| 10 | 1,5 Lastkomb. A | Combination | Min | -396,7 | -3,268 | -0,046   | 0,0005083 | -0,0067   | -2,8072 | 10-1 | 1,50002 |
| 10 | 2 Lastkomb. A   | Combination | Min | -396,7 | -2,817 | -0,046   | 0,0005083 | 0,0155    | -1,7268 | 10-1 | 2,00003 |
| 10 | 2,5 Lastkomb. A | Combination | Min | -396,7 | -2,366 | -0,046   | 0,0005083 | 0,0374    | -0,8719 | 10-1 | 2,50004 |
| 10 | 3 Lastkomb. A   | Combination | Min | -396,7 | -1,915 | -0,046   | 0,0005083 | 0,0585    | -0,2424 | 10-1 | 3,00005 |
| 10 | 3,5 Lastkomb. A | Combination | Min | -396,7 | -1,464 | -0,046   | 0,0005083 | 0,0766    | 0,1617  | 10-1 | 3,50005 |
| 10 | 4 Lastkomb. A   | Combination | Min | -396,8 | -1,013 | -0,046   | 0,0005083 | 0,09      | 0,3404  | 10-1 | 4,00006 |
| 10 | 4,5 Lastkomb. A | Combination | Min | -396,8 | -0,562 | -0,046   | 0,0005083 | 0,0957    | 0,2936  | 10-1 | 4,50007 |
| 10 | 5 Lastkomb. A   | Combination | Min | -396,8 | -0,112 | -0,046   | 0,0005083 | 0,1013    | 0,0214  | 10-1 | 5,00008 |
| 10 | 5,5 Lastkomb. A | Combination | Min | -396,8 | 0,339  | -0,046   | 0,0005083 | 0,107     | -0,4763 | 10-1 | 5,50008 |
| 10 | 6 Lastkomb. A   | Combination | Min | -396,8 | 0,79   | -0,046   | 0,0005083 | 0,1126    | -1,1994 | 10-1 | 6,00009 |
| 10 | 6,5 Lastkomb. A | Combination | Min | -396,8 | 1,241  | -0,046   | 0,0005083 | 0,1183    | -2,1479 | 10-1 | 6,5001  |
| 11 | 0 Lastkomb. A   | Combination | Max | 1818,8 | -4,299 | -0,00093 | 0,0015    | -0,1085   | 1,9926  | 11-1 | 0       |
| 11 | 0,5 Lastkomb. A | Combination | Max | 1818,8 | -3,619 | -0,00093 | 0,0015    | -0,1065   | 4,2151  | 11-1 | 0,50001 |
| 11 | 1 Lastkomb. A   | Combination | Max | 1818,8 | -2,939 | -0,00093 | 0,0015    | -0,1038   | 6,0974  | 11-1 | 1,00002 |
| 11 | 1,5 Lastkomb. A | Combination | Max | 1818,8 | -2,258 | -0,00093 | 0,0015    | -0,1011   | 7,6701  | 11-1 | 1,50002 |
| 11 | 2 Lastkomb. A   | Combination | Max | 1818,8 | -1,578 | -0,00093 | 0,0015    | -0,0971   | 8,9828  | 11-1 | 2,00003 |
| 11 | 2,5 Lastkomb. A | Combination | Max | 1818,7 | -0,898 | -0,00093 | 0,0015    | -0,0876   | 10,0411 | 11-1 | 2,50004 |
| 11 | 3 Lastkomb. A   | Combination | Max | 1818,7 | -0,217 | -0,00093 | 0,0015    | -0,0657   | 10,7592 | 11-1 | 3,00005 |
| 11 | 3,5 Lastkomb. A | Combination | Max | 1818,7 | 0,463  | -0,00093 | 0,0015    | -0,0438   | 11,1919 | 11-1 | 3,50005 |
| 11 | 4 Lastkomb. A   | Combination | Max | 1818,7 | 1,144  | -0,00093 | 0,0015    | -0,0219   | 11,3532 | 11-1 | 4,00006 |
| 11 | 4,5 Lastkomb. A | Combination | Max | 1818,7 | 1,824  | -0,00093 | 0,0015    | 4,805E-05 | 11,2089 | 11-1 | 4,50007 |
| 11 | 5 Lastkomb. A   | Combination | Max | 1818,7 | 2,504  | -0,00093 | 0,0015    | 0,0223    | 10,7676 | 11-1 | 5,00008 |
| 11 | 5,5 Lastkomb. A | Combination | Max | 1818,7 | 3,185  | -0,00093 | 0,0015    | 0,0446    | 9,9897  | 11-1 | 5,50008 |
| 11 | 6 Lastkomb. A   | Combination | Max | 1818,7 | 3,865  | -0,00093 | 0,0015    | 0,0669    | 8,8931  | 11-1 | 6,00009 |
| 11 | 6,5 Lastkomb. A | Combination | Max | 1818,7 | 4,546  | -0,00093 | 0,0015    | 0,0976    | 7,4747  | 11-1 | 6,5001  |
| 11 | 0 Lastkomb. A   | Combination | Min | 341,85 | -6,062 | -0,062   | 0,0007974 | -0,3064   | -4,3563 | 11-1 | 0       |
| 11 | 0,5 Lastkomb. A | Combination | Min | 341,85 | -5,382 | -0,062   | 0,0007974 | -0,2754   | -1,9978 | 11-1 | 0,50001 |
| 11 | 1 Lastkomb. A   | Combination | Min | 341,84 | -4,702 | -0,062   | 0,0007974 | -0,2443   | 0,0205  | 11-1 | 1,00002 |
| 11 | 1,5 Lastkomb. A | Combination | Min | 341,84 | -4,021 | -0,062   | 0,0007974 | -0,2132   | 1,6986  | 11-1 | 1,50002 |
| 11 | 2 Lastkomb. A   | Combination | Min | 341,84 | -3,341 | -0,062   | 0,0007974 | -0,1821   | 3,0365  | 11-1 | 2,00003 |
| 11 | 2,5 Lastkomb. A | Combination | Min | 341,83 | -2,66  | -0,062   | 0,0007974 | -0,151    | 4,0343  | 11-1 | 2,50004 |
| 11 | 3 Lastkomb. A   | Combination | Min | 341,83 | -1,98  | -0,062   | 0,0007974 | -0,1344   | 4,6918  | 11-1 | 3,00005 |
| 11 | 3,5 Lastkomb. A | Combination | Min | 341,82 | -1,3   | -0,062   | 0,0007974 | -0,1328   | 5,0091  | 11-1 | 3,50005 |

|    |                 |             |     |        |        |        |           |         |         |      |         |
|----|-----------------|-------------|-----|--------|--------|--------|-----------|---------|---------|------|---------|
| 11 | 4 Lastkomb. A   | Combination | Min | 341,82 | -0,619 | -0,062 | 0,0007974 | -0,1323 | 4,9862  | 11-1 | 4,00006 |
| 11 | 4,5 Lastkomb. A | Combination | Min | 341,82 | 0,061  | -0,062 | 0,0007974 | -0,1319 | 4,6231  | 11-1 | 4,50007 |
| 11 | 5 Lastkomb. A   | Combination | Min | 341,81 | 0,742  | -0,062 | 0,0007974 | -0,1314 | 3,9199  | 11-1 | 5,00008 |
| 11 | 5,5 Lastkomb. A | Combination | Min | 341,81 | 1,422  | -0,062 | 0,0007974 | -0,1309 | 2,8764  | 11-1 | 5,50008 |
| 11 | 6 Lastkomb. A   | Combination | Min | 341,81 | 2,102  | -0,062 | 0,0007974 | -0,1305 | 1,4885  | 11-1 | 6,00009 |
| 11 | 6,5 Lastkomb. A | Combination | Min | 341,8  | 2,783  | -0,062 | 0,0007974 | -0,13   | -0,4019 | 11-1 | 6,5001  |
| 12 | 0 Lastkomb. A   | Combination | Max | 2080,9 | -3,675 | -0,016 | 0,0001503 | -0,2161 | 6,6921  | 12-1 | 0       |
| 12 | 0,5 Lastkomb. A | Combination | Max | 2080,9 | -2,918 | -0,016 | 0,0001503 | -0,2018 | 8,4151  | 12-1 | 0,50001 |
| 12 | 1 Lastkomb. A   | Combination | Max | 2080,9 | -2,161 | -0,016 | 0,0001503 | -0,1803 | 9,9415  | 12-1 | 1,00002 |
| 12 | 1,5 Lastkomb. A | Combination | Max | 2080,9 | -1,404 | -0,016 | 0,0001503 | -0,1587 | 11,1157 | 12-1 | 1,50002 |
| 12 | 2 Lastkomb. A   | Combination | Max | 2080,9 | -0,647 | -0,016 | 0,0001503 | -0,1371 | 11,9737 | 12-1 | 2,00003 |
| 12 | 2,5 Lastkomb. A | Combination | Max | 2080,9 | 0,11   | -0,016 | 0,0001503 | -0,1154 | 12,5003 | 12-1 | 2,50004 |
| 12 | 3 Lastkomb. A   | Combination | Max | 2080,9 | 0,866  | -0,016 | 0,0001503 | -0,0938 | 12,7039 | 12-1 | 3,00005 |
| 12 | 3,5 Lastkomb. A | Combination | Max | 2080,9 | 1,623  | -0,016 | 0,0001503 | -0,0683 | 12,5773 | 12-1 | 3,50005 |
| 12 | 4 Lastkomb. A   | Combination | Max | 2080,9 | 2,38   | -0,016 | 0,0001503 | -0,0404 | 12,1578 | 12-1 | 4,00006 |
| 12 | 4,5 Lastkomb. A | Combination | Max | 2080,9 | 3,137  | -0,016 | 0,0001503 | -0,0126 | 11,3866 | 12-1 | 4,50007 |
| 12 | 5 Lastkomb. A   | Combination | Max | 2080,9 | 3,894  | -0,016 | 0,0001503 | 0,0153  | 10,3474 | 12-1 | 5,00008 |
| 12 | 5,5 Lastkomb. A | Combination | Max | 2080,9 | 4,651  | -0,016 | 0,0001503 | 0,0432  | 8,9526  | 12-1 | 5,50008 |
| 12 | 6 Lastkomb. A   | Combination | Max | 2080,9 | 5,408  | -0,016 | 0,0001503 | 0,0711  | 7,2834  | 12-1 | 6,00009 |
| 12 | 6,5 Lastkomb. A | Combination | Max | 2080,9 | 6,165  | -0,016 | 0,0001503 | 0,1092  | 5,3769  | 12-1 | 6,5001  |
| 12 | 0 Lastkomb. A   | Combination | Min | 538,54 | -5,77  | -0,086 | -0,000141 | -0,4556 | -1,7471 | 12-1 | 0       |
| 12 | 0,5 Lastkomb. A | Combination | Min | 538,54 | -5,013 | -0,086 | -0,000141 | -0,4136 | 0,5733  | 12-1 | 0,50001 |
| 12 | 1 Lastkomb. A   | Combination | Min | 538,53 | -4,256 | -0,086 | -0,000141 | -0,3788 | 2,5152  | 12-1 | 1,00002 |
| 12 | 1,5 Lastkomb. A | Combination | Min | 538,53 | -3,499 | -0,086 | -0,000141 | -0,3458 | 4,0787  | 12-1 | 1,50002 |
| 12 | 2 Lastkomb. A   | Combination | Min | 538,53 | -2,742 | -0,086 | -0,000141 | -0,3128 | 5,2638  | 12-1 | 2,00003 |
| 12 | 2,5 Lastkomb. A | Combination | Min | 538,52 | -1,985 | -0,086 | -0,000141 | -0,2819 | 6,0703  | 12-1 | 2,50004 |
| 12 | 3 Lastkomb. A   | Combination | Min | 538,52 | -1,228 | -0,086 | -0,000141 | -0,2511 | 6,4639  | 12-1 | 3,00005 |
| 12 | 3,5 Lastkomb. A | Combination | Min | 538,51 | -0,471 | -0,086 | -0,000141 | -0,2244 | 6,2891  | 12-1 | 3,50005 |
| 12 | 4 Lastkomb. A   | Combination | Min | 538,51 | 0,286  | -0,086 | -0,000141 | -0,2029 | 5,7358  | 12-1 | 4,00006 |
| 12 | 4,5 Lastkomb. A | Combination | Min | 538,5  | 1,042  | -0,086 | -0,000141 | -0,1828 | 4,8041  | 12-1 | 4,50007 |
| 12 | 5 Lastkomb. A   | Combination | Min | 538,5  | 1,799  | -0,086 | -0,000141 | -0,1627 | 3,4939  | 12-1 | 5,00008 |
| 12 | 5,5 Lastkomb. A | Combination | Min | 538,5  | 2,556  | -0,086 | -0,000141 | -0,1438 | 1,8053  | 12-1 | 5,50008 |
| 12 | 6 Lastkomb. A   | Combination | Min | 538,49 | 3,313  | -0,086 | -0,000141 | -0,131  | -0,2618 | 12-1 | 6,00009 |



|    |                 |             |     |        |        |        |            |         |         |      |         |
|----|-----------------|-------------|-----|--------|--------|--------|------------|---------|---------|------|---------|
| 12 | 6,5 Lastkomb. A | Combination | Min | 538,49 | 4,07   | -0,086 | -0,000141  | -0,1226 | -2,7073 | 12-1 | 6,5001  |
| 13 | 0 Lastkomb. A   | Combination | Max | 1599,7 | -2,109 | -0,083 | -0,0011    | -0,269  | 7,2792  | 13-1 | 0       |
| 13 | 0,5 Lastkomb. A | Combination | Max | 1599,7 | -1,505 | -0,083 | -0,0011    | -0,2276 | 8,3667  | 13-1 | 0,50001 |
| 13 | 1 Lastkomb. A   | Combination | Max | 1599,7 | -0,901 | -0,083 | -0,0011    | -0,1842 | 9,1523  | 13-1 | 1,00002 |
| 13 | 1,5 Lastkomb. A | Combination | Max | 1599,7 | -0,297 | -0,083 | -0,0011    | -0,1373 | 9,636   | 13-1 | 1,50002 |
| 13 | 2 Lastkomb. A   | Combination | Max | 1599,7 | 0,307  | -0,083 | -0,0011    | -0,0904 | 9,8654  | 13-1 | 2,00003 |
| 13 | 2,5 Lastkomb. A | Combination | Max | 1599,7 | 0,911  | -0,083 | -0,0011    | -0,0435 | 9,8288  | 13-1 | 2,50004 |
| 13 | 3 Lastkomb. A   | Combination | Max | 1599,7 | 1,515  | -0,083 | -0,0011    | 0,0034  | 9,5387  | 13-1 | 3,00005 |
| 13 | 3,5 Lastkomb. A | Combination | Max | 1599,7 | 2,119  | -0,083 | -0,0011    | 0,0503  | 8,9994  | 13-1 | 3,50005 |
| 13 | 4 Lastkomb. A   | Combination | Max | 1599,7 | 2,722  | -0,083 | -0,0011    | 0,0981  | 8,2233  | 13-1 | 4,00006 |
| 13 | 4,5 Lastkomb. A | Combination | Max | 1599,7 | 3,326  | -0,083 | -0,0011    | 0,1588  | 7,1499  | 13-1 | 4,50007 |
| 13 | 5 Lastkomb. A   | Combination | Max | 1599,7 | 3,93   | -0,083 | -0,0011    | 0,2238  | 5,8888  | 13-1 | 5,00008 |
| 13 | 5,5 Lastkomb. A | Combination | Max | 1599,7 | 4,534  | -0,083 | -0,0011    | 0,289   | 4,3565  | 13-1 | 5,50008 |
| 13 | 6 Lastkomb. A   | Combination | Max | 1599,7 | 5,138  | -0,083 | -0,0011    | 0,3551  | 2,5742  | 13-1 | 6,00009 |
| 13 | 6,5 Lastkomb. A | Combination | Max | 1599,7 | 5,742  | -0,083 | -0,0011    | 0,4212  | 0,6676  | 13-1 | 6,5001  |
| 13 | 0 Lastkomb. A   | Combination | Min | 124,96 | -3,841 | -0,136 | -0,0015    | -0,4929 | -0,3526 | 13-1 | 0       |
| 13 | 0,5 Lastkomb. A | Combination | Min | 124,96 | -3,237 | -0,136 | -0,0015    | -0,4248 | 1,0709  | 13-1 | 0,50001 |
| 13 | 1 Lastkomb. A   | Combination | Min | 124,96 | -2,633 | -0,136 | -0,0015    | -0,3568 | 2,1924  | 13-1 | 1,00002 |
| 13 | 1,5 Lastkomb. A | Combination | Min | 124,95 | -2,029 | -0,136 | -0,0015    | -0,2888 | 3,0118  | 13-1 | 1,50002 |
| 13 | 2 Lastkomb. A   | Combination | Min | 124,95 | -1,425 | -0,136 | -0,0015    | -0,2208 | 3,5292  | 13-1 | 2,00003 |
| 13 | 2,5 Lastkomb. A | Combination | Min | 124,95 | -0,821 | -0,136 | -0,0015    | -0,1527 | 3,7446  | 13-1 | 2,50004 |
| 13 | 3 Lastkomb. A   | Combination | Min | 124,94 | -0,217 | -0,136 | -0,0015    | -0,085  | 3,6581  | 13-1 | 3,00005 |
| 13 | 3,5 Lastkomb. A | Combination | Min | 124,94 | 0,387  | -0,136 | -0,0015    | -0,0186 | 3,2697  | 13-1 | 3,50005 |
| 13 | 4 Lastkomb. A   | Combination | Min | 124,94 | 0,99   | -0,136 | -0,0015    | 0,047   | 2,5793  | 13-1 | 4,00006 |
| 13 | 4,5 Lastkomb. A | Combination | Min | 124,93 | 1,594  | -0,136 | -0,0015    | 0,1029  | 1,587   | 13-1 | 4,50007 |
| 13 | 5 Lastkomb. A   | Combination | Min | 124,93 | 2,198  | -0,136 | -0,0015    | 0,1442  | 0,2928  | 13-1 | 5,00008 |
| 13 | 5,5 Lastkomb. A | Combination | Min | 124,93 | 2,802  | -0,136 | -0,0015    | 0,1855  | -1,3034 | 13-1 | 5,50008 |
| 13 | 6 Lastkomb. A   | Combination | Min | 124,92 | 3,406  | -0,136 | -0,0015    | 0,2268  | -3,2016 | 13-1 | 6,00009 |
| 13 | 6,5 Lastkomb. A | Combination | Min | 124,92 | 4,01   | -0,136 | -0,0015    | 0,2681  | -5,4017 | 13-1 | 6,5001  |
| 14 | 0 Lastkomb. A   | Combination | Max | 443,18 | -1,242 | -0,021 | 0,00009986 | -0,0139 | 3,157   | 14-1 | 0       |
| 14 | 0,5 Lastkomb. A | Combination | Max | 443,17 | -0,791 | -0,021 | 0,00009986 | -0,0035 | 3,7405  | 14-1 | 0,50001 |
| 14 | 1 Lastkomb. A   | Combination | Max | 443,17 | -0,34  | -0,021 | 0,00009986 | 0,0068  | 4,0986  | 14-1 | 1,00002 |
| 14 | 1,5 Lastkomb. A | Combination | Max | 443,17 | 0,111  | -0,021 | 0,00009986 | 0,0171  | 4,2392  | 14-1 | 1,50002 |

|    |       |             |             |     |        |         |        |            |         |         |      |         |
|----|-------|-------------|-------------|-----|--------|---------|--------|------------|---------|---------|------|---------|
| 14 | 2     | Lastkomb. A | Combination | Max | 443,17 | 0,562   | -0,021 | 0,00009986 | 0,0275  | 4,1806  | 14-1 | 2,00003 |
| 14 | 2,5   | Lastkomb. A | Combination | Max | 443,16 | 1,012   | -0,021 | 0,00009986 | 0,0378  | 3,9174  | 14-1 | 2,50004 |
| 14 | 3     | Lastkomb. A | Combination | Max | 443,16 | 1,463   | -0,021 | 0,00009986 | 0,0482  | 3,4884  | 14-1 | 3,00005 |
| 14 | 3,5   | Lastkomb. A | Combination | Max | 443,16 | 1,914   | -0,021 | 0,00009986 | 0,0585  | 2,834   | 14-1 | 3,50005 |
| 14 | 4     | Lastkomb. A | Combination | Max | 443,16 | 2,365   | -0,021 | 0,00009986 | 0,0764  | 1,9542  | 14-1 | 4,00006 |
| 14 | 4,5   | Lastkomb. A | Combination | Max | 443,16 | 2,816   | -0,021 | 0,00009986 | 0,1012  | 0,8791  | 14-1 | 4,50007 |
| 14 | 5     | Lastkomb. A | Combination | Max | 443,15 | 3,267   | -0,021 | 0,00009986 | 0,1261  | -0,3977 | 14-1 | 5,00008 |
| 14 | 5,5   | Lastkomb. A | Combination | Max | 443,15 | 3,718   | -0,021 | 0,00009986 | 0,1509  | -1,8999 | 14-1 | 5,50008 |
| 14 | 6     | Lastkomb. A | Combination | Max | 443,15 | 4,168   | -0,021 | 0,00009986 | 0,1758  | -3,6276 | 14-1 | 6,00009 |
| 14 | 6,5   | Lastkomb. A | Combination | Max | 443,15 | 4,619   | -0,021 | 0,00009986 | 0,2007  | -5,3252 | 14-1 | 6,5001  |
| 14 | 0     | Lastkomb. A | Combination | Min | -707,6 | -2,318  | -0,05  | -8,983E-06 | -0,1427 | -3,16   | 14-1 | 0       |
| 14 | 0,5   | Lastkomb. A | Combination | Min | -707,6 | -1,867  | -0,05  | -8,983E-06 | -0,1246 | -2,2002 | 14-1 | 0,50001 |
| 14 | 1     | Lastkomb. A | Combination | Min | -707,6 | -1,416  | -0,05  | -8,983E-06 | -0,1065 | -1,4659 | 14-1 | 1,00002 |
| 14 | 1,5   | Lastkomb. A | Combination | Min | -707,6 | -0,965  | -0,05  | -8,983E-06 | -0,0884 | -0,957  | 14-1 | 1,50002 |
| 14 | 2     | Lastkomb. A | Combination | Min | -707,6 | -0,514  | -0,05  | -8,983E-06 | -0,0704 | -0,6743 | 14-1 | 2,00003 |
| 14 | 2,5   | Lastkomb. A | Combination | Min | -707,6 | -0,063  | -0,05  | -8,983E-06 | -0,0525 | -0,6171 | 14-1 | 2,50004 |
| 14 | 3     | Lastkomb. A | Combination | Min | -707,6 | 0,388   | -0,05  | -8,983E-06 | -0,0345 | -0,7854 | 14-1 | 3,00005 |
| 14 | 3,5   | Lastkomb. A | Combination | Min | -707,6 | 0,838   | -0,05  | -8,983E-06 | -0,0166 | -1,1791 | 14-1 | 3,50005 |
| 14 | 4     | Lastkomb. A | Combination | Min | -707,6 | 1,289   | -0,05  | -8,983E-06 | 0,0014  | -1,7982 | 14-1 | 4,00006 |
| 14 | 4,5   | Lastkomb. A | Combination | Min | -707,6 | 1,74    | -0,05  | -8,983E-06 | 0,0192  | -2,6428 | 14-1 | 4,50007 |
| 14 | 5     | Lastkomb. A | Combination | Min | -707,6 | 2,191   | -0,05  | -8,983E-06 | 0,0357  | -3,7128 | 14-1 | 5,00008 |
| 14 | 5,5   | Lastkomb. A | Combination | Min | -707,6 | 2,642   | -0,05  | -8,983E-06 | 0,0515  | -5,0083 | 14-1 | 5,50008 |
| 14 | 6     | Lastkomb. A | Combination | Min | -707,6 | 3,093   | -0,05  | -8,983E-06 | 0,0663  | -6,5291 | 14-1 | 6,00009 |
| 14 | 6,5   | Lastkomb. A | Combination | Min | -707,6 | 3,544   | -0,05  | -8,983E-06 | 0,0808  | -8,4622 | 14-1 | 6,5001  |
| 15 | 0     | Lastkomb. A | Combination | Max | -1182  | -8,162  | -0,118 | 0,0045     | -0,3001 | -2,6975 | 15-1 | 0       |
| 15 | 0,464 | Lastkomb. A | Combination | Max | -1182  | -7,365  | -0,118 | 0,0045     | -0,2437 | 2,1425  | 15-1 | 0,46429 |
| 15 | 0,929 | Lastkomb. A | Combination | Max | -1182  | -6,567  | -0,118 | 0,0045     | -0,1872 | 6,6122  | 15-1 | 0,92859 |
| 15 | 1,393 | Lastkomb. A | Combination | Max | -1182  | -5,77   | -0,118 | 0,0045     | -0,1308 | 10,7116 | 15-1 | 1,39288 |
| 15 | 1,857 | Lastkomb. A | Combination | Max | -1182  | -4,972  | -0,118 | 0,0045     | -0,0744 | 14,4407 | 15-1 | 1,85717 |
| 15 | 2,321 | Lastkomb. A | Combination | Max | -1182  | -4,174  | -0,118 | 0,0045     | -0,0179 | 17,7996 | 15-1 | 2,32146 |
| 15 | 2,786 | Lastkomb. A | Combination | Max | -1182  | -3,377  | -0,118 | 0,0045     | 0,0385  | 20,882  | 15-1 | 2,78576 |
| 15 | 3,25  | Lastkomb. A | Combination | Max | -1182  | -2,579  | -0,118 | 0,0045     | 0,099   | 23,6259 | 15-1 | 3,25005 |
| 15 | 0     | Lastkomb. A | Combination | Min | -1979  | -11,411 | -0,146 | 0,0031     | -0,4076 | -6,6448 | 15-1 | 0       |



|    |       |             |             |     |        |         |        |            |         |          |      |         |
|----|-------|-------------|-------------|-----|--------|---------|--------|------------|---------|----------|------|---------|
| 15 | 0,464 | Lastkomb. A | Combination | Min | -1979  | -10,614 | -0,146 | 0,0031     | -0,3407 | -2,4572  | 15-1 | 0,46429 |
| 15 | 0,929 | Lastkomb. A | Combination | Min | -1979  | -9,816  | -0,146 | 0,0031     | -0,2743 | 1,3279   | 15-1 | 0,92859 |
| 15 | 1,393 | Lastkomb. A | Combination | Min | -1979  | -9,019  | -0,146 | 0,0031     | -0,2079 | 4,6994   | 15-1 | 1,39288 |
| 15 | 1,857 | Lastkomb. A | Combination | Min | -1979  | -8,221  | -0,146 | 0,0031     | -0,1423 | 7,4811   | 15-1 | 1,85717 |
| 15 | 2,321 | Lastkomb. A | Combination | Min | -1979  | -7,423  | -0,146 | 0,0031     | -0,0789 | 9,6044   | 15-1 | 2,32146 |
| 15 | 2,786 | Lastkomb. A | Combination | Min | -1979  | -6,626  | -0,146 | 0,0031     | -0,02   | 11,3574  | 15-1 | 2,78576 |
| 15 | 3,25  | Lastkomb. A | Combination | Min | -1979  | -5,828  | -0,146 | 0,0031     | 0,0347  | 12,7402  | 15-1 | 3,25005 |
| 16 | 0     | Lastkomb. A | Combination | Max | -1182  | 27,869  | -0,118 | 0,0045     | 0,0989  | 24,8006  | 16-1 | 0       |
| 16 | 0,464 | Lastkomb. A | Combination | Max | -1182  | 28,666  | -0,118 | 0,0045     | 0,1637  | 11,7943  | 16-1 | 0,46429 |
| 16 | 0,929 | Lastkomb. A | Combination | Max | -1182  | 29,464  | -0,118 | 0,0045     | 0,2284  | -1,5095  | 16-1 | 0,92859 |
| 16 | 1,393 | Lastkomb. A | Combination | Max | -1182  | 30,262  | -0,118 | 0,0045     | 0,2931  | -11,8043 | 16-1 | 1,39288 |
| 16 | 1,857 | Lastkomb. A | Combination | Max | -1182  | 31,059  | -0,118 | 0,0045     | 0,3578  | -21,1885 | 16-1 | 1,85717 |
| 16 | 2,321 | Lastkomb. A | Combination | Max | -1182  | 31,857  | -0,118 | 0,0045     | 0,4225  | -30,9431 | 16-1 | 2,32146 |
| 16 | 2,786 | Lastkomb. A | Combination | Max | -1182  | 32,654  | -0,118 | 0,0045     | 0,4875  | -40,9333 | 16-1 | 2,78576 |
| 16 | 3,25  | Lastkomb. A | Combination | Max | -1182  | 33,452  | -0,118 | 0,0045     | 0,553   | -51,2911 | 16-1 | 3,25005 |
| 16 | 0     | Lastkomb. A | Combination | Min | -1979  | 17,125  | -0,146 | 0,0031     | 0,0346  | 13,4369  | 16-1 | 0       |
| 16 | 0,464 | Lastkomb. A | Combination | Min | -1979  | 17,922  | -0,146 | 0,0031     | 0,0894  | 4,4689   | 16-1 | 0,46429 |
| 16 | 0,929 | Lastkomb. A | Combination | Min | -1979  | 18,72   | -0,146 | 0,0031     | 0,1441  | -7,0968  | 16-1 | 0,92859 |
| 16 | 1,393 | Lastkomb. A | Combination | Min | -1979  | 19,517  | -0,146 | 0,0031     | 0,1988  | -19,2655 | 16-1 | 1,39288 |
| 16 | 1,857 | Lastkomb. A | Combination | Min | -1979  | 20,315  | -0,146 | 0,0031     | 0,2535  | -31,8519 | 16-1 | 1,85717 |
| 16 | 2,321 | Lastkomb. A | Combination | Min | -1979  | 21,112  | -0,146 | 0,0031     | 0,3082  | -44,9829 | 16-1 | 2,32146 |
| 16 | 2,786 | Lastkomb. A | Combination | Min | -1979  | 21,91   | -0,146 | 0,0031     | 0,3629  | -59,9296 | 16-1 | 2,78576 |
| 16 | 3,25  | Lastkomb. A | Combination | Min | -1979  | 22,707  | -0,146 | 0,0031     | 0,4177  | -75,2591 | 16-1 | 3,25005 |
| 17 | 0     | Lastkomb. A | Combination | Max | -0,214 | 0       | 0,495  | -0,0001801 | 0,8348  | 0        | 17-1 | 0       |
| 17 | 1,717 | Lastkomb. A | Combination | Max | 0,298  | 0       | 0,495  | -0,0001801 | 0,0728  | 0        | 17-1 | 1,717   |
| 17 | 3,434 | Lastkomb. A | Combination | Max | 0,809  | 0       | 0,495  | -0,0001801 | -0,2228 | 0        | 17-1 | 3,434   |
| 17 | 0     | Lastkomb. A | Combination | Min | -3,714 | 0       | 0,172  | -0,000313  | 0,3684  | 0        | 17-1 | 0       |
| 17 | 1,717 | Lastkomb. A | Combination | Min | -3,203 | 0       | 0,172  | -0,000313  | -0,0145 | 0        | 17-1 | 1,717   |
| 17 | 3,434 | Lastkomb. A | Combination | Min | -2,691 | 0       | 0,172  | -0,000313  | -0,8637 | 0        | 17-1 | 3,434   |
| 18 | 0     | Lastkomb. A | Combination | Max | -98,45 | 0       | 1,989  | -0,0001351 | 3,1758  | 0        | 18-1 | 0       |
| 18 | 1,751 | Lastkomb. A | Combination | Max | -97,78 | 0       | 1,989  | -0,0001351 | 0,2019  | 0        | 18-1 | 1,751   |
| 18 | 3,502 | Lastkomb. A | Combination | Max | -97,11 | 0       | 1,989  | -0,0001351 | -0,7446 | 0        | 18-1 | 3,502   |
| 18 | 0     | Lastkomb. A | Combination | Min | -260   | 0       | 0,541  | -0,0002608 | 1,1483  | 0        | 18-1 | 0       |

|    |       |             |             |     |        |          |         |            |         |          |      |         |
|----|-------|-------------|-------------|-----|--------|----------|---------|------------|---------|----------|------|---------|
| 18 | 1,751 | Lastkomb. A | Combination | Min | -259,4 | 0        | 0,541   | -0,0002608 | -0,3069 | 0        | 18-1 | 1,751   |
| 18 | 3,502 | Lastkomb. A | Combination | Min | -258,7 | 0        | 0,541   | -0,0002608 | -3,7897 | 0        | 18-1 | 3,502   |
| 19 | 0     | Lastkomb. A | Combination | Max | -504,2 | -45,423  | -4,446  | 0,0042     | -1,5434 | -10,0163 | 19-1 | 0       |
| 19 | 0,5   | Lastkomb. A | Combination | Max | -504,5 | -26,91   | -4,446  | 0,0042     | 1,5629  | 30,9855  | 19-1 | 0,50017 |
| 19 | 0,5   | Lastkomb. A | Combination | Max | -514,4 | -26,382  | 1,707   | 0,0042     | 1,5629  | 30,9855  | 19-2 | 0       |
| 19 | 1,438 | Lastkomb. A | Combination | Max | -514,9 | 8,33     | 1,707   | 0,0042     | 0,1297  | 65,8655  | 19-2 | 0,93781 |
| 19 | 1,501 | Lastkomb. A | Combination | Max | -515   | 10,644   | 1,707   | 0,0042     | 0,0848  | 67,898   | 19-2 | 1,00033 |
| 19 | 1,501 | Lastkomb. A | Combination | Max | -528,3 | 20,662   | 0,022   | 0,0042     | 0,0848  | 67,898   | 19-3 | 0       |
| 19 | 2,501 | Lastkomb. A | Combination | Max | -528,9 | 95,708   | 0,022   | 0,0042     | 0,0628  | 3,8176   | 19-3 | 1,00033 |
| 19 | 2,501 | Lastkomb. A | Combination | Max | -545,8 | 114,706  | 0,054   | 0,0042     | 0,0628  | 3,8176   | 19-4 | 0       |
| 19 | 2,875 | Lastkomb. A | Combination | Max | -546   | 165,696  | 0,054   | 0,0042     | 0,0427  | -19,5784 | 19-4 | 0,37412 |
| 19 | 2,875 | Lastkomb. A | Combination | Max | -546   | 165,696  | 0,054   | 0,0042     | 0,0427  | -19,5784 | 19-4 | 0,37412 |
| 19 | 2,876 | Lastkomb. A | Combination | Max | -546   | 165,733  | 0,054   | 0,0042     | 0,0427  | -19,6334 | 19-4 | 0,37512 |
| 19 | 0     | Lastkomb. A | Combination | Min | -1297  | -144,989 | -12,077 | 0,0018     | -4,4791 | -40,5032 | 19-1 | 0       |
| 19 | 0,5   | Lastkomb. A | Combination | Min | -1297  | -126,475 | -12,077 | 0,0018     | 0,6014  | 0,5074   | 19-1 | 0,50017 |
| 19 | 0,5   | Lastkomb. A | Combination | Min | -1297  | -87,535  | 0,649   | 0,0018     | 0,6014  | 0,5074   | 19-2 | 0       |
| 19 | 1,438 | Lastkomb. A | Combination | Min | -1296  | -33,667  | 0,649   | 0,0018     | -0,0645 | 16,5377  | 19-2 | 0,93781 |
| 19 | 1,501 | Lastkomb. A | Combination | Min | -1297  | -31,353  | 0,649   | 0,0018     | -0,1592 | 15,9445  | 19-2 | 1,00033 |
| 19 | 1,501 | Lastkomb. A | Combination | Min | -1305  | 2,474    | -0,064  | 0,0018     | -0,1592 | 15,9445  | 19-3 | 0       |
| 19 | 2,501 | Lastkomb. A | Combination | Min | -1305  | 39,5     | -0,064  | 0,0018     | -0,1139 | -14,7643 | 19-3 | 1,00033 |
| 19 | 2,501 | Lastkomb. A | Combination | Min | -1321  | 39,258   | 0,013   | 0,0018     | -0,1139 | -14,7643 | 19-4 | 0       |
| 19 | 2,875 | Lastkomb. A | Combination | Min | -1321  | 53,106   | 0,013   | 0,0018     | -0,1235 | -61,3501 | 19-4 | 0,37412 |
| 19 | 2,875 | Lastkomb. A | Combination | Min | -1321  | 53,106   | 0,013   | 0,0018     | -0,1235 | -61,3501 | 19-4 | 0,37412 |
| 19 | 2,876 | Lastkomb. A | Combination | Min | -1321  | 53,143   | 0,013   | 0,0018     | -0,1235 | -61,4978 | 19-4 | 0,37512 |
| 20 | 0     | Lastkomb. A | Combination | Max | -298,4 | -52,501  | 0,054   | 0,003      | 0,0426  | -19,6483 | 20-1 | 0       |
| 20 | 0,625 | Lastkomb. A | Combination | Max | -298,8 | -29,36   | 0,054   | 0,003      | 0,0091  | 29,4349  | 20-1 | 0,62519 |
| 20 | 0,625 | Lastkomb. A | Combination | Max | -318,4 | -29,536  | 0,027   | 0,003      | 0,0091  | 29,4349  | 20-2 | 0       |
| 20 | 1,438 | Lastkomb. A | Combination | Max | -318,9 | 0,547    | 0,027   | 0,003      | -0,013  | 61,6252  | 20-2 | 0,81275 |
| 20 | 1,626 | Lastkomb. A | Combination | Max | -319,1 | 7,489    | 0,027   | 0,003      | -0,0181 | 68,663   | 20-2 | 1,00031 |
| 20 | 1,626 | Lastkomb. A | Combination | Max | -340,8 | 17,638   | -0,362  | 0,003      | -0,0181 | 68,663   | 20-3 | 0       |
| 20 | 2,626 | Lastkomb. A | Combination | Max | -341,4 | 93,009   | -0,362  | 0,003      | 1,0507  | 7,0823   | 20-3 | 1,00031 |
| 20 | 2,626 | Lastkomb. A | Combination | Max | -365,6 | 112,205  | 18,323  | 0,003      | 1,0507  | 7,0823   | 20-4 | 0       |
| 20 | 2,875 | Lastkomb. A | Combination | Max | -365,7 | 158,224  | 18,323  | 0,003      | -1,2458 | -9,3049  | 20-4 | 0,24908 |



|    |       |             |             |     |        |          |        |            |         |          |      |         |
|----|-------|-------------|-------------|-----|--------|----------|--------|------------|---------|----------|------|---------|
| 20 | 2,875 | Lastkomb. A | Combination | Max | -365,7 | 158,224  | 18,323 | 0,003      | -1,2458 | -9,3049  | 20-4 | 0,24908 |
| 20 | 2,876 | Lastkomb. A | Combination | Max | -365,7 | 158,261  | 18,323 | 0,003      | -1,252  | -9,3492  | 20-4 | 0,25008 |
| 20 | 0     | Lastkomb. A | Combination | Min | -1198  | -151,727 | 0,013  | 0,001      | -0,1235 | -59,5747 | 20-1 | 0       |
| 20 | 0,625 | Lastkomb. A | Combination | Min | -1198  | -128,586 | 0,013  | 0,001      | -0,1403 | -3,1591  | 20-1 | 0,62519 |
| 20 | 0,625 | Lastkomb. A | Combination | Min | -1215  | -90,233  | -0,043 | 0,001      | -0,1403 | -3,1591  | 20-2 | 0       |
| 20 | 1,438 | Lastkomb. A | Combination | Min | -1215  | -40,994  | -0,043 | 0,001      | -0,1146 | 16,2209  | 20-2 | 0,81275 |
| 20 | 1,626 | Lastkomb. A | Combination | Min | -1215  | -34,052  | -0,043 | 0,001      | -0,1087 | 16,968   | 20-2 | 1,00031 |
| 20 | 1,626 | Lastkomb. A | Combination | Min | -1238  | -1,861   | -1,13  | 0,001      | -0,1087 | 16,968   | 20-3 | 0       |
| 20 | 2,626 | Lastkomb. A | Combination | Min | -1238  | 35,164   | -1,13  | 0,001      | 0,2963  | -9,5249  | 20-3 | 1,00031 |
| 20 | 2,626 | Lastkomb. A | Combination | Min | -1269  | 35,014   | 6,191  | 0,001      | 0,2963  | -9,5249  | 20-4 | 0       |
| 20 | 2,875 | Lastkomb. A | Combination | Min | -1268  | 44,233   | 6,191  | 0,001      | -3,5131 | -39,081  | 20-4 | 0,24908 |
| 20 | 2,875 | Lastkomb. A | Combination | Min | -1268  | 44,233   | 6,191  | 0,001      | -3,5131 | -39,081  | 20-4 | 0,24908 |
| 20 | 2,876 | Lastkomb. A | Combination | Min | -1268  | 44,27    | 6,191  | 0,001      | -3,5314 | -39,2216 | 20-4 | 0,25008 |
| 21 | 0     | Lastkomb. A | Combination | Max | -91,16 | 0        | 1,796  | 0,00005284 | 2,9886  | 0        | 21-1 | 0       |
| 21 | 1,814 | Lastkomb. A | Combination | Max | -90,46 | 0        | 1,796  | 0,00005284 | 0,296   | 0        | 21-1 | 1,814   |
| 21 | 3,628 | Lastkomb. A | Combination | Max | -89,77 | 0        | 1,796  | 0,00005284 | -0,1046 | 0        | 21-1 | 3,628   |
| 21 | 0     | Lastkomb. A | Combination | Min | -250,4 | 0        | 0,221  | 0,00001698 | 0,6966  | 0        | 21-1 | 0       |
| 21 | 1,814 | Lastkomb. A | Combination | Min | -249,7 | 0        | 0,221  | 0,00001698 | -0,2686 | 0        | 21-1 | 1,814   |
| 21 | 3,628 | Lastkomb. A | Combination | Min | -249   | 0        | 0,221  | 0,00001698 | -3,5257 | 0        | 21-1 | 3,628   |
| 22 | 0     | Lastkomb. A | Combination | Max | -366,9 | -42,651  | -2,057 | 0,0031     | -1,3139 | -7,3255  | 22-1 | 0       |
| 22 | 0,75  | Lastkomb. A | Combination | Max | -367,4 | -14,882  | -2,057 | 0,0031     | 0,9284  | 48,8324  | 22-1 | 0,75023 |
| 22 | 0,75  | Lastkomb. A | Combination | Max | -394,1 | -14,925  | 1,134  | 0,0031     | 0,9284  | 48,8324  | 22-2 | 0       |
| 22 | 1,438 | Lastkomb. A | Combination | Max | -394,5 | 16,41    | 1,134  | 0,0031     | 0,1487  | 53,7838  | 22-2 | 0,68771 |
| 22 | 1,751 | Lastkomb. A | Combination | Max | -394,7 | 27,98    | 1,134  | 0,0031     | -0,0818 | 56,846   | 22-2 | 1,0003  |
| 22 | 1,751 | Lastkomb. A | Combination | Max | -424,2 | 47,396   | -0,092 | 0,0031     | -0,0818 | 56,846   | 22-3 | 0       |
| 22 | 2,751 | Lastkomb. A | Combination | Max | -424,9 | 123,05   | -0,092 | 0,0031     | 0,04    | -20,3001 | 22-3 | 1,0003  |
| 22 | 2,751 | Lastkomb. A | Combination | Max | -457,4 | 142,278  | -0,026 | 0,0031     | 0,04    | -20,3001 | 22-4 | 0       |
| 22 | 2,875 | Lastkomb. A | Combination | Max | -457,5 | 182,241  | -0,026 | 0,0031     | 0,0502  | -27,2305 | 22-4 | 0,12404 |
| 22 | 2,875 | Lastkomb. A | Combination | Max | -457,5 | 182,241  | -0,026 | 0,0031     | 0,0502  | -27,2305 | 22-4 | 0,12404 |
| 22 | 2,876 | Lastkomb. A | Combination | Max | -457,5 | 182,278  | -0,026 | 0,0031     | 0,0502  | -27,2886 | 22-4 | 0,12504 |
| 22 | 0     | Lastkomb. A | Combination | Min | -1272  | -126,777 | -6,008 | 0,0021     | -3,5788 | -36,3446 | 22-1 | 0       |
| 22 | 0,75  | Lastkomb. A | Combination | Min | -1273  | -99,009  | -6,008 | 0,0021     | 0,2289  | 9,0802   | 22-1 | 0,75023 |
| 22 | 0,75  | Lastkomb. A | Combination | Min | -1311  | -60,192  | 0,323  | 0,0021     | 0,2289  | 9,0802   | 22-2 | 0       |

|    |       |             |             |     |        |          |        |            |         |          |      |         |
|----|-------|-------------|-------------|-----|--------|----------|--------|------------|---------|----------|------|---------|
| 22 | 1,438 | Lastkomb. A | Combination | Min | -1311  | -15,581  | 0,323  | 0,0021     | -0,0278 | 13,9561  | 22-2 | 0,68771 |
| 22 | 1,751 | Lastkomb. A | Combination | Min | -1312  | -4,011   | 0,323  | 0,0021     | -0,2308 | 8,8563   | 22-2 | 1,0003  |
| 22 | 1,751 | Lastkomb. A | Combination | Min | -1358  | 15,625   | -0,166 | 0,0021     | -0,2308 | 8,8563   | 22-3 | 0       |
| 22 | 2,751 | Lastkomb. A | Combination | Min | -1358  | 52,65    | -0,166 | 0,0021     | -0,0916 | -47,3576 | 22-3 | 1,0003  |
| 22 | 2,751 | Lastkomb. A | Combination | Min | -1414  | 52,498   | -0,082 | 0,0021     | -0,0916 | -47,3576 | 22-4 | 0       |
| 22 | 2,875 | Lastkomb. A | Combination | Min | -1413  | 57,089   | -0,082 | 0,0021     | -0,0865 | -67,3892 | 22-4 | 0,12404 |
| 22 | 2,875 | Lastkomb. A | Combination | Min | -1413  | 57,089   | -0,082 | 0,0021     | -0,0865 | -67,3892 | 22-4 | 0,12404 |
| 22 | 2,876 | Lastkomb. A | Combination | Min | -1413  | 57,126   | -0,082 | 0,0021     | -0,0865 | -67,5553 | 22-4 | 0,12504 |
| 23 | 0     | Lastkomb. A | Combination | Max | -91,58 | 0        | 1,195  | 0,00001327 | 1,909   | 0        | 23-1 | 0       |
| 23 | 1,862 | Lastkomb. A | Combination | Max | -90,86 | 0        | 1,195  | 0,00001327 | 0,2362  | 0        | 23-1 | 1,8615  |
| 23 | 3,723 | Lastkomb. A | Combination | Max | -90,15 | 0        | 1,195  | 0,00001327 | 1,2182  | 0        | 23-1 | 3,723   |
| 23 | 0     | Lastkomb. A | Combination | Min | -250,4 | 0        | -0,529 | -1,228E-05 | -0,7507 | 0        | 23-1 | 0       |
| 23 | 1,862 | Lastkomb. A | Combination | Min | -249,7 | 0        | -0,529 | -1,228E-05 | -0,3148 | 0        | 23-1 | 1,8615  |
| 23 | 3,723 | Lastkomb. A | Combination | Min | -248,9 | 0        | -0,529 | -1,228E-05 | -2,5386 | 0        | 23-1 | 3,723   |
| 24 | 0     | Lastkomb. A | Combination | Max | 186,78 | -53,212  | -0,026 | 0,0016     | 0,0489  | -24,963  | 24-1 | 0       |
| 24 | 0,875 | Lastkomb. A | Combination | Max | 186,22 | -20,816  | -0,026 | 0,0016     | 0,1208  | 43,0306  | 24-1 | 0,87526 |
| 24 | 0,875 | Lastkomb. A | Combination | Max | 154,34 | -20,828  | -0,181 | 0,0016     | 0,1208  | 43,0306  | 24-2 | 0       |
| 24 | 1,438 | Lastkomb. A | Combination | Max | 153,98 | 5,502    | -0,181 | 0,0016     | 0,2402  | 48,6735  | 24-2 | 0,56267 |
| 24 | 1,876 | Lastkomb. A | Combination | Max | 153,7  | 21,701   | -0,181 | 0,0016     | 0,4114  | 56,5384  | 24-2 | 1,0003  |
| 24 | 1,876 | Lastkomb. A | Combination | Max | 122,85 | 41,117   | 0,881  | 0,0016     | 0,4114  | 56,5384  | 24-3 | 0       |
| 24 | 2,875 | Lastkomb. A | Combination | Max | 122,21 | 117,152  | 0,881  | 0,0016     | 0,1162  | -13,1706 | 24-3 | 0,9993  |
| 24 | 2,875 | Lastkomb. A | Combination | Max | 122,21 | 117,152  | 0,881  | 0,0016     | 0,1162  | -13,1706 | 24-3 | 0,9993  |
| 24 | 2,876 | Lastkomb. A | Combination | Max | 122,21 | 117,189  | 0,881  | 0,0016     | 0,116   | -13,2151 | 24-3 | 1,0003  |
| 24 | 0     | Lastkomb. A | Combination | Min | -582   | -137,731 | -0,082 | 0,0008666  | -0,0881 | -63,3424 | 24-1 | 0       |
| 24 | 0,875 | Lastkomb. A | Combination | Min | -582,6 | -105,335 | -0,082 | 0,0008666  | -0,0548 | 1,8017   | 24-1 | 0,87526 |
| 24 | 0,875 | Lastkomb. A | Combination | Min | -629,8 | -66,053  | -0,422 | 0,0008666  | -0,0548 | 1,8017   | 24-2 | 0       |
| 24 | 1,438 | Lastkomb. A | Combination | Min | -629,7 | -26,071  | -0,422 | 0,0008666  | 0,1082  | 12,5514  | 24-2 | 0,56267 |
| 24 | 1,876 | Lastkomb. A | Combination | Min | -630   | -9,872   | -0,422 | 0,0008666  | 0,1984  | 9,7499   | 24-2 | 1,0003  |
| 24 | 1,876 | Lastkomb. A | Combination | Min | -681,7 | 7,506    | 0,191  | 0,0008666  | 0,1984  | 9,7499   | 24-3 | 0       |
| 24 | 2,875 | Lastkomb. A | Combination | Min | -681,3 | 44,493   | 0,191  | 0,0008666  | -0,4917 | -41,599  | 24-3 | 0,9993  |
| 24 | 2,875 | Lastkomb. A | Combination | Min | -681,3 | 44,493   | 0,191  | 0,0008666  | -0,4917 | -41,599  | 24-3 | 0,9993  |
| 24 | 2,876 | Lastkomb. A | Combination | Min | -681,3 | 44,53    | 0,191  | 0,0008666  | -0,4925 | -41,7162 | 24-3 | 1,0003  |
| 25 | 0     | Lastkomb. A | Combination | Max | -90,88 | 0        | 0,21   | 0,00003885 | 0,1562  | 0        | 25-1 | 0       |



|    |       |             |             |     |        |          |        |            |         |          |      |         |
|----|-------|-------------|-------------|-----|--------|----------|--------|------------|---------|----------|------|---------|
| 25 | 1,9   | Lastkomb. A | Combination | Max | -90,15 | 0        | 0,21   | 0,00003885 | 0,3662  | 0        | 25-1 | 1,9     |
| 25 | 3,8   | Lastkomb. A | Combination | Max | -89,42 | 0        | 0,21   | 0,00003885 | 3,3396  | 0        | 25-1 | 3,8     |
| 25 | 0     | Lastkomb. A | Combination | Min | -247   | 0        | -1,565 | 0,00001093 | -2,6073 | 0        | 25-1 | 0       |
| 25 | 1,9   | Lastkomb. A | Combination | Min | -246,2 | 0        | -1,565 | 0,00001093 | -0,2431 | 0        | 25-1 | 1,9     |
| 25 | 3,8   | Lastkomb. A | Combination | Min | -245,5 | 0        | -1,565 | 0,00001093 | -0,6424 | 0        | 25-1 | 3,8     |
| 26 | 0     | Lastkomb. A | Combination | Max | 91,078 | -40,419  | -0,016 | 0,0032     | 0,0559  | -10,5166 | 26-1 | 0       |
| 26 | 1     | Lastkomb. A | Combination | Max | 90,488 | -3,393   | -0,016 | 0,0032     | 0,2025  | 54,3057  | 26-1 | 1,00033 |
| 26 | 1     | Lastkomb. A | Combination | Max | 60,834 | -3,393   | 0,494  | 0,0032     | 0,2025  | 54,3057  | 26-2 | 0       |
| 26 | 1,438 | Lastkomb. A | Combination | Max | 60,576 | 31,291   | 0,494  | 0,0032     | -0,0031 | 44,6078  | 26-2 | 0,43764 |
| 26 | 2,001 | Lastkomb. A | Combination | Max | 60,244 | 52,118   | 0,494  | 0,0032     | -0,16   | 35,8865  | 26-2 | 1,00033 |
| 26 | 2,001 | Lastkomb. A | Combination | Max | 30,763 | 71,505   | 0,222  | 0,0032     | -0,16   | 35,8865  | 26-3 | 0       |
| 26 | 2,875 | Lastkomb. A | Combination | Max | 30,247 | 142,865  | 0,222  | 0,0032     | -0,2791 | -33,3163 | 26-3 | 0,87429 |
| 26 | 2,875 | Lastkomb. A | Combination | Max | 30,247 | 142,865  | 0,222  | 0,0032     | -0,2791 | -33,3163 | 26-3 | 0,87429 |
| 26 | 2,876 | Lastkomb. A | Combination | Max | 30,247 | 142,902  | 0,222  | 0,0032     | -0,2792 | -33,3735 | 26-3 | 0,87529 |
| 26 | 0     | Lastkomb. A | Combination | Min | -741,9 | -131,124 | -0,732 | 0,0023     | -0,5358 | -39,3723 | 26-1 | 0       |
| 26 | 1     | Lastkomb. A | Combination | Min | -742   | -74,942  | -0,732 | 0,0023     | -0,0346 | 8,9068   | 26-1 | 1,00033 |
| 26 | 1     | Lastkomb. A | Combination | Min | -803,3 | -35,685  | 0,241  | 0,0023     | -0,0346 | 8,9068   | 26-2 | 0       |
| 26 | 1,438 | Lastkomb. A | Combination | Min | -803   | -0,33    | 0,241  | 0,0023     | -0,1774 | 7,9722   | 26-2 | 0,43764 |
| 26 | 2,001 | Lastkomb. A | Combination | Min | -803,4 | 20,497   | 0,241  | 0,0023     | -0,3848 | -5,0932  | 26-2 | 1,00033 |
| 26 | 2,001 | Lastkomb. A | Combination | Min | -869,7 | 24,84    | 0,101  | 0,0023     | -0,3848 | -5,0932  | 26-3 | 0       |
| 26 | 2,875 | Lastkomb. A | Combination | Min | -869,8 | 57,201   | 0,101  | 0,0023     | -0,5417 | -74,4205 | 26-3 | 0,87429 |
| 26 | 2,875 | Lastkomb. A | Combination | Min | -869,8 | 57,201   | 0,101  | 0,0023     | -0,5417 | -74,4205 | 26-3 | 0,87429 |
| 26 | 2,876 | Lastkomb. A | Combination | Min | -869,8 | 57,238   | 0,101  | 0,0023     | -0,5419 | -74,5634 | 26-3 | 0,87529 |
| 27 | 0     | Lastkomb. A | Combination | Max | -94,13 | 0        | -0,302 | 0,00008119 | -0,8465 | 0        | 27-1 | 0       |
| 27 | 1,928 | Lastkomb. A | Combination | Max | -93,38 | 0        | -0,302 | 0,00008119 | 0,1824  | 0        | 27-1 | 1,9275  |
| 27 | 3,855 | Lastkomb. A | Combination | Max | -92,64 | 0        | -0,302 | 0,00008119 | 3,0925  | 0        | 27-1 | 3,855   |
| 27 | 0     | Lastkomb. A | Combination | Min | -254,6 | 0        | -1,51  | 0,00004381 | -2,7278 | 0        | 27-1 | 0       |
| 27 | 1,928 | Lastkomb. A | Combination | Min | -253,8 | 0        | -1,51  | 0,00004381 | -0,2638 | 0        | 27-1 | 1,9275  |
| 27 | 3,855 | Lastkomb. A | Combination | Min | -253,1 | 0        | -1,51  | 0,00004381 | 0,319   | 0        | 27-1 | 3,855   |
| 28 | 0     | Lastkomb. A | Combination | Max | 1036,9 | -53,202  | 0,226  | -0,0002448 | -0,2819 | -28,3392 | 28-1 | 0       |
| 28 | 0,125 | Lastkomb. A | Combination | Max | 1036,9 | -48,574  | 0,226  | -0,0002448 | -0,2993 | -21,7976 | 28-1 | 0,12504 |
| 28 | 0,125 | Lastkomb. A | Combination | Max | 1008,2 | -48,571  | 0,281  | -0,0002448 | -0,2993 | -21,7976 | 28-2 | 0       |
| 28 | 1,125 | Lastkomb. A | Combination | Max | 1007,6 | -11,545  | 0,281  | -0,0002448 | -0,4489 | 49,1112  | 28-2 | 1,00031 |

|    |       |             |             |     |        |          |        |            |         |          |      |         |
|----|-------|-------------|-------------|-----|--------|----------|--------|------------|---------|----------|------|---------|
| 28 | 1,125 | Lastkomb. A | Combination | Max | 985,98 | -11,545  | -0,047 | -0,0002448 | -0,4489 | 49,1112  | 28-3 | 0       |
| 28 | 1,438 | Lastkomb. A | Combination | Max | 985,79 | 20,008   | -0,047 | -0,0002448 | -0,3661 | 45,1168  | 28-3 | 0,3126  |
| 28 | 2,126 | Lastkomb. A | Combination | Max | 985,37 | 45,463   | -0,047 | -0,0002448 | 0,1207  | 36,6939  | 28-3 | 1,00031 |
| 28 | 2,126 | Lastkomb. A | Combination | Max | 970,6  | 64,87    | 5,233  | -0,0002448 | 0,1207  | 36,6939  | 28-4 | 0       |
| 28 | 2,875 | Lastkomb. A | Combination | Max | 970,14 | 131,643  | 5,233  | -0,0002448 | -1,4247 | -20,0079 | 28-4 | 0,74923 |
| 28 | 2,875 | Lastkomb. A | Combination | Max | 970,14 | 131,643  | 5,233  | -0,0002448 | -1,4247 | -20,0079 | 28-4 | 0,74923 |
| 28 | 2,876 | Lastkomb. A | Combination | Max | 970,14 | 131,68   | 5,233  | -0,0002448 | -1,4262 | -20,0533 | 28-4 | 0,75023 |
| 28 | 0     | Lastkomb. A | Combination | Min | 526,16 | -178,355 | 0,104  | -0,0011    | -0,5447 | -71,114  | 28-1 | 0       |
| 28 | 0,125 | Lastkomb. A | Combination | Min | 526,08 | -173,727 | 0,104  | -0,0011    | -0,5692 | -51,393  | 28-1 | 0,12504 |
| 28 | 0,125 | Lastkomb. A | Combination | Min | 473,44 | -137,78  | 0,145  | -0,0011    | -0,5692 | -51,393  | 28-2 | 0       |
| 28 | 1,125 | Lastkomb. A | Combination | Min | 473,3  | -81,598  | 0,145  | -0,0011    | -0,8397 | 2,8021   | 28-2 | 1,00031 |
| 28 | 1,125 | Lastkomb. A | Combination | Min | 423,96 | -42,299  | -0,806 | -0,0011    | -0,8397 | 2,8021   | 28-3 | 0       |
| 28 | 1,438 | Lastkomb. A | Combination | Min | 424,24 | -11,572  | -0,806 | -0,0011    | -0,732  | 6,3335   | 28-3 | 0,3126  |
| 28 | 2,126 | Lastkomb. A | Combination | Min | 423,82 | 13,883   | -0,806 | -0,0011    | -0,6994 | -2,4365  | 28-3 | 1,00031 |
| 28 | 2,126 | Lastkomb. A | Combination | Min | 376,33 | 17,677   | 1,42   | -0,0011    | -0,6994 | -2,4365  | 28-4 | 0       |
| 28 | 2,875 | Lastkomb. A | Combination | Min | 377    | 45,409   | 1,42   | -0,0011    | -3,9283 | -51,2454 | 28-4 | 0,74923 |
| 28 | 2,875 | Lastkomb. A | Combination | Min | 377    | 45,409   | 1,42   | -0,0011    | -3,9283 | -51,2454 | 28-4 | 0,74923 |
| 28 | 2,876 | Lastkomb. A | Combination | Min | 377    | 45,446   | 1,42   | -0,0011    | -3,9335 | -51,3422 | 28-4 | 0,75023 |
| 29 | 0     | Lastkomb. A | Combination | Max | -89,4  | 0        | 2,607  | -0,0001405 | 3,5486  | 0        | 29-1 | 0       |
| 29 | 1,426 | Lastkomb. A | Combination | Max | -88,85 | 0        | 2,607  | -0,0001405 | 0,3059  | 0        | 29-1 | 1,426   |
| 29 | 2,852 | Lastkomb. A | Combination | Max | -88,31 | 0        | 2,607  | -0,0001405 | -0,6695 | 0        | 29-1 | 2,852   |
| 29 | 0     | Lastkomb. A | Combination | Min | -242,9 | 0        | 0,684  | -0,0002953 | 1,1394  | 0        | 29-1 | 0       |
| 29 | 1,426 | Lastkomb. A | Combination | Min | -242,4 | 0        | 0,684  | -0,0002953 | -0,1694 | 0        | 29-1 | 1,426   |
| 29 | 2,852 | Lastkomb. A | Combination | Min | -241,8 | 0        | 0,684  | -0,0002953 | -3,8874 | 0        | 29-1 | 2,852   |
| 30 | 0     | Lastkomb. A | Combination | Max | -109,6 | 0        | -0,27  | 8,586E-07  | -0,6951 | 0        | 30-1 | 0       |
| 30 | 1,944 | Lastkomb. A | Combination | Max | -108,8 | 0        | -0,27  | 8,586E-07  | 0,2673  | 0        | 30-1 | 1,944   |
| 30 | 3,888 | Lastkomb. A | Combination | Max | -108,1 | 0        | -0,27  | 8,586E-07  | 2,8474  | 0        | 30-1 | 3,888   |
| 30 | 0     | Lastkomb. A | Combination | Min | -270,1 | 0        | -1,327 | -1,827E-05 | -2,3127 | 0        | 30-1 | 0       |
| 30 | 1,944 | Lastkomb. A | Combination | Min | -269,4 | 0        | -1,327 | -1,827E-05 | -0,17   | 0        | 30-1 | 1,944   |
| 30 | 3,888 | Lastkomb. A | Combination | Min | -268,6 | 0        | -1,327 | -1,827E-05 | 0,355   | 0        | 30-1 | 3,888   |
| 31 | 0     | Lastkomb. A | Combination | Max | -87,69 | 0        | 1,561  | 0,00002544 | 2,0173  | 0        | 31-1 | 0       |
| 31 | 1,476 | Lastkomb. A | Combination | Max | -87,13 | 0        | 1,561  | 0,00002544 | 0,256   | 0        | 31-1 | 1,476   |
| 31 | 2,952 | Lastkomb. A | Combination | Max | -86,56 | 0        | 1,561  | 0,00002544 | 1,0609  | 0        | 31-1 | 2,952   |



|    |       |             |             |     |        |         |        |            |         |          |      |         |
|----|-------|-------------|-------------|-----|--------|---------|--------|------------|---------|----------|------|---------|
| 31 | 0     | Lastkomb. A | Combination | Min | -234,8 | 0       | -0,545 | -4,006E-05 | -0,5489 | 0        | 31-1 | 0       |
| 31 | 1,476 | Lastkomb. A | Combination | Min | -234,2 | 0       | -0,545 | -4,006E-05 | -0,2864 | 0        | 31-1 | 1,476   |
| 31 | 2,952 | Lastkomb. A | Combination | Min | -233,6 | 0       | -0,545 | -4,006E-05 | -2,5902 | 0        | 31-1 | 2,952   |
| 32 | 0     | Lastkomb. A | Combination | Max | -19,74 | 0       | -0,354 | -5,097E-05 | -0,6967 | 0        | 32-1 | 0       |
| 32 | 1,949 | Lastkomb. A | Combination | Max | -19,16 | 0       | -0,354 | -5,097E-05 | 0,0349  | 0        | 32-1 | 1,9485  |
| 32 | 3,897 | Lastkomb. A | Combination | Max | -18,58 | 0       | -0,354 | -5,097E-05 | 1,3714  | 0        | 32-1 | 3,897   |
| 32 | 0     | Lastkomb. A | Combination | Min | -33,33 | 0       | -0,686 | -8,323E-05 | -1,3015 | 0        | 32-1 | 0       |
| 32 | 1,949 | Lastkomb. A | Combination | Min | -32,75 | 0       | -0,686 | -8,323E-05 | -0,0625 | 0        | 32-1 | 1,9485  |
| 32 | 3,897 | Lastkomb. A | Combination | Min | -32,17 | 0       | -0,686 | -8,323E-05 | 0,6359  | 0        | 32-1 | 3,897   |
| 33 | 0     | Lastkomb. A | Combination | Max | -82,44 | 0       | -0,027 | 1,406E-06  | -0,2311 | 0        | 33-1 | 0       |
| 33 | 1,528 | Lastkomb. A | Combination | Max | -81,86 | 0       | -0,027 | 1,406E-06  | 0,3326  | 0        | 33-1 | 1,528   |
| 33 | 3,056 | Lastkomb. A | Combination | Max | -81,27 | 0       | -0,027 | 1,406E-06  | 3,512   | 0        | 33-1 | 3,056   |
| 33 | 0     | Lastkomb. A | Combination | Min | -229,6 | 0       | -2,081 | -3,419E-05 | -2,8469 | 0        | 33-1 | 0       |
| 33 | 1,528 | Lastkomb. A | Combination | Min | -229,1 | 0       | -2,081 | -3,419E-05 | -0,19   | 0        | 33-1 | 1,528   |
| 33 | 3,056 | Lastkomb. A | Combination | Min | -228,5 | 0       | -2,081 | -3,419E-05 | -0,1489 | 0        | 33-1 | 3,056   |
| 34 | 0     | Lastkomb. A | Combination | Max | -115,6 | 0       | 0,873  | 0,00001642 | 1,4798  | 0        | 34-1 | 0       |
| 34 | 1,951 | Lastkomb. A | Combination | Max | -114,9 | 0       | 0,873  | 0,00001642 | 0,2252  | 0        | 34-1 | 1,951   |
| 34 | 3,902 | Lastkomb. A | Combination | Max | -114,1 | 0       | 0,873  | 0,00001642 | 1,9834  | 0        | 34-1 | 3,902   |
| 34 | 0     | Lastkomb. A | Combination | Min | -262,4 | 0       | -0,902 | -2,857E-05 | -1,5348 | 0        | 34-1 | 0       |
| 34 | 1,951 | Lastkomb. A | Combination | Min | -261,6 | 0       | -0,902 | -2,857E-05 | -0,2281 | 0        | 34-1 | 1,951   |
| 34 | 3,902 | Lastkomb. A | Combination | Min | -260,9 | 0       | -0,902 | -2,857E-05 | -1,9264 | 0        | 34-1 | 3,902   |
| 35 | 0     | Lastkomb. A | Combination | Max | -84,26 | 0       | -0,724 | 0,00001169 | -1,3105 | 0        | 35-1 | 0       |
| 35 | 1,578 | Lastkomb. A | Combination | Max | -83,66 | 0       | -0,724 | 0,00001169 | 0,2349  | 0        | 35-1 | 1,5775  |
| 35 | 3,155 | Lastkomb. A | Combination | Max | -83,05 | 0       | -0,724 | 0,00001169 | 3,8364  | 0        | 35-1 | 3,155   |
| 35 | 0     | Lastkomb. A | Combination | Min | -233,8 | 0       | -2,295 | -2,495E-05 | -3,4033 | 0        | 35-1 | 0       |
| 35 | 1,578 | Lastkomb. A | Combination | Min | -233,2 | 0       | -2,295 | -2,495E-05 | -0,1688 | 0        | 35-1 | 1,5775  |
| 35 | 3,155 | Lastkomb. A | Combination | Min | -232,6 | 0       | -2,295 | -2,495E-05 | 0,973   | 0        | 35-1 | 3,155   |
| 36 | 0     | Lastkomb. A | Combination | Max | 2345,4 | -65,273 | 2,573  | 0,0185     | 3,1734  | -52,1893 | 36-1 | 0       |
| 36 | 0,5   | Lastkomb. A | Combination | Max | 2344,9 | -46,193 | 2,573  | 0,0185     | 3,4137  | -15,8279 | 36-1 | 0,50007 |
| 36 | 0,5   | Lastkomb. A | Combination | Max | 2377,9 | -45,443 | 1,28   | 0,0185     | 3,4137  | -15,8279 | 36-2 | 0       |
| 36 | 1,5   | Lastkomb. A | Combination | Max | 2377   | -7,283  | 1,28   | 0,0185     | 2,1362  | 49,7768  | 36-2 | 1,00014 |
| 36 | 1,5   | Lastkomb. A | Combination | Max | 2420,3 | -5,718  | 0,664  | 0,0185     | 2,1362  | 49,7768  | 36-3 | 0       |
| 36 | 1,624 | Lastkomb. A | Combination | Max | 2420,2 | 34,792  | 0,664  | 0,0185     | 2,0542  | 46,2071  | 36-3 | 0,12402 |

|    |       |             |             |     |        |          |        |            |         |           |      |         |
|----|-------|-------------|-------------|-----|--------|----------|--------|------------|---------|-----------|------|---------|
| 36 | 1,624 | Lastkomb. A | Combination | Max | 2420,2 | 34,792   | 0,664  | 0,0185     | 2,0542  | 46,2071   | 36-3 | 0,12402 |
| 36 | 2,5   | Lastkomb. A | Combination | Max | 2419,4 | 68,22    | 0,664  | 0,0185     | 1,4754  | 14,9401   | 36-3 | 1,00014 |
| 36 | 2,5   | Lastkomb. A | Combination | Max | 2471   | 87,662   | 0,623  | 0,0185     | 1,4754  | 14,9401   | 36-4 | 0       |
| 36 | 3,249 | Lastkomb. A | Combination | Max | 2470,3 | 152,846  | 0,623  | 0,0185     | 1,022   | -33,8395  | 36-4 | 0,7491  |
| 36 | 3,249 | Lastkomb. A | Combination | Max | 2470,3 | 152,846  | 0,623  | 0,0185     | 1,022   | -33,8395  | 36-4 | 0,7491  |
| 36 | 3,25  | Lastkomb. A | Combination | Max | 2470,3 | 152,884  | 0,623  | 0,0185     | 1,0214  | -33,8917  | 36-4 | 0,7501  |
| 36 | 0     | Lastkomb. A | Combination | Min | 1515,3 | -172,964 | -5,097 | 0,0052     | 0,8649  | -102,7868 | 36-1 | 0       |
| 36 | 0,5   | Lastkomb. A | Combination | Min | 1514,9 | -153,884 | -5,097 | 0,0052     | 1,5926  | -42,8297  | 36-1 | 0,50007 |
| 36 | 0,5   | Lastkomb. A | Combination | Min | 1512,5 | -117,311 | 0,19   | 0,0052     | 1,5926  | -42,8297  | 36-2 | 0       |
| 36 | 1,5   | Lastkomb. A | Combination | Min | 1511,6 | -59,992  | 0,19   | 0,0052     | 1,2029  | -7,8921   | 36-2 | 1,00014 |
| 36 | 1,5   | Lastkomb. A | Combination | Min | 1514,3 | -23,127  | 0,357  | 0,0052     | 1,2029  | -7,8921   | 36-3 | 0       |
| 36 | 1,624 | Lastkomb. A | Combination | Min | 1514,2 | -11,646  | 0,357  | 0,0052     | 1,1586  | -7,2823   | 36-3 | 0,12402 |
| 36 | 1,624 | Lastkomb. A | Combination | Min | 1514,2 | -11,646  | 0,357  | 0,0052     | 1,1586  | -7,2823   | 36-3 | 0,12402 |
| 36 | 2,5   | Lastkomb. A | Combination | Min | 1513,4 | 21,782   | 0,357  | 0,0052     | 0,8455  | -19,6905  | 36-3 | 1,00014 |
| 36 | 2,5   | Lastkomb. A | Combination | Min | 1521,3 | 21,833   | 0,357  | 0,0052     | 0,8455  | -19,6905  | 36-4 | 0       |
| 36 | 3,249 | Lastkomb. A | Combination | Min | 1520,6 | 50,415   | 0,357  | 0,0052     | 0,5779  | -89,4523  | 36-4 | 0,7491  |
| 36 | 3,249 | Lastkomb. A | Combination | Min | 1520,6 | 50,415   | 0,357  | 0,0052     | 0,5779  | -89,4523  | 36-4 | 0,7491  |
| 36 | 3,25  | Lastkomb. A | Combination | Min | 1520,6 | 50,453   | 0,357  | 0,0052     | 0,5775  | -89,5877  | 36-4 | 0,7501  |
| 37 | 0     | Lastkomb. A | Combination | Max | -85,31 | 0        | -0,76  | 0,0003337  | -1,4235 | 0         | 37-1 | 0       |
| 37 | 1,63  | Lastkomb. A | Combination | Max | -84,69 | 0        | -0,76  | 0,0003337  | 0,2458  | 0         | 37-1 | 1,6295  |
| 37 | 3,259 | Lastkomb. A | Combination | Max | -84,06 | 0        | -0,76  | 0,0003337  | 3,9147  | 0         | 37-1 | 3,259   |
| 37 | 0     | Lastkomb. A | Combination | Min | -231,6 | 0        | -2,252 | 0,0001872  | -3,423  | 0         | 37-1 | 0       |
| 37 | 1,63  | Lastkomb. A | Combination | Min | -231   | 0        | -2,252 | 0,0001872  | -0,1852 | 0         | 37-1 | 1,6295  |
| 37 | 3,259 | Lastkomb. A | Combination | Min | -230,4 | 0        | -2,252 | 0,0001872  | 1,0532  | 0         | 37-1 | 3,259   |
| 38 | 0     | Lastkomb. A | Combination | Max | -1,668 | 0        | -0,221 | 0,0003424  | -0,4265 | 0         | 38-1 | 0       |
| 38 | 1,655 | Lastkomb. A | Combination | Max | -1,175 | 0        | -0,221 | 0,0003424  | 0,0102  | 0         | 38-1 | 1,6545  |
| 38 | 3,309 | Lastkomb. A | Combination | Max | -0,682 | 0        | -0,221 | 0,0003424  | 0,9084  | 0         | 38-1 | 3,309   |
| 38 | 0     | Lastkomb. A | Combination | Min | -5,817 | 0        | -0,543 | 0,0001911  | -0,8879 | 0         | 38-1 | 0       |
| 38 | 1,655 | Lastkomb. A | Combination | Min | -5,324 | 0        | -0,543 | 0,0001911  | -0,0617 | 0         | 38-1 | 1,6545  |
| 38 | 3,309 | Lastkomb. A | Combination | Min | -4,831 | 0        | -0,543 | 0,0001911  | 0,3032  | 0         | 38-1 | 3,309   |
| 39 | 0     | Lastkomb. A | Combination | Max | -144,7 | 0        | 0,74   | 0,00004416 | 1,0062  | 0         | 39-1 | 0       |
| 39 | 1,681 | Lastkomb. A | Combination | Max | -144   | 0        | 0,74   | 0,00004416 | 0,1287  | 0         | 39-1 | 1,681   |
| 39 | 3,362 | Lastkomb. A | Combination | Max | -143,4 | 0        | 0,74   | 0,00004416 | 0,8659  | 0         | 39-1 | 3,362   |



|    |       |             |             |     |        |          |        |            |         |          |      |         |
|----|-------|-------------|-------------|-----|--------|----------|--------|------------|---------|----------|------|---------|
| 39 | 0     | Lastkomb. A | Combination | Min | -307,1 | 0        | -0,439 | -1,802E-06 | -0,6085 | 0        | 39-1 | 0       |
| 39 | 1,681 | Lastkomb. A | Combination | Min | -306,5 | 0        | -0,439 | -1,802E-06 | -0,2382 | 0        | 39-1 | 1,681   |
| 39 | 3,362 | Lastkomb. A | Combination | Min | -305,8 | 0        | -0,439 | -1,802E-06 | -1,4826 | 0        | 39-1 | 3,362   |
| 40 | 0     | Lastkomb. A | Combination | Max | 800,95 | -56,502  | 0,374  | -0,0012    | 1,4605  | -34,7254 | 40-1 | 0       |
| 40 | 1     | Lastkomb. A | Combination | Max | 800,34 | -19,477  | 0,374  | -0,0012    | 1,1055  | 33,2017  | 40-1 | 1,00031 |
| 40 | 1     | Lastkomb. A | Combination | Max | 832,19 | -19,477  | 0,649  | -0,0012    | 1,1055  | 33,2017  | 40-2 | 0       |
| 40 | 1,438 | Lastkomb. A | Combination | Max | 831,92 | 13,119   | 0,649  | -0,0012    | 0,8213  | 31,4567  | 40-2 | 0,43764 |
| 40 | 2,001 | Lastkomb. A | Combination | Max | 831,57 | 33,945   | 0,649  | -0,0012    | 0,4559  | 33,3926  | 40-2 | 1,00031 |
| 40 | 2,001 | Lastkomb. A | Combination | Max | 870,77 | 53,363   | 0,553  | -0,0012    | 0,4559  | 33,3926  | 40-3 | 0       |
| 40 | 2,875 | Lastkomb. A | Combination | Max | 870,24 | 124,883  | 0,553  | -0,0012    | 0,036   | -15,5958 | 40-3 | 0,87427 |
| 40 | 2,875 | Lastkomb. A | Combination | Max | 870,24 | 124,883  | 0,553  | -0,0012    | 0,036   | -15,5958 | 40-3 | 0,87427 |
| 40 | 2,876 | Lastkomb. A | Combination | Max | 870,23 | 124,92   | 0,553  | -0,0012    | 0,0357  | -15,6374 | 40-3 | 0,87527 |
| 40 | 0     | Lastkomb. A | Combination | Min | 327,01 | -149,297 | 0,162  | -0,0053    | 0,6718  | -78,6532 | 40-1 | 0       |
| 40 | 1     | Lastkomb. A | Combination | Min | 326,4  | -93,116  | 0,162  | -0,0053    | 0,5102  | -5,8377  | 40-1 | 1,00031 |
| 40 | 1     | Lastkomb. A | Combination | Min | 333,7  | -53,696  | 0,31   | -0,0053    | 0,5102  | -5,8377  | 40-2 | 0       |
| 40 | 1,438 | Lastkomb. A | Combination | Min | 333,43 | -18,342  | 0,31   | -0,0053    | 0,3745  | 0,3769   | 40-2 | 0,43764 |
| 40 | 2,001 | Lastkomb. A | Combination | Min | 333,09 | 2,485    | 0,31   | -0,0053    | 0,1999  | -2,0494  | 40-2 | 1,00031 |
| 40 | 2,001 | Lastkomb. A | Combination | Min | 343,1  | 9,236    | 0,255  | -0,0053    | 0,1999  | -2,0494  | 40-3 | 0       |
| 40 | 2,875 | Lastkomb. A | Combination | Min | 342,56 | 41,596   | 0,255  | -0,0053    | -0,0408 | -61,1916 | 40-3 | 0,87427 |
| 40 | 2,875 | Lastkomb. A | Combination | Min | 342,56 | 41,596   | 0,255  | -0,0053    | -0,0408 | -61,1916 | 40-3 | 0,87427 |
| 40 | 2,876 | Lastkomb. A | Combination | Min | 342,56 | 41,633   | 0,255  | -0,0053    | -0,0414 | -61,3165 | 40-3 | 0,87527 |
| 41 | 0     | Lastkomb. A | Combination | Max | -258,7 | -49,567  | 0,559  | -0,0042    | 0,042   | -18,0855 | 41-1 | 0       |
| 41 | 0,125 | Lastkomb. A | Combination | Max | -258,8 | -44,939  | 0,559  | -0,0042    | 0,0056  | -12,177  | 41-1 | 0,12504 |
| 41 | 0,125 | Lastkomb. A | Combination | Max | -239,7 | -44,919  | 0,605  | -0,0042    | 0,0056  | -12,177  | 41-2 | 0       |
| 41 | 1,125 | Lastkomb. A | Combination | Max | -240,3 | -7,893   | 0,605  | -0,0042    | -0,3175 | 55,0898  | 41-2 | 1,00031 |
| 41 | 1,125 | Lastkomb. A | Combination | Max | -222,6 | -7,893   | 0,132  | -0,0042    | -0,3175 | 55,0898  | 41-3 | 0       |
| 41 | 1,438 | Lastkomb. A | Combination | Max | -222,8 | 21,429   | 0,132  | -0,0042    | -0,1371 | 50,6511  | 41-3 | 0,3126  |
| 41 | 2,126 | Lastkomb. A | Combination | Max | -223,3 | 46,884   | 0,132  | -0,0042    | 0,3431  | 41,466   | 41-3 | 1,00031 |
| 41 | 2,126 | Lastkomb. A | Combination | Max | -206,8 | 66,295   | 5,866  | -0,0042    | 0,3431  | 41,466   | 41-4 | 0       |
| 41 | 2,875 | Lastkomb. A | Combination | Max | -207,3 | 133,221  | 5,866  | -0,0042    | -1,9525 | -15,5248 | 41-4 | 0,74923 |
| 41 | 2,875 | Lastkomb. A | Combination | Max | -207,3 | 133,221  | 5,866  | -0,0042    | -1,9525 | -15,5248 | 41-4 | 0,74923 |
| 41 | 2,876 | Lastkomb. A | Combination | Max | -207,3 | 133,258  | 5,866  | -0,0042    | -1,9549 | -15,569  | 41-4 | 0,75023 |
| 41 | 0     | Lastkomb. A | Combination | Min | -822   | -177,358 | 0,263  | -0,0064    | -0,0391 | -63,5585 | 41-1 | 0       |

|    |       |             |             |     |        |          |        |           |         |          |      |         |
|----|-------|-------------|-------------|-----|--------|----------|--------|-----------|---------|----------|------|---------|
| 41 | 0,125 | Lastkomb. A | Combination | Min | -822,1 | -172,73  | 0,263  | -0,0064   | -0,109  | -45,2781 | 41-1 | 0,12504 |
| 41 | 0,125 | Lastkomb. A | Combination | Min | -778   | -136,358 | 0,291  | -0,0064   | -0,109  | -45,2781 | 41-2 | 0       |
| 41 | 1,125 | Lastkomb. A | Combination | Min | -778,1 | -80,177  | 0,291  | -0,0064   | -0,7001 | 5,2061   | 41-2 | 1,00031 |
| 41 | 1,125 | Lastkomb. A | Combination | Min | -738,4 | -40,722  | -0,702 | -0,0064   | -0,7001 | 5,2061   | 41-3 | 0       |
| 41 | 1,438 | Lastkomb. A | Combination | Min | -738,1 | -9,996   | -0,702 | -0,0064   | -0,7383 | 9,8148   | 41-3 | 0,3126  |
| 41 | 2,126 | Lastkomb. A | Combination | Min | -738,6 | 15,459   | -0,702 | -0,0064   | -0,8267 | 3,6148   | 41-3 | 1,00031 |
| 41 | 2,126 | Lastkomb. A | Combination | Min | -702,9 | 16,495   | 2,384  | -0,0064   | -0,8267 | 3,6148   | 41-4 | 0       |
| 41 | 2,875 | Lastkomb. A | Combination | Min | -702,9 | 44,227   | 2,384  | -0,0064   | -4,2631 | -48,3428 | 41-4 | 0,74923 |
| 41 | 2,875 | Lastkomb. A | Combination | Min | -702,9 | 44,227   | 2,384  | -0,0064   | -4,2631 | -48,3428 | 41-4 | 0,74923 |
| 41 | 2,876 | Lastkomb. A | Combination | Min | -702,9 | 44,264   | 2,384  | -0,0064   | -4,269  | -48,4419 | 41-4 | 0,75023 |
| 42 | 0     | Lastkomb. A | Combination | Max | 727,79 | -52,952  | -0,473 | 0,0013    | -0,9201 | -26,2303 | 42-1 | 0       |
| 42 | 1     | Lastkomb. A | Combination | Max | 726,79 | -15,943  | -0,473 | 0,0013    | -0,3586 | 51,7844  | 42-1 | 1,00011 |
| 42 | 1     | Lastkomb. A | Combination | Max | 745,02 | -15,943  | 0,175  | 0,0013    | -0,3586 | 51,7844  | 42-2 | 0       |
| 42 | 1,624 | Lastkomb. A | Combination | Max | 744,39 | 14,786   | 0,175  | 0,0013    | -0,4234 | 54,8661  | 42-2 | 0,62407 |
| 42 | 1,624 | Lastkomb. A | Combination | Max | 744,39 | 14,786   | 0,175  | 0,0013    | -0,4234 | 54,8661  | 42-2 | 0,62407 |
| 42 | 2     | Lastkomb. A | Combination | Max | 744,01 | 28,702   | 0,175  | 0,0013    | -0,43   | 59,2562  | 42-2 | 1,00011 |
| 42 | 2     | Lastkomb. A | Combination | Max | 767,47 | 48,122   | -0,143 | 0,0013    | -0,43   | 59,2562  | 42-3 | 0       |
| 42 | 3     | Lastkomb. A | Combination | Max | 766,47 | 122,347  | -0,143 | 0,0013    | -0,2875 | -17,1497 | 42-3 | 1,00011 |
| 42 | 3     | Lastkomb. A | Combination | Max | 795,37 | 141,481  | -0,125 | 0,0013    | -0,2875 | -17,1497 | 42-4 | 0       |
| 42 | 3,249 | Lastkomb. A | Combination | Max | 795,12 | 184,953  | -0,125 | 0,0013    | -0,2564 | -30,8803 | 42-4 | 0,24903 |
| 42 | 3,249 | Lastkomb. A | Combination | Max | 795,12 | 184,953  | -0,125 | 0,0013    | -0,2564 | -30,8803 | 42-4 | 0,24903 |
| 42 | 3,25  | Lastkomb. A | Combination | Max | 795,12 | 184,99   | -0,125 | 0,0013    | -0,2563 | -30,94   | 42-4 | 0,25003 |
| 42 | 0     | Lastkomb. A | Combination | Min | 107,83 | -154,531 | -1,224 | 0,0006949 | -1,7824 | -65,2858 | 42-1 | 0       |
| 42 | 1     | Lastkomb. A | Combination | Min | 107,1  | -98,362  | -1,224 | 0,0006949 | -0,828  | 2,0426   | 42-1 | 1,00011 |
| 42 | 1     | Lastkomb. A | Combination | Min | 156,84 | -60,886  | -0,095 | 0,0006949 | -0,828  | 2,0426   | 42-2 | 0       |
| 42 | 1,624 | Lastkomb. A | Combination | Min | 156,87 | -18,632  | -0,095 | 0,0006949 | -0,7688 | 10,6677  | 42-2 | 0,62407 |
| 42 | 1,624 | Lastkomb. A | Combination | Min | 156,87 | -18,632  | -0,095 | 0,0006949 | -0,7688 | 10,6677  | 42-2 | 0,62407 |
| 42 | 2     | Lastkomb. A | Combination | Min | 156,49 | -4,717   | -0,095 | 0,0006949 | -0,7544 | 5,6581   | 42-2 | 1,00011 |
| 42 | 2     | Lastkomb. A | Combination | Min | 206,38 | 11,642   | -0,257 | 0,0006949 | -0,7544 | 5,6581   | 42-3 | 0       |
| 42 | 3     | Lastkomb. A | Combination | Min | 205,65 | 48,651   | -0,257 | 0,0006949 | -0,5252 | -46,9311 | 42-3 | 1,00011 |
| 42 | 3     | Lastkomb. A | Combination | Min | 256,13 | 48,614   | -0,219 | 0,0006949 | -0,5252 | -46,9311 | 42-4 | 0       |
| 42 | 3,249 | Lastkomb. A | Combination | Min | 256,16 | 57,829   | -0,219 | 0,0006949 | -0,477  | -85,1051 | 42-4 | 0,24903 |
| 42 | 3,249 | Lastkomb. A | Combination | Min | 256,16 | 57,829   | -0,219 | 0,0006949 | -0,477  | -85,1051 | 42-4 | 0,24903 |



|    |       |             |             |     |        |          |        |            |         |          |      |         |
|----|-------|-------------|-------------|-----|--------|----------|--------|------------|---------|----------|------|---------|
| 42 | 3,25  | Lastkomb. A | Combination | Min | 256,16 | 57,866   | -0,219 | 0,0006949  | -0,4768 | -85,275  | 42-4 | 0,25003 |
| 43 | 0     | Lastkomb. A | Combination | Max | -210,7 | -60,487  | -0,126 | 0,0121     | -0,2595 | -35,3496 | 43-1 | 0       |
| 43 | 0,75  | Lastkomb. A | Combination | Max | -211,5 | -32,732  | -0,126 | 0,0121     | -0,1571 | 25,0264  | 43-1 | 0,75007 |
| 43 | 0,75  | Lastkomb. A | Combination | Max | -182,5 | -32,84   | -0,058 | 0,0121     | -0,1571 | 25,0264  | 43-2 | 0       |
| 43 | 1,624 | Lastkomb. A | Combination | Max | -183,4 | -0,495   | -0,058 | 0,0121     | -0,0525 | 66,0445  | 43-2 | 0,87408 |
| 43 | 1,624 | Lastkomb. A | Combination | Max | -183,4 | -0,495   | -0,058 | 0,0121     | -0,0525 | 66,0445  | 43-2 | 0,87408 |
| 43 | 1,75  | Lastkomb. A | Combination | Max | -183,5 | 4,167    | -0,058 | 0,0121     | -0,0373 | 71,6296  | 43-2 | 1,00009 |
| 43 | 1,75  | Lastkomb. A | Combination | Max | -155,9 | 11,455   | -0,822 | 0,0121     | -0,0373 | 71,6296  | 43-3 | 0       |
| 43 | 2,75  | Lastkomb. A | Combination | Max | -157   | 85,072   | -0,822 | 0,0121     | 1,9759  | 18,5469  | 43-3 | 1,00009 |
| 43 | 2,75  | Lastkomb. A | Combination | Max | -130,6 | 103,528  | 13,291 | 0,0121     | 1,9759  | 18,5469  | 43-4 | 0       |
| 43 | 3,249 | Lastkomb. A | Combination | Max | -131,1 | 157,972  | 13,291 | 0,0121     | -1,4657 | -16,1608 | 43-4 | 0,49904 |
| 43 | 3,249 | Lastkomb. A | Combination | Max | -131,1 | 157,972  | 13,291 | 0,0121     | -1,4657 | -16,1608 | 43-4 | 0,49904 |
| 43 | 3,25  | Lastkomb. A | Combination | Max | -131,1 | 158,009  | 13,291 | 0,0121     | -1,4702 | -16,2129 | 43-4 | 0,50004 |
| 43 | 0     | Lastkomb. A | Combination | Min | -1102  | -162,68  | -0,22  | 0,0032     | -0,4801 | -87,3861 | 43-1 | 0       |
| 43 | 0,75  | Lastkomb. A | Combination | Min | -1102  | -134,924 | -0,22  | 0,0032     | -0,3341 | -12,245  | 43-1 | 0,75007 |
| 43 | 0,75  | Lastkomb. A | Combination | Min | -1038  | -98,158  | -0,185 | 0,0032     | -0,3341 | -12,245  | 43-2 | 0       |
| 43 | 1,624 | Lastkomb. A | Combination | Min | -1039  | -46,654  | -0,185 | 0,0032     | -0,1959 | 12,057   | 43-2 | 0,87408 |
| 43 | 1,624 | Lastkomb. A | Combination | Min | -1039  | -46,654  | -0,185 | 0,0032     | -0,1959 | 12,057   | 43-2 | 0,87408 |
| 43 | 1,75  | Lastkomb. A | Combination | Min | -1039  | -41,991  | -0,185 | 0,0032     | -0,176  | 13,2288  | 43-2 | 1,00009 |
| 43 | 1,75  | Lastkomb. A | Combination | Min | -981,8 | -6,968   | -2,112 | 0,0032     | -0,176  | 13,2288  | 43-3 | 0       |
| 43 | 2,75  | Lastkomb. A | Combination | Min | -982,6 | 30,039   | -2,112 | 0,0032     | 0,7546  | -8,7252  | 43-3 | 1,00009 |
| 43 | 2,75  | Lastkomb. A | Combination | Min | -931,6 | 29,609   | 4,478  | 0,0032     | 0,7546  | -8,7252  | 43-4 | 0       |
| 43 | 3,249 | Lastkomb. A | Combination | Min | -931,9 | 48,075   | 4,478  | 0,0032     | -4,6642 | -60,1366 | 43-4 | 0,49904 |
| 43 | 3,249 | Lastkomb. A | Combination | Min | -931,9 | 48,075   | 4,478  | 0,0032     | -4,6642 | -60,1366 | 43-4 | 0,49904 |
| 43 | 3,25  | Lastkomb. A | Combination | Min | -931,9 | 48,112   | 4,478  | 0,0032     | -4,6775 | -60,2778 | 43-4 | 0,50004 |
| 44 | 0     | Lastkomb. A | Combination | Max | -133,2 | -49,668  | -4,68  | -0,0005356 | -1,6091 | -18,4436 | 44-1 | 0       |
| 44 | 0,5   | Lastkomb. A | Combination | Max | -133,8 | -31,168  | -4,68  | -0,0005356 | 1,9316  | 17,9523  | 44-1 | 0,50002 |
| 44 | 0,5   | Lastkomb. A | Combination | Max | -108,4 | -32,126  | 1,99   | -0,0005356 | 1,9316  | 17,9523  | 44-2 | 0       |
| 44 | 1,5   | Lastkomb. A | Combination | Max | -109,6 | 4,876    | 1,99   | -0,0005356 | 0,071   | 73,6591  | 44-2 | 1,00005 |
| 44 | 1,5   | Lastkomb. A | Combination | Max | -84,98 | 4,876    | 0,011  | -0,0005356 | 0,071   | 73,6591  | 44-3 | 0       |
| 44 | 1,624 | Lastkomb. A | Combination | Max | -85,12 | 44,42    | 0,011  | -0,0005356 | 0,0701  | 68,8869  | 44-3 | 0,12401 |
| 44 | 1,624 | Lastkomb. A | Combination | Max | -85,12 | 44,42    | 0,011  | -0,0005356 | 0,0701  | 68,8869  | 44-3 | 0,12401 |
| 44 | 2,5   | Lastkomb. A | Combination | Max | -86,16 | 76,833   | 0,011  | -0,0005356 | 0,064   | 29,537   | 44-3 | 1,00005 |

|    |                   |             |     |        |          |         |            |         |          |      |         |
|----|-------------------|-------------|-----|--------|----------|---------|------------|---------|----------|------|---------|
| 44 | 2,5 Lastkomb. A   | Combination | Max | -62,05 | 96,103   | 0,041   | -0,0005356 | 0,064   | 29,537   | 44-4 | 0       |
| 44 | 3,249 Lastkomb. A | Combination | Max | -62,94 | 160,454  | 0,041   | -0,0005356 | 0,0399  | -29,8384 | 44-4 | 0,74903 |
| 44 | 3,249 Lastkomb. A | Combination | Max | -62,94 | 160,454  | 0,041   | -0,0005356 | 0,0399  | -29,8384 | 44-4 | 0,74903 |
| 44 | 3,25 Lastkomb. A  | Combination | Max | -62,94 | 160,491  | 0,041   | -0,0005356 | 0,0399  | -29,8964 | 44-4 | 0,75003 |
| 44 | 0 Lastkomb. A     | Combination | Min | -936,2 | -160,184 | -13,516 | -0,0041    | -4,8266 | -62,148  | 44-1 | 0       |
| 44 | 0,5 Lastkomb. A   | Combination | Min | -936,8 | -141,684 | -13,516 | -0,0041    | 0,7116  | -10,0539 | 44-1 | 0,50002 |
| 44 | 0,5 Lastkomb. A   | Combination | Min | -892,8 | -106,391 | 0,702   | -0,0041    | 0,7116  | -10,0539 | 44-2 | 0       |
| 44 | 1,5 Lastkomb. A   | Combination | Min | -893,6 | -50,229  | 0,702   | -0,0041    | -0,0621 | 15,0846  | 44-2 | 1,00005 |
| 44 | 1,5 Lastkomb. A   | Combination | Min | -855,6 | -13,329  | -0,061  | -0,0041    | -0,0621 | 15,0846  | 44-3 | 0       |
| 44 | 1,624 Lastkomb. A | Combination | Min | -855,6 | -2,048   | -0,061  | -0,0041    | -0,0545 | 14,5028  | 44-3 | 0,12401 |
| 44 | 1,624 Lastkomb. A | Combination | Min | -855,6 | -2,048   | -0,061  | -0,0041    | -0,0545 | 14,5028  | 44-3 | 0,12401 |
| 44 | 2,5 Lastkomb. A   | Combination | Min | -856,6 | 30,365   | -0,061  | -0,0041    | -0,0104 | -7,9857  | 44-3 | 1,00005 |
| 44 | 2,5 Lastkomb. A   | Combination | Min | -823,8 | 30,278   | 0,00949 | -0,0041    | -0,0104 | -7,9857  | 44-4 | 0       |
| 44 | 3,249 Lastkomb. A | Combination | Min | -824,5 | 57,992   | 0,00949 | -0,0041    | -0,0243 | -80,7483 | 44-4 | 0,74903 |
| 44 | 3,249 Lastkomb. A | Combination | Min | -824,5 | 57,992   | 0,00949 | -0,0041    | -0,0243 | -80,7483 | 44-4 | 0,74903 |
| 44 | 3,25 Lastkomb. A  | Combination | Min | -824,5 | 58,029   | 0,00949 | -0,0041    | -0,0244 | -80,8913 | 44-4 | 0,75003 |
| 45 | 0 Lastkomb. A     | Combination | Max | -557,7 | -61,14   | 0,041   | 0,0013     | 0,0391  | -31,673  | 45-1 | 0       |
| 45 | 0,25 Lastkomb. A  | Combination | Max | -558   | -51,89   | 0,041   | 0,0013     | 0,0311  | -16,9939 | 45-1 | 0,25001 |
| 45 | 0,25 Lastkomb. A  | Combination | Max | -536,1 | -52,287  | 0,129   | 0,0013     | 0,0311  | -16,9939 | 45-2 | 0       |
| 45 | 1,25 Lastkomb. A  | Combination | Max | -537,3 | -15,287  | 0,129   | 0,0013     | -0,0357 | 64,9043  | 45-2 | 1,00004 |
| 45 | 1,25 Lastkomb. A  | Combination | Max | -518,2 | -15,287  | -0,127  | 0,0013     | -0,0357 | 64,9043  | 45-3 | 0       |
| 45 | 1,624 Lastkomb. A | Combination | Max | -518,7 | 14,793   | -0,127  | 0,0013     | 0,0319  | 62,4109  | 45-3 | 0,37401 |
| 45 | 1,624 Lastkomb. A | Combination | Max | -518,7 | 14,793   | -0,127  | 0,0013     | 0,0319  | 62,4109  | 45-3 | 0,37401 |
| 45 | 2,25 Lastkomb. A  | Combination | Max | -519,4 | 37,955   | -0,127  | 0,0013     | 0,2521  | 61,6844  | 45-3 | 1,00004 |
| 45 | 2,25 Lastkomb. A  | Combination | Max | -503,9 | 57,376   | 1,162   | 0,0013     | 0,2521  | 61,6844  | 45-4 | 0       |
| 45 | 3,249 Lastkomb. A | Combination | Max | -505,1 | 131,253  | 1,162   | 0,0013     | -0,3434 | -14,0055 | 45-4 | 0,99904 |
| 45 | 3,249 Lastkomb. A | Combination | Max | -505,1 | 131,253  | 1,162   | 0,0013     | -0,3434 | -14,0055 | 45-4 | 0,99904 |
| 45 | 3,25 Lastkomb. A  | Combination | Max | -505,1 | 131,29   | 1,162   | 0,0013     | -0,3438 | -14,0584 | 45-4 | 1,00004 |
| 45 | 0 Lastkomb. A     | Combination | Min | -1436  | -188,495 | 0,00949 | -0,0006615 | -0,0258 | -85,0433 | 45-1 | 0       |
| 45 | 0,25 Lastkomb. A  | Combination | Min | -1436  | -179,245 | 0,00949 | -0,0006615 | -0,0309 | -45,817  | 45-1 | 0,25001 |
| 45 | 0,25 Lastkomb. A  | Combination | Min | -1397  | -145,267 | 0,047   | -0,0006615 | -0,0309 | -45,817  | 45-2 | 0       |
| 45 | 1,25 Lastkomb. A  | Combination | Min | -1398  | -89,106  | 0,047   | -0,0006615 | -0,1416 | 9,7555   | 45-2 | 1,00004 |
| 45 | 1,25 Lastkomb. A  | Combination | Min | -1367  | -51,932  | -0,385  | -0,0006615 | -0,1416 | 9,7555   | 45-3 | 0       |



|    |       |             |             |     |        |          |        |            |         |          |      |         |
|----|-------|-------------|-------------|-----|--------|----------|--------|------------|---------|----------|------|---------|
| 45 | 1,624 | Lastkomb. A | Combination | Min | -1367  | -18,933  | -0,385 | -0,0006615 | -0,0697 | 16,2631  | 45-3 | 0,37401 |
| 45 | 1,624 | Lastkomb. A | Combination | Min | -1367  | -18,933  | -0,385 | -0,0006615 | -0,0697 | 16,2631  | 45-3 | 0,37401 |
| 45 | 2,25  | Lastkomb. A | Combination | Min | -1368  | 4,229    | -0,385 | -0,0006615 | 0,0119  | 11,1158  | 45-3 | 1,00004 |
| 45 | 2,25  | Lastkomb. A | Combination | Min | -1346  | 12,682   | 0,432  | -0,0006615 | 0,0119  | 11,1158  | 45-4 | 0       |
| 45 | 3,249 | Lastkomb. A | Combination | Min | -1347  | 49,645   | 0,432  | -0,0006615 | -0,9139 | -50,5269 | 45-4 | 0,99904 |
| 45 | 3,249 | Lastkomb. A | Combination | Min | -1347  | 49,645   | 0,432  | -0,0006615 | -0,9139 | -50,5269 | 45-4 | 0,99904 |
| 45 | 3,25  | Lastkomb. A | Combination | Min | -1347  | 49,682   | 0,432  | -0,0006615 | -0,9151 | -50,6582 | 45-4 | 1,00004 |
| 46 | 0     | Lastkomb. A | Combination | Max | -494,4 | -50,365  | -0,446 | 0,0014     | -0,4567 | -15,371  | 46-1 | 0       |
| 46 | 1     | Lastkomb. A | Combination | Max | -495,7 | -13,367  | -0,446 | 0,0014     | 0,1332  | 62,6875  | 46-1 | 1,00003 |
| 46 | 1     | Lastkomb. A | Combination | Max | -487   | -13,367  | 0,419  | 0,0014     | 0,1332  | 62,6875  | 46-2 | 0       |
| 46 | 1,624 | Lastkomb. A | Combination | Max | -487,8 | 17,697   | 0,419  | 0,0014     | -0,0978 | 64,0248  | 46-2 | 0,62402 |
| 46 | 1,624 | Lastkomb. A | Combination | Max | -487,8 | 17,697   | 0,419  | 0,0014     | -0,0978 | 64,0248  | 46-2 | 0,62402 |
| 46 | 2     | Lastkomb. A | Combination | Max | -488,3 | 31,608   | 0,419  | 0,0014     | -0,1609 | 67,4155  | 46-2 | 1,00003 |
| 46 | 2     | Lastkomb. A | Combination | Max | -482,9 | 51,03    | -0,038 | 0,0014     | -0,1609 | 67,4155  | 46-3 | 0       |
| 46 | 3     | Lastkomb. A | Combination | Max | -484,2 | 124,998  | -0,038 | 0,0014     | -0,0971 | -13,8762 | 46-3 | 1,00003 |
| 46 | 3     | Lastkomb. A | Combination | Max | -482   | 143,114  | 0,034  | 0,0014     | -0,0971 | -13,8762 | 46-4 | 0       |
| 46 | 3,249 | Lastkomb. A | Combination | Max | -482,4 | 186,552  | 0,034  | 0,0014     | -0,0953 | -28,0605 | 46-4 | 0,24901 |
| 46 | 3,249 | Lastkomb. A | Combination | Max | -482,4 | 186,552  | 0,034  | 0,0014     | -0,0953 | -28,0605 | 46-4 | 0,24901 |
| 46 | 3,25  | Lastkomb. A | Combination | Max | -482,4 | 186,589  | 0,034  | 0,0014     | -0,0953 | -28,1221 | 46-4 | 0,25001 |
| 46 | 0     | Lastkomb. A | Combination | Min | -1337  | -151,611 | -1,156 | -0,0008421 | -1,0344 | -51,458  | 46-1 | 0       |
| 46 | 1     | Lastkomb. A | Combination | Min | -1337  | -95,452  | -1,156 | -0,0008421 | -0,1046 | 11,336   | 46-1 | 1,00003 |
| 46 | 1     | Lastkomb. A | Combination | Min | -1333  | -58,222  | 0,145  | -0,0008421 | -0,1046 | 11,336   | 46-2 | 0       |
| 46 | 1,624 | Lastkomb. A | Combination | Min | -1334  | -15,973  | 0,145  | -0,0008421 | -0,1993 | 17,6332  | 46-2 | 0,62402 |
| 46 | 1,624 | Lastkomb. A | Combination | Min | -1334  | -15,973  | 0,145  | -0,0008421 | -0,1993 | 17,6332  | 46-2 | 0,62402 |
| 46 | 2     | Lastkomb. A | Combination | Min | -1334  | -2,062   | 0,145  | -0,0008421 | -0,2999 | 11,3629  | 46-2 | 1,00003 |
| 46 | 2     | Lastkomb. A | Combination | Min | -1338  | 13,346   | -0,129 | -0,0008421 | -0,2999 | 11,3629  | 46-3 | 0       |
| 46 | 3     | Lastkomb. A | Combination | Min | -1339  | 50,344   | -0,129 | -0,0008421 | -0,19   | -42,7152 | 46-3 | 1,00003 |
| 46 | 3     | Lastkomb. A | Combination | Min | -1352  | 49,415   | -0,017 | -0,0008421 | -0,19   | -42,7152 | 46-4 | 0       |
| 46 | 3,249 | Lastkomb. A | Combination | Min | -1352  | 58,627   | -0,017 | -0,0008421 | -0,1935 | -79,9975 | 46-4 | 0,24901 |
| 46 | 3,249 | Lastkomb. A | Combination | Min | -1352  | 58,627   | -0,017 | -0,0008421 | -0,1935 | -79,9975 | 46-4 | 0,24901 |
| 46 | 3,25  | Lastkomb. A | Combination | Min | -1352  | 58,664   | -0,017 | -0,0008421 | -0,1935 | -80,169  | 46-4 | 0,25001 |
| 47 | 0     | Lastkomb. A | Combination | Max | -389,6 | -58,772  | 0,034  | 0,002      | -0,0953 | -28,0017 | 47-1 | 0       |
| 47 | 0,75  | Lastkomb. A | Combination | Max | -390,6 | -31,026  | 0,034  | 0,002      | -0,0902 | 32,7914  | 47-1 | 0,75001 |

|    |       |             |             |     |        |          |          |            |         |          |      |         |
|----|-------|-------------|-------------|-----|--------|----------|----------|------------|---------|----------|------|---------|
| 47 | 0,75  | Lastkomb. A | Combination | Max | -408,8 | -31,343  | 0,096    | 0,002      | -0,0902 | 32,7914  | 47-2 | 0       |
| 47 | 1,624 | Lastkomb. A | Combination | Max | -410   | 0,991    | 0,096    | 0,002      | -0,1039 | 72,4268  | 47-2 | 0,87401 |
| 47 | 1,624 | Lastkomb. A | Combination | Max | -410   | 0,991    | 0,096    | 0,002      | -0,1039 | 72,4268  | 47-2 | 0,87401 |
| 47 | 1,75  | Lastkomb. A | Combination | Max | -410,2 | 5,652    | 0,096    | 0,002      | -0,1059 | 77,8325  | 47-2 | 1,00001 |
| 47 | 1,75  | Lastkomb. A | Combination | Max | -431,2 | 13,007   | -0,762   | 0,002      | -0,1059 | 77,8325  | 47-3 | 0       |
| 47 | 2,75  | Lastkomb. A | Combination | Max | -432,6 | 86,487   | -0,762   | 0,002      | 1,7108  | 23,4292  | 47-3 | 1,00001 |
| 47 | 2,75  | Lastkomb. A | Combination | Max | -456,7 | 105,429  | 14,317   | 0,002      | 1,7108  | 23,4292  | 47-4 | 0       |
| 47 | 3,249 | Lastkomb. A | Combination | Max | -457,4 | 159,652  | 14,317   | 0,002      | -1,984  | -15,2788 | 47-4 | 0,49901 |
| 47 | 3,249 | Lastkomb. A | Combination | Max | -457,4 | 159,652  | 14,317   | 0,002      | -1,984  | -15,2788 | 47-4 | 0,49901 |
| 47 | 3,25  | Lastkomb. A | Combination | Max | -457,4 | 159,689  | 14,317   | 0,002      | -1,9893 | -15,3291 | 47-4 | 0,50001 |
| 47 | 0     | Lastkomb. A | Combination | Min | -1238  | -160,783 | -0,017   | -0,0003415 | -0,1935 | -78,4264 | 47-1 | 0       |
| 47 | 0,75  | Lastkomb. A | Combination | Min | -1239  | -133,037 | -0,017   | -0,0003415 | -0,2096 | -4,529   | 47-1 | 0,75001 |
| 47 | 0,75  | Lastkomb. A | Combination | Min | -1248  | -96,728  | 0,00203  | -0,0003415 | -0,2096 | -4,529   | 47-2 | 0       |
| 47 | 1,624 | Lastkomb. A | Combination | Min | -1249  | -45,233  | 0,00203  | -0,0003415 | -0,2881 | 17,9158  | 47-2 | 0,87401 |
| 47 | 1,624 | Lastkomb. A | Combination | Min | -1249  | -45,233  | 0,00203  | -0,0003415 | -0,2881 | 17,9158  | 47-2 | 0,87401 |
| 47 | 1,75  | Lastkomb. A | Combination | Min | -1249  | -40,571  | 0,00203  | -0,0003415 | -0,3    | 18,2282  | 47-2 | 1,00001 |
| 47 | 1,75  | Lastkomb. A | Combination | Min | -1266  | -4,852   | -2,011   | -0,0003415 | -0,3    | 18,2282  | 47-3 | 0       |
| 47 | 2,75  | Lastkomb. A | Combination | Min | -1268  | 32,143   | -2,011   | -0,0003415 | 0,612   | -5,9218  | 47-3 | 1,00001 |
| 47 | 2,75  | Lastkomb. A | Combination | Min | -1293  | 31,76    | 5,275    | -0,0003415 | 0,612   | -5,9218  | 47-4 | 0       |
| 47 | 3,249 | Lastkomb. A | Combination | Min | -1293  | 50,22    | 5,275    | -0,0003415 | -5,4334 | -56,2917 | 47-4 | 0,49901 |
| 47 | 3,249 | Lastkomb. A | Combination | Min | -1293  | 50,22    | 5,275    | -0,0003415 | -5,4334 | -56,2917 | 47-4 | 0,49901 |
| 47 | 3,25  | Lastkomb. A | Combination | Min | -1293  | 50,257   | 5,275    | -0,0003415 | -5,4477 | -56,4348 | 47-4 | 0,50001 |
| 48 | 0     | Lastkomb. A | Combination | Max | -457,2 | -48,522  | -5,247   | -0,0017    | -2,0549 | -13,4845 | 48-1 | 0       |
| 48 | 0,5   | Lastkomb. A | Combination | Max | -457,9 | -30,026  | -5,247   | -0,0017    | 1,6429  | 23,3214  | 48-1 | 0,5     |
| 48 | 0,5   | Lastkomb. A | Combination | Max | -485,3 | -30,332  | 1,95     | -0,0017    | 1,6429  | 23,3214  | 48-2 | 0       |
| 48 | 1     | Lastkomb. A | Combination | Max | -485,9 | -11,836  | 1,95     | -0,0017    | 0,6677  | 46,9528  | 48-2 | 0,5     |
| 48 | 1,5   | Lastkomb. A | Combination | Max | -486,6 | 6,661    | 1,95     | -0,0017    | -0,1475 | 74,5587  | 48-2 | 1,00001 |
| 48 | 1,5   | Lastkomb. A | Combination | Max | -517,6 | 8,268    | -0,037   | -0,0017    | -0,1475 | 74,5587  | 48-3 | 0       |
| 48 | 1,624 | Lastkomb. A | Combination | Max | -517,8 | 48,687   | -0,037   | -0,0017    | -0,1395 | 69,2574  | 48-3 | 0,124   |
| 48 | 1,624 | Lastkomb. A | Combination | Max | -517,8 | 48,687   | -0,037   | -0,0017    | -0,1395 | 69,2574  | 48-3 | 0,124   |
| 48 | 2,062 | Lastkomb. A | Combination | Max | -518,4 | 64,89    | -0,037   | -0,0017    | -0,1111 | 44,3838  | 48-3 | 0,562   |
| 48 | 2,5   | Lastkomb. A | Combination | Max | -519   | 81,093   | -0,037   | -0,0017    | -0,0828 | 26,5162  | 48-3 | 1,00001 |
| 48 | 2,5   | Lastkomb. A | Combination | Max | -553,7 | 100,179  | -0,00774 | -0,0017    | -0,0828 | 26,5162  | 48-4 | 0       |

|    |       |             |             |     |        |          |          |            |         |          |      |         |
|----|-------|-------------|-------------|-----|--------|----------|----------|------------|---------|----------|------|---------|
| 48 | 2,875 | Lastkomb. A | Combination | Max | -554,3 | 150,35   | -0,00774 | -0,0017    | -0,0695 | -13,0294 | 48-4 | 0,3745  |
| 48 | 3,249 | Lastkomb. A | Combination | Max | -554,8 | 164,204  | -0,00774 | -0,0017    | -0,0562 | -34,5754 | 48-4 | 0,74901 |
| 48 | 3,249 | Lastkomb. A | Combination | Max | -554,8 | 164,204  | -0,00774 | -0,0017    | -0,0562 | -34,5754 | 48-4 | 0,74901 |
| 48 | 3,25  | Lastkomb. A | Combination | Max | -554,8 | 164,241  | -0,00774 | -0,0017    | -0,0561 | -34,6398 | 48-4 | 0,75001 |
| 48 | 0     | Lastkomb. A | Combination | Min | -1294  | -156,233 | -14,293  | -0,0047    | -5,5089 | -55,124  | 48-1 | 0       |
| 48 | 0,5   | Lastkomb. A | Combination | Min | -1294  | -137,736 | -14,293  | -0,0047    | 0,5301  | -5,4878  | 48-1 | 0,5     |
| 48 | 0,5   | Lastkomb. A | Combination | Min | -1328  | -102,118 | 0,723    | -0,0047    | 0,5301  | -5,4878  | 48-2 | 0       |
| 48 | 1     | Lastkomb. A | Combination | Min | -1328  | -64,46   | 0,723    | -0,0047    | 0,1315  | 9,5728   | 48-2 | 0,5     |
| 48 | 1,5   | Lastkomb. A | Combination | Min | -1329  | -45,963  | 0,723    | -0,0047    | -0,3097 | 15,3851  | 48-2 | 1,00001 |
| 48 | 1,5   | Lastkomb. A | Combination | Min | -1371  | -9,391   | -0,157   | -0,0047    | -0,3097 | 15,3851  | 48-3 | 0       |
| 48 | 1,624 | Lastkomb. A | Combination | Min | -1371  | 2,211    | -0,157   | -0,0047    | -0,2904 | 15,3466  | 48-3 | 0,124   |
| 48 | 1,624 | Lastkomb. A | Combination | Min | -1371  | 2,211    | -0,157   | -0,0047    | -0,2904 | 15,3466  | 48-3 | 0,124   |
| 48 | 2,062 | Lastkomb. A | Combination | Min | -1372  | 18,414   | -0,157   | -0,0047    | -0,2254 | 6,8715   | 48-3 | 0,562   |
| 48 | 2,5   | Lastkomb. A | Combination | Min | -1372  | 34,617   | -0,157   | -0,0047    | -0,1836 | -8,7006  | 48-3 | 1,00001 |
| 48 | 2,5   | Lastkomb. A | Combination | Min | -1423  | 34,331   | -0,085   | -0,0047    | -0,1836 | -8,7006  | 48-4 | 0       |
| 48 | 2,875 | Lastkomb. A | Combination | Min | -1423  | 48,185   | -0,085   | -0,0047    | -0,1634 | -39,9544 | 48-4 | 0,3745  |
| 48 | 3,249 | Lastkomb. A | Combination | Min | -1424  | 62,038   | -0,085   | -0,0047    | -0,1433 | -87,1592 | 48-4 | 0,74901 |
| 48 | 3,249 | Lastkomb. A | Combination | Min | -1424  | 62,038   | -0,085   | -0,0047    | -0,1433 | -87,1592 | 48-4 | 0,74901 |
| 48 | 3,25  | Lastkomb. A | Combination | Min | -1424  | 62,075   | -0,085   | -0,0047    | -0,1433 | -87,3062 | 48-4 | 0,75001 |
| 49 | 0     | Lastkomb. A | Combination | Max | 70,544 | -58,348  | -0,00774 | -0,0007607 | -0,0545 | -31,9149 | 49-1 | 0       |
| 49 | 0,25  | Lastkomb. A | Combination | Max | 70,176 | -49,101  | -0,00774 | -0,0007607 | -0,0454 | -18,4837 | 49-1 | 0,25    |
| 49 | 0,25  | Lastkomb. A | Combination | Max | 32,369 | -49,576  | 0,033    | -0,0007607 | -0,0454 | -18,4837 | 49-2 | 0       |
| 49 | 0,75  | Lastkomb. A | Combination | Max | 31,634 | -31,081  | 0,033    | -0,0007607 | -0,0514 | 15,56    | 49-2 | 0,5     |
| 49 | 1,25  | Lastkomb. A | Combination | Max | 30,9   | -12,586  | 0,033    | -0,0007607 | -0,0573 | 61,7392  | 49-2 | 1       |
| 49 | 1,25  | Lastkomb. A | Combination | Max | -6,837 | -12,586  | -0,158   | -0,0007607 | -0,0573 | 61,7392  | 49-3 | 0       |
| 49 | 1,624 | Lastkomb. A | Combination | Max | -7,387 | 17,585   | -0,158   | -0,0007607 | 0,094   | 58,2008  | 49-3 | 0,374   |
| 49 | 1,624 | Lastkomb. A | Combination | Max | -7,387 | 17,585   | -0,158   | -0,0007607 | 0,094   | 58,2008  | 49-3 | 0,374   |
| 49 | 1,937 | Lastkomb. A | Combination | Max | -7,847 | 29,163   | -0,158   | -0,0007607 | 0,23    | 56,1421  | 49-3 | 0,687   |
| 49 | 2,25  | Lastkomb. A | Combination | Max | -8,307 | 40,741   | -0,158   | -0,0007607 | 0,3661  | 55,6728  | 49-3 | 1       |
| 49 | 2,25  | Lastkomb. A | Combination | Max | -46,33 | 60,163   | 1,088    | -0,0007607 | 0,3661  | 55,6728  | 49-4 | 0       |
| 49 | 2,75  | Lastkomb. A | Combination | Max | -47,07 | 115,829  | 1,088    | -0,0007607 | -0,0488 | 5,3068   | 49-4 | 0,4995  |
| 49 | 3,249 | Lastkomb. A | Combination | Max | -47,8  | 134,305  | 1,088    | -0,0007607 | -0,258  | -20,4548 | 49-4 | 0,999   |
| 49 | 3,249 | Lastkomb. A | Combination | Max | -47,8  | 134,305  | 1,088    | -0,0007607 | -0,258  | -20,4548 | 49-4 | 0,999   |



|    |       |             |             |     |        |          |         |            |         |          |      |         |
|----|-------|-------------|-------------|-----|--------|----------|---------|------------|---------|----------|------|---------|
| 49 | 3,25  | Lastkomb. A | Combination | Max | -47,8  | 134,342  | 1,088   | -0,0007607 | -0,2584 | -20,5098 | 49-4 | 1       |
| 49 | 0     | Lastkomb. A | Combination | Min | -651,8 | -185,454 | -0,085  | -0,0021    | -0,1418 | -84,5836 | 49-1 | 0       |
| 49 | 0,25  | Lastkomb. A | Combination | Min | -652,2 | -176,207 | -0,085  | -0,0021    | -0,1303 | -47,4108 | 49-1 | 0,25    |
| 49 | 0,25  | Lastkomb. A | Combination | Min | -697,7 | -142,464 | -0,011  | -0,0021    | -0,1303 | -47,4108 | 49-2 | 0       |
| 49 | 0,75  | Lastkomb. A | Combination | Min | -698,4 | -104,807 | -0,011  | -0,0021    | -0,1467 | -10,4209 | 49-2 | 0,5     |
| 49 | 1,25  | Lastkomb. A | Combination | Min | -699,1 | -86,313  | -0,011  | -0,0021    | -0,1631 | 5,967    | 49-2 | 1       |
| 49 | 1,25  | Lastkomb. A | Combination | Min | -748,8 | -48,863  | -0,476  | -0,0021    | -0,1631 | 5,967    | 49-3 | 0       |
| 49 | 1,624 | Lastkomb. A | Combination | Min | -749,3 | -15,867  | -0,476  | -0,0021    | -0,104  | 12,1796  | 49-3 | 0,374   |
| 49 | 1,624 | Lastkomb. A | Combination | Min | -749,3 | -15,867  | -0,476  | -0,0021    | -0,104  | 12,1796  | 49-3 | 0,374   |
| 49 | 1,937 | Lastkomb. A | Combination | Min | -749,7 | -4,289   | -0,476  | -0,0021    | -0,0545 | 12,5155  | 49-3 | 0,687   |
| 49 | 2,25  | Lastkomb. A | Combination | Min | -750,2 | 7,288    | -0,476  | -0,0021    | -0,005  | 6,6891   | 49-3 | 1       |
| 49 | 2,25  | Lastkomb. A | Combination | Min | -805,7 | 13,461   | 0,362   | -0,0021    | -0,005  | 6,6891   | 49-4 | 0       |
| 49 | 2,75  | Lastkomb. A | Combination | Min | -806,3 | 31,938   | 0,362   | -0,0021    | -0,2157 | -12,4074 | 49-4 | 0,4995  |
| 49 | 3,249 | Lastkomb. A | Combination | Min | -807,1 | 50,414   | 0,362   | -0,0021    | -0,7327 | -59,5886 | 49-4 | 0,999   |
| 49 | 3,249 | Lastkomb. A | Combination | Min | -807,1 | 50,414   | 0,362   | -0,0021    | -0,7327 | -59,5886 | 49-4 | 0,999   |
| 49 | 3,25  | Lastkomb. A | Combination | Min | -807,1 | 50,451   | 0,362   | -0,0021    | -0,7338 | -59,723  | 49-4 | 1       |
| 50 | 0     | Lastkomb. A | Combination | Max | 968,92 | -42,243  | -4,262  | 0,0002576  | -1,4867 | -17,3372 | 50-1 | 0       |
| 50 | 0,25  | Lastkomb. A | Combination | Max | 968,76 | -32,987  | -4,262  | 0,0002576  | 0,1184  | -4,9576  | 50-1 | 0,25008 |
| 50 | 0,25  | Lastkomb. A | Combination | Max | 960,7  | -32,953  | 0,259   | 0,0002576  | 0,1184  | -4,9576  | 50-2 | 0       |
| 50 | 1,25  | Lastkomb. A | Combination | Max | 960,07 | 4,072    | 0,259   | 0,0002576  | -0,136  | 51,3291  | 50-2 | 1,0003  |
| 50 | 1,25  | Lastkomb. A | Combination | Max | 958,61 | 4,072    | -0,449  | 0,0002576  | -0,136  | 51,3291  | 50-3 | 0       |
| 50 | 1,438 | Lastkomb. A | Combination | Max | 958,49 | 47,224   | -0,449  | 0,0002576  | -0,0344 | 43,5746  | 50-3 | 0,18756 |
| 50 | 2,251 | Lastkomb. A | Combination | Max | 957,98 | 77,306   | -0,449  | 0,0002576  | 0,5154  | 6,2188   | 50-3 | 1,0003  |
| 50 | 2,251 | Lastkomb. A | Combination | Max | 963,2  | 96,705   | -0,471  | 0,0002576  | 0,5154  | 6,2188   | 50-4 | 0       |
| 50 | 2,875 | Lastkomb. A | Combination | Max | 962,81 | 158,281  | -0,471  | 0,0002576  | 0,9999  | -37,7149 | 50-4 | 0,62419 |
| 50 | 2,875 | Lastkomb. A | Combination | Max | 962,81 | 158,281  | -0,471  | 0,0002576  | 0,9999  | -37,7149 | 50-4 | 0,62419 |
| 50 | 2,876 | Lastkomb. A | Combination | Max | 962,81 | 158,318  | -0,471  | 0,0002576  | 1,0007  | -37,7743 | 50-4 | 0,62519 |
| 50 | 0     | Lastkomb. A | Combination | Min | 372,97 | -153,38  | -15,917 | -0,0008273 | -3,9873 | -49,5866 | 50-1 | 0       |
| 50 | 0,25  | Lastkomb. A | Combination | Min | 372,82 | -144,124 | -15,917 | -0,0008273 | -0,7672 | -21,4051 | 50-1 | 0,25008 |
| 50 | 0,25  | Lastkomb. A | Combination | Min | 327,68 | -105,936 | -0,477  | -0,0008273 | -0,7672 | -21,4051 | 50-2 | 0       |
| 50 | 1,25  | Lastkomb. A | Combination | Min | 327,53 | -49,755  | -0,477  | -0,0008273 | -0,2903 | 3,5558   | 50-2 | 1,0003  |
| 50 | 1,25  | Lastkomb. A | Combination | Min | 284,91 | -11,019  | -0,758  | -0,0008273 | -0,2903 | 3,5558   | 50-3 | 0       |
| 50 | 1,438 | Lastkomb. A | Combination | Min | 285,26 | 3,481    | -0,758  | -0,0008273 | -0,1498 | 3,3216   | 50-3 | 0,18756 |

|    |       |             |             |     |        |           |        |            |         |           |      |         |
|----|-------|-------------|-------------|-----|--------|-----------|--------|------------|---------|-----------|------|---------|
| 50 | 2,251 | Lastkomb. A | Combination | Min | 284,75 | 33,564    | -0,758 | -0,0008273 | 0,3018  | -17,8551  | 50-3 | 1,0003  |
| 50 | 2,251 | Lastkomb. A | Combination | Min | 243,07 | 33,561    | -0,789 | -0,0008273 | 0,3018  | -17,8551  | 50-4 | 0       |
| 50 | 2,875 | Lastkomb. A | Combination | Min | 243,16 | 56,664    | -0,789 | -0,0008273 | 0,5961  | -86,3696  | 50-4 | 0,62419 |
| 50 | 2,875 | Lastkomb. A | Combination | Min | 243,16 | 56,664    | -0,789 | -0,0008273 | 0,5961  | -86,3696  | 50-4 | 0,62419 |
| 50 | 2,876 | Lastkomb. A | Combination | Min | 243,15 | 56,701    | -0,789 | -0,0008273 | 0,5965  | -86,5085  | 50-4 | 0,62519 |
| 51 | 0     | Lastkomb. A | Combination | Max | 2470,6 | -38,156   | -0,47  | -0,008     | 0,9887  | -30,4167  | 51-1 | 0       |
| 51 | 0,375 | Lastkomb. A | Combination | Max | 2470,4 | -23,841   | -0,47  | -0,008     | 1,2816  | -14,3521  | 51-1 | 0,37512 |
| 51 | 0,375 | Lastkomb. A | Combination | Max | 2422   | -23,969   | -0,461 | -0,008     | 1,2816  | -14,3521  | 51-2 | 0       |
| 51 | 1,375 | Lastkomb. A | Combination | Max | 2421,4 | 14,205    | -0,461 | -0,008     | 2,0845  | 33,8114   | 51-2 | 1,00033 |
| 51 | 1,375 | Lastkomb. A | Combination | Max | 2381,4 | 14,205    | -0,316 | -0,008     | 2,0845  | 33,8114   | 51-3 | 0       |
| 51 | 1,438 | Lastkomb. A | Combination | Max | 2381,3 | 49,542    | -0,316 | -0,008     | 2,1746  | 31,2402   | 51-3 | 0,06252 |
| 51 | 2,376 | Lastkomb. A | Combination | Max | 2380,8 | 85,33     | -0,316 | -0,008     | 3,5251  | -19,4776  | 51-3 | 1,00033 |
| 51 | 2,376 | Lastkomb. A | Combination | Max | 2348,9 | 105,27    | 4,809  | -0,008     | 3,5251  | -19,4776  | 51-4 | 0       |
| 51 | 2,875 | Lastkomb. A | Combination | Max | 2348,6 | 162,414   | 4,809  | -0,008     | 3,3453  | -51,8158  | 51-4 | 0,49916 |
| 51 | 2,875 | Lastkomb. A | Combination | Max | 2348,6 | 162,414   | 4,809  | -0,008     | 3,3453  | -51,8158  | 51-4 | 0,49916 |
| 51 | 2,876 | Lastkomb. A | Combination | Max | 2348,6 | 162,453   | 4,809  | -0,008     | 3,348   | -51,8781  | 51-4 | 0,50016 |
| 51 | 0     | Lastkomb. A | Combination | Min | 1557,9 | -152,237  | -0,789 | -0,02      | 0,5839  | -75,8097  | 51-1 | 0       |
| 51 | 0,375 | Lastkomb. A | Combination | Min | 1557,7 | -137,922  | -0,789 | -0,02      | 0,76    | -35,9608  | 51-1 | 0,37512 |
| 51 | 0,375 | Lastkomb. A | Combination | Min | 1539,8 | -100,208  | -0,81  | -0,02      | 0,76    | -35,9608  | 51-2 | 0       |
| 51 | 1,375 | Lastkomb. A | Combination | Min | 1539,3 | -42,879   | -0,81  | -0,02      | 1,2216  | -15,3723  | 51-2 | 1,00033 |
| 51 | 1,375 | Lastkomb. A | Combination | Min | 1526,7 | -4,526    | -1,44  | -0,02      | 1,2216  | -15,3723  | 51-3 | 0       |
| 51 | 1,438 | Lastkomb. A | Combination | Min | 1526,6 | 4,958     | -1,44  | -0,02      | 1,2527  | -15,8875  | 51-3 | 0,06252 |
| 51 | 2,376 | Lastkomb. A | Combination | Min | 1526,1 | 40,746    | -1,44  | -0,02      | 1,7195  | -48,2277  | 51-3 | 1,00033 |
| 51 | 2,376 | Lastkomb. A | Combination | Min | 1518,7 | 41,312    | -2,714 | -0,02      | 1,7195  | -48,2277  | 51-4 | 0       |
| 51 | 2,875 | Lastkomb. A | Combination | Min | 1518,4 | 60,361    | -2,714 | -0,02      | 1,1247  | -101,3344 | 51-4 | 0,49916 |
| 51 | 2,875 | Lastkomb. A | Combination | Min | 1518,4 | 60,361    | -2,714 | -0,02      | 1,1247  | -101,3344 | 51-4 | 0,49916 |
| 51 | 2,876 | Lastkomb. A | Combination | Min | 1518,4 | 60,399    | -2,714 | -0,02      | 1,1199  | -101,4587 | 51-4 | 0,50016 |
| 52 | 0     | Lastkomb. A | Combination | Max | -560,9 | -9,36E-17 | 2,258  | 0,0156     | 2,3761  | 0         | 52-1 | 0       |
| 52 | 2,014 | Lastkomb. A | Combination | Max | -559,4 | 0         | 0,729  | 0,0156     | 0,963   | 9,427E-17 | 52-1 | 2,01421 |
| 52 | 4,028 | Lastkomb. A | Combination | Max | -557,9 | 9,361E-17 | -0,8   | 0,0156     | 5,4174  | 0         | 52-1 | 4,02842 |
| 52 | 0     | Lastkomb. A | Combination | Min | -1339  | -9,36E-17 | 0,082  | 0,013      | -0,4123 | 0         | 52-1 | 0       |
| 52 | 2,014 | Lastkomb. A | Combination | Min | -1338  | 0         | -1,447 | 0,013      | -0,6315 | 9,427E-17 | 52-1 | 2,01421 |
| 52 | 4,028 | Lastkomb. A | Combination | Min | -1336  | 9,361E-17 | -2,976 | 0,013      | -0,5599 | 0         | 52-1 | 4,02842 |

|    |       |             |             |     |        |           |          |            |         |            |      |         |
|----|-------|-------------|-------------|-----|--------|-----------|----------|------------|---------|------------|------|---------|
| 53 | 0     | Lastkomb. A | Combination | Max | 1035,3 | -0,987    | -0,0056  | -0,0006151 | -0,0139 | 0          | 53-1 | 0       |
| 53 | 2     | Lastkomb. A | Combination | Max | 1034,3 | -2,98E-17 | -0,0056  | -0,0006151 | -0,0027 | 0,9864     | 53-1 | 1,99966 |
| 53 | 3,999 | Lastkomb. A | Combination | Max | 1033,3 | 0,987     | -0,0056  | -0,0006151 | 0,0136  | -2,234E-17 | 53-1 | 3,99932 |
| 53 | 0     | Lastkomb. A | Combination | Min | 381,87 | -0,987    | -0,00907 | -0,0013    | -0,0227 | 0          | 53-1 | 0       |
| 53 | 2     | Lastkomb. A | Combination | Min | 380,92 | -2,98E-17 | -0,00907 | -0,0013    | -0,0048 | 0,9864     | 53-1 | 1,99966 |
| 53 | 3,999 | Lastkomb. A | Combination | Min | 379,97 | 0,987     | -0,00907 | -0,0013    | 0,0084  | -2,234E-17 | 53-1 | 3,99932 |
| 54 | 0     | Lastkomb. A | Combination | Max | -220,4 | -5,99E-17 | 1,101    | -0,0012    | -0,1968 | 0          | 54-1 | 0       |
| 54 | 2,05  | Lastkomb. A | Combination | Max | -219,4 | 0         | 0,122    | -0,0012    | -0,5014 | 6,144E-17  | 54-1 | 2,05026 |
| 54 | 4,101 | Lastkomb. A | Combination | Max | -218,4 | 5,994E-17 | -0,857   | -0,0012    | 3,6331  | 0          | 54-1 | 4,10052 |
| 54 | 0     | Lastkomb. A | Combination | Min | -764,2 | -5,99E-17 | -0,548   | -0,0028    | -2,6291 | 0          | 54-1 | 0       |
| 54 | 2,05  | Lastkomb. A | Combination | Min | -763,2 | 0         | -1,527   | -0,0028    | -1,5691 | 6,144E-17  | 54-1 | 2,05026 |
| 54 | 4,101 | Lastkomb. A | Combination | Min | -762,2 | 5,994E-17 | -2,506   | -0,0028    | -0,6967 | 0          | 54-1 | 4,10052 |
| 55 | 0     | Lastkomb. A | Combination | Max | 484,18 | -4,24E-17 | 0,97     | 0,0007215  | 0,8507  | 0          | 55-1 | 0       |
| 55 | 2,035 | Lastkomb. A | Combination | Max | 483,48 | 0         | 0,278    | 0,0007215  | -0,419  | 4,31E-17   | 55-1 | 2,03548 |
| 55 | 4,071 | Lastkomb. A | Combination | Max | 482,79 | 4,235E-17 | -0,414   | 0,0007215  | 1,3454  | 0          | 55-1 | 4,07096 |
| 55 | 0     | Lastkomb. A | Combination | Min | 52,084 | -4,24E-17 | -0,296   | 0,0002976  | -2,6761 | 0          | 55-1 | 0       |
| 55 | 2,035 | Lastkomb. A | Combination | Min | 51,39  | 0         | -0,988   | 0,0002976  | -1,3993 | 4,31E-17   | 55-1 | 2,03548 |
| 55 | 4,071 | Lastkomb. A | Combination | Min | 50,697 | 4,235E-17 | -1,68    | 0,0002976  | -0,2809 | 0          | 55-1 | 4,07096 |
| 56 | 0     | Lastkomb. A | Combination | Max | 156,54 | -4,24E-17 | 1,314    | -0,000473  | 0,7499  | 0          | 56-1 | 0       |
| 56 | 2,087 | Lastkomb. A | Combination | Max | 157,27 | 0         | 0,623    | -0,000473  | -0,519  | 4,419E-17  | 56-1 | 2,08697 |
| 56 | 4,174 | Lastkomb. A | Combination | Max | 158    | 4,235E-17 | -0,069   | -0,000473  | 1,4351  | 0          | 56-1 | 4,17393 |
| 56 | 0     | Lastkomb. A | Combination | Min | -243,9 | -4,24E-17 | 0,101    | -0,0008817 | -1,0296 | 0          | 56-1 | 0       |
| 56 | 2,087 | Lastkomb. A | Combination | Min | -243,2 | 0         | -0,59    | -0,0008817 | -1,3812 | 4,419E-17  | 56-1 | 2,08697 |
| 56 | 4,174 | Lastkomb. A | Combination | Min | -242,4 | 4,235E-17 | -1,282   | -0,0008817 | -1,8484 | 0          | 56-1 | 4,17393 |
| 57 | 0     | Lastkomb. A | Combination | Max | 4,697  | -4,24E-17 | 1,49     | 0,0008448  | 1,9331  | 0          | 57-1 | 0       |
| 57 | 2,072 | Lastkomb. A | Combination | Max | 3,979  | 0         | 0,798    | 0,0008448  | -0,4374 | 4,387E-17  | 57-1 | 2,0719  |
| 57 | 4,144 | Lastkomb. A | Combination | Max | 3,262  | 4,235E-17 | 0,107    | 0,0008448  | 0,4148  | 0          | 57-1 | 4,1438  |
| 57 | 0     | Lastkomb. A | Combination | Min | -411,9 | -4,24E-17 | 0,225    | 0,0005046  | -1,52   | 0          | 57-1 | 0       |
| 57 | 2,072 | Lastkomb. A | Combination | Min | -412,6 | 0         | -0,467   | 0,0005046  | -1,3026 | 4,387E-17  | 57-1 | 2,0719  |
| 57 | 4,144 | Lastkomb. A | Combination | Min | -413,4 | 4,235E-17 | -1,159   | 0,0005046  | -1,3748 | 0          | 57-1 | 4,1438  |
| 58 | 0     | Lastkomb. A | Combination | Max | 661,14 | -4,24E-17 | 1,672    | 0,00003129 | 1,6129  | 0          | 58-1 | 0       |
| 58 | 2,124 | Lastkomb. A | Combination | Max | 661,89 | 0         | 0,98     | 0,00003129 | -0,4205 | 4,497E-17  | 58-1 | 2,12382 |
| 58 | 4,248 | Lastkomb. A | Combination | Max | 662,64 | 4,235E-17 | 0,289    | 0,00003129 | 0,6021  | 0          | 58-1 | 4,24765 |



|    |       |             |             |     |        |           |         |            |           |            |      |         |
|----|-------|-------------|-------------|-----|--------|-----------|---------|------------|-----------|------------|------|---------|
| 58 | 0     | Lastkomb. A | Combination | Min | 201,08 | -4,24E-17 | 0,556   | -0,0001464 | 0,0257    | 0          | 58-1 | 0       |
| 58 | 2,124 | Lastkomb. A | Combination | Min | 201,84 | 0         | -0,136  | -0,0001464 | -1,2882   | 4,497E-17  | 58-1 | 2,12382 |
| 58 | 4,248 | Lastkomb. A | Combination | Min | 202,59 | 4,235E-17 | -0,827  | -0,0001464 | -2,5505   | 0          | 58-1 | 4,24765 |
| 59 | 0     | Lastkomb. A | Combination | Max | -404,6 | -6,89E-17 | 2,749   | 0,0023     | 4,1895    | 0          | 59-1 | 0       |
| 59 | 2,109 | Lastkomb. A | Combination | Max | -405,9 | 0         | 1,623   | 0,0023     | -0,4187   | 7,265E-17  | 59-1 | 2,10852 |
| 59 | 4,217 | Lastkomb. A | Combination | Max | -407,1 | 6,891E-17 | 0,498   | 0,0023     | -0,0867   | 0          | 59-1 | 4,21704 |
| 59 | 0     | Lastkomb. A | Combination | Min | -906,7 | -6,89E-17 | 1,069   | 0,0018     | -0,323    | 0          | 59-1 | 0       |
| 59 | 2,109 | Lastkomb. A | Combination | Min | -907,9 | 0         | -0,056  | 0,0018     | -1,5185   | 7,265E-17  | 59-1 | 2,10852 |
| 59 | 4,217 | Lastkomb. A | Combination | Min | -909,1 | 6,891E-17 | -1,181  | 0,0018     | -2,6557   | 0          | 59-1 | 4,21704 |
| 60 | 0     | Lastkomb. A | Combination | Max | 1144,4 | -1,182    | 0,00393 | 0,0003125  | 0,0101    | 0          | 60-1 | 0       |
| 60 | 2,162 | Lastkomb. A | Combination | Max | 1145,7 | 1,787E-16 | 0,00393 | 0,0003125  | 0,0021    | 1,2777     | 60-1 | 2,16164 |
| 60 | 4,323 | Lastkomb. A | Combination | Max | 1147   | 1,182     | 0,00393 | 0,0003125  | -0,0058   | -8,576E-16 | 60-1 | 4,32328 |
| 60 | 0     | Lastkomb. A | Combination | Min | 565,5  | -1,182    | 0,00308 | 0,00006284 | 0,0075    | 0          | 60-1 | 0       |
| 60 | 2,162 | Lastkomb. A | Combination | Min | 566,82 | 1,787E-16 | 0,00308 | 0,00006284 | 0,0006166 | 1,2777     | 60-1 | 2,16164 |
| 60 | 4,323 | Lastkomb. A | Combination | Min | 568,15 | 1,182     | 0,00308 | 0,00006284 | -0,0076   | -8,576E-16 | 60-1 | 4,32328 |
| 61 | 0     | Lastkomb. A | Combination | Max | -704,1 | -9,74E-17 | 4,51    | -0,0017    | 8,5067    | 0          | 61-1 | 0       |
| 61 | 2,146 | Lastkomb. A | Combination | Max | -705,8 | 0         | 2,92    | -0,0017    | 0,5339    | 1,045E-16  | 61-1 | 2,14615 |
| 61 | 4,292 | Lastkomb. A | Combination | Max | -707,6 | 9,735E-17 | 1,33    | -0,0017    | -0,1612   | 0          | 61-1 | 4,2923  |
| 61 | 0     | Lastkomb. A | Combination | Min | -1361  | -9,74E-17 | 1,861   | -0,0032    | 1,004     | 0          | 61-1 | 0       |
| 61 | 2,146 | Lastkomb. A | Combination | Min | -1363  | 0         | 0,271   | -0,0032    | -1,5286   | 1,045E-16  | 61-1 | 2,14615 |
| 61 | 4,292 | Lastkomb. A | Combination | Min | -1365  | 9,735E-17 | -1,318  | -0,0032    | -4,027    | 0          | 61-1 | 4,2923  |
| 62 | 0     | Lastkomb. A | Combination | Max | 1577,5 | -1,598    | 0,00369 | 0,0038     | -0,0063   | 0          | 62-1 | 0       |
| 62 | 2,2   | Lastkomb. A | Combination | Max | 1579,4 | -2,31E-16 | 0,00369 | 0,0038     | -0,0101   | 1,7571     | 62-1 | 2,19965 |
| 62 | 4,399 | Lastkomb. A | Combination | Max | 1581,2 | 1,598     | 0,00369 | 0,0038     | -0,0096   | 1,031E-15  | 62-1 | 4,3993  |
| 62 | 0     | Lastkomb. A | Combination | Min | 843,52 | -1,598    | -0,0004 | 0,0022     | -0,0115   | 0          | 62-1 | 0       |
| 62 | 2,2   | Lastkomb. A | Combination | Min | 845,37 | -2,31E-16 | -0,0004 | 0,0022     | -0,0178   | 1,7571     | 62-1 | 2,19965 |
| 62 | 4,399 | Lastkomb. A | Combination | Min | 847,22 | 1,598     | -0,0004 | 0,0022     | -0,0259   | 1,031E-15  | 62-1 | 4,3993  |
| 63 | 0     | Lastkomb. A | Combination | Max | -955,6 | -1,2E-16  | 4,737   | 0,0032     | 14,0534   | 0          | 63-1 | 0       |
| 63 | 2,184 | Lastkomb. A | Combination | Max | -957,9 | 0         | 2,772   | 0,0032     | 5,8541    | 1,314E-16  | 63-1 | 2,18391 |
| 63 | 4,368 | Lastkomb. A | Combination | Max | -960,1 | 1,203E-16 | 0,806   | 0,0032     | 8,2176    | 0          | 63-1 | 4,36782 |
| 63 | 0     | Lastkomb. A | Combination | Min | -1742  | -1,2E-16  | 0,432   | 0,002      | 1,5181    | 0          | 63-1 | 0       |
| 63 | 2,184 | Lastkomb. A | Combination | Min | -1744  | 0         | -1,534  | 0,002      | 2,7011    | 1,314E-16  | 63-1 | 2,18391 |
| 63 | 4,368 | Lastkomb. A | Combination | Min | -1746  | 1,203E-16 | -3,499  | 0,002      | 1,947     | 0          | 63-1 | 4,36782 |

|    |       |             |             |     |        |        |         |         |         |          |      |         |
|----|-------|-------------|-------------|-----|--------|--------|---------|---------|---------|----------|------|---------|
| 64 | 0     | Lastkomb. A | Combination | Max | 731,77 | -3,692 | -0,049  | 0,0033  | -0,1634 | -5,3864  | 64-1 | 0       |
| 64 | 0,479 | Lastkomb. A | Combination | Max | 731,78 | -3,26  | -0,049  | 0,0033  | -0,1382 | -3,7209  | 64-1 | 0,47918 |
| 64 | 0,958 | Lastkomb. A | Combination | Max | 731,78 | -2,828 | -0,049  | 0,0033  | -0,1019 | -2,2625  | 64-1 | 0,95836 |
| 64 | 1,438 | Lastkomb. A | Combination | Max | 731,78 | -2,395 | -0,049  | 0,0033  | -0,0647 | -1,0111  | 64-1 | 1,43754 |
| 64 | 1,917 | Lastkomb. A | Combination | Max | 731,79 | -1,963 | -0,049  | 0,0033  | -0,0275 | 0,0332   | 64-1 | 1,91672 |
| 64 | 2,396 | Lastkomb. A | Combination | Max | 731,79 | -1,531 | -0,049  | 0,0033  | 0,0098  | 1,0272   | 64-1 | 2,3959  |
| 64 | 2,875 | Lastkomb. A | Combination | Max | 731,79 | -1,099 | -0,049  | 0,0033  | 0,047   | 2,5411   | 64-1 | 2,87508 |
| 64 | 3,354 | Lastkomb. A | Combination | Max | 731,79 | -0,667 | -0,049  | 0,0033  | 0,0843  | 3,8479   | 64-1 | 3,35425 |
| 64 | 3,833 | Lastkomb. A | Combination | Max | 731,8  | -0,235 | -0,049  | 0,0033  | 0,1215  | 4,9476   | 64-1 | 3,83343 |
| 64 | 4,313 | Lastkomb. A | Combination | Max | 731,8  | 0,197  | -0,049  | 0,0033  | 0,1597  | 5,8404   | 64-1 | 4,31261 |
| 64 | 4,792 | Lastkomb. A | Combination | Max | 731,8  | 0,629  | -0,049  | 0,0033  | 0,1984  | 6,5261   | 64-1 | 4,79179 |
| 64 | 5,271 | Lastkomb. A | Combination | Max | 731,81 | 1,061  | -0,049  | 0,0033  | 0,2372  | 7,0047   | 64-1 | 5,27097 |
| 64 | 5,75  | Lastkomb. A | Combination | Max | 731,81 | 1,493  | -0,049  | 0,0033  | 0,277   | 7,2763   | 64-1 | 5,75015 |
| 64 | 0     | Lastkomb. A | Combination | Min | 17,491 | -5,539 | -0,084  | 0,0027  | -0,225  | -10,1269 | 64-1 | 0       |
| 64 | 0,479 | Lastkomb. A | Combination | Min | 17,494 | -5,107 | -0,084  | 0,0027  | -0,1904 | -7,5919  | 64-1 | 0,47918 |
| 64 | 0,958 | Lastkomb. A | Combination | Min | 17,497 | -4,675 | -0,084  | 0,0027  | -0,1588 | -5,2639  | 64-1 | 0,95836 |
| 64 | 1,438 | Lastkomb. A | Combination | Min | 17,5   | -4,243 | -0,084  | 0,0027  | -0,1313 | -3,1429  | 64-1 | 1,43754 |
| 64 | 1,917 | Lastkomb. A | Combination | Min | 17,503 | -3,811 | -0,084  | 0,0027  | -0,1039 | -1,6207  | 64-1 | 1,91672 |
| 64 | 2,396 | Lastkomb. A | Combination | Min | 17,506 | -3,379 | -0,084  | 0,0027  | -0,0764 | -0,621   | 64-1 | 2,3959  |
| 64 | 2,875 | Lastkomb. A | Combination | Min | 17,509 | -2,947 | -0,084  | 0,0027  | -0,049  | 0,1716   | 64-1 | 2,87508 |
| 64 | 3,354 | Lastkomb. A | Combination | Min | 17,513 | -2,515 | -0,084  | 0,0027  | -0,0215 | 0,7573   | 64-1 | 3,35425 |
| 64 | 3,833 | Lastkomb. A | Combination | Min | 17,516 | -2,083 | -0,084  | 0,0027  | 0,0026  | 1,1359   | 64-1 | 3,83343 |
| 64 | 4,313 | Lastkomb. A | Combination | Min | 17,519 | -1,651 | -0,084  | 0,0027  | 0,0267  | 1,3074   | 64-1 | 4,31261 |
| 64 | 4,792 | Lastkomb. A | Combination | Min | 17,522 | -1,219 | -0,084  | 0,0027  | 0,0506  | 1,2719   | 64-1 | 4,79179 |
| 64 | 5,271 | Lastkomb. A | Combination | Min | 17,525 | -0,787 | -0,084  | 0,0027  | 0,0745  | 1,0261   | 64-1 | 5,27097 |
| 64 | 5,75  | Lastkomb. A | Combination | Min | 17,528 | -0,355 | -0,084  | 0,0027  | 0,0983  | 0,5706   | 64-1 | 5,75015 |
| 65 | 0     | Lastkomb. A | Combination | Max | 1923,2 | -4,202 | 0,00033 | -0,0016 | -0,0197 | 2,88     | 65-1 | 0       |
| 65 | 0,479 | Lastkomb. A | Combination | Max | 1923,2 | -3,514 | 0,00033 | -0,0016 | -0,0199 | 5,1577   | 65-1 | 0,47918 |
| 65 | 0,958 | Lastkomb. A | Combination | Max | 1923,2 | -2,825 | 0,00033 | -0,0016 | -0,02   | 7,2028   | 65-1 | 0,95836 |
| 65 | 1,438 | Lastkomb. A | Combination | Max | 1923,2 | -2,136 | 0,00033 | -0,0016 | -0,0202 | 8,9178   | 65-1 | 1,43754 |
| 65 | 1,917 | Lastkomb. A | Combination | Max | 1923,2 | -1,448 | 0,00033 | -0,0016 | -0,0202 | 10,3029  | 65-1 | 1,91672 |
| 65 | 2,396 | Lastkomb. A | Combination | Max | 1923,2 | -0,759 | 0,00033 | -0,0016 | -0,0199 | 11,358   | 65-1 | 2,3959  |
| 65 | 2,875 | Lastkomb. A | Combination | Max | 1923,2 | -0,07  | 0,00033 | -0,0016 | -0,0197 | 12,3021  | 65-1 | 2,87508 |

|    |       |             |             |     |        |        |         |            |         |         |      |         |
|----|-------|-------------|-------------|-----|--------|--------|---------|------------|---------|---------|------|---------|
| 65 | 3,354 | Lastkomb. A | Combination | Max | 1923,2 | 0,619  | 0,00033 | -0,0016    | -0,0044 | 12,9439 | 65-1 | 3,35425 |
| 65 | 3,833 | Lastkomb. A | Combination | Max | 1923,2 | 1,307  | 0,00033 | -0,0016    | 0,0115  | 13,2556 | 65-1 | 3,83343 |
| 65 | 4,313 | Lastkomb. A | Combination | Max | 1923,2 | 1,996  | 0,00033 | -0,0016    | 0,0275  | 13,2374 | 65-1 | 4,31261 |
| 65 | 4,792 | Lastkomb. A | Combination | Max | 1923,2 | 2,685  | 0,00033 | -0,0016    | 0,0435  | 12,8891 | 65-1 | 4,79179 |
| 65 | 5,271 | Lastkomb. A | Combination | Max | 1923,2 | 3,373  | 0,00033 | -0,0016    | 0,0594  | 12,2108 | 65-1 | 5,27097 |
| 65 | 5,75  | Lastkomb. A | Combination | Max | 1923,2 | 4,062  | 0,00033 | -0,0016    | 0,0754  | 11,2026 | 65-1 | 5,75015 |
| 65 | 0     | Lastkomb. A | Combination | Min | 594,89 | -6,318 | -0,033  | -0,0034    | -0,158  | -2,1536 | 65-1 | 0       |
| 65 | 0,479 | Lastkomb. A | Combination | Min | 594,9  | -5,629 | -0,033  | -0,0034    | -0,1488 | 0,2091  | 65-1 | 0,47918 |
| 65 | 0,958 | Lastkomb. A | Combination | Min | 594,9  | -4,94  | -0,033  | -0,0034    | -0,1397 | 2,0344  | 65-1 | 0,95836 |
| 65 | 1,438 | Lastkomb. A | Combination | Min | 594,91 | -4,252 | -0,033  | -0,0034    | -0,1324 | 3,5298  | 65-1 | 1,43754 |
| 65 | 1,917 | Lastkomb. A | Combination | Min | 594,91 | -3,563 | -0,033  | -0,0034    | -0,126  | 4,6951  | 65-1 | 1,91672 |
| 65 | 2,396 | Lastkomb. A | Combination | Min | 594,92 | -2,874 | -0,033  | -0,0034    | -0,1195 | 5,5305  | 65-1 | 2,3959  |
| 65 | 2,875 | Lastkomb. A | Combination | Min | 594,92 | -2,186 | -0,033  | -0,0034    | -0,1136 | 6,0358  | 65-1 | 2,87508 |
| 65 | 3,354 | Lastkomb. A | Combination | Min | 594,93 | -1,497 | -0,033  | -0,0034    | -0,1079 | 6,2111  | 65-1 | 3,35425 |
| 65 | 3,833 | Lastkomb. A | Combination | Min | 594,93 | -0,808 | -0,033  | -0,0034    | -0,1022 | 5,8883  | 65-1 | 3,83343 |
| 65 | 4,313 | Lastkomb. A | Combination | Min | 594,94 | -0,12  | -0,033  | -0,0034    | -0,0965 | 5,234   | 65-1 | 4,31261 |
| 65 | 4,792 | Lastkomb. A | Combination | Min | 594,94 | 0,569  | -0,033  | -0,0034    | -0,0908 | 4,2497  | 65-1 | 4,79179 |
| 65 | 5,271 | Lastkomb. A | Combination | Min | 594,95 | 1,258  | -0,033  | -0,0034    | -0,0851 | 2,9354  | 65-1 | 5,27097 |
| 65 | 5,75  | Lastkomb. A | Combination | Min | 594,95 | 1,946  | -0,033  | -0,0034    | -0,0794 | 1,2911  | 65-1 | 5,75015 |
| 66 | 0     | Lastkomb. A | Combination | Max | 2226,8 | -3,199 | -0,048  | 0,0007352  | -0,2051 | 9,8833  | 66-1 | 0       |
| 66 | 0,479 | Lastkomb. A | Combination | Max | 2226,8 | -2,437 | -0,048  | 0,0007352  | -0,1821 | 11,4661 | 66-1 | 0,47918 |
| 66 | 0,958 | Lastkomb. A | Combination | Max | 2226,8 | -1,675 | -0,048  | 0,0007352  | -0,1587 | 12,6838 | 66-1 | 0,95836 |
| 66 | 1,438 | Lastkomb. A | Combination | Max | 2226,8 | -0,912 | -0,048  | 0,0007352  | -0,135  | 13,5925 | 66-1 | 1,43754 |
| 66 | 1,917 | Lastkomb. A | Combination | Max | 2226,8 | -0,15  | -0,048  | 0,0007352  | -0,1114 | 14,1843 | 66-1 | 1,91672 |
| 66 | 2,396 | Lastkomb. A | Combination | Max | 2226,8 | 0,612  | -0,048  | 0,0007352  | -0,0756 | 14,464  | 66-1 | 2,3959  |
| 66 | 2,875 | Lastkomb. A | Combination | Max | 2226,9 | 1,374  | -0,048  | 0,0007352  | -0,0359 | 14,4256 | 66-1 | 2,87508 |
| 66 | 3,354 | Lastkomb. A | Combination | Max | 2226,9 | 2,136  | -0,048  | 0,0007352  | 0,0039  | 14,1035 | 66-1 | 3,35425 |
| 66 | 3,833 | Lastkomb. A | Combination | Max | 2226,9 | 2,898  | -0,048  | 0,0007352  | 0,0436  | 13,4786 | 66-1 | 3,83343 |
| 66 | 4,313 | Lastkomb. A | Combination | Max | 2226,9 | 3,66   | -0,048  | 0,0007352  | 0,0833  | 12,556  | 66-1 | 4,31261 |
| 66 | 4,792 | Lastkomb. A | Combination | Max | 2226,9 | 4,422  | -0,048  | 0,0007352  | 0,123   | 11,3211 | 66-1 | 4,79179 |
| 66 | 5,271 | Lastkomb. A | Combination | Max | 2226,9 | 5,184  | -0,048  | 0,0007352  | 0,1639  | 9,721   | 66-1 | 5,27097 |
| 66 | 5,75  | Lastkomb. A | Combination | Max | 2226,9 | 5,946  | -0,048  | 0,0007352  | 0,2135  | 7,7825  | 66-1 | 5,75015 |
| 66 | 0     | Lastkomb. A | Combination | Min | 560,04 | -5,417 | -0,104  | -0,0003996 | -0,3826 | 1,1204  | 66-1 | 0       |



|    |       |             |             |     |        |        |        |            |         |         |      |         |
|----|-------|-------------|-------------|-----|--------|--------|--------|------------|---------|---------|------|---------|
| 66 | 0,479 | Lastkomb. A | Combination | Min | 560,04 | -4,655 | -0,104 | -0,0003996 | -0,3329 | 3,0616  | 66-1 | 0,47918 |
| 66 | 0,958 | Lastkomb. A | Combination | Min | 560,05 | -3,893 | -0,104 | -0,0003996 | -0,2854 | 4,6376  | 66-1 | 0,95836 |
| 66 | 1,438 | Lastkomb. A | Combination | Min | 560,06 | -3,131 | -0,104 | -0,0003996 | -0,2475 | 5,6696  | 66-1 | 1,43754 |
| 66 | 1,917 | Lastkomb. A | Combination | Min | 560,06 | -2,369 | -0,104 | -0,0003996 | -0,2096 | 6,311   | 66-1 | 1,91672 |
| 66 | 2,396 | Lastkomb. A | Combination | Min | 560,07 | -1,607 | -0,104 | -0,0003996 | -0,1717 | 6,5873  | 66-1 | 2,3959  |
| 66 | 2,875 | Lastkomb. A | Combination | Min | 560,07 | -0,845 | -0,104 | -0,0003996 | -0,1339 | 6,4984  | 66-1 | 2,87508 |
| 66 | 3,354 | Lastkomb. A | Combination | Min | 560,08 | -0,083 | -0,104 | -0,0003996 | -0,096  | 6,0444  | 66-1 | 3,35425 |
| 66 | 3,833 | Lastkomb. A | Combination | Min | 560,08 | 0,679  | -0,104 | -0,0003996 | -0,0608 | 5,2253  | 66-1 | 3,83343 |
| 66 | 4,313 | Lastkomb. A | Combination | Min | 560,09 | 1,441  | -0,104 | -0,0003996 | -0,0265 | 4,041   | 66-1 | 4,31261 |
| 66 | 4,792 | Lastkomb. A | Combination | Min | 560,09 | 2,203  | -0,104 | -0,0003996 | 0,0077  | 2,4916  | 66-1 | 4,79179 |
| 66 | 5,271 | Lastkomb. A | Combination | Min | 560,1  | 2,965  | -0,104 | -0,0003996 | 0,042   | 0,577   | 66-1 | 5,27097 |
| 66 | 5,75  | Lastkomb. A | Combination | Min | 560,11 | 3,727  | -0,104 | -0,0003996 | 0,0709  | -1,7027 | 66-1 | 5,75015 |
| 67 | 0     | Lastkomb. A | Combination | Max | 1703   | -1,123 | -0,02  | 0,0031     | -0,1315 | 10,7294 | 67-1 | 0       |
| 67 | 0,479 | Lastkomb. A | Combination | Max | 1703   | -0,544 | -0,02  | 0,0031     | -0,1199 | 11,3035 | 67-1 | 0,47918 |
| 67 | 0,958 | Lastkomb. A | Combination | Max | 1703   | 0,035  | -0,02  | 0,0031     | -0,0997 | 11,6003 | 67-1 | 0,95836 |
| 67 | 1,438 | Lastkomb. A | Combination | Max | 1703   | 0,613  | -0,02  | 0,0031     | -0,0794 | 11,6198 | 67-1 | 1,43754 |
| 67 | 1,917 | Lastkomb. A | Combination | Max | 1703   | 1,192  | -0,02  | 0,0031     | -0,0592 | 11,3619 | 67-1 | 1,91672 |
| 67 | 2,396 | Lastkomb. A | Combination | Max | 1703   | 1,771  | -0,02  | 0,0031     | -0,039  | 10,8329 | 67-1 | 2,3959  |
| 67 | 2,875 | Lastkomb. A | Combination | Max | 1703   | 2,349  | -0,02  | 0,0031     | -0,0188 | 10,1426 | 67-1 | 2,87508 |
| 67 | 3,354 | Lastkomb. A | Combination | Max | 1703   | 2,928  | -0,02  | 0,0031     | 0,0014  | 9,2855  | 67-1 | 3,35425 |
| 67 | 3,833 | Lastkomb. A | Combination | Max | 1703   | 3,507  | -0,02  | 0,0031     | 0,0276  | 8,151   | 67-1 | 3,83343 |
| 67 | 4,313 | Lastkomb. A | Combination | Max | 1703   | 4,086  | -0,02  | 0,0031     | 0,0572  | 6,7502  | 67-1 | 4,31261 |
| 67 | 4,792 | Lastkomb. A | Combination | Max | 1703   | 4,664  | -0,02  | 0,0031     | 0,0868  | 5,2119  | 67-1 | 4,79179 |
| 67 | 5,271 | Lastkomb. A | Combination | Max | 1703   | 5,243  | -0,02  | 0,0031     | 0,1191  | 3,3963  | 67-1 | 5,27097 |
| 67 | 5,75  | Lastkomb. A | Combination | Max | 1703   | 5,822  | -0,02  | 0,0031     | 0,1545  | 1,3034  | 67-1 | 5,75015 |
| 67 | 0     | Lastkomb. A | Combination | Min | 109,15 | -3,059 | -0,074 | 0,0021     | -0,2779 | 1,2195  | 67-1 | 0       |
| 67 | 0,479 | Lastkomb. A | Combination | Min | 109,16 | -2,48  | -0,074 | 0,0021     | -0,2496 | 2,1946  | 67-1 | 0,47918 |
| 67 | 0,958 | Lastkomb. A | Combination | Min | 109,16 | -1,902 | -0,074 | 0,0021     | -0,2212 | 2,8924  | 67-1 | 0,95836 |
| 67 | 1,438 | Lastkomb. A | Combination | Min | 109,16 | -1,323 | -0,074 | 0,0021     | -0,1929 | 3,3129  | 67-1 | 1,43754 |
| 67 | 1,917 | Lastkomb. A | Combination | Min | 109,17 | -0,744 | -0,074 | 0,0021     | -0,1677 | 3,4561  | 67-1 | 1,91672 |
| 67 | 2,396 | Lastkomb. A | Combination | Min | 109,17 | -0,165 | -0,074 | 0,0021     | -0,1428 | 3,322   | 67-1 | 2,3959  |
| 67 | 2,875 | Lastkomb. A | Combination | Min | 109,18 | 0,413  | -0,074 | 0,0021     | -0,118  | 2,9106  | 67-1 | 2,87508 |
| 67 | 3,354 | Lastkomb. A | Combination | Min | 109,18 | 0,992  | -0,074 | 0,0021     | -0,0931 | 2,2219  | 67-1 | 3,35425 |

|    |       |             |             |     |        |        |        |            |           |         |      |         |
|----|-------|-------------|-------------|-----|--------|--------|--------|------------|-----------|---------|------|---------|
| 67 | 3,833 | Lastkomb. A | Combination | Min | 109,18 | 1,571  | -0,074 | 0,0021     | -0,0684   | 1,2559  | 67-1 | 3,83343 |
| 67 | 4,313 | Lastkomb. A | Combination | Min | 109,19 | 2,149  | -0,074 | 0,0021     | -0,0513   | 0,0126  | 67-1 | 4,31261 |
| 67 | 4,792 | Lastkomb. A | Combination | Min | 109,19 | 2,728  | -0,074 | 0,0021     | -0,0394   | -1,5081 | 67-1 | 4,79179 |
| 67 | 5,271 | Lastkomb. A | Combination | Min | 109,2  | 3,307  | -0,074 | 0,0021     | -0,0276   | -3,306  | 67-1 | 5,27097 |
| 67 | 5,75  | Lastkomb. A | Combination | Min | 109,2  | 3,886  | -0,074 | 0,0021     | -0,0173   | -5,3813 | 67-1 | 5,75015 |
| 68 | 0     | Lastkomb. A | Combination | Max | 486,19 | -0,566 | -0,125 | -0,0005491 | -0,2113   | 5,0145  | 68-1 | 0       |
| 68 | 0,479 | Lastkomb. A | Combination | Max | 486,2  | -0,133 | -0,125 | -0,0005491 | -0,151    | 5,297   | 68-1 | 0,47918 |
| 68 | 0,958 | Lastkomb. A | Combination | Max | 486,2  | 0,299  | -0,125 | -0,0005491 | -0,0906   | 5,3725  | 68-1 | 0,95836 |
| 68 | 1,438 | Lastkomb. A | Combination | Max | 486,2  | 0,731  | -0,125 | -0,0005491 | -0,0287   | 5,2409  | 68-1 | 1,43754 |
| 68 | 1,917 | Lastkomb. A | Combination | Max | 486,21 | 1,163  | -0,125 | -0,0005491 | 0,0355    | 4,9023  | 68-1 | 1,91672 |
| 68 | 2,396 | Lastkomb. A | Combination | Max | 486,21 | 1,595  | -0,125 | -0,0005491 | 0,1132    | 4,3608  | 68-1 | 2,3959  |
| 68 | 2,875 | Lastkomb. A | Combination | Max | 486,21 | 2,027  | -0,125 | -0,0005491 | 0,1918    | 3,7628  | 68-1 | 2,87508 |
| 68 | 3,354 | Lastkomb. A | Combination | Max | 486,22 | 2,459  | -0,125 | -0,0005491 | 0,2704    | 2,9702  | 68-1 | 3,35425 |
| 68 | 3,833 | Lastkomb. A | Combination | Max | 486,22 | 2,891  | -0,125 | -0,0005491 | 0,3489    | 1,9705  | 68-1 | 3,83343 |
| 68 | 4,313 | Lastkomb. A | Combination | Max | 486,22 | 3,323  | -0,125 | -0,0005491 | 0,4275    | 0,7638  | 68-1 | 4,31261 |
| 68 | 4,792 | Lastkomb. A | Combination | Max | 486,23 | 3,755  | -0,125 | -0,0005491 | 0,5061    | -0,65   | 68-1 | 4,79179 |
| 68 | 5,271 | Lastkomb. A | Combination | Max | 486,23 | 4,187  | -0,125 | -0,0005491 | 0,5847    | -2,2708 | 68-1 | 5,27097 |
| 68 | 5,75  | Lastkomb. A | Combination | Max | 486,23 | 4,619  | -0,125 | -0,0005491 | 0,6634    | -4,0986 | 68-1 | 5,75015 |
| 68 | 0     | Lastkomb. A | Combination | Min | -720,7 | -1,907 | -0,185 | -0,001     | -0,4181   | -2,5595 | 68-1 | 0       |
| 68 | 0,479 | Lastkomb. A | Combination | Min | -720,7 | -1,475 | -0,185 | -0,001     | -0,3298   | -1,9173 | 68-1 | 0,47918 |
| 68 | 0,958 | Lastkomb. A | Combination | Min | -720,7 | -1,042 | -0,185 | -0,001     | -0,2424   | -1,4821 | 68-1 | 0,95836 |
| 68 | 1,438 | Lastkomb. A | Combination | Min | -720,7 | -0,61  | -0,185 | -0,001     | -0,155    | -1,254  | 68-1 | 1,43754 |
| 68 | 1,917 | Lastkomb. A | Combination | Min | -720,7 | -0,178 | -0,185 | -0,001     | -0,0737   | -1,2329 | 68-1 | 1,91672 |
| 68 | 2,396 | Lastkomb. A | Combination | Min | -720,7 | 0,254  | -0,185 | -0,001     | 0,0007922 | -1,4189 | 68-1 | 2,3959  |
| 68 | 2,875 | Lastkomb. A | Combination | Min | -720,7 | 0,686  | -0,185 | -0,001     | 0,0753    | -1,8119 | 68-1 | 2,87508 |
| 68 | 3,354 | Lastkomb. A | Combination | Min | -720,7 | 1,118  | -0,185 | -0,001     | 0,1497    | -2,4119 | 68-1 | 3,35425 |
| 68 | 3,833 | Lastkomb. A | Combination | Min | -720,6 | 1,55   | -0,185 | -0,001     | 0,2133    | -3,219  | 68-1 | 3,83343 |
| 68 | 4,313 | Lastkomb. A | Combination | Min | -720,6 | 1,982  | -0,185 | -0,001     | 0,2737    | -4,2331 | 68-1 | 4,31261 |
| 68 | 4,792 | Lastkomb. A | Combination | Min | -720,6 | 2,414  | -0,185 | -0,001     | 0,3341    | -5,4542 | 68-1 | 4,79179 |
| 68 | 5,271 | Lastkomb. A | Combination | Min | -720,6 | 2,846  | -0,185 | -0,001     | 0,3945    | -6,8824 | 68-1 | 5,27097 |
| 68 | 5,75  | Lastkomb. A | Combination | Min | -720,6 | 3,278  | -0,185 | -0,001     | 0,4548    | -8,5177 | 68-1 | 5,75015 |
| 69 | 0     | Lastkomb. A | Combination | Max | -1047  | -0,462 | 0,125  | 0,0051     | 0,2701    | 1,3435  | 69-1 | 0       |
| 69 | 0,479 | Lastkomb. A | Combination | Max | -1047  | 0,3    | 0,125  | 0,0051     | 0,2112    | 1,5522  | 69-1 | 0,47918 |

|    |       |             |             |     |        |         |       |           |         |          |      |         |
|----|-------|-------------|-------------|-----|--------|---------|-------|-----------|---------|----------|------|---------|
| 69 | 0,958 | Lastkomb. A | Combination | Max | -1047  | 1,062   | 0,125 | 0,0051    | 0,1528  | 1,3957   | 69-1 | 0,95836 |
| 69 | 1,438 | Lastkomb. A | Combination | Max | -1047  | 1,824   | 0,125 | 0,0051    | 0,107   | 0,9247   | 69-1 | 1,43754 |
| 69 | 1,917 | Lastkomb. A | Combination | Max | -1047  | 2,586   | 0,125 | 0,0051    | 0,0647  | 0,4861   | 69-1 | 1,91672 |
| 69 | 2,396 | Lastkomb. A | Combination | Max | -1047  | 3,348   | 0,125 | 0,0051    | 0,0225  | -0,2577  | 69-1 | 2,3959  |
| 69 | 2,875 | Lastkomb. A | Combination | Max | -1047  | 4,11    | 0,125 | 0,0051    | -0,0189 | -1,3666  | 69-1 | 2,87508 |
| 69 | 0     | Lastkomb. A | Combination | Min | -1904  | -2,859  | 0,038 | 0,0032    | 0,066   | -5,4342  | 69-1 | 0       |
| 69 | 0,479 | Lastkomb. A | Combination | Min | -1904  | -2,097  | 0,038 | 0,0032    | 0,0477  | -4,4822  | 69-1 | 0,47918 |
| 69 | 0,958 | Lastkomb. A | Combination | Min | -1904  | -1,335  | 0,038 | 0,0032    | 0,0285  | -3,8992  | 69-1 | 0,95836 |
| 69 | 1,438 | Lastkomb. A | Combination | Min | -1904  | -0,573  | 0,038 | 0,0032    | 0,0086  | -3,6932  | 69-1 | 1,43754 |
| 69 | 1,917 | Lastkomb. A | Combination | Min | -1904  | 0,189   | 0,038 | 0,0032    | -0,0137 | -3,8608  | 69-1 | 1,91672 |
| 69 | 2,396 | Lastkomb. A | Combination | Min | -1904  | 0,951   | 0,038 | 0,0032    | -0,0543 | -4,3967  | 69-1 | 2,3959  |
| 69 | 2,875 | Lastkomb. A | Combination | Min | -1904  | 1,713   | 0,038 | 0,0032    | -0,1118 | -5,2979  | 69-1 | 2,87508 |
| 70 | 0     | Lastkomb. A | Combination | Max | -1047  | 8,467   | 0,125 | 0,0051    | -0,0187 | -0,6108  | 70-1 | 0       |
| 70 | 0,479 | Lastkomb. A | Combination | Max | -1047  | 9,229   | 0,125 | 0,0051    | -0,0501 | -4,4314  | 70-1 | 0,47918 |
| 70 | 0,958 | Lastkomb. A | Combination | Max | -1047  | 9,991   | 0,125 | 0,0051    | -0,0802 | -6,9646  | 70-1 | 0,95836 |
| 70 | 1,438 | Lastkomb. A | Combination | Max | -1047  | 10,753  | 0,125 | 0,0051    | -0,0985 | -9,8629  | 70-1 | 1,43754 |
| 70 | 1,917 | Lastkomb. A | Combination | Max | -1047  | 11,515  | 0,125 | 0,0051    | -0,1168 | -13,1263 | 70-1 | 1,91672 |
| 70 | 2,396 | Lastkomb. A | Combination | Max | -1047  | 12,277  | 0,125 | 0,0051    | -0,1351 | -16,7549 | 70-1 | 2,3959  |
| 70 | 2,875 | Lastkomb. A | Combination | Max | -1047  | 13,039  | 0,125 | 0,0051    | -0,1534 | -20,7486 | 70-1 | 2,87508 |
| 70 | 0     | Lastkomb. A | Combination | Min | -1904  | 4,143   | 0,038 | 0,0032    | -0,1115 | -4,7955  | 70-1 | 0       |
| 70 | 0,479 | Lastkomb. A | Combination | Min | -1904  | 4,905   | 0,038 | 0,0032    | -0,1706 | -7,6158  | 70-1 | 0,47918 |
| 70 | 0,958 | Lastkomb. A | Combination | Min | -1904  | 5,667   | 0,038 | 0,0032    | -0,2298 | -11,4384 | 70-1 | 0,95836 |
| 70 | 1,438 | Lastkomb. A | Combination | Min | -1904  | 6,429   | 0,038 | 0,0032    | -0,2889 | -15,8632 | 70-1 | 1,43754 |
| 70 | 1,917 | Lastkomb. A | Combination | Min | -1904  | 7,191   | 0,038 | 0,0032    | -0,3481 | -20,9228 | 70-1 | 1,91672 |
| 70 | 2,396 | Lastkomb. A | Combination | Min | -1904  | 7,953   | 0,038 | 0,0032    | -0,4072 | -26,3476 | 70-1 | 2,3959  |
| 70 | 2,875 | Lastkomb. A | Combination | Min | -1904  | 8,715   | 0,038 | 0,0032    | -0,4664 | -32,1375 | 70-1 | 2,87508 |
| 71 | 0     | Lastkomb. A | Combination | Max | 710,58 | -61,677 | 0,623 | 0,0002894 | 1,0323  | -44,5963 | 71-1 | 0       |
| 71 | 0,25  | Lastkomb. A | Combination | Max | 710,34 | -52,424 | 0,623 | 0,0002894 | 0,8812  | -29,5276 | 71-1 | 0,25003 |
| 71 | 0,25  | Lastkomb. A | Combination | Max | 708,74 | -52,374 | 0,661 | 0,0002894 | 0,8812  | -29,5276 | 71-2 | 0       |
| 71 | 1,25  | Lastkomb. A | Combination | Max | 707,77 | -15,364 | 0,661 | 0,0002894 | 0,2279  | 48,9468  | 71-2 | 1,00012 |
| 71 | 1,25  | Lastkomb. A | Combination | Max | 711,06 | -15,364 | 0,519 | 0,0002894 | 0,2279  | 48,9468  | 71-3 | 0       |
| 71 | 1,624 | Lastkomb. A | Combination | Max | 710,69 | 11,951  | 0,519 | 0,0002894 | 0,1005  | 47,5171  | 71-3 | 0,37404 |
| 71 | 1,624 | Lastkomb. A | Combination | Max | 710,69 | 11,951  | 0,519 | 0,0002894 | 0,1005  | 47,5171  | 71-3 | 0,37404 |



|    |       |             |             |     |        |          |        |            |         |           |      |         |
|----|-------|-------------|-------------|-----|--------|----------|--------|------------|---------|-----------|------|---------|
| 71 | 2,25  | Lastkomb. A | Combination | Max | 710,09 | 35,119   | 0,519  | 0,0002894  | 0,0023  | 48,5217   | 71-3 | 1,00012 |
| 71 | 2,25  | Lastkomb. A | Combination | Max | 718,28 | 54,539   | 1,55   | 0,0002894  | 0,0023  | 48,5217   | 71-4 | 0       |
| 71 | 3,249 | Lastkomb. A | Combination | Max | 717,31 | 129,248  | 1,55   | 0,0002894  | -0,786  | -23,6203  | 71-4 | 0,99912 |
| 71 | 3,249 | Lastkomb. A | Combination | Max | 717,31 | 129,248  | 1,55   | 0,0002894  | -0,786  | -23,6203  | 71-4 | 0,99912 |
| 71 | 3,25  | Lastkomb. A | Combination | Max | 717,31 | 129,285  | 1,55   | 0,0002894  | -0,7867 | -23,6725  | 71-4 | 1,00012 |
| 71 | 0     | Lastkomb. A | Combination | Min | -80,33 | -191,143 | 0,358  | -0,0004524 | 0,589   | -104,7007 | 71-1 | 0       |
| 71 | 0,25  | Lastkomb. A | Combination | Min | -80,57 | -181,89  | 0,358  | -0,0004524 | 0,4995  | -61,7077  | 71-1 | 0,25003 |
| 71 | 0,25  | Lastkomb. A | Combination | Min | -30,67 | -148,115 | 0,371  | -0,0004524 | 0,4995  | -61,7077  | 71-2 | 0       |
| 71 | 1,25  | Lastkomb. A | Combination | Min | -31,34 | -91,944  | 0,371  | -0,0004524 | 0,1045  | -0,1423   | 71-2 | 1,00012 |
| 71 | 1,25  | Lastkomb. A | Combination | Min | 18,359 | -53,949  | 0,113  | -0,0004524 | 0,1045  | -0,1423   | 71-3 | 0       |
| 71 | 1,624 | Lastkomb. A | Combination | Min | 18,291 | -20,947  | 0,113  | -0,0004524 | -0,0309 | 6,3937    | 71-3 | 0,37404 |
| 71 | 1,624 | Lastkomb. A | Combination | Min | 18,291 | -20,947  | 0,113  | -0,0004524 | -0,0309 | 6,3937    | 71-3 | 0,37404 |
| 71 | 2,25  | Lastkomb. A | Combination | Min | 17,685 | 2,221    | 0,113  | -0,0004524 | -0,3231 | 0,3995    | 71-3 | 1,00012 |
| 71 | 2,25  | Lastkomb. A | Combination | Min | 65,976 | 12,616   | 0,697  | -0,0004524 | -0,3231 | 0,3995    | 71-4 | 0       |
| 71 | 3,249 | Lastkomb. A | Combination | Min | 65,303 | 49,589   | 0,697  | -0,0004524 | -1,6236 | -61,75    | 71-4 | 0,99912 |
| 71 | 3,249 | Lastkomb. A | Combination | Min | 65,303 | 49,589   | 0,697  | -0,0004524 | -1,6236 | -61,75    | 71-4 | 0,99912 |
| 71 | 3,25  | Lastkomb. A | Combination | Min | 65,302 | 49,626   | 0,697  | -0,0004524 | -1,6252 | -61,8482  | 71-4 | 1,00012 |
| 72 | 0     | Lastkomb. A | Combination | Max | -85,85 | -48,501  | -0,445 | -0,0011    | -0,3163 | -19,1329  | 72-1 | 0       |
| 72 | 0,5   | Lastkomb. A | Combination | Max | -86,61 | -30,007  | -0,445 | -0,0011    | -0,0677 | 6,52      | 72-1 | 0,5     |
| 72 | 1     | Lastkomb. A | Combination | Max | -87,37 | -11,514  | -0,445 | -0,0011    | 0,3766  | 55,3948   | 72-1 | 1       |
| 72 | 1     | Lastkomb. A | Combination | Max | -127,1 | -11,514  | 0,331  | -0,0011    | 0,3766  | 55,3948   | 72-2 | 0       |
| 72 | 1,312 | Lastkomb. A | Combination | Max | -127,5 | 6,998    | 0,331  | -0,0011    | 0,2839  | 55,4634   | 72-2 | 0,312   |
| 72 | 1,624 | Lastkomb. A | Combination | Max | -128   | 18,538   | 0,331  | -0,0011    | 0,1912  | 56,0144   | 72-2 | 0,624   |
| 72 | 1,624 | Lastkomb. A | Combination | Max | -128   | 18,538   | 0,331  | -0,0011    | 0,1912  | 56,0144   | 72-2 | 0,624   |
| 72 | 2     | Lastkomb. A | Combination | Max | -128,6 | 32,445   | 0,331  | -0,0011    | 0,097   | 58,9476   | 72-2 | 1       |
| 72 | 2     | Lastkomb. A | Combination | Max | -169,7 | 51,867   | -0,096 | -0,0011    | 0,097   | 58,9476   | 72-3 | 0       |
| 72 | 2,5   | Lastkomb. A | Combination | Max | -170,4 | 107,711  | -0,096 | -0,0011    | 0,1495  | 11,5155   | 72-3 | 0,5     |
| 72 | 3     | Lastkomb. A | Combination | Max | -171,2 | 126,205  | -0,096 | -0,0011    | 0,2044  | -21,5319  | 72-3 | 1       |
| 72 | 3     | Lastkomb. A | Combination | Max | -214,1 | 145,433  | -0,062 | -0,0011    | 0,2044  | -21,5319  | 72-4 | 0       |
| 72 | 3,249 | Lastkomb. A | Combination | Max | -214,5 | 188,902  | -0,062 | -0,0011    | 0,2309  | -35,2985  | 72-4 | 0,249   |
| 72 | 3,249 | Lastkomb. A | Combination | Max | -214,5 | 188,902  | -0,062 | -0,0011    | 0,2309  | -35,2985  | 72-4 | 0,249   |
| 72 | 3,25  | Lastkomb. A | Combination | Max | -214,5 | 188,939  | -0,062 | -0,0011    | 0,231   | -35,3584  | 72-4 | 0,25    |
| 72 | 0     | Lastkomb. A | Combination | Min | -867,4 | -150,756 | -1,169 | -0,0027    | -0,7929 | -57,8971  | 72-1 | 0       |

|    |       |             |             |     |        |          |        |            |         |          |      |       |
|----|-------|-------------|-------------|-----|--------|----------|--------|------------|---------|----------|------|-------|
| 72 | 0,5   | Lastkomb. A | Combination | Min | -868,1 | -113,1   | -1,169 | -0,0027    | -0,2338 | -11,8688 | 72-1 | 0,5   |
| 72 | 1     | Lastkomb. A | Combination | Min | -868,9 | -94,606  | -1,169 | -0,0027    | 0,0268  | 6,2334   | 72-1 | 1     |
| 72 | 1     | Lastkomb. A | Combination | Min | -935,8 | -56,997  | 0,0077 | -0,0027    | 0,0268  | 6,2334   | 72-2 | 0     |
| 72 | 1,312 | Lastkomb. A | Combination | Min | -936,3 | -26,295  | 0,0077 | -0,0027    | 0,0244  | 11,642   | 72-2 | 0,312 |
| 72 | 1,624 | Lastkomb. A | Combination | Min | -936,7 | -14,755  | 0,0077 | -0,0027    | 0,0212  | 10,858   | 72-2 | 0,624 |
| 72 | 1,624 | Lastkomb. A | Combination | Min | -936,7 | -14,755  | 0,0077 | -0,0027    | 0,0212  | 10,858   | 72-2 | 0,624 |
| 72 | 2     | Lastkomb. A | Combination | Min | -937,3 | -0,847   | 0,0077 | -0,0027    | 0,0144  | 3,8942   | 72-2 | 1     |
| 72 | 2     | Lastkomb. A | Combination | Min | -1011  | 13,883   | -0,163 | -0,0027    | 0,0144  | 3,8942   | 72-3 | 0     |
| 72 | 2,5   | Lastkomb. A | Combination | Min | -1011  | 32,377   | -0,163 | -0,0027    | 0,0822  | -13,4664 | 72-3 | 0,5   |
| 72 | 3     | Lastkomb. A | Combination | Min | -1012  | 50,871   | -0,163 | -0,0027    | 0,1308  | -50,916  | 72-3 | 1     |
| 72 | 3     | Lastkomb. A | Combination | Min | -1093  | 50,683   | -0,138 | -0,0027    | 0,1308  | -50,916  | 72-4 | 0     |
| 72 | 3,249 | Lastkomb. A | Combination | Min | -1093  | 59,892   | -0,138 | -0,0027    | 0,1502  | -90,2506 | 72-4 | 0,249 |
| 72 | 3,249 | Lastkomb. A | Combination | Min | -1093  | 59,892   | -0,138 | -0,0027    | 0,1502  | -90,2506 | 72-4 | 0,249 |
| 72 | 3,25  | Lastkomb. A | Combination | Min | -1093  | 59,929   | -0,138 | -0,0027    | 0,1502  | -90,4244 | 72-4 | 0,25  |
| 73 | 0     | Lastkomb. A | Combination | Max | 829,66 | -57,651  | -0,064 | -3,809E-05 | 0,2308  | -30,4381 | 73-1 | 0     |
| 73 | 0,375 | Lastkomb. A | Combination | Max | 829,06 | -43,781  | -0,064 | -3,809E-05 | 0,2716  | -11,1322 | 73-1 | 0,375 |
| 73 | 0,75  | Lastkomb. A | Combination | Max | 828,46 | -29,912  | -0,064 | -3,809E-05 | 0,3225  | 23,9893  | 73-1 | 0,75  |
| 73 | 0,75  | Lastkomb. A | Combination | Max | 789,14 | -29,835  | -0,053 | -3,809E-05 | 0,3225  | 23,9893  | 73-2 | 0     |
| 73 | 1,187 | Lastkomb. A | Combination | Max | 788,44 | -13,673  | -0,053 | -3,809E-05 | 0,3729  | 38,5491  | 73-2 | 0,437 |
| 73 | 1,624 | Lastkomb. A | Combination | Max | 787,74 | 2,489    | -0,053 | -3,809E-05 | 0,4242  | 60,032   | 73-2 | 0,874 |
| 73 | 1,624 | Lastkomb. A | Combination | Max | 787,74 | 2,489    | -0,053 | -3,809E-05 | 0,4242  | 60,032   | 73-2 | 0,874 |
| 73 | 1,75  | Lastkomb. A | Combination | Max | 787,54 | 7,149    | -0,053 | -3,809E-05 | 0,4391  | 64,9143  | 73-2 | 1     |
| 73 | 1,75  | Lastkomb. A | Combination | Max | 753,33 | 16,574   | -0,54  | -3,809E-05 | 0,4391  | 64,9143  | 73-3 | 0     |
| 73 | 2,25  | Lastkomb. A | Combination | Max | 752,53 | 72,137   | -0,54  | -3,809E-05 | 1,1119  | 33,9203  | 73-3 | 0,5   |
| 73 | 2,75  | Lastkomb. A | Combination | Max | 751,74 | 90,63    | -0,54  | -3,809E-05 | 1,848   | 6,8827   | 73-3 | 1     |
| 73 | 2,75  | Lastkomb. A | Combination | Max | 722,31 | 110,119  | 12,146 | -3,809E-05 | 1,848   | 6,8827   | 73-4 | 0     |
| 73 | 3,249 | Lastkomb. A | Combination | Max | 721,52 | 164,307  | 12,146 | -3,809E-05 | -1,0125 | -29,1025 | 73-4 | 0,499 |
| 73 | 3,249 | Lastkomb. A | Combination | Max | 721,52 | 164,307  | 12,146 | -3,809E-05 | -1,0125 | -29,1025 | 73-4 | 0,499 |
| 73 | 3,25  | Lastkomb. A | Combination | Max | 721,52 | 164,344  | 12,146 | -3,809E-05 | -1,0164 | -29,1597 | 73-4 | 0,5   |
| 73 | 0     | Lastkomb. A | Combination | Min | 309,07 | -157,583 | -0,139 | -0,0003581 | 0,1503  | -84,3521 | 73-1 | 0     |
| 73 | 0,375 | Lastkomb. A | Combination | Min | 308,47 | -143,714 | -0,139 | -0,0003581 | 0,1799  | -39,9641 | 73-1 | 0,375 |
| 73 | 0,75  | Lastkomb. A | Combination | Min | 307,87 | -129,845 | -0,139 | -0,0003581 | 0,2095  | -9,9436  | 73-1 | 0,75  |
| 73 | 0,75  | Lastkomb. A | Combination | Min | 244,15 | -92,565  | -0,118 | -0,0003581 | 0,2095  | -9,9436  | 73-2 | 0     |

|    |       |             |             |     |        |          |        |            |         |           |      |       |
|----|-------|-------------|-------------|-----|--------|----------|--------|------------|---------|-----------|------|-------|
| 73 | 1,187 | Lastkomb. A | Combination | Min | 243,42 | -57,241  | -0,118 | -0,0003581 | 0,2392  | 3,1349    | 73-2 | 0,437 |
| 73 | 1,624 | Lastkomb. A | Combination | Min | 242,72 | -41,079  | -0,118 | -0,0003581 | 0,268   | 9,1506    | 73-2 | 0,874 |
| 73 | 1,624 | Lastkomb. A | Combination | Min | 242,72 | -41,079  | -0,118 | -0,0003581 | 0,268   | 9,1506    | 73-2 | 0,874 |
| 73 | 1,75  | Lastkomb. A | Combination | Min | 242,52 | -36,419  | -0,118 | -0,0003581 | 0,2763  | 9,1752    | 73-2 | 1     |
| 73 | 1,75  | Lastkomb. A | Combination | Min | 180,6  | -1,025   | -1,472 | -0,0003581 | 0,2763  | 9,1752    | 73-3 | 0     |
| 73 | 2,25  | Lastkomb. A | Combination | Min | 179,77 | 17,468   | -1,472 | -0,0003581 | 0,5774  | 0,9776    | 73-3 | 0,5   |
| 73 | 2,75  | Lastkomb. A | Combination | Min | 178,97 | 35,96    | -1,472 | -0,0003581 | 0,8769  | -16,4661  | 73-3 | 1     |
| 73 | 2,75  | Lastkomb. A | Combination | Min | 118,23 | 36,022   | 3,916  | -0,0003581 | 0,8769  | -16,4661  | 73-4 | 0     |
| 73 | 3,249 | Lastkomb. A | Combination | Min | 117,36 | 54,477   | 3,916  | -0,0003581 | -4,2131 | -75,6955  | 73-4 | 0,499 |
| 73 | 3,249 | Lastkomb. A | Combination | Min | 117,36 | 54,477   | 3,916  | -0,0003581 | -4,2131 | -75,6955  | 73-4 | 0,499 |
| 73 | 3,25  | Lastkomb. A | Combination | Min | 117,36 | 54,514   | 3,916  | -0,0003581 | -4,2253 | -75,8432  | 73-4 | 0,5   |
| 74 | 0     | Lastkomb. A | Combination | Max | -266,3 | 0        | 2,777  | 0,0041     | 3,8974  | 0         | 74-1 | 0     |
| 74 | 1,375 | Lastkomb. A | Combination | Max | -265,6 | 0        | 2,777  | 0,0041     | 0,7534  | 0         | 74-1 | 1,375 |
| 74 | 2,75  | Lastkomb. A | Combination | Max | -265   | 0        | 2,777  | 0,0041     | 0,7932  | 0         | 74-1 | 2,75  |
| 74 | 0     | Lastkomb. A | Combination | Min | -545,8 | 0        | -0,03  | 0,0019     | 0,7108  | 0         | 74-1 | 0     |
| 74 | 1,375 | Lastkomb. A | Combination | Min | -545,2 | 0        | -0,03  | 0,0019     | 0,0744  | 0         | 74-1 | 1,375 |
| 74 | 2,75  | Lastkomb. A | Combination | Min | -544,5 | 0        | -0,03  | 0,0019     | -3,7404 | 0         | 74-1 | 2,75  |
| 75 | 0     | Lastkomb. A | Combination | Max | 13,697 | -299,439 | 16,898 | 0          | 9,727   | 6,971E-14 | 75-1 | 0     |
| 75 | 0,5   | Lastkomb. A | Combination | Max | 12,928 | -279,476 | 16,898 | 0          | 1,2782  | 296,6519  | 75-1 | 0,5   |
| 75 | 1     | Lastkomb. A | Combination | Max | 12,158 | -259,513 | 16,898 | 0          | -1,592  | 583,3225  | 75-1 | 1     |
| 75 | 1     | Lastkomb. A | Combination | Max | 30,822 | -256,958 | 13,715 | 3,686E-17  | 6,7227  | 583,322   | 75-2 | 0     |
| 75 | 1,5   | Lastkomb. A | Combination | Max | 30,053 | -236,996 | 13,715 | 3,686E-17  | -0,0285 | 840,8494  | 75-2 | 0,5   |
| 75 | 2     | Lastkomb. A | Combination | Max | 29,283 | -217,033 | 13,715 | 3,686E-17  | -1,5467 | 1088,3954 | 75-2 | 1     |
| 75 | 2     | Lastkomb. A | Combination | Max | 48,302 | -211,924 | 14,43  | 5,457E-17  | 7,1308  | 1088,395  | 75-3 | 0     |
| 75 | 2,5   | Lastkomb. A | Combination | Max | 47,533 | -191,961 | 14,43  | 5,457E-17  | -0,0163 | 1306,7978 | 75-3 | 0,5   |
| 75 | 3     | Lastkomb. A | Combination | Max | 46,763 | -171,998 | 14,43  | 5,457E-17  | -1,6044 | 1515,2193 | 75-3 | 1     |
| 75 | 3     | Lastkomb. A | Combination | Max | 66,807 | -164,334 | 15,377 | 3,528E-17  | 7,5807  | 1515,2188 | 75-4 | 0     |
| 75 | 3,5   | Lastkomb. A | Combination | Max | 66,038 | -144,371 | 15,377 | 3,528E-17  | -0,0204 | 1694,4971 | 75-4 | 0,5   |
| 75 | 4     | Lastkomb. A | Combination | Max | 65,268 | -124,409 | 15,377 | 3,528E-17  | -1,6991 | 1863,794  | 75-4 | 1     |
| 75 | 4     | Lastkomb. A | Combination | Max | 86,76  | -114,189 | 16,604 | 5,36E-17   | 8,1601  | 1863,7936 | 75-5 | 0     |
| 75 | 4,5   | Lastkomb. A | Combination | Max | 85,99  | -94,226  | 16,604 | 5,36E-17   | -0,0269 | 1999,8445 | 75-5 | 0,5   |
| 75 | 5     | Lastkomb. A | Combination | Max | 85,221 | -74,264  | 16,604 | 5,36E-17   | -1,8221 | 2129,561  | 75-5 | 1     |
| 75 | 5     | Lastkomb. A | Combination | Max | 108,59 | -61,489  | 18,171 | 5,457E-17  | 8,908   | 2129,5606 | 75-6 | 0     |



|    |                  |             |     |        |          |        |            |         |           |       |     |
|----|------------------|-------------|-----|--------|----------|--------|------------|---------|-----------|-------|-----|
| 75 | 5,5 Lastkomb. A  | Combination | Max | 107,82 | -41,526  | 18,171 | 5,457E-17  | -0,0337 | 2211,0672 | 75-6  | 0,5 |
| 75 | 6 Lastkomb. A    | Combination | Max | 107,05 | -21,564  | 18,171 | 5,457E-17  | -1,9773 | 2299,9258 | 75-6  | 1   |
| 75 | 6 Lastkomb. A    | Combination | Max | 132,78 | -6,234   | 20,108 | 3,694E-17  | 9,837   | 2299,9254 | 75-7  | 0   |
| 75 | 6,5 Lastkomb. A  | Combination | Max | 132,01 | 13,728   | 20,108 | 3,694E-17  | -0,0411 | 2337,1074 | 75-7  | 0,5 |
| 75 | 7 Lastkomb. A    | Combination | Max | 131,24 | 33,691   | 20,108 | 3,694E-17  | -2,1679 | 2385,1082 | 75-7  | 1   |
| 75 | 7 Lastkomb. A    | Combination | Max | 159,85 | 51,575   | 22,456 | 5,412E-17  | 10,9667 | 2385,1078 | 75-8  | 0   |
| 75 | 7,5 Lastkomb. A  | Combination | Max | 159,08 | 71,538   | 22,456 | 5,412E-17  | -0,0494 | 2377,9653 | 75-8  | 0,5 |
| 75 | 8 Lastkomb. A    | Combination | Max | 158,31 | 91,5     | 22,456 | 5,412E-17  | -2,3981 | 2385,1082 | 75-8  | 1   |
| 75 | 8 Lastkomb. A    | Combination | Max | 190,38 | 111,94   | 25,264 | 5,457E-17  | 12,3208 | 2385,1077 | 75-9  | 0   |
| 75 | 8,5 Lastkomb. A  | Combination | Max | 189,61 | 131,902  | 25,264 | 5,457E-17  | -0,0588 | 2337,1073 | 75-9  | 0,5 |
| 75 | 9 Lastkomb. A    | Combination | Max | 188,84 | 151,865  | 25,264 | 5,457E-17  | -2,6725 | 2299,9257 | 75-9  | 1   |
| 75 | 9 Lastkomb. A    | Combination | Max | 225,03 | 174,859  | 28,589 | 5,367E-17  | 13,9276 | 2299,9252 | 75-10 | 0   |
| 75 | 9,5 Lastkomb. A  | Combination | Max | 224,26 | 194,822  | 28,589 | 5,367E-17  | -0,0693 | 2211,067  | 75-10 | 0,5 |
| 75 | 10 Lastkomb. A   | Combination | Max | 223,49 | 214,784  | 28,589 | 5,367E-17  | -2,9966 | 2129,5608 | 75-10 | 1   |
| 75 | 10 Lastkomb. A   | Combination | Max | 264,55 | 249,451  | 32,516 | 5,419E-17  | 15,8224 | 2129,5602 | 75-11 | 0   |
| 75 | 10,5 Lastkomb. A | Combination | Max | 263,78 | 269,413  | 32,516 | 5,419E-17  | -0,0823 | 1999,8442 | 75-11 | 0,5 |
| 75 | 11 Lastkomb. A   | Combination | Max | 263,01 | 289,376  | 32,516 | 5,419E-17  | -3,3799 | 1863,7937 | 75-11 | 1   |
| 75 | 11 Lastkomb. A   | Combination | Max | 309,78 | 328,612  | 36,98  | 1,892E-17  | 18,0256 | 1863,7932 | 75-12 | 0   |
| 75 | 11,5 Lastkomb. A | Combination | Max | 309,01 | 348,574  | 36,98  | 1,892E-17  | -0,0868 | 1694,4966 | 75-12 | 0,5 |
| 75 | 12 Lastkomb. A   | Combination | Max | 308,24 | 368,537  | 36,98  | 1,892E-17  | -3,8041 | 1515,2189 | 75-12 | 1   |
| 75 | 12 Lastkomb. A   | Combination | Max | 361,68 | 406,861  | 43,102 | 3,686E-17  | 20,7685 | 1515,2183 | 75-13 | 0   |
| 75 | 12,5 Lastkomb. A | Combination | Max | 360,91 | 426,823  | 43,102 | 3,686E-17  | -0,1506 | 1306,7973 | 75-13 | 0,5 |
| 75 | 13 Lastkomb. A   | Combination | Max | 360,14 | 446,786  | 43,102 | 3,686E-17  | -4,4516 | 1088,3949 | 75-13 | 1   |
| 75 | 13 Lastkomb. A   | Combination | Max | 421,87 | 485,11   | 46,736 | 1,802E-17  | 23,152  | 1088,3944 | 75-14 | 0   |
| 75 | 13,5 Lastkomb. A | Combination | Max | 421,1  | 505,072  | 46,736 | 1,802E-17  | 0,0507  | 840,8488  | 75-14 | 0,5 |
| 75 | 14 Lastkomb. A   | Combination | Max | 420,33 | 525,035  | 46,736 | 1,802E-17  | -4,574  | 583,3219  | 75-14 | 1   |
| 75 | 14 Lastkomb. A   | Combination | Max | 483,84 | 563,359  | 53,665 | 5,457E-17  | 25,7942 | 583,3213  | 75-15 | 0   |
| 75 | 14,5 Lastkomb. A | Combination | Max | 483,07 | 583,321  | 53,665 | 5,457E-17  | 0,0733  | 296,6513  | 75-15 | 0,5 |
| 75 | 15 Lastkomb. A   | Combination | Max | 482,3  | 603,284  | 53,665 | 5,457E-17  | -5,3745 | 5,255E-13 | 75-15 | 1   |
| 75 | 0 Lastkomb. A    | Combination | Min | 3,043  | -603,285 | 3,753  | 0          | 2,1608  | 0         | 75-1  | 0   |
| 75 | 0,5 Lastkomb. A  | Combination | Min | 2,273  | -583,322 | 3,753  | 0          | 0,2844  | 144,7286  | 75-1  | 0,5 |
| 75 | 1 Lastkomb. A    | Combination | Min | 1,504  | -563,36  | 3,753  | 0          | -7,1705 | 279,476   | 75-1  | 1   |
| 75 | 1 Lastkomb. A    | Combination | Min | 5,643  | -525,036 | 3,036  | -5,701E-18 | 1,4897  | 279,4756  | 75-2  | 0   |

|    |      |             |             |     |        |          |       |            |          |           |       |     |
|----|------|-------------|-------------|-----|--------|----------|-------|------------|----------|-----------|-------|-----|
| 75 | 1,5  | Lastkomb. A | Combination | Min | 4,874  | -505,073 | 3,036 | -5,701E-18 | -0,1349  | 404,2417  | 75-2  | 0,5 |
| 75 | 2    | Lastkomb. A | Combination | Min | 4,104  | -485,111 | 3,036 | -5,701E-18 | -6,9925  | 519,0265  | 75-2  | 1   |
| 75 | 2    | Lastkomb. A | Combination | Min | 8,304  | -446,787 | 3,176 | 1,201E-17  | 1,5718   | 519,0262  | 75-3  | 0   |
| 75 | 2,5  | Lastkomb. A | Combination | Min | 7,534  | -426,824 | 3,176 | 1,201E-17  | -0,0844  | 623,8297  | 75-3  | 0,5 |
| 75 | 3    | Lastkomb. A | Combination | Min | 6,764  | -406,862 | 3,176 | 1,201E-17  | -7,2996  | 718,652   | 75-3  | 1   |
| 75 | 3    | Lastkomb. A | Combination | Min | 11,159 | -368,538 | 3,357 | 1,163E-17  | 1,6582   | 718,6516  | 75-4  | 0   |
| 75 | 3,5  | Lastkomb. A | Combination | Min | 10,39  | -348,575 | 3,357 | 1,163E-17  | -0,1077  | 803,4927  | 75-4  | 0,5 |
| 75 | 4    | Lastkomb. A | Combination | Min | 9,62   | -328,613 | 3,357 | 1,163E-17  | -7,796   | 878,3523  | 75-4  | 1   |
| 75 | 4    | Lastkomb. A | Combination | Min | 14,29  | -289,377 | 3,59  | 1,103E-17  | 1,7682   | 878,352   | 75-5  | 0   |
| 75 | 4,5  | Lastkomb. A | Combination | Min | 13,521 | -269,414 | 3,59  | 1,103E-17  | -0,1419  | 943,2305  | 75-5  | 0,5 |
| 75 | 5    | Lastkomb. A | Combination | Min | 12,751 | -249,452 | 3,59  | 1,103E-17  | -8,4438  | 998,1276  | 75-5  | 1   |
| 75 | 5    | Lastkomb. A | Combination | Min | 17,778 | -214,785 | 3,887 | 1,201E-17  | 1,9099   | 998,1272  | 75-6  | 0   |
| 75 | 5,5  | Lastkomb. A | Combination | Min | 17,008 | -194,823 | 3,887 | 1,201E-17  | -0,1776  | 1043,0432 | 75-6  | 0,5 |
| 75 | 6    | Lastkomb. A | Combination | Min | 16,238 | -174,86  | 3,887 | 1,201E-17  | -9,2633  | 1077,9778 | 75-6  | 1   |
| 75 | 6    | Lastkomb. A | Combination | Min | 21,711 | -151,866 | 4,254 | -5,627E-18 | 2,0857   | 1077,9774 | 75-7  | 0   |
| 75 | 6,5  | Lastkomb. A | Combination | Min | 20,941 | -131,903 | 4,254 | -5,627E-18 | -0,2172  | 1102,9308 | 75-7  | 0,5 |
| 75 | 7    | Lastkomb. A | Combination | Min | 20,171 | -111,941 | 4,254 | -5,627E-18 | -10,2714 | 1117,9028 | 75-7  | 1   |
| 75 | 7    | Lastkomb. A | Combination | Min | 26,188 | -91,501  | 4,697 | 1,156E-17  | 2,2992   | 1117,9024 | 75-8  | 0   |
| 75 | 7,5  | Lastkomb. A | Combination | Min | 25,418 | -71,539  | 4,697 | 1,156E-17  | -0,2613  | 1122,8933 | 75-8  | 0,5 |
| 75 | 8    | Lastkomb. A | Combination | Min | 24,649 | -51,576  | 4,697 | 1,156E-17  | -11,4894 | 1117,9028 | 75-8  | 1   |
| 75 | 8    | Lastkomb. A | Combination | Min | 31,319 | -33,692  | 5,227 | 1,201E-17  | 2,5549   | 1117,9024 | 75-9  | 0   |
| 75 | 8,5  | Lastkomb. A | Combination | Min | 30,55  | -13,729  | 5,227 | 1,201E-17  | -0,311   | 1102,9307 | 75-9  | 0,5 |
| 75 | 9    | Lastkomb. A | Combination | Min | 29,78  | 6,234    | 5,227 | 1,201E-17  | -12,9428 | 1077,9777 | 75-9  | 1   |
| 75 | 9    | Lastkomb. A | Combination | Min | 37,229 | 21,563   | 5,855 | 1,111E-17  | 2,8581   | 1077,9772 | 75-10 | 0   |
| 75 | 9,5  | Lastkomb. A | Combination | Min | 36,459 | 41,526   | 5,855 | 1,111E-17  | -0,3667  | 1043,043  | 75-10 | 0,5 |
| 75 | 10   | Lastkomb. A | Combination | Min | 35,689 | 61,488   | 5,855 | 1,111E-17  | -14,6609 | 998,1275  | 75-10 | 1   |
| 75 | 10   | Lastkomb. A | Combination | Min | 44,055 | 74,263   | 6,595 | 1,163E-17  | 3,2154   | 998,127   | 75-11 | 0   |
| 75 | 10,5 | Lastkomb. A | Combination | Min | 43,285 | 94,226   | 6,595 | 1,163E-17  | -0,4356  | 943,2302  | 75-11 | 0,5 |
| 75 | 11   | Lastkomb. A | Combination | Min | 42,516 | 114,188  | 6,595 | 1,163E-17  | -16,6936 | 878,3521  | 75-11 | 1   |
| 75 | 11   | Lastkomb. A | Combination | Min | 51,958 | 124,408  | 7,434 | -4,729E-18 | 3,6304   | 878,3516  | 75-12 | 0   |
| 75 | 11,5 | Lastkomb. A | Combination | Min | 51,188 | 144,37   | 7,434 | -4,729E-18 | -0,4645  | 803,4923  | 75-12 | 0,5 |
| 75 | 12   | Lastkomb. A | Combination | Min | 50,419 | 164,333  | 7,434 | -4,729E-18 | -18,9546 | 718,6517  | 75-12 | 1   |
| 75 | 12   | Lastkomb. A | Combination | Min | 61,117 | 171,998  | 8,602 | -5,701E-18 | 4,1505   | 718,6512  | 75-13 | 0   |

|    |       |             |             |     |        |         |        |            |          |            |       |        |
|----|-------|-------------|-------------|-----|--------|---------|--------|------------|----------|------------|-------|--------|
| 75 | 12,5  | Lastkomb. A | Combination | Min | 60,347 | 191,96  | 8,602  | -5,701E-18 | -0,7824  | 623,8293   | 75-13 | 0,5    |
| 75 | 13    | Lastkomb. A | Combination | Min | 59,577 | 211,923 | 8,602  | -5,701E-18 | -22,3333 | 519,0261   | 75-13 | 1      |
| 75 | 13    | Lastkomb. A | Combination | Min | 71,848 | 217,033 | 9,163  | -5,627E-18 | 4,5891   | 519,0257   | 75-14 | 0      |
| 75 | 13,5  | Lastkomb. A | Combination | Min | 71,078 | 236,995 | 9,163  | -5,627E-18 | -0,216   | 404,2412   | 75-14 | 0,5    |
| 75 | 14    | Lastkomb. A | Combination | Min | 70,308 | 256,958 | 9,163  | -5,627E-18 | -23,584  | 279,4755   | 75-14 | 1      |
| 75 | 14    | Lastkomb. A | Combination | Min | 82,936 | 259,512 | 10,649 | 1,201E-17  | 5,2746   | 279,475    | 75-15 | 0      |
| 75 | 14,5  | Lastkomb. A | Combination | Min | 82,166 | 279,475 | 10,649 | 1,201E-17  | -1,0381  | 144,7282   | 75-15 | 0,5    |
| 75 | 15    | Lastkomb. A | Combination | Min | 81,396 | 299,438 | 10,649 | 1,201E-17  | -27,8704 | -2,901E-12 | 75-15 | 1      |
| 76 | 0     | Lastkomb. A | Combination | Max | -90,61 | 0       | 2,602  | 0,000304   | 3,5364   | 0          | 76-1  | 0      |
| 76 | 1,426 | Lastkomb. A | Combination | Max | -90,06 | 0       | 2,602  | 0,000304   | 0,3007   | 0          | 76-1  | 1,426  |
| 76 | 2,852 | Lastkomb. A | Combination | Max | -89,51 | 0       | 2,602  | 0,000304   | -0,6661  | 0          | 76-1  | 2,852  |
| 76 | 0     | Lastkomb. A | Combination | Min | -243,8 | 0       | 0,678  | -0,0001685 | 1,1275   | 0          | 76-1  | 0      |
| 76 | 1,426 | Lastkomb. A | Combination | Min | -243,3 | 0       | 0,678  | -0,0001685 | -0,1744  | 0          | 76-1  | 1,426  |
| 76 | 2,852 | Lastkomb. A | Combination | Min | -242,7 | 0       | 0,678  | -0,0001685 | -3,8853  | 0          | 76-1  | 2,852  |
| 77 | 0     | Lastkomb. A | Combination | Max | -87,23 | 0       | 1,567  | 0,0001776  | 2,0275   | 0          | 77-1  | 0      |
| 77 | 1,476 | Lastkomb. A | Combination | Max | -86,66 | 0       | 1,567  | 0,0001776  | 0,2572   | 0          | 77-1  | 1,476  |
| 77 | 2,952 | Lastkomb. A | Combination | Max | -86,1  | 0       | 1,567  | 0,0001776  | 1,0553   | 0          | 77-1  | 2,952  |
| 77 | 0     | Lastkomb. A | Combination | Min | -234,5 | 0       | -0,541 | -1,567E-05 | -0,5409  | 0          | 77-1  | 0      |
| 77 | 1,476 | Lastkomb. A | Combination | Min | -234   | 0       | -0,541 | -1,567E-05 | -0,2852  | 0          | 77-1  | 1,476  |
| 77 | 2,952 | Lastkomb. A | Combination | Min | -233,4 | 0       | -0,541 | -1,567E-05 | -2,5979  | 0          | 77-1  | 2,952  |
| 78 | 0     | Lastkomb. A | Combination | Max | -82,63 | 0       | -0,024 | 0,00002853 | -0,2274  | 0          | 78-1  | 0      |
| 78 | 1,528 | Lastkomb. A | Combination | Max | -82,04 | 0       | -0,024 | 0,00002853 | 0,3317   | 0          | 78-1  | 1,528  |
| 78 | 3,056 | Lastkomb. A | Combination | Max | -81,45 | 0       | -0,024 | 0,00002853 | 3,5073   | 0          | 78-1  | 3,056  |
| 78 | 0     | Lastkomb. A | Combination | Min | -229,8 | 0       | -2,078 | -0,0002214 | -2,8438  | 0          | 78-1  | 0      |
| 78 | 1,528 | Lastkomb. A | Combination | Min | -229,2 | 0       | -2,078 | -0,0002214 | -0,1908  | 0          | 78-1  | 1,528  |
| 78 | 3,056 | Lastkomb. A | Combination | Min | -228,6 | 0       | -2,078 | -0,0002214 | -0,1543  | 0          | 78-1  | 3,056  |
| 79 | 0     | Lastkomb. A | Combination | Max | -83,97 | 0       | -0,712 | -0,000383  | -1,2881  | 0          | 79-1  | 0      |
| 79 | 1,578 | Lastkomb. A | Combination | Max | -83,36 | 0       | -0,712 | -0,000383  | 0,2384   | 0          | 79-1  | 1,5775 |
| 79 | 3,155 | Lastkomb. A | Combination | Max | -82,76 | 0       | -0,712 | -0,000383  | 3,8219   | 0          | 79-1  | 3,155  |
| 79 | 0     | Lastkomb. A | Combination | Min | -233,5 | 0       | -2,283 | -0,0007445 | -3,3817  | 0          | 79-1  | 0      |
| 79 | 1,578 | Lastkomb. A | Combination | Min | -232,9 | 0       | -2,283 | -0,0007445 | -0,1651  | 0          | 79-1  | 1,5775 |
| 79 | 3,155 | Lastkomb. A | Combination | Min | -232,2 | 0       | -2,283 | -0,0007445 | 0,958    | 0          | 79-1  | 3,155  |
| 80 | 0     | Lastkomb. A | Combination | Max | -86,57 | 0       | -0,766 | -0,0000756 | -1,4394  | 0          | 80-1  | 0      |



|    |       |             |             |     |        |          |         |            |         |               |        |
|----|-------|-------------|-------------|-----|--------|----------|---------|------------|---------|---------------|--------|
| 80 | 1,63  | Lastkomb. A | Combination | Max | -85,94 | 0        | -0,766  | -0,0000756 | 0,2401  | 0 80-1        | 1,6295 |
| 80 | 3,259 | Lastkomb. A | Combination | Max | -85,31 | 0        | -0,766  | -0,0000756 | 3,9191  | 0 80-1        | 3,259  |
| 80 | 0     | Lastkomb. A | Combination | Min | -233,2 | 0        | -2,258  | -0,0006116 | -3,439  | 0 80-1        | 0      |
| 80 | 1,63  | Lastkomb. A | Combination | Min | -232,5 | 0        | -2,258  | -0,0006116 | -0,1909 | 0 80-1        | 1,6295 |
| 80 | 3,259 | Lastkomb. A | Combination | Min | -231,9 | 0        | -2,258  | -0,0006116 | 1,0577  | 0 80-1        | 3,259  |
| 81 | 0     | Lastkomb. A | Combination | Max | -0,994 | 0        | -0,222  | -0,0002113 | -0,4286 | 0 81-1        | 0      |
| 81 | 1,655 | Lastkomb. A | Combination | Max | -0,501 | 0        | -0,222  | -0,0002113 | 0,0107  | 0 81-1        | 1,6545 |
| 81 | 3,309 | Lastkomb. A | Combination | Max | -0,008 | 0        | -0,222  | -0,0002113 | 0,9112  | 0 81-1        | 3,309  |
| 81 | 0     | Lastkomb. A | Combination | Min | -5,14  | 0        | -0,544  | -0,0005246 | -0,8897 | 0 81-1        | 0      |
| 81 | 1,655 | Lastkomb. A | Combination | Min | -4,647 | 0        | -0,544  | -0,0005246 | -0,0611 | 0 81-1        | 1,6545 |
| 81 | 3,309 | Lastkomb. A | Combination | Min | -4,154 | 0        | -0,544  | -0,0005246 | 0,3064  | 0 81-1        | 3,309  |
| 82 | 0     | Lastkomb. A | Combination | Max | 722,43 | -57,969  | -4,433  | -0,0016    | -1,0859 | -27,8241 82-1 | 0      |
| 82 | 0,5   | Lastkomb. A | Combination | Max | 721,61 | -38,862  | -4,433  | -0,0016    | 2,661   | 14,8884 82-1  | 0,5    |
| 82 | 0,5   | Lastkomb. A | Combination | Max | 695,24 | -38,673  | 2,332   | -0,0016    | 2,661   | 14,8884 82-2  | 0      |
| 82 | 1     | Lastkomb. A | Combination | Max | 694,42 | -19,566  | 2,332   | -0,0016    | 1,495   | 45,5407 82-2  | 0,5    |
| 82 | 1,5   | Lastkomb. A | Combination | Max | 693,6  | -0,458   | 2,332   | -0,0016    | 0,391   | 78,9786 82-2  | 1      |
| 82 | 1,5   | Lastkomb. A | Combination | Max | 668,69 | -0,458   | 0,211   | -0,0016    | 0,391   | 78,9786 82-3  | 0      |
| 82 | 1,624 | Lastkomb. A | Combination | Max | 668,49 | 37,481   | 0,211   | -0,0016    | 0,3649  | 75,0764 82-3  | 0,124  |
| 82 | 1,624 | Lastkomb. A | Combination | Max | 668,49 | 37,481   | 0,211   | -0,0016    | 0,3649  | 75,0764 82-3  | 0,124  |
| 82 | 2,062 | Lastkomb. A | Combination | Max | 667,77 | 54,219   | 0,211   | -0,0016    | 0,2727  | 54,9942 82-3  | 0,562  |
| 82 | 2,5   | Lastkomb. A | Combination | Max | 667,05 | 70,957   | 0,211   | -0,0016    | 0,1949  | 40,8865 82-3  | 1      |
| 82 | 2,5   | Lastkomb. A | Combination | Max | 643,47 | 90,475   | 0,109   | -0,0016    | 0,1949  | 40,8865 82-4  | 0      |
| 82 | 2,875 | Lastkomb. A | Combination | Max | 642,85 | 141,108  | 0,109   | -0,0016    | 0,1608  | 5,2245 82-4   | 0,3745 |
| 82 | 3,249 | Lastkomb. A | Combination | Max | 642,24 | 155,42   | 0,109   | -0,0016    | 0,1267  | -12,7038 82-4 | 0,749  |
| 82 | 3,249 | Lastkomb. A | Combination | Max | 642,24 | 155,42   | 0,109   | -0,0016    | 0,1267  | -12,7038 82-4 | 0,749  |
| 82 | 3,25  | Lastkomb. A | Combination | Max | 642,24 | 155,458  | 0,109   | -0,0016    | 0,1266  | -12,7545 82-4 | 0,75   |
| 82 | 0     | Lastkomb. A | Combination | Min | 118,99 | -169,966 | -13,867 | -0,0053    | -4,2724 | -73,4726 82-1 | 0      |
| 82 | 0,5   | Lastkomb. A | Combination | Min | 118,17 | -150,858 | -13,867 | -0,0053    | 1,0945  | -17,8141 82-1 | 0,5    |
| 82 | 0,5   | Lastkomb. A | Combination | Min | 56,041 | -114,699 | 0,831   | -0,0053    | 1,0945  | -17,8141 82-2 | 0      |
| 82 | 1     | Lastkomb. A | Combination | Min | 55,168 | -76,429  | 0,831   | -0,0053    | 0,6655  | 4,6157 82-2   | 0,5    |
| 82 | 1,5   | Lastkomb. A | Combination | Min | 54,347 | -57,322  | 0,831   | -0,0053    | 0,1967  | 15,9495 82-2  | 1      |
| 82 | 1,5   | Lastkomb. A | Combination | Min | -8,53  | -20,742  | 0,1     | -0,0053    | 0,1967  | 15,9495 82-3  | 0      |
| 82 | 1,624 | Lastkomb. A | Combination | Min | -8,786 | -11,459  | 0,1     | -0,0053    | 0,1834  | 15,7125 82-3  | 0,124  |

|    |       |             |             |     |        |          |        |         |         |          |      |         |
|----|-------|-------------|-------------|-----|--------|----------|--------|---------|---------|----------|------|---------|
| 82 | 1,624 | Lastkomb. A | Combination | Min | -8,786 | -11,459  | 0,1    | -0,0053 | 0,1834  | 15,7125  | 82-3 | 0,124   |
| 82 | 2,062 | Lastkomb. A | Combination | Min | -9,505 | 5,279    | 0,1    | -0,0053 | 0,1367  | 10,1718  | 82-3 | 0,562   |
| 82 | 2,5   | Lastkomb. A | Combination | Min | -10,23 | 22,017   | 0,1    | -0,0053 | 0,09    | -2,7002  | 82-3 | 1       |
| 82 | 2,5   | Lastkomb. A | Combination | Min | -73,74 | 22,118   | 0,053  | -0,0053 | 0,09    | -2,7002  | 82-4 | 0       |
| 82 | 2,875 | Lastkomb. A | Combination | Min | -74,4  | 36,43    | 0,053  | -0,0053 | 0,0683  | -28,6963 | 82-4 | 0,3745  |
| 82 | 3,249 | Lastkomb. A | Combination | Min | -75,02 | 50,741   | 0,053  | -0,0053 | 0,0466  | -70,7726 | 82-4 | 0,749   |
| 82 | 3,249 | Lastkomb. A | Combination | Min | -75,02 | 50,741   | 0,053  | -0,0053 | 0,0466  | -70,7726 | 82-4 | 0,749   |
| 82 | 3,25  | Lastkomb. A | Combination | Min | -75,02 | 50,779   | 0,053  | -0,0053 | 0,0466  | -70,8922 | 82-4 | 0,75    |
| 83 | 0     | Lastkomb. A | Combination | Max | 2273,7 | -31,704  | 0,109  | -0,0036 | 0,1256  | -8,4564  | 83-1 | 0       |
| 83 | 0,25  | Lastkomb. A | Combination | Max | 2273,2 | -22,459  | 0,109  | -0,0036 | 0,1031  | -1,2921  | 83-1 | 0,25    |
| 83 | 0,25  | Lastkomb. A | Combination | Max | 2202,2 | -22,03   | 0,254  | -0,0036 | 0,1031  | -1,2921  | 83-2 | 0       |
| 83 | 0,75  | Lastkomb. A | Combination | Max | 2201,4 | -3,54    | 0,254  | -0,0036 | 0,0217  | 10,1846  | 83-2 | 0,5     |
| 83 | 1,25  | Lastkomb. A | Combination | Max | 2200,5 | 14,951   | 0,254  | -0,0036 | -0,0597 | 44,4136  | 83-2 | 1,00001 |
| 83 | 1,25  | Lastkomb. A | Combination | Max | 2145   | 14,951   | -0,288 | -0,0036 | -0,0597 | 44,4136  | 83-3 | 0       |
| 83 | 1,624 | Lastkomb. A | Combination | Max | 2144,4 | 44,682   | -0,288 | -0,0036 | 0,1192  | 30,7405  | 83-3 | 0,374   |
| 83 | 1,624 | Lastkomb. A | Combination | Max | 2144,4 | 44,682   | -0,288 | -0,0036 | 0,1192  | 30,7405  | 83-3 | 0,374   |
| 83 | 1,937 | Lastkomb. A | Combination | Max | 2143,8 | 56,257   | -0,288 | -0,0036 | 0,3571  | 20,1373  | 83-3 | 0,68701 |
| 83 | 2,25  | Lastkomb. A | Combination | Max | 2143,3 | 67,832   | -0,288 | -0,0036 | 0,604   | 11,1505  | 83-3 | 1,00001 |
| 83 | 2,25  | Lastkomb. A | Combination | Max | 2102,7 | 87,254   | 2,447  | -0,0036 | 0,604   | 11,1505  | 83-4 | 0       |
| 83 | 2,75  | Lastkomb. A | Combination | Max | 2101,9 | 143,034  | 2,447  | -0,0036 | -0,2693 | -41,3962 | 83-4 | 0,4995  |
| 83 | 3,249 | Lastkomb. A | Combination | Max | 2101   | 161,506  | 2,447  | -0,0036 | -0,8078 | -75,0726 | 83-4 | 0,99901 |
| 83 | 3,249 | Lastkomb. A | Combination | Max | 2101   | 161,506  | 2,447  | -0,0036 | -0,8078 | -75,0726 | 83-4 | 0,99901 |
| 83 | 3,25  | Lastkomb. A | Combination | Max | 2101   | 161,543  | 2,447  | -0,0036 | -0,8089 | -75,1492 | 83-4 | 1,00001 |
| 83 | 0     | Lastkomb. A | Combination | Min | 1446,5 | -158,993 | 0,052  | -0,0077 | 0,0453  | -68,3423 | 83-1 | 0       |
| 83 | 0,25  | Lastkomb. A | Combination | Min | 1446,1 | -149,748 | 0,052  | -0,0077 | 0,0307  | -33,4812 | 83-1 | 0,25    |
| 83 | 0,25  | Lastkomb. A | Combination | Min | 1420,3 | -115,355 | 0,123  | -0,0077 | 0,0307  | -33,4812 | 83-2 | 0       |
| 83 | 0,75  | Lastkomb. A | Combination | Min | 1419,5 | -77,703  | 0,123  | -0,0077 | -0,0597 | -6,0251  | 83-2 | 0,5     |
| 83 | 1,25  | Lastkomb. A | Combination | Min | 1418,6 | -59,212  | 0,123  | -0,0077 | -0,1848 | -4,9736  | 83-2 | 1,00001 |
| 83 | 1,25  | Lastkomb. A | Combination | Min | 1402,7 | -21,643  | -0,789 | -0,0077 | -0,1848 | -4,9736  | 83-3 | 0       |
| 83 | 1,624 | Lastkomb. A | Combination | Min | 1402,1 | 11,349   | -0,789 | -0,0077 | 0,0011  | -12,4696 | 83-3 | 0,374   |
| 83 | 1,624 | Lastkomb. A | Combination | Min | 1402,1 | 11,349   | -0,789 | -0,0077 | 0,0011  | -12,4696 | 83-3 | 0,374   |
| 83 | 1,937 | Lastkomb. A | Combination | Min | 1401,6 | 22,924   | -0,789 | -0,0077 | 0,0935  | -23,2897 | 83-3 | 0,68701 |
| 83 | 2,25  | Lastkomb. A | Combination | Min | 1401,1 | 34,499   | -0,789 | -0,0077 | 0,1835  | -37,7329 | 83-3 | 1,00001 |

|    |       |             |             |     |        |           |          |            |           |            |      |         |
|----|-------|-------------|-------------|-----|--------|-----------|----------|------------|-----------|------------|------|---------|
| 83 | 2,25  | Lastkomb. A | Combination | Min | 1394,8 | 39,64     | 1,078    | -0,0077    | 0,1835    | -37,7329   | 83-4 | 0       |
| 83 | 2,75  | Lastkomb. A | Combination | Min | 1394   | 58,112    | 1,078    | -0,0077    | -0,6219   | -70,5095   | 83-4 | 0,4995  |
| 83 | 3,249 | Lastkomb. A | Combination | Min | 1393,2 | 76,584    | 1,078    | -0,0077    | -1,8406   | -131,2904  | 83-4 | 0,99901 |
| 83 | 3,249 | Lastkomb. A | Combination | Min | 1393,2 | 76,584    | 1,078    | -0,0077    | -1,8406   | -131,2904  | 83-4 | 0,99901 |
| 83 | 3,25  | Lastkomb. A | Combination | Min | 1393,2 | 76,621    | 1,078    | -0,0077    | -1,843    | -131,4519  | 83-4 | 1,00001 |
| 84 | 0     | Lastkomb. A | Combination | Max | -1051  | -1,58E-16 | 5,778    | -0,0017    | 14,1332   | 0          | 84-1 | 0       |
| 84 | 2,358 | Lastkomb. A | Combination | Max | -1048  | 0         | 3,206    | -0,0017    | 9,2148    | 1,856E-16  | 84-1 | 2,35759 |
| 84 | 4,715 | Lastkomb. A | Combination | Max | -1045  | 1,575E-16 | 0,635    | -0,0017    | 19,9901   | 0          | 84-1 | 4,71518 |
| 84 | 0     | Lastkomb. A | Combination | Min | -1995  | -1,58E-16 | -0,713   | -0,0028    | 4,5027    | 0          | 84-1 | 0       |
| 84 | 2,358 | Lastkomb. A | Combination | Min | -1992  | 0         | -3,285   | -0,0028    | 3,5424    | 1,856E-16  | 84-1 | 2,35759 |
| 84 | 4,715 | Lastkomb. A | Combination | Min | -1990  | 1,575E-16 | -5,856   | -0,0028    | -0,9853   | 0          | 84-1 | 4,71518 |
| 85 | 0     | Lastkomb. A | Combination | Max | 1670,9 | -2,087    | 0,00098  | -0,0018    | -0,0091   | 0          | 85-1 | 0       |
| 85 | 2,371 | Lastkomb. A | Combination | Max | 1668,7 | 1,712E-18 | 0,00098  | -0,0018    | -0,011    | 2,4736     | 85-1 | 2,37055 |
| 85 | 4,741 | Lastkomb. A | Combination | Max | 1666,5 | 2,087     | 0,00098  | -0,0018    | -0,009    | 1,893E-17  | 85-1 | 4,74111 |
| 85 | 0     | Lastkomb. A | Combination | Min | 835,32 | -2,087    | -0,00311 | -0,0035    | -0,0269   | 0          | 85-1 | 0       |
| 85 | 2,371 | Lastkomb. A | Combination | Min | 833,11 | 1,712E-18 | -0,00311 | -0,0035    | -0,0195   | 2,4736     | 85-1 | 2,37055 |
| 85 | 4,741 | Lastkomb. A | Combination | Min | 830,89 | 2,087     | -0,00311 | -0,0035    | -0,0139   | 1,893E-17  | 85-1 | 4,74111 |
| 86 | 0     | Lastkomb. A | Combination | Max | -646,1 | -1,14E-16 | 2,268    | 0,0034     | 1,0345    | 0          | 86-1 | 0       |
| 86 | 2,406 | Lastkomb. A | Combination | Max | -644,1 | 0         | 0,402    | 0,0034     | 0,4904    | 1,375E-16  | 86-1 | 2,40617 |
| 86 | 4,812 | Lastkomb. A | Combination | Max | -642   | 1,143E-16 | -1,465   | 0,0034     | 9,3753    | 0          | 86-1 | 4,81234 |
| 86 | 0     | Lastkomb. A | Combination | Min | -1386  | -1,14E-16 | -0,893   | 0,0018     | -3,904    | 0          | 86-1 | 0       |
| 86 | 2,406 | Lastkomb. A | Combination | Min | -1384  | 0         | -2,759   | 0,0018     | -2,2415   | 1,375E-16  | 86-1 | 2,40617 |
| 86 | 4,812 | Lastkomb. A | Combination | Min | -1382  | 1,143E-16 | -4,626   | 0,0018     | -0,8987   | 0          | 86-1 | 4,81234 |
| 87 | 0     | Lastkomb. A | Combination | Max | 1079,7 | -1,336    | 0,00374  | 0,000143   | 0,0131    | 0          | 87-1 | 0       |
| 87 | 2,419 | Lastkomb. A | Combination | Max | 1078,2 | 5,786E-17 | 0,00374  | 0,000143   | 0,0041    | 1,6165     | 87-1 | 2,41936 |
| 87 | 4,839 | Lastkomb. A | Combination | Max | 1076,7 | 1,336     | 0,00374  | 0,000143   | -0,0025   | -3,844E-16 | 87-1 | 4,83873 |
| 87 | 0     | Lastkomb. A | Combination | Min | 448,48 | -1,336    | 0,00077  | -0,0000425 | 0,0012    | 0          | 87-1 | 0       |
| 87 | 2,419 | Lastkomb. A | Combination | Min | 447    | 5,786E-17 | 0,00077  | -0,0000425 | -0,000996 | 1,6165     | 87-1 | 2,41936 |
| 87 | 4,839 | Lastkomb. A | Combination | Min | 445,53 | 1,336     | 0,00077  | -0,0000425 | -0,005    | -3,844E-16 | 87-1 | 4,83873 |
| 88 | 0     | Lastkomb. A | Combination | Max | -274,4 | -7,79E-17 | 1,573    | 0,0043     | 0,5818    | 0          | 88-1 | 0       |
| 88 | 2,447 | Lastkomb. A | Combination | Max | -273   | 0         | 0,3      | 0,0043     | -0,4943   | 9,531E-17  | 88-1 | 2,44701 |
| 88 | 4,894 | Lastkomb. A | Combination | Max | -271,6 | 7,79E-17  | -0,972   | 0,0043     | 4,5597    | 0          | 88-1 | 4,89403 |
| 88 | 0     | Lastkomb. A | Combination | Min | -818,8 | -7,79E-17 | -0,157   | 0,0012     | -2,435    | 0          | 88-1 | 0       |



|    |       |             |             |     |        |           |          |            |         |           |      |         |
|----|-------|-------------|-------------|-----|--------|-----------|----------|------------|---------|-----------|------|---------|
| 88 | 2,447 | Lastkomb. A | Combination | Min | -817,3 | 0         | -1,429   | 0,0012     | -1,7099 | 9,531E-17 | 88-1 | 2,44701 |
| 88 | 4,894 | Lastkomb. A | Combination | Min | -815,9 | 7,79E-17  | -2,701   | 0,0012     | -0,8884 | 0         | 88-1 | 4,89403 |
| 89 | 0     | Lastkomb. A | Combination | Max | 544,11 | -4,79E-17 | 1,153    | -0,0001952 | 1,4704  | 0         | 89-1 | 0       |
| 89 | 2,46  | Lastkomb. A | Combination | Max | 543,22 | 0         | 0,371    | -0,0001952 | -0,4034 | 5,89E-17  | 89-1 | 2,46039 |
| 89 | 4,921 | Lastkomb. A | Combination | Max | 542,33 | 4,788E-17 | -0,411   | -0,0001952 | 1,539   | 0         | 89-1 | 4,92078 |
| 89 | 0     | Lastkomb. A | Combination | Min | 23,071 | -4,79E-17 | 0,02     | -0,0008552 | -2,2087 | 0         | 89-1 | 0       |
| 89 | 2,46  | Lastkomb. A | Combination | Min | 22,182 | 0         | -0,762   | -0,0008552 | -1,2975 | 5,89E-17  | 89-1 | 2,46039 |
| 89 | 4,921 | Lastkomb. A | Combination | Min | 21,294 | 4,788E-17 | -1,543   | -0,0008552 | -0,3535 | 0         | 89-1 | 4,92078 |
| 90 | 0     | Lastkomb. A | Combination | Max | 214,2  | -4,79E-17 | 1,403    | 0,0008823  | 1,1971  | 0         | 90-1 | 0       |
| 90 | 2,48  | Lastkomb. A | Combination | Max | 215,1  | 0         | 0,621    | 0,0008823  | -0,4171 | 5,937E-17 | 90-1 | 2,48008 |
| 90 | 4,96  | Lastkomb. A | Combination | Max | 216    | 4,788E-17 | -0,161   | 0,0008823  | 2,0649  | 0         | 90-1 | 4,96017 |
| 90 | 0     | Lastkomb. A | Combination | Min | -301,2 | -4,79E-17 | 0,172    | 0,0002593  | -0,96   | 0         | 90-1 | 0       |
| 90 | 2,48  | Lastkomb. A | Combination | Min | -300,3 | 0         | -0,61    | 0,0002593  | -1,3118 | 5,937E-17 | 90-1 | 2,48008 |
| 90 | 4,96  | Lastkomb. A | Combination | Min | -299,4 | 4,788E-17 | -1,392   | 0,0002593  | -1,8816 | 0         | 90-1 | 4,96017 |
| 91 | 0     | Lastkomb. A | Combination | Max | 55,048 | -4,79E-17 | 1,534    | -0,0002351 | 2,4472  | 0         | 91-1 | 0       |
| 91 | 2,494 | Lastkomb. A | Combination | Max | 54,138 | 0         | 0,752    | -0,0002351 | -0,4034 | 5,969E-17 | 91-1 | 2,4936  |
| 91 | 4,987 | Lastkomb. A | Combination | Max | 53,228 | 4,788E-17 | -0,03    | -0,0002351 | 0,8453  | 0         | 91-1 | 4,98719 |
| 91 | 0     | Lastkomb. A | Combination | Min | -461,7 | -4,79E-17 | 0,326    | -0,0008325 | -1,4304 | 0         | 91-1 | 0       |
| 91 | 2,494 | Lastkomb. A | Combination | Min | -462,6 | 0         | -0,456   | -0,0008325 | -1,2674 | 5,969E-17 | 91-1 | 2,4936  |
| 91 | 4,987 | Lastkomb. A | Combination | Min | -463,6 | 4,788E-17 | -1,238   | -0,0008325 | -1,3043 | 0         | 91-1 | 4,98719 |
| 92 | 0     | Lastkomb. A | Combination | Max | 697,18 | -4,79E-17 | 1,626    | 0,0004535  | 1,8992  | 0         | 92-1 | 0       |
| 92 | 2,505 | Lastkomb. A | Combination | Max | 698,1  | 0         | 0,845    | 0,0004535  | -0,371  | 5,997E-17 | 92-1 | 2,50511 |
| 92 | 5,01  | Lastkomb. A | Combination | Max | 699,01 | 4,788E-17 | 0,063    | 0,0004535  | 1,2531  | 0         | 92-1 | 5,01021 |
| 92 | 0     | Lastkomb. A | Combination | Min | 166,47 | -4,79E-17 | 0,524    | 0,0001309  | -0,0365 | 0         | 92-1 | 0       |
| 92 | 2,505 | Lastkomb. A | Combination | Min | 167,39 | 0         | -0,257   | 0,0001309  | -1,1979 | 5,997E-17 | 92-1 | 2,50511 |
| 92 | 5,01  | Lastkomb. A | Combination | Min | 168,31 | 4,788E-17 | -1,039   | 0,0001309  | -2,3326 | 0         | 92-1 | 5,01021 |
| 93 | 0     | Lastkomb. A | Combination | Max | -388,6 | -8,81E-17 | 3,203    | -0,0016    | 5,872   | 0         | 93-1 | 0       |
| 93 | 2,519 | Lastkomb. A | Combination | Max | -390,3 | 0         | 1,765    | -0,0016    | -0,3847 | 1,109E-16 | 93-1 | 2,51876 |
| 93 | 5,038 | Lastkomb. A | Combination | Max | -392   | 8,805E-17 | 0,327    | -0,0016    | 0,4134  | 0         | 93-1 | 5,03751 |
| 93 | 0     | Lastkomb. A | Combination | Min | -955,1 | -8,81E-17 | 1,238    | -0,004     | -0,5921 | 0         | 93-1 | 0       |
| 93 | 2,519 | Lastkomb. A | Combination | Min | -956,8 | 0         | -0,2     | -0,004     | -1,9003 | 1,109E-16 | 93-1 | 2,51876 |
| 93 | 5,038 | Lastkomb. A | Combination | Min | -958,5 | 8,805E-17 | -1,638   | -0,004     | -3,0193 | 0         | 93-1 | 5,03751 |
| 94 | 0     | Lastkomb. A | Combination | Max | 1190,4 | -1,447    | -0,00114 | 0,0005174  | -0,0048 | 0         | 94-1 | 0       |

|    |       |             |             |     |        |           |          |            |           |           |      |         |
|----|-------|-------------|-------------|-----|--------|-----------|----------|------------|-----------|-----------|------|---------|
| 94 | 2,522 | Lastkomb. A | Combination | Max | 1192,1 | 2,896E-17 | -0,00114 | 0,0005174  | -0,0018   | 1,8244    | 94-1 | 2,52193 |
| 94 | 5,044 | Lastkomb. A | Combination | Max | 1193,8 | 1,447     | -0,00114 | 0,0005174  | 0,0031    | 6,103E-17 | 94-1 | 5,04386 |
| 94 | 0     | Lastkomb. A | Combination | Min | 546,87 | -1,447    | -0,00198 | 0,0001903  | -0,0075   | 0         | 94-1 | 0       |
| 94 | 2,522 | Lastkomb. A | Combination | Min | 548,59 | 2,896E-17 | -0,00198 | 0,0001903  | -0,0026   | 1,8244    | 94-1 | 2,52193 |
| 94 | 5,044 | Lastkomb. A | Combination | Min | 550,31 | 1,447     | -0,00198 | 0,0001903  | 0,0006102 | 6,103E-17 | 94-1 | 5,04386 |
| 95 | 0     | Lastkomb. A | Combination | Max | -718,4 | -1,19E-16 | 4,665    | 0,0007433  | 10,4142   | 0         | 95-1 | 0       |
| 95 | 2,536 | Lastkomb. A | Combination | Max | -720,8 | 0         | 2,73     | 0,0007433  | 1,0392    | 1,502E-16 | 95-1 | 2,5356  |
| 95 | 5,071 | Lastkomb. A | Combination | Max | -723,1 | 1,185E-16 | 0,794    | 0,0007433  | 1,8391    | 0         | 95-1 | 5,07121 |
| 95 | 0     | Lastkomb. A | Combination | Min | -1442  | -1,19E-16 | 1,447    | 0,0004253  | -0,6356   | 0         | 95-1 | 0       |
| 95 | 2,536 | Lastkomb. A | Combination | Min | -1444  | 0         | -0,488   | 0,0004253  | -1,8519   | 1,502E-16 | 95-1 | 2,5356  |
| 95 | 5,071 | Lastkomb. A | Combination | Min | -1447  | 1,185E-16 | -2,423   | 0,0004253  | -3,4286   | 0         | 95-1 | 5,07121 |
| 96 | 0     | Lastkomb. A | Combination | Max | 1705,4 | -2,087    | -5,7E-05 | -0,0003966 | -0,0047   | 0         | 96-1 | 0       |
| 96 | 2,53  | Lastkomb. A | Combination | Max | 1707,9 | -2E-16    | -5,7E-05 | -0,0003966 | -0,0018   | 2,6403    | 96-1 | 2,53035 |
| 96 | 5,061 | Lastkomb. A | Combination | Max | 1710,4 | 2,087     | -5,7E-05 | -0,0003966 | 0,0013    | 1,533E-15 | 96-1 | 5,0607  |
| 96 | 0     | Lastkomb. A | Combination | Min | 899,89 | -2,087    | -0,00124 | -0,0008055 | -0,0064   | 0         | 96-1 | 0       |
| 96 | 2,53  | Lastkomb. A | Combination | Min | 902,38 | -2E-16    | -0,00124 | -0,0008055 | -0,0059   | 2,6403    | 96-1 | 2,53035 |
| 96 | 5,061 | Lastkomb. A | Combination | Min | 904,87 | 2,087     | -0,00124 | -0,0008055 | -0,0057   | 1,533E-15 | 96-1 | 5,0607  |
| 97 | 0     | Lastkomb. A | Combination | Max | -1022  | -6,78E-17 | 1,874    | 0,0004641  | 5,2068    | 0         | 97-1 | 0       |
| 97 | 2,544 | Lastkomb. A | Combination | Max | -1024  | 0         | 0,768    | 0,0004641  | 1,846     | 8,618E-17 | 97-1 | 2,54406 |
| 97 | 5,088 | Lastkomb. A | Combination | Max | -1025  | 6,775E-17 | -0,339   | 0,0004641  | 4,2526    | 0         | 97-1 | 5,08812 |
| 97 | 0     | Lastkomb. A | Combination | Min | -1874  | -6,78E-17 | 0,414    | 0,0003234  | 0,7276    | 0         | 97-1 | 0       |
| 97 | 2,544 | Lastkomb. A | Combination | Min | -1875  | 0         | -0,693   | 0,0003234  | 0,9088    | 8,618E-17 | 97-1 | 2,54406 |
| 97 | 5,088 | Lastkomb. A | Combination | Min | -1877  | 6,775E-17 | -1,799   | 0,0003234  | 1,3002    | 0         | 97-1 | 5,08812 |

## Vedlegg K.4 Lastkombinasjon b



**TABLE: Element Forces - Frames**

| Frame | Station | OutputCase | CaseType    | StepType | P       | V2       | V3      | T        | M2      | M3        | FrameElem | ElemStation |
|-------|---------|------------|-------------|----------|---------|----------|---------|----------|---------|-----------|-----------|-------------|
| Text  | m       | Text       | Text        | Text     | KN      | KN       | KN      | KN-m     | KN-m    | KN-m      | Text      | m           |
| 1     | 0       | Lastkomb b | Combination | Max      | -228,82 | -45,145  | -6,283  | -0,0012  | -1,9243 | -15,3401  | 1-1       | 0           |
| 1     | 0,25008 | Lastkomb b | Combination | Max      | -228,96 | -36,574  | -6,283  | -0,0012  | -0,0767 | 0,2946    | 1-1       | 0,25008     |
| 1     | 0,25008 | Lastkomb b | Combination | Max      | -215,14 | -36,588  | 0,599   | -0,0012  | -0,0767 | 0,2946    | 1-2       | 0           |
| 1     | 1,25039 | Lastkomb b | Combination | Max      | -215,71 | -2,305   | 0,599   | -0,0012  | -0,5812 | 50,4569   | 1-2       | 1,00031     |
| 1     | 1,25039 | Lastkomb b | Combination | Max      | -202,99 | -2,305   | -0,118  | -0,0012  | -0,5812 | 50,4569   | 1-3       | 0           |
| 1     | 1,43795 | Lastkomb b | Combination | Max      | -203,1  | 30,703   | -0,118  | -0,0012  | -0,5557 | 45,6459   | 1-3       | 0,18756     |
| 1     | 2,2507  | Lastkomb b | Combination | Max      | -203,56 | 58,559   | -0,118  | -0,0012  | -0,4428 | 21,7415   | 1-3       | 1,00031     |
| 1     | 2,2507  | Lastkomb b | Combination | Max      | -191,84 | 69,138   | -0,154  | -0,0012  | -0,4428 | 21,7415   | 1-4       | 0           |
| 1     | 2,8749  | Lastkomb b | Combination | Max      | -192,2  | 118,668  | -0,154  | -0,0012  | -0,3407 | -19,5714  | 1-4       | 0,62419     |
| 1     | 2,8749  | Lastkomb b | Combination | Max      | -192,2  | 118,668  | -0,154  | -0,0012  | -0,3407 | -19,5714  | 1-4       | 0,62419     |
| 1     | 2,8759  | Lastkomb b | Combination | Max      | -192,2  | 118,702  | -0,154  | -0,0012  | -0,3405 | -19,6213  | 1-4       | 0,62519     |
| 1     | 0       | Lastkomb b | Combination | Min      | -518,13 | -124,943 | -12,888 | -0,002   | -3,3702 | -37,2475  | 1-1       | 0           |
| 1     | 0,25008 | Lastkomb b | Combination | Min      | -518,27 | -116,372 | -12,888 | -0,002   | -0,8305 | -14,8715  | 1-1       | 0,25008     |
| 1     | 0,25008 | Lastkomb b | Combination | Min      | -496,47 | -89,208  | 0,116   | -0,002   | -0,8305 | -14,8715  | 1-2       | 0           |
| 1     | 1,25039 | Lastkomb b | Combination | Min      | -496,77 | -44,439  | 0,116   | -0,002   | -0,9515 | 12,8937   | 1-2       | 1,00031     |
| 1     | 1,25039 | Lastkomb b | Combination | Min      | -477,59 | -16,057  | -0,24   | -0,002   | -0,9515 | 12,8937   | 1-3       | 0           |
| 1     | 1,43795 | Lastkomb b | Combination | Min      | -477,43 | -0,149   | -0,24   | -0,002   | -0,9102 | 13,5244   | 1-3       | 0,18756     |
| 1     | 2,2507  | Lastkomb b | Combination | Min      | -477,89 | 27,707   | -0,24   | -0,002   | -0,7317 | -0,769    | 1-3       | 1,00031     |
| 1     | 2,2507  | Lastkomb b | Combination | Min      | -460,59 | 27,626   | -0,263  | -0,002   | -0,7317 | -0,769    | 1-4       | 0           |
| 1     | 2,8749  | Lastkomb b | Combination | Min      | -460,08 | 49,019   | -0,263  | -0,002   | -0,5706 | -46,9001  | 1-4       | 0,62419     |
| 1     | 2,8749  | Lastkomb b | Combination | Min      | -460,08 | 49,019   | -0,263  | -0,002   | -0,5706 | -46,9001  | 1-4       | 0,62419     |
| 1     | 2,8759  | Lastkomb b | Combination | Min      | -460,08 | 49,054   | -0,263  | -0,002   | -0,5704 | -47,0011  | 1-4       | 0,62519     |
| 2     | 0       | Lastkomb b | Combination | Max      | -245,98 | 0        | 1,882   | -0,00014 | 2,7741  | 0         | 2-1       | 0           |
| 2     | 1,375   | Lastkomb b | Combination | Max      | -245,41 | 0        | 1,882   | -0,00014 | 0,5821  | 0         | 2-1       | 1,375       |
| 2     | 2,75    | Lastkomb b | Combination | Max      | -244,83 | 0        | 1,882   | -0,00014 | 0,1586  | 0         | 2-1       | 2,75        |
| 2     | 0       | Lastkomb b | Combination | Min      | -414,91 | 0        | 0,278   | -0,00034 | 0,9236  | 0         | 2-1       | 0           |
| 2     | 1,375   | Lastkomb b | Combination | Min      | -414,34 | 0        | 0,278   | -0,00034 | 0,0828  | 0         | 2-1       | 1,375       |
| 2     | 2,75    | Lastkomb b | Combination | Min      | -413,76 | 0        | 0,278   | -0,00034 | -2,4019 | 0         | 2-1       | 2,75        |
| 3     | 0       | Lastkomb b | Combination | Max      | -253,55 | -3,6E-17 | 4,57    | -0,0121  | 6,8522  | 0         | 3-1       | 0           |
| 3     | 1,20376 | Lastkomb b | Combination | Max      | -253,15 | 0        | 3,981   | -0,0121  | 1,878   | 2,171E-17 | 3-1       | 1,20376     |
| 3     | 2,40751 | Lastkomb b | Combination | Max      | -252,75 | 3,61E-17 | 3,391   | -0,0121  | -1,5206 | 0         | 3-1       | 2,40751     |
| 3     | 0       | Lastkomb b | Combination | Min      | -438,77 | -3,6E-17 | 3,154   | -0,0134  | 4,6123  | 0         | 3-1       | 0           |

|   |         |            |             |     |         |          |        |         |         |           |     |         |
|---|---------|------------|-------------|-----|---------|----------|--------|---------|---------|-----------|-----|---------|
| 3 | 1,20376 | Lastkomb b | Combination | Min | -438,37 | 0        | 2,565  | -0,0134 | 1,1702  | 2,171E-17 | 3-1 | 1,20376 |
| 3 | 2,40751 | Lastkomb b | Combination | Min | -437,97 | 3,61E-17 | 1,976  | -0,0134 | -2,7312 | 0         | 3-1 | 2,40751 |
| 4 | 0       | Lastkomb b | Combination | Max | -492,61 | -51,085  | -0,154 | -0,0027 | -0,3397 | -21,6275  | 4-1 | 0       |
| 4 | 0,37511 | Lastkomb b | Combination | Max | -492,83 | -38,229  | -0,154 | -0,0027 | -0,2783 | 2,3731    | 4-1 | 0,37511 |
| 4 | 0,37511 | Lastkomb b | Combination | Max | -489,62 | -38,475  | -0,102 | -0,0027 | -0,2783 | 2,3731    | 4-2 | 0       |
| 4 | 1,37541 | Lastkomb b | Combination | Max | -490,21 | -4,193   | -0,102 | -0,0027 | -0,1456 | 53,4261   | 4-2 | 1,00029 |
| 4 | 1,37541 | Lastkomb b | Combination | Max | -490,17 | -4,001   | -0,757 | -0,0027 | -0,1456 | 53,4261   | 4-3 | 0       |
| 4 | 1,43792 | Lastkomb b | Combination | Max | -490,21 | 25,336   | -0,757 | -0,0027 | -0,0933 | 52,254    | 4-3 | 0,06252 |
| 4 | 2,3757  | Lastkomb b | Combination | Max | -490,76 | 57,475   | -0,757 | -0,0027 | 1,2312  | 25,4347   | 4-3 | 1,00029 |
| 4 | 2,3757  | Lastkomb b | Combination | Max | -493,9  | 68,657   | 8,93   | -0,0027 | 1,2312  | 25,4347   | 4-4 | 0       |
| 4 | 2,87485 | Lastkomb b | Combination | Max | -494,19 | 113,706  | 8,93   | -0,0027 | -1,4022 | -9,7477   | 4-4 | 0,49915 |
| 4 | 2,87485 | Lastkomb b | Combination | Max | -494,19 | 113,706  | 8,93   | -0,0027 | -1,4022 | -9,7477   | 4-4 | 0,49915 |
| 4 | 2,87585 | Lastkomb b | Combination | Max | -494,19 | 113,74   | 8,93   | -0,0027 | -1,4063 | -9,7926   | 4-4 | 0,50015 |
| 4 | 0       | Lastkomb b | Combination | Min | -986,18 | -130,32  | -0,263 | -0,0043 | -0,5697 | -49,4743  | 4-1 | 0       |
| 4 | 0,37511 | Lastkomb b | Combination | Min | -986,4  | -117,465 | -0,263 | -0,0043 | -0,4729 | -14,9222  | 4-1 | 0,37511 |
| 4 | 0,37511 | Lastkomb b | Combination | Min | -969,98 | -90,29   | -0,234 | -0,0043 | -0,4729 | -14,9222  | 4-2 | 0       |
| 4 | 1,37541 | Lastkomb b | Combination | Min | -970,32 | -45,523  | -0,234 | -0,0043 | -0,2494 | 14,3995   | 4-2 | 1,00029 |
| 4 | 1,37541 | Lastkomb b | Combination | Min | -959,81 | -17,351  | -1,442 | -0,0043 | -0,2494 | 14,3995   | 4-3 | 0       |
| 4 | 1,43792 | Lastkomb b | Combination | Min | -959,59 | -7,063   | -1,442 | -0,0043 | -0,1923 | 14,9081   | 4-3 | 0,06252 |
| 4 | 2,3757  | Lastkomb b | Combination | Min | -960,14 | 25,077   | -1,442 | -0,0043 | 0,6017  | 3,5119    | 4-3 | 1,00029 |
| 4 | 2,3757  | Lastkomb b | Combination | Min | -955,44 | 25,344   | 4,124  | -0,0043 | 0,6017  | 3,5119    | 4-4 | 0       |
| 4 | 2,87485 | Lastkomb b | Combination | Min | -955,48 | 42,451   | 4,124  | -0,0043 | -3,2309 | -30,243   | 4-4 | 0,49915 |
| 4 | 2,87485 | Lastkomb b | Combination | Min | -955,48 | 42,451   | 4,124  | -0,0043 | -3,2309 | -30,243   | 4-4 | 0,49915 |
| 4 | 2,87585 | Lastkomb b | Combination | Min | -955,48 | 42,486   | 4,124  | -0,0043 | -3,2398 | -30,3393  | 4-4 | 0,50015 |
| 5 | 0       | Lastkomb b | Combination | Max | 438,889 | -2,5E-17 | 2,06   | 0,0021  | 2,7345  | 0         | 5-1 | 0       |
| 5 | 1,21513 | Lastkomb b | Combination | Max | 439,181 | 0        | 1,644  | 0,0021  | 1,1543  | 1,549E-17 | 5-1 | 1,21513 |
| 5 | 2,43025 | Lastkomb b | Combination | Max | 439,473 | 2,55E-17 | 1,228  | 0,0021  | 0,9143  | 0         | 5-1 | 2,43025 |
| 5 | 0       | Lastkomb b | Combination | Min | 253,166 | -2,5E-17 | 0,667  | 0,0017  | 1,524   | 0         | 5-1 | 0       |
| 5 | 1,21513 | Lastkomb b | Combination | Min | 253,458 | 0        | 0,251  | 0,0017  | 0,4571  | 1,549E-17 | 5-1 | 1,21513 |
| 5 | 2,43025 | Lastkomb b | Combination | Min | 253,749 | 2,55E-17 | -0,165 | 0,0017  | -1,2607 | 0         | 5-1 | 2,43025 |
| 6 | 0       | Lastkomb b | Combination | Max | 375,096 | -11,67   | 14,986 | 0,0016  | 13,6593 | 0         | 6-1 | 0       |
| 6 | 0,99515 | Lastkomb b | Combination | Max | 374,282 | 22,432   | 14,986 | 0,0016  | 0,4814  | 23,0759   | 6-1 | 0,99515 |
| 6 | 0,99515 | Lastkomb b | Combination | Max | 388,133 | 29,379   | -0,68  | 0,0016  | 0,4814  | 23,0759   | 6-2 | 0       |
| 6 | 1,98931 | Lastkomb b | Combination | Max | 387,32  | 96,722   | -0,68  | 0,0016  | 1,2062  | -31,9177  | 6-2 | 0,99415 |
| 6 | 1,98931 | Lastkomb b | Combination | Max | 387,32  | 96,722   | -0,68  | 0,0016  | 1,2062  | -31,9177  | 6-2 | 0,99415 |

|   |         |            |             |     |         |         |        |          |         |          |     |         |
|---|---------|------------|-------------|-----|---------|---------|--------|----------|---------|----------|-----|---------|
| 6 | 1,99031 | Lastkomb b | Combination | Max | 387,319 | 96,756  | -0,68  | 0,0016   | 1,2074  | -31,9678 | 6-2 | 0,99515 |
| 6 | 0       | Lastkomb b | Combination | Min | 119,971 | -40,239 | 5,065  | -0,00031 | 5,1164  | 0        | 6-1 | 0       |
| 6 | 0,99515 | Lastkomb b | Combination | Min | 119,156 | -6,137  | 5,065  | -0,00031 | -1,2536 | -5,3547  | 6-1 | 0,99515 |
| 6 | 0,99515 | Lastkomb b | Combination | Min | 123,871 | 16,062  | -2,151 | -0,00031 | -1,2536 | -5,3547  | 6-2 | 0       |
| 6 | 1,98931 | Lastkomb b | Combination | Min | 123,057 | 50,129  | -2,151 | -0,00031 | 0,7515  | -58,4002 | 6-2 | 0,99415 |
| 6 | 1,98931 | Lastkomb b | Combination | Min | 123,057 | 50,129  | -2,151 | -0,00031 | 0,7515  | -58,4002 | 6-2 | 0,99415 |
| 6 | 1,99031 | Lastkomb b | Combination | Min | 123,056 | 50,163  | -2,151 | -0,00031 | 0,7522  | -58,4742 | 6-2 | 0,99515 |
| 7 | 0       | Lastkomb b | Combination | Max | -288,77 | 0       | 0,169  | 0,0103   | -0,0102 | 0        | 7-1 | 0       |
| 7 | 0,68    | Lastkomb b | Combination | Max | -288,41 | 0       | 0,169  | 0,0103   | -0,0506 | 0        | 7-1 | 0,68    |
| 7 | 1,36    | Lastkomb b | Combination | Max | -288,06 | 0       | 0,169  | 0,0103   | -0,0897 | 0        | 7-1 | 1,36    |
| 7 | 0       | Lastkomb b | Combination | Min | -499,42 | 0       | 0,058  | 0,0083   | -0,0114 | 0        | 7-1 | 0       |
| 7 | 0,68    | Lastkomb b | Combination | Min | -499,07 | 0       | 0,058  | 0,0083   | -0,1253 | 0        | 7-1 | 0,68    |
| 7 | 1,36    | Lastkomb b | Combination | Min | -498,72 | 0       | 0,058  | 0,0083   | -0,2404 | 0        | 7-1 | 1,36    |
| 8 | 0       | Lastkomb b | Combination | Max | -921,2  | -6,563  | -0,153 | -0,0015  | -0,501  | -16,6509 | 8-1 | 0       |
| 8 | 0,46429 | Lastkomb b | Combination | Max | -921,21 | -5,982  | -0,153 | -0,0015  | -0,43   | -13,7386 | 8-1 | 0,46429 |
| 8 | 0,92859 | Lastkomb b | Combination | Max | -921,21 | -5,402  | -0,153 | -0,0015  | -0,3589 | -11,0956 | 8-1 | 0,92859 |
| 8 | 1,39288 | Lastkomb b | Combination | Max | -921,21 | -4,822  | -0,153 | -0,0015  | -0,2879 | -8,722   | 8-1 | 1,39288 |
| 8 | 1,85717 | Lastkomb b | Combination | Max | -921,22 | -4,242  | -0,153 | -0,0015  | -0,2132 | -6,6179  | 8-1 | 1,85717 |
| 8 | 2,32146 | Lastkomb b | Combination | Max | -921,22 | -3,661  | -0,153 | -0,0015  | -0,1377 | -4,7831  | 8-1 | 2,32146 |
| 8 | 2,78576 | Lastkomb b | Combination | Max | -921,22 | -3,081  | -0,153 | -0,0015  | -0,0622 | -2,7916  | 8-1 | 2,78576 |
| 8 | 3,25005 | Lastkomb b | Combination | Max | -921,22 | -2,501  | -0,153 | -0,0015  | 0,0133  | -0,4639  | 8-1 | 3,25005 |
| 8 | 0       | Lastkomb b | Combination | Min | -1334,9 | -8,903  | -0,198 | -0,0022  | -0,7041 | -22,884  | 8-1 | 0       |
| 8 | 0,46429 | Lastkomb b | Combination | Min | -1334,9 | -8,322  | -0,198 | -0,0022  | -0,6121 | -19,0501 | 8-1 | 0,46429 |
| 8 | 0,92859 | Lastkomb b | Combination | Min | -1334,9 | -7,742  | -0,198 | -0,0022  | -0,52   | -15,4857 | 8-1 | 0,92859 |
| 8 | 1,39288 | Lastkomb b | Combination | Min | -1334,9 | -7,162  | -0,198 | -0,0022  | -0,428  | -12,1906 | 8-1 | 1,39288 |
| 8 | 1,85717 | Lastkomb b | Combination | Min | -1334,9 | -6,582  | -0,198 | -0,0022  | -0,336  | -9,1888  | 8-1 | 1,85717 |
| 8 | 2,32146 | Lastkomb b | Combination | Min | -1334,9 | -6,001  | -0,198 | -0,0022  | -0,2439 | -6,684   | 8-1 | 2,32146 |
| 8 | 2,78576 | Lastkomb b | Combination | Min | -1334,9 | -5,421  | -0,198 | -0,0022  | -0,1519 | -4,7776  | 8-1 | 2,78576 |
| 8 | 3,25005 | Lastkomb b | Combination | Min | -1334,9 | -4,841  | -0,198 | -0,0022  | -0,0598 | -3,1478  | 8-1 | 3,25005 |
| 9 | 0       | Lastkomb b | Combination | Max | -921,03 | -1,781  | -0,153 | -0,0015  | 0,0131  | -1,0448  | 9-1 | 0       |
| 9 | 0,46429 | Lastkomb b | Combination | Max | -921,03 | -1,201  | -0,153 | -0,0015  | 0,0886  | -0,199   | 9-1 | 0,46429 |
| 9 | 0,92859 | Lastkomb b | Combination | Max | -921,03 | -0,621  | -0,153 | -0,0015  | 0,1641  | 0,3831   | 9-1 | 0,92859 |
| 9 | 1,39288 | Lastkomb b | Combination | Max | -921,04 | -0,04   | -0,153 | -0,0015  | 0,2424  | 0,6958   | 9-1 | 1,39288 |
| 9 | 1,85717 | Lastkomb b | Combination | Max | -921,04 | 0,54    | -0,153 | -0,0015  | 0,33    | 0,8251   | 9-1 | 1,85717 |
| 9 | 2,32146 | Lastkomb b | Combination | Max | -921,04 | 1,12    | -0,153 | -0,0015  | 0,4175  | 0,8873   | 9-1 | 2,32146 |



|    |         |            |             |     |         |        |        |         |          |              |         |
|----|---------|------------|-------------|-----|---------|--------|--------|---------|----------|--------------|---------|
| 9  | 2,78576 | Lastkomb b | Combination | Max | -921,05 | 1,7    | -0,153 | -0,0015 | 0,5051   | 0,6802 9-1   | 2,78576 |
| 9  | 3,25005 | Lastkomb b | Combination | Max | -921,05 | 2,281  | -0,153 | -0,0015 | 0,5927   | 0,2036 9-1   | 3,25005 |
| 9  | 0       | Lastkomb b | Combination | Min | -1334,7 | -2,774 | -0,198 | -0,0022 | -0,0601  | -3,563 9-1   | 0       |
| 9  | 0,46429 | Lastkomb b | Combination | Min | -1334,7 | -2,194 | -0,198 | -0,0022 | 0,032    | -2,7421 9-1  | 0,46429 |
| 9  | 0,92859 | Lastkomb b | Combination | Min | -1334,7 | -1,613 | -0,198 | -0,0022 | 0,124    | -2,1935 9-1  | 0,92859 |
| 9  | 1,39288 | Lastkomb b | Combination | Min | -1334,7 | -1,033 | -0,198 | -0,0022 | 0,2092   | -1,9151 9-1  | 1,39288 |
| 9  | 1,85717 | Lastkomb b | Combination | Min | -1334,7 | -0,453 | -0,198 | -0,0022 | 0,2802   | -1,9066 9-1  | 1,85717 |
| 9  | 2,32146 | Lastkomb b | Combination | Min | -1334,7 | 0,127  | -0,198 | -0,0022 | 0,3513   | -2,1676 9-1  | 2,32146 |
| 9  | 2,78576 | Lastkomb b | Combination | Min | -1334,7 | 0,708  | -0,198 | -0,0022 | 0,4223   | -2,698 9-1   | 2,78576 |
| 9  | 3,25005 | Lastkomb b | Combination | Min | -1334,7 | 1,288  | -0,198 | -0,0022 | 0,4934   | -3,4978 9-1  | 3,25005 |
| 10 | 0       | Lastkomb b | Combination | Max | 483,02  | -3,046 | -0,014 | 0,00077 | 0,0568   | -3,2589 10-1 | 0       |
| 10 | 0,50001 | Lastkomb b | Combination | Max | 483,018 | -2,654 | -0,014 | 0,00077 | 0,0641   | -1,6797 10-1 | 0,50001 |
| 10 | 1,00002 | Lastkomb b | Combination | Max | 483,016 | -2,262 | -0,014 | 0,00077 | 0,0713   | -0,2965 10-1 | 1,00002 |
| 10 | 1,50002 | Lastkomb b | Combination | Max | 483,014 | -1,87  | -0,014 | 0,00077 | 0,0785   | 0,8907 10-1  | 1,50002 |
| 10 | 2,00003 | Lastkomb b | Combination | Max | 483,011 | -1,478 | -0,014 | 0,00077 | 0,0858   | 1,8819 10-1  | 2,00003 |
| 10 | 2,50004 | Lastkomb b | Combination | Max | 483,009 | -1,086 | -0,014 | 0,00077 | 0,093    | 2,677 10-1   | 2,50004 |
| 10 | 3,00005 | Lastkomb b | Combination | Max | 483,007 | -0,694 | -0,014 | 0,00077 | 0,1002   | 3,2761 10-1  | 3,00005 |
| 10 | 3,50005 | Lastkomb b | Combination | Max | 483,005 | -0,302 | -0,014 | 0,00077 | 0,1097   | 3,684 10-1   | 3,50005 |
| 10 | 4,00006 | Lastkomb b | Combination | Max | 483,003 | 0,09   | -0,014 | 0,00077 | 0,1302   | 3,9431 10-1  | 4,00006 |
| 10 | 4,50007 | Lastkomb b | Combination | Max | 483,001 | 0,482  | -0,014 | 0,00077 | 0,1506   | 4,0961 10-1  | 4,50007 |
| 10 | 5,00008 | Lastkomb b | Combination | Max | 482,999 | 0,874  | -0,014 | 0,00077 | 0,171    | 4,0531 10-1  | 5,00008 |
| 10 | 5,50008 | Lastkomb b | Combination | Max | 482,996 | 1,266  | -0,014 | 0,00077 | 0,1915   | 3,8141 10-1  | 5,50008 |
| 10 | 6,00009 | Lastkomb b | Combination | Max | 482,994 | 1,658  | -0,014 | 0,00077 | 0,2119   | 3,379 10-1   | 6,00009 |
| 10 | 6,5001  | Lastkomb b | Combination | Max | 482,992 | 2,05   | -0,014 | 0,00077 | 0,2324   | 2,7479 10-1  | 6,5001  |
| 10 | 0       | Lastkomb b | Combination | Min | -196,88 | -3,758 | -0,041 | 0,00048 | -0,0582  | -5,8553 10-1 | 0       |
| 10 | 0,50001 | Lastkomb b | Combination | Min | -196,88 | -3,366 | -0,041 | 0,00048 | -0,0389  | -4,3271 10-1 | 0,50001 |
| 10 | 1,00002 | Lastkomb b | Combination | Min | -196,88 | -2,974 | -0,041 | 0,00048 | -0,0197  | -2,9949 10-1 | 1,00002 |
| 10 | 1,50002 | Lastkomb b | Combination | Min | -196,89 | -2,581 | -0,041 | 0,00048 | -0,00053 | -1,8588 10-1 | 1,50002 |
| 10 | 2,00003 | Lastkomb b | Combination | Min | -196,89 | -2,189 | -0,041 | 0,00048 | 0,0185   | -0,9187 10-1 | 2,00003 |
| 10 | 2,50004 | Lastkomb b | Combination | Min | -196,89 | -1,797 | -0,041 | 0,00048 | 0,0374   | -0,1747 10-1 | 2,50004 |
| 10 | 3,00005 | Lastkomb b | Combination | Min | -196,89 | -1,405 | -0,041 | 0,00048 | 0,0563   | 0,3733 10-1  | 3,00005 |
| 10 | 3,50005 | Lastkomb b | Combination | Min | -196,89 | -1,013 | -0,041 | 0,00048 | 0,0747   | 0,7253 10-1  | 3,50005 |
| 10 | 4,00006 | Lastkomb b | Combination | Min | -196,9  | -0,621 | -0,041 | 0,00048 | 0,0892   | 0,8813 10-1  | 4,00006 |
| 10 | 4,50007 | Lastkomb b | Combination | Min | -196,9  | -0,229 | -0,041 | 0,00048 | 0,1015   | 0,8412 10-1  | 4,50007 |
| 10 | 5,00008 | Lastkomb b | Combination | Min | -196,9  | 0,163  | -0,041 | 0,00048 | 0,1134   | 0,6052 10-1  | 5,00008 |

|    |         |            |             |     |         |        |        |         |         |         |      |         |
|----|---------|------------|-------------|-----|---------|--------|--------|---------|---------|---------|------|---------|
| 10 | 5,50008 | Lastkomb b | Combination | Min | -196,9  | 0,555  | -0,041 | 0,00048 | 0,1254  | 0,173   | 10-1 | 5,50008 |
| 10 | 6,00009 | Lastkomb b | Combination | Min | -196,9  | 0,947  | -0,041 | 0,00048 | 0,1372  | -0,4551 | 10-1 | 6,00009 |
| 10 | 6,5001  | Lastkomb b | Combination | Min | -196,91 | 1,339  | -0,041 | 0,00048 | 0,1488  | -1,2793 | 10-1 | 6,5001  |
| 11 | 0       | Lastkomb b | Combination | Max | 1297,27 | -3,963 | -0,014 | 0,0012  | -0,1494 | 0,6394  | 11-1 | 0       |
| 11 | 0,50001 | Lastkomb b | Combination | Max | 1297,27 | -3,372 | -0,014 | 0,0012  | -0,1396 | 2,5818  | 11-1 | 0,50001 |
| 11 | 1,00002 | Lastkomb b | Combination | Max | 1297,27 | -2,78  | -0,014 | 0,0012  | -0,1293 | 4,2284  | 11-1 | 1,00002 |
| 11 | 1,50002 | Lastkomb b | Combination | Max | 1297,26 | -2,188 | -0,014 | 0,0012  | -0,1187 | 5,6018  | 11-1 | 1,50002 |
| 11 | 2,00003 | Lastkomb b | Combination | Max | 1297,26 | -1,597 | -0,014 | 0,0012  | -0,1075 | 6,7137  | 11-1 | 2,00003 |
| 11 | 2,50004 | Lastkomb b | Combination | Max | 1297,26 | -1,005 | -0,014 | 0,0012  | -0,0956 | 7,588   | 11-1 | 2,50004 |
| 11 | 3,00005 | Lastkomb b | Combination | Max | 1297,25 | -0,413 | -0,014 | 0,0012  | -0,0754 | 8,1665  | 11-1 | 3,00005 |
| 11 | 3,50005 | Lastkomb b | Combination | Max | 1297,25 | 0,178  | -0,014 | 0,0012  | -0,0551 | 8,4873  | 11-1 | 3,50005 |
| 11 | 4,00006 | Lastkomb b | Combination | Max | 1297,25 | 0,77   | -0,014 | 0,0012  | -0,0348 | 8,5884  | 11-1 | 4,00006 |
| 11 | 4,50007 | Lastkomb b | Combination | Max | 1297,24 | 1,362  | -0,014 | 0,0012  | -0,0143 | 8,4399  | 11-1 | 4,50007 |
| 11 | 5,00008 | Lastkomb b | Combination | Max | 1297,24 | 1,953  | -0,014 | 0,0012  | 0,0062  | 8,0033  | 11-1 | 5,00008 |
| 11 | 5,50008 | Lastkomb b | Combination | Max | 1297,24 | 2,545  | -0,014 | 0,0012  | 0,0267  | 7,2709  | 11-1 | 5,50008 |
| 11 | 6,00009 | Lastkomb b | Combination | Max | 1297,23 | 3,136  | -0,014 | 0,0012  | 0,0487  | 6,2427  | 11-1 | 6,00009 |
| 11 | 6,5001  | Lastkomb b | Combination | Max | 1297,23 | 3,728  | -0,014 | 0,0012  | 0,0743  | 4,9311  | 11-1 | 6,5001  |
| 11 | 0       | Lastkomb b | Combination | Min | 441,246 | -4,948 | -0,051 | 0,00076 | -0,2593 | -3,2005 | 11-1 | 0       |
| 11 | 0,50001 | Lastkomb b | Combination | Min | 441,243 | -4,356 | -0,051 | 0,00076 | -0,2336 | -1,1566 | 11-1 | 0,50001 |
| 11 | 1,00002 | Lastkomb b | Combination | Min | 441,24  | -3,764 | -0,051 | 0,00076 | -0,208  | 0,5915  | 11-1 | 1,00002 |
| 11 | 1,50002 | Lastkomb b | Combination | Min | 441,236 | -3,173 | -0,051 | 0,00076 | -0,1823 | 2,0437  | 11-1 | 1,50002 |
| 11 | 2,00003 | Lastkomb b | Combination | Min | 441,233 | -2,581 | -0,051 | 0,00076 | -0,1566 | 3,2002  | 11-1 | 2,00003 |
| 11 | 2,50004 | Lastkomb b | Combination | Min | 441,23  | -1,99  | -0,051 | 0,00076 | -0,131  | 4,0608  | 11-1 | 2,50004 |
| 11 | 3,00005 | Lastkomb b | Combination | Min | 441,227 | -1,398 | -0,051 | 0,00076 | -0,1157 | 4,6256  | 11-1 | 3,00005 |
| 11 | 3,50005 | Lastkomb b | Combination | Min | 441,223 | -0,806 | -0,051 | 0,00076 | -0,107  | 4,8945  | 11-1 | 3,50005 |
| 11 | 4,00006 | Lastkomb b | Combination | Min | 441,22  | -0,215 | -0,051 | 0,00076 | -0,0999 | 4,8677  | 11-1 | 4,00006 |
| 11 | 4,50007 | Lastkomb b | Combination | Min | 441,217 | 0,377  | -0,051 | 0,00076 | -0,0928 | 4,545   | 11-1 | 4,50007 |
| 11 | 5,00008 | Lastkomb b | Combination | Min | 441,214 | 0,969  | -0,051 | 0,00076 | -0,0858 | 3,9265  | 11-1 | 5,00008 |
| 11 | 5,50008 | Lastkomb b | Combination | Min | 441,21  | 1,56   | -0,051 | 0,00076 | -0,0787 | 3,0122  | 11-1 | 5,50008 |
| 11 | 6,00009 | Lastkomb b | Combination | Min | 441,207 | 2,152  | -0,051 | 0,00076 | -0,0717 | 1,802   | 11-1 | 6,00009 |
| 11 | 6,5001  | Lastkomb b | Combination | Min | 441,204 | 2,744  | -0,051 | 0,00076 | -0,0648 | 0,2033  | 11-1 | 6,5001  |
| 12 | 0       | Lastkomb b | Combination | Max | 1498,69 | -3,512 | -0,023 | 8,1E-05 | -0,2032 | 4,1182  | 12-1 | 0       |
| 12 | 0,50001 | Lastkomb b | Combination | Max | 1498,68 | -2,854 | -0,023 | 8,1E-05 | -0,1867 | 5,8237  | 12-1 | 0,50001 |
| 12 | 1,00002 | Lastkomb b | Combination | Max | 1498,68 | -2,196 | -0,023 | 8,1E-05 | -0,1679 | 7,2082  | 12-1 | 1,00002 |
| 12 | 1,50002 | Lastkomb b | Combination | Max | 1498,68 | -1,537 | -0,023 | 8,1E-05 | -0,1491 | 8,2771  | 12-1 | 1,50002 |

|    |         |            |             |     |         |        |        |          |         |         |      |         |
|----|---------|------------|-------------|-----|---------|--------|--------|----------|---------|---------|------|---------|
| 12 | 2,00003 | Lastkomb b | Combination | Max | 1498,67 | -0,879 | -0,023 | 8,1E-05  | -0,1303 | 9,0272  | 12-1 | 2,00003 |
| 12 | 2,50004 | Lastkomb b | Combination | Max | 1498,67 | -0,221 | -0,023 | 8,1E-05  | -0,1115 | 9,4958  | 12-1 | 2,50004 |
| 12 | 3,00005 | Lastkomb b | Combination | Max | 1498,67 | 0,437  | -0,023 | 8,1E-05  | -0,0927 | 9,6646  | 12-1 | 3,00005 |
| 12 | 3,50005 | Lastkomb b | Combination | Max | 1498,66 | 1,095  | -0,023 | 8,1E-05  | -0,0718 | 9,5606  | 12-1 | 3,50005 |
| 12 | 4,00006 | Lastkomb b | Combination | Max | 1498,66 | 1,753  | -0,023 | 8,1E-05  | -0,0494 | 9,1939  | 12-1 | 4,00006 |
| 12 | 4,50007 | Lastkomb b | Combination | Max | 1498,66 | 2,412  | -0,023 | 8,1E-05  | -0,0271 | 8,5275  | 12-1 | 4,50007 |
| 12 | 5,00008 | Lastkomb b | Combination | Max | 1498,65 | 3,07   | -0,023 | 8,1E-05  | -0,0047 | 7,6056  | 12-1 | 5,00008 |
| 12 | 5,50008 | Lastkomb b | Combination | Max | 1498,65 | 3,728  | -0,023 | 8,1E-05  | 0,0177  | 6,3546  | 12-1 | 5,50008 |
| 12 | 6,00009 | Lastkomb b | Combination | Max | 1498,65 | 4,386  | -0,023 | 8,1E-05  | 0,04    | 4,7745  | 12-1 | 6,00009 |
| 12 | 6,5001  | Lastkomb b | Combination | Max | 1498,64 | 5,044  | -0,023 | 8,1E-05  | 0,0658  | 2,8654  | 12-1 | 6,5001  |
| 12 | 0       | Lastkomb b | Combination | Min | 605,344 | -4,689 | -0,06  | -8,5E-05 | -0,3472 | -0,845  | 12-1 | 0       |
| 12 | 0,50001 | Lastkomb b | Combination | Min | 605,34  | -4,031 | -0,06  | -8,5E-05 | -0,32   | 1,1297  | 12-1 | 0,50001 |
| 12 | 1,00002 | Lastkomb b | Combination | Min | 605,337 | -3,373 | -0,06  | -8,5E-05 | -0,2929 | 2,7754  | 12-1 | 1,00002 |
| 12 | 1,50002 | Lastkomb b | Combination | Min | 605,333 | -2,715 | -0,06  | -8,5E-05 | -0,2658 | 4,0919  | 12-1 | 1,50002 |
| 12 | 2,00003 | Lastkomb b | Combination | Min | 605,329 | -2,057 | -0,06  | -8,5E-05 | -0,2387 | 5,0794  | 12-1 | 2,00003 |
| 12 | 2,50004 | Lastkomb b | Combination | Min | 605,326 | -1,399 | -0,06  | -8,5E-05 | -0,2125 | 5,7378  | 12-1 | 2,50004 |
| 12 | 3,00005 | Lastkomb b | Combination | Min | 605,322 | -0,74  | -0,06  | -8,5E-05 | -0,1865 | 6,0463  | 12-1 | 3,00005 |
| 12 | 3,50005 | Lastkomb b | Combination | Min | 605,319 | -0,082 | -0,06  | -8,5E-05 | -0,1641 | 5,9162  | 12-1 | 3,50005 |
| 12 | 4,00006 | Lastkomb b | Combination | Min | 605,315 | 0,576  | -0,06  | -8,5E-05 | -0,1482 | 5,4571  | 12-1 | 4,00006 |
| 12 | 4,50007 | Lastkomb b | Combination | Min | 605,311 | 1,234  | -0,06  | -8,5E-05 | -0,1323 | 4,6689  | 12-1 | 4,50007 |
| 12 | 5,00008 | Lastkomb b | Combination | Min | 605,308 | 1,892  | -0,06  | -8,5E-05 | -0,1164 | 3,5516  | 12-1 | 5,00008 |
| 12 | 5,50008 | Lastkomb b | Combination | Min | 605,304 | 2,55   | -0,06  | -8,5E-05 | -0,1005 | 2,1052  | 12-1 | 5,50008 |
| 12 | 6,00009 | Lastkomb b | Combination | Min | 605,301 | 3,209  | -0,06  | -8,5E-05 | -0,0846 | 0,3298  | 12-1 | 6,00009 |
| 12 | 6,5001  | Lastkomb b | Combination | Min | 605,297 | 3,867  | -0,06  | -8,5E-05 | -0,0691 | -1,7748 | 12-1 | 6,5001  |
| 13 | 0       | Lastkomb b | Combination | Max | 1120,52 | -2,259 | -0,081 | -0,00098 | -0,2572 | 4,644   | 13-1 | 0       |
| 13 | 0,50001 | Lastkomb b | Combination | Max | 1120,51 | -1,734 | -0,081 | -0,00098 | -0,2168 | 5,7196  | 13-1 | 0,50001 |
| 13 | 1,00002 | Lastkomb b | Combination | Max | 1120,51 | -1,209 | -0,081 | -0,00098 | -0,1764 | 6,5326  | 13-1 | 1,00002 |
| 13 | 1,50002 | Lastkomb b | Combination | Max | 1120,51 | -0,684 | -0,081 | -0,00098 | -0,1331 | 7,0831  | 13-1 | 1,50002 |
| 13 | 2,00003 | Lastkomb b | Combination | Max | 1120,5  | -0,159 | -0,081 | -0,00098 | -0,0892 | 7,371   | 13-1 | 2,00003 |
| 13 | 2,50004 | Lastkomb b | Combination | Max | 1120,5  | 0,366  | -0,081 | -0,00098 | -0,0453 | 7,4321  | 13-1 | 2,50004 |
| 13 | 3,00005 | Lastkomb b | Combination | Max | 1120,5  | 0,891  | -0,081 | -0,00098 | -0,0014 | 7,2825  | 13-1 | 3,00005 |
| 13 | 3,50005 | Lastkomb b | Combination | Max | 1120,5  | 1,417  | -0,081 | -0,00098 | 0,0425  | 6,9249  | 13-1 | 3,50005 |
| 13 | 4,00006 | Lastkomb b | Combination | Max | 1120,49 | 1,942  | -0,081 | -0,00098 | 0,0876  | 6,3574  | 13-1 | 4,00006 |
| 13 | 4,50007 | Lastkomb b | Combination | Max | 1120,49 | 2,467  | -0,081 | -0,00098 | 0,1401  | 5,5286  | 13-1 | 4,50007 |
| 13 | 5,00008 | Lastkomb b | Combination | Max | 1120,49 | 2,992  | -0,081 | -0,00098 | 0,1932  | 4,4585  | 13-1 | 5,00008 |



|    |         |            |             |     |         |        |        |          |         |         |      |         |
|----|---------|------------|-------------|-----|---------|--------|--------|----------|---------|---------|------|---------|
| 13 | 5,50008 | Lastkomb b | Combination | Max | 1120,48 | 3,517  | -0,081 | -0,00098 | 0,2465  | 3,1751  | 13-1 | 5,50008 |
| 13 | 6,00009 | Lastkomb b | Combination | Max | 1120,48 | 4,042  | -0,081 | -0,00098 | 0,3003  | 1,6292  | 13-1 | 6,00009 |
| 13 | 6,50001 | Lastkomb b | Combination | Max | 1120,48 | 4,567  | -0,081 | -0,00098 | 0,3546  | -0,1626 | 13-1 | 6,50001 |
| 13 | 0       | Lastkomb b | Combination | Min | 266,871 | -3,208 | -0,114 | -0,0012  | -0,3922 | 0,0954  | 13-1 | 0       |
| 13 | 0,50001 | Lastkomb b | Combination | Min | 266,868 | -2,683 | -0,114 | -0,0012  | -0,3352 | 1,3753  | 13-1 | 0,50001 |
| 13 | 1,00002 | Lastkomb b | Combination | Min | 266,866 | -2,158 | -0,114 | -0,0012  | -0,2782 | 2,3927  | 13-1 | 1,00002 |
| 13 | 1,50002 | Lastkomb b | Combination | Min | 266,863 | -1,633 | -0,114 | -0,0012  | -0,2212 | 3,1474  | 13-1 | 1,50002 |
| 13 | 2,00003 | Lastkomb b | Combination | Min | 266,86  | -1,108 | -0,114 | -0,0012  | -0,1642 | 3,6397  | 13-1 | 2,00003 |
| 13 | 2,50004 | Lastkomb b | Combination | Min | 266,857 | -0,583 | -0,114 | -0,0012  | -0,1072 | 3,8694  | 13-1 | 2,50004 |
| 13 | 3,00005 | Lastkomb b | Combination | Min | 266,854 | -0,058 | -0,114 | -0,0012  | -0,0512 | 3,8364  | 13-1 | 3,00005 |
| 13 | 3,50005 | Lastkomb b | Combination | Min | 266,851 | 0,467  | -0,114 | -0,0012  | 0,0025  | 3,5409  | 13-1 | 3,50005 |
| 13 | 4,00006 | Lastkomb b | Combination | Min | 266,848 | 0,992  | -0,114 | -0,0012  | 0,0551  | 2,9828  | 13-1 | 4,00006 |
| 13 | 4,50007 | Lastkomb b | Combination | Min | 266,845 | 1,517  | -0,114 | -0,0012  | 0,1065  | 2,1621  | 13-1 | 4,50007 |
| 13 | 5,00008 | Lastkomb b | Combination | Min | 266,842 | 2,043  | -0,114 | -0,0012  | 0,1472  | 1,0789  | 13-1 | 5,00008 |
| 13 | 5,50008 | Lastkomb b | Combination | Min | 266,84  | 2,568  | -0,114 | -0,0012  | 0,1877  | -0,2668 | 13-1 | 5,50008 |
| 13 | 6,00009 | Lastkomb b | Combination | Min | 266,837 | 3,093  | -0,114 | -0,0012  | 0,2281  | -1,8752 | 13-1 | 6,00009 |
| 13 | 6,50001 | Lastkomb b | Combination | Min | 266,834 | 3,618  | -0,114 | -0,0012  | 0,2686  | -3,7461 | 13-1 | 6,50001 |
| 14 | 0       | Lastkomb b | Combination | Max | 207,825 | -1,046 | -0,029 | 7,9E-05  | -0,0626 | 2,2818  | 14-1 | 0       |
| 14 | 0,50001 | Lastkomb b | Combination | Max | 207,823 | -0,654 | -0,029 | 7,9E-05  | -0,0482 | 2,7606  | 14-1 | 0,50001 |
| 14 | 1,00002 | Lastkomb b | Combination | Max | 207,821 | -0,262 | -0,029 | 7,9E-05  | -0,0339 | 3,0435  | 14-1 | 1,00002 |
| 14 | 1,50002 | Lastkomb b | Combination | Max | 207,819 | 0,13   | -0,029 | 7,9E-05  | -0,0196 | 3,1302  | 14-1 | 1,50002 |
| 14 | 2,00003 | Lastkomb b | Combination | Max | 207,816 | 0,522  | -0,029 | 7,9E-05  | -0,0052 | 3,021   | 14-1 | 2,00003 |
| 14 | 2,50004 | Lastkomb b | Combination | Max | 207,814 | 0,914  | -0,029 | 7,9E-05  | 0,0091  | 2,7446  | 14-1 | 2,50004 |
| 14 | 3,00005 | Lastkomb b | Combination | Max | 207,812 | 1,307  | -0,029 | 7,9E-05  | 0,0234  | 2,3511  | 14-1 | 3,00005 |
| 14 | 3,50005 | Lastkomb b | Combination | Max | 207,81  | 1,699  | -0,029 | 7,9E-05  | 0,0378  | 1,7616  | 14-1 | 3,50005 |
| 14 | 4,00006 | Lastkomb b | Combination | Max | 207,808 | 2,091  | -0,029 | 7,9E-05  | 0,0571  | 0,976   | 14-1 | 4,00006 |
| 14 | 4,50007 | Lastkomb b | Combination | Max | 207,806 | 2,483  | -0,029 | 7,9E-05  | 0,0794  | 0,0262  | 14-1 | 4,50007 |
| 14 | 5,00008 | Lastkomb b | Combination | Max | 207,804 | 2,875  | -0,029 | 7,9E-05  | 0,1017  | -1,1141 | 14-1 | 5,00008 |
| 14 | 5,50008 | Lastkomb b | Combination | Max | 207,801 | 3,267  | -0,029 | 7,9E-05  | 0,124   | -2,4504 | 14-1 | 5,50008 |
| 14 | 6,00009 | Lastkomb b | Combination | Max | 207,799 | 3,659  | -0,029 | 7,9E-05  | 0,1463  | -3,9828 | 14-1 | 6,00009 |
| 14 | 6,50001 | Lastkomb b | Combination | Max | 207,797 | 4,051  | -0,029 | 7,9E-05  | 0,1686  | -5,7087 | 14-1 | 6,50001 |
| 14 | 0       | Lastkomb b | Combination | Min | -457,85 | -1,772 | -0,045 | 1,8E-05  | -0,1325 | -1,5832 | 14-1 | 0       |
| 14 | 0,50001 | Lastkomb b | Combination | Min | -457,85 | -1,379 | -0,045 | 1,8E-05  | -0,1109 | -0,857  | 14-1 | 0,50001 |
| 14 | 1,00002 | Lastkomb b | Combination | Min | -457,86 | -0,987 | -0,045 | 1,8E-05  | -0,0934 | -0,3269 | 14-1 | 1,00002 |
| 14 | 1,50002 | Lastkomb b | Combination | Min | -457,86 | -0,595 | -0,045 | 1,8E-05  | -0,0759 | 0,0067  | 14-1 | 1,50002 |

|    |         |            |             |     |         |        |        |         |         |          |      |         |
|----|---------|------------|-------------|-----|---------|--------|--------|---------|---------|----------|------|---------|
| 14 | 2,00003 | Lastkomb b | Combination | Min | -457,86 | -0,203 | -0,045 | 1,8E-05 | -0,0583 | 0,1443   | 14-1 | 2,00003 |
| 14 | 2,50004 | Lastkomb b | Combination | Min | -457,86 | 0,189  | -0,045 | 1,8E-05 | -0,0408 | 0,0859   | 14-1 | 2,50004 |
| 14 | 3,00005 | Lastkomb b | Combination | Min | -457,86 | 0,581  | -0,045 | 1,8E-05 | -0,0233 | -0,1686  | 14-1 | 3,00005 |
| 14 | 3,50005 | Lastkomb b | Combination | Min | -457,87 | 0,973  | -0,045 | 1,8E-05 | -0,0058 | -0,6191  | 14-1 | 3,50005 |
| 14 | 4,00006 | Lastkomb b | Combination | Min | -457,87 | 1,365  | -0,045 | 1,8E-05 | 0,0117  | -1,2656  | 14-1 | 4,00006 |
| 14 | 4,50007 | Lastkomb b | Combination | Min | -457,87 | 1,757  | -0,045 | 1,8E-05 | 0,0293  | -2,1082  | 14-1 | 4,50007 |
| 14 | 5,00008 | Lastkomb b | Combination | Min | -457,87 | 2,149  | -0,045 | 1,8E-05 | 0,0468  | -3,1467  | 14-1 | 5,00008 |
| 14 | 5,50008 | Lastkomb b | Combination | Min | -457,88 | 2,541  | -0,045 | 1,8E-05 | 0,0643  | -4,3814  | 14-1 | 5,50008 |
| 14 | 6,00009 | Lastkomb b | Combination | Min | -457,88 | 2,933  | -0,045 | 1,8E-05 | 0,0818  | -5,8808  | 14-1 | 6,00009 |
| 14 | 6,5001  | Lastkomb b | Combination | Min | -457,88 | 3,325  | -0,045 | 1,8E-05 | 0,0993  | -7,7994  | 14-1 | 6,5001  |
| 15 | 0       | Lastkomb b | Combination | Max | -1129,4 | -7,534 | -0,104 | 0,0037  | -0,2731 | -3,0843  | 15-1 | 0       |
| 15 | 0,46429 | Lastkomb b | Combination | Max | -1129,4 | -6,84  | -0,104 | 0,0037  | -0,2238 | 0,9127   | 15-1 | 0,46429 |
| 15 | 0,92859 | Lastkomb b | Combination | Max | -1129,4 | -6,147 | -0,104 | 0,0037  | -0,1744 | 4,5878   | 15-1 | 0,92859 |
| 15 | 1,39288 | Lastkomb b | Combination | Max | -1129,4 | -5,453 | -0,104 | 0,0037  | -0,1251 | 7,9409   | 15-1 | 1,39288 |
| 15 | 1,85717 | Lastkomb b | Combination | Max | -1129,4 | -4,76  | -0,104 | 0,0037  | -0,0757 | 10,9719  | 15-1 | 1,85717 |
| 15 | 2,32146 | Lastkomb b | Combination | Max | -1129,4 | -4,066 | -0,104 | 0,0037  | -0,0264 | 13,681   | 15-1 | 2,32146 |
| 15 | 2,78576 | Lastkomb b | Combination | Max | -1129,4 | -3,373 | -0,104 | 0,0037  | 0,0231  | 16,1347  | 15-1 | 2,78576 |
| 15 | 3,25005 | Lastkomb b | Combination | Max | -1129,4 | -2,679 | -0,104 | 0,0037  | 0,0762  | 18,364   | 15-1 | 3,25005 |
| 15 | 0       | Lastkomb b | Combination | Min | -1586   | -9,494 | -0,121 | 0,0029  | -0,3318 | -5,6502  | 15-1 | 0       |
| 15 | 0,46429 | Lastkomb b | Combination | Min | -1586   | -8,8   | -0,121 | 0,0029  | -0,2757 | -1,9686  | 15-1 | 0,46429 |
| 15 | 0,92859 | Lastkomb b | Combination | Min | -1586   | -8,107 | -0,121 | 0,0029  | -0,2208 | 1,3731   | 15-1 | 0,92859 |
| 15 | 1,39288 | Lastkomb b | Combination | Min | -1586   | -7,413 | -0,121 | 0,0029  | -0,1663 | 4,3684   | 15-1 | 1,39288 |
| 15 | 1,85717 | Lastkomb b | Combination | Min | -1586   | -6,719 | -0,121 | 0,0029  | -0,1134 | 6,9262   | 15-1 | 1,85717 |
| 15 | 2,32146 | Lastkomb b | Combination | Min | -1586   | -6,026 | -0,121 | 0,0029  | -0,0613 | 8,9751   | 15-1 | 2,32146 |
| 15 | 2,78576 | Lastkomb b | Combination | Min | -1586   | -5,332 | -0,121 | 0,0029  | -0,0092 | 10,7019  | 15-1 | 2,78576 |
| 15 | 3,25005 | Lastkomb b | Combination | Min | -1586   | -4,639 | -0,121 | 0,0029  | 0,0389  | 12,1067  | 15-1 | 3,25005 |
| 16 | 0       | Lastkomb b | Combination | Max | -1129,8 | 22,422 | -0,104 | 0,0037  | 0,0762  | 19,2767  | 16-1 | 0       |
| 16 | 0,46429 | Lastkomb b | Combination | Max | -1129,8 | 23,115 | -0,104 | 0,0037  | 0,1298  | 8,7897   | 16-1 | 0,46429 |
| 16 | 0,92859 | Lastkomb b | Combination | Max | -1129,8 | 23,809 | -0,104 | 0,0037  | 0,1834  | -2,0193  | 16-1 | 0,92859 |
| 16 | 1,39288 | Lastkomb b | Combination | Max | -1129,8 | 24,502 | -0,104 | 0,0037  | 0,237   | -11,2103 | 16-1 | 1,39288 |
| 16 | 1,85717 | Lastkomb b | Combination | Max | -1129,8 | 25,196 | -0,104 | 0,0037  | 0,2908  | -19,9807 | 16-1 | 1,85717 |
| 16 | 2,32146 | Lastkomb b | Combination | Max | -1129,8 | 25,889 | -0,104 | 0,0037  | 0,3453  | -29,073  | 16-1 | 2,32146 |
| 16 | 2,78576 | Lastkomb b | Combination | Max | -1129,9 | 26,583 | -0,104 | 0,0037  | 0,3998  | -38,4098 | 16-1 | 2,78576 |
| 16 | 3,25005 | Lastkomb b | Combination | Max | -1129,9 | 27,276 | -0,104 | 0,0037  | 0,4543  | -48,066  | 16-1 | 3,25005 |
| 16 | 0       | Lastkomb b | Combination | Min | -1586,6 | 16,29  | -0,121 | 0,0029  | 0,0388  | 12,7654  | 16-1 | 0       |

|    |         |            |             |     |         |         |         |          |         |          |      |         |
|----|---------|------------|-------------|-----|---------|---------|---------|----------|---------|----------|------|---------|
| 16 | 0,46429 | Lastkomb b | Combination | Min | -1586,6 | 16,983  | -0,121  | 0,0029   | 0,0869  | 4,5791   | 16-1 | 0,46429 |
| 16 | 0,92859 | Lastkomb b | Combination | Min | -1586,6 | 17,677  | -0,121  | 0,0029   | 0,135   | -5,2278  | 16-1 | 0,92859 |
| 16 | 1,39288 | Lastkomb b | Combination | Min | -1586,6 | 18,37   | -0,121  | 0,0029   | 0,1831  | -15,4854 | 16-1 | 1,39288 |
| 16 | 1,85717 | Lastkomb b | Combination | Min | -1586,6 | 19,064  | -0,121  | 0,0029   | 0,2312  | -26,0921 | 16-1 | 1,85717 |
| 16 | 2,32146 | Lastkomb b | Combination | Min | -1586,6 | 19,757  | -0,121  | 0,0029   | 0,2793  | -37,1217 | 16-1 | 2,32146 |
| 16 | 2,78576 | Lastkomb b | Combination | Min | -1586,6 | 20,451  | -0,121  | 0,0029   | 0,3274  | -49,2973 | 16-1 | 2,78576 |
| 16 | 3,25005 | Lastkomb b | Combination | Min | -1586,6 | 21,144  | -0,121  | 0,0029   | 0,3754  | -61,7949 | 16-1 | 3,25005 |
| 17 | 0       | Lastkomb b | Combination | Max | -0,459  | 0       | 0,363   | -0,00017 | 0,6238  | 0        | 17-1 | 0       |
| 17 | 1,717   | Lastkomb b | Combination | Max | -0,014  | 0       | 0,363   | -0,00017 | 0,0529  | 0        | 17-1 | 1,717   |
| 17 | 3,434   | Lastkomb b | Combination | Max | 0,43    | 0       | 0,363   | -0,00017 | -0,2652 | 0        | 17-1 | 3,434   |
| 17 | 0       | Lastkomb b | Combination | Min | -2,744  | 0       | 0,182   | -0,00026 | 0,3611  | 0        | 17-1 | 0       |
| 17 | 1,717   | Lastkomb b | Combination | Min | -2,3    | 0       | 0,182   | -0,00026 | -0,006  | 0        | 17-1 | 1,717   |
| 17 | 3,434   | Lastkomb b | Combination | Min | -1,855  | 0       | 0,182   | -0,00026 | -0,623  | 0        | 17-1 | 3,434   |
| 18 | 0       | Lastkomb b | Combination | Max | -93,939 | 0       | 1,446   | -0,00013 | 2,3506  | 0        | 18-1 | 0       |
| 18 | 1,751   | Lastkomb b | Combination | Max | -93,354 | 0       | 1,446   | -0,00013 | 0,1466  | 0        | 18-1 | 1,751   |
| 18 | 3,502   | Lastkomb b | Combination | Max | -92,769 | 0       | 1,446   | -0,00013 | -1,0062 | 0        | 18-1 | 3,502   |
| 18 | 0       | Lastkomb b | Combination | Min | -199,54 | 0       | 0,632   | -0,00021 | 1,2053  | 0        | 18-1 | 0       |
| 18 | 1,751   | Lastkomb b | Combination | Min | -198,96 | 0       | 0,632   | -0,00021 | -0,2347 | 0        | 18-1 | 1,751   |
| 18 | 3,502   | Lastkomb b | Combination | Min | -198,37 | 0       | 0,632   | -0,00021 | -2,7409 | 0        | 18-1 | 3,502   |
| 19 | 0       | Lastkomb b | Combination | Max | -496,47 | -43,689 | -4,261  | 0,0032   | -1,5038 | -10,6836 | 19-1 | 0       |
| 19 | 0,50017 | Lastkomb b | Combination | Max | -496,74 | -26,547 | -4,261  | 0,0032   | 1,212   | 25,3306  | 19-1 | 0,50017 |
| 19 | 0,50017 | Lastkomb b | Combination | Max | -503,07 | -26,152 | 1,3     | 0,0032   | 1,212   | 25,3306  | 19-2 | 0       |
| 19 | 1,43797 | Lastkomb b | Combination | Max | -503,57 | 5,99    | 1,3     | 0,0032   | 0,0778  | 52,6062  | 19-2 | 0,93781 |
| 19 | 1,5005  | Lastkomb b | Combination | Max | -503,61 | 8,133   | 1,3     | 0,0032   | 0,0365  | 54,1564  | 19-2 | 1,00033 |
| 19 | 1,5005  | Lastkomb b | Combination | Max | -513,2  | 17,097  | 0,00937 | 0,0032   | 0,0365  | 54,1564  | 19-3 | 0       |
| 19 | 2,50083 | Lastkomb b | Combination | Max | -513,74 | 79,274  | 0,00937 | 0,0032   | 0,0272  | 4,0207   | 19-3 | 1,00033 |
| 19 | 2,50083 | Lastkomb b | Combination | Max | -526,62 | 89,702  | 0,039   | 0,0032   | 0,0272  | 4,0207   | 19-4 | 0       |
| 19 | 2,87495 | Lastkomb b | Combination | Max | -526,83 | 129,607 | 0,039   | 0,0032   | 0,0126  | -20,0029 | 19-4 | 0,37412 |
| 19 | 2,87495 | Lastkomb b | Combination | Max | -526,83 | 129,607 | 0,039   | 0,0032   | 0,0126  | -20,0029 | 19-4 | 0,37412 |
| 19 | 2,87595 | Lastkomb b | Combination | Max | -526,83 | 129,641 | 0,039   | 0,0032   | 0,0125  | -20,0545 | 19-4 | 0,37512 |
| 19 | 0       | Lastkomb b | Combination | Min | -960,94 | -114,24 | -9,114  | 0,0017   | -3,3471 | -30,8558 | 19-1 | 0       |
| 19 | 0,50017 | Lastkomb b | Combination | Min | -961,21 | -97,098 | -9,114  | 0,0017   | 0,5816  | 2,7626   | 19-1 | 0,50017 |
| 19 | 0,50017 | Lastkomb b | Combination | Min | -961,7  | -68,493 | 0,62    | 0,0017   | 0,5816  | 2,7626   | 19-2 | 0       |
| 19 | 1,43797 | Lastkomb b | Combination | Min | -961,32 | -25,867 | 0,62    | 0,0017   | -0,0338 | 16,3353  | 19-2 | 0,93781 |
| 19 | 1,5005  | Lastkomb b | Combination | Min | -961,36 | -23,724 | 0,62    | 0,0017   | -0,1021 | 15,8938  | 19-2 | 1,00033 |



|    |         |            |             |     |         |          |        |         |         |          |      |         |
|----|---------|------------|-------------|-----|---------|----------|--------|---------|---------|----------|------|---------|
| 19 | 1,5005  | Lastkomb b | Combination | Min | -968,27 | 3,6      | -0,038 | 0,0017  | -0,1021 | 15,8938  | 19-3 | 0       |
| 19 | 2,50083 | Lastkomb b | Combination | Min | -968,54 | 38,01    | -0,038 | 0,0017  | -0,0743 | -13,2162 | 19-3 | 1,00033 |
| 19 | 2,50083 | Lastkomb b | Combination | Min | -981,35 | 37,816   | 0,017  | 0,0017  | -0,0743 | -13,2162 | 19-4 | 0       |
| 19 | 2,87495 | Lastkomb b | Combination | Min | -981,28 | 50,638   | 0,017  | 0,0017  | -0,0833 | -47,4264 | 19-4 | 0,37412 |
| 19 | 2,87495 | Lastkomb b | Combination | Min | -981,28 | 50,638   | 0,017  | 0,0017  | -0,0833 | -47,4264 | 19-4 | 0,37412 |
| 19 | 2,87595 | Lastkomb b | Combination | Min | -981,28 | 50,672   | 0,017  | 0,0017  | -0,0833 | -47,5394 | 19-4 | 0,37512 |
| 20 | 0       | Lastkomb b | Combination | Max | -343,26 | -50,234  | 0,039  | 0,0022  | 0,0125  | -19,9079 | 20-1 | 0       |
| 20 | 0,62519 | Lastkomb b | Combination | Max | -343,62 | -28,807  | 0,039  | 0,0022  | -0,0118 | 23,971   | 20-1 | 0,62519 |
| 20 | 0,62519 | Lastkomb b | Combination | Max | -359,3  | -28,942  | 0,014  | 0,0022  | -0,0118 | 23,971   | 20-2 | 0       |
| 20 | 1,43795 | Lastkomb b | Combination | Max | -359,76 | -1,086   | 0,014  | 0,0022  | -0,0235 | 49,1964  | 20-2 | 0,81275 |
| 20 | 1,62551 | Lastkomb b | Combination | Max | -359,87 | 5,342    | 0,014  | 0,0022  | -0,0257 | 54,6663  | 20-2 | 1,00031 |
| 20 | 1,62551 | Lastkomb b | Combination | Max | -377,85 | 14,596   | -0,358 | 0,0022  | -0,0257 | 54,6663  | 20-3 | 0       |
| 20 | 2,62582 | Lastkomb b | Combination | Max | -378,42 | 77,049   | -0,358 | 0,0022  | 0,8073  | 6,6198   | 20-3 | 1,00031 |
| 20 | 2,62582 | Lastkomb b | Combination | Max | -398,88 | 87,618   | 13,824 | 0,0022  | 0,8073  | 6,6198   | 20-4 | 0       |
| 20 | 2,8749  | Lastkomb b | Combination | Max | -399,02 | 122,897  | 13,824 | 0,0022  | -1,2072 | -10,3085 | 20-4 | 0,24908 |
| 20 | 2,8749  | Lastkomb b | Combination | Max | -399,02 | 122,897  | 13,824 | 0,0022  | -1,2072 | -10,3085 | 20-4 | 0,24908 |
| 20 | 2,8759  | Lastkomb b | Combination | Max | -399,02 | 122,931  | 13,824 | 0,0022  | -1,2133 | -10,3515 | 20-4 | 0,25008 |
| 20 | 0       | Lastkomb b | Combination | Min | -868,68 | -120,374 | 0,017  | 0,001   | -0,0833 | -45,8969 | 20-1 | 0       |
| 20 | 0,62519 | Lastkomb b | Combination | Min | -869,04 | -98,947  | 0,017  | 0,001   | -0,0983 | -0,1593  | 20-1 | 0,62519 |
| 20 | 0,62519 | Lastkomb b | Combination | Min | -882,62 | -70,718  | -0,029 | 0,001   | -0,0983 | -0,1593  | 20-2 | 0       |
| 20 | 1,43795 | Lastkomb b | Combination | Min | -882,82 | -32,378  | -0,029 | 0,001   | -0,0843 | 16,1772  | 20-2 | 0,81275 |
| 20 | 1,62551 | Lastkomb b | Combination | Min | -882,93 | -25,95   | -0,029 | 0,001   | -0,0811 | 16,6035  | 20-2 | 1,00031 |
| 20 | 1,62551 | Lastkomb b | Combination | Min | -901,8  | 0,256    | -0,855 | 0,001   | -0,0811 | 16,6035  | 20-3 | 0       |
| 20 | 2,62582 | Lastkomb b | Combination | Min | -902,11 | 34,539   | -0,855 | 0,001   | 0,3047  | -8,7083  | 20-3 | 1,00031 |
| 20 | 2,62582 | Lastkomb b | Combination | Min | -925,89 | 34,425   | 6,07   | 0,001   | 0,3047  | -8,7083  | 20-4 | 0       |
| 20 | 2,8749  | Lastkomb b | Combination | Min | -925,17 | 42,962   | 6,07   | 0,001   | -2,6358 | -30,3079 | 20-4 | 0,24908 |
| 20 | 2,8749  | Lastkomb b | Combination | Min | -925,17 | 42,962   | 6,07   | 0,001   | -2,6358 | -30,3079 | 20-4 | 0,24908 |
| 20 | 2,8759  | Lastkomb b | Combination | Min | -925,17 | 42,996   | 6,07   | 0,001   | -2,6496 | -30,4146 | 20-4 | 0,25008 |
| 21 | 0       | Lastkomb b | Combination | Max | -88,218 | 0        | 1,268  | 4,3E-05 | 2,157   | 0        | 21-1 | 0       |
| 21 | 1,814   | Lastkomb b | Combination | Max | -87,612 | 0        | 1,268  | 4,3E-05 | 0,2078  | 0        | 21-1 | 1,814   |
| 21 | 3,628   | Lastkomb b | Combination | Max | -87,005 | 0        | 1,268  | 4,3E-05 | -0,5265 | 0        | 21-1 | 3,628   |
| 21 | 0       | Lastkomb b | Combination | Min | -191,57 | 0        | 0,382  | 2,1E-05 | 0,8593  | 0        | 21-1 | 0       |
| 21 | 1,814   | Lastkomb b | Combination | Min | -190,97 | 0        | 0,382  | 2,1E-05 | -0,1914 | 0        | 21-1 | 1,814   |
| 21 | 3,628   | Lastkomb b | Combination | Min | -190,36 | 0        | 0,382  | 2,1E-05 | -2,4422 | 0        | 21-1 | 3,628   |
| 22 | 0       | Lastkomb b | Combination | Max | -400,28 | -41,185  | -2,011 | 0,0026  | -1,2687 | -8,7631  | 22-1 | 0       |

|    |         |            |             |     |         |          |        |          |         |          |      |         |
|----|---------|------------|-------------|-----|---------|----------|--------|----------|---------|----------|------|---------|
| 22 | 0,75023 | Lastkomb b | Combination | Max | -400,71 | -15,473  | -2,011 | 0,0026   | 0,7053  | 39,0719  | 22-1 | 0,75023 |
| 22 | 0,75023 | Lastkomb b | Combination | Max | -423,84 | -15,507  | 0,854  | 0,0026   | 0,7053  | 39,0719  | 22-2 | 0       |
| 22 | 1,43794 | Lastkomb b | Combination | Max | -424,24 | 16,364   | 0,854  | 0,0026   | 0,118   | 42,7599  | 22-2 | 0,68771 |
| 22 | 1,75053 | Lastkomb b | Combination | Max | -424,42 | 27,077   | 0,854  | 0,0026   | -0,0837 | 45,1964  | 22-2 | 1,0003  |
| 22 | 1,75053 | Lastkomb b | Combination | Max | -450,44 | 37,802   | -0,085 | 0,0026   | -0,0837 | 45,1964  | 22-3 | 0       |
| 22 | 2,75083 | Lastkomb b | Combination | Max | -451,01 | 100,56   | -0,085 | 0,0026   | 0,0183  | -19,9191 | 22-3 | 1,0003  |
| 22 | 2,75083 | Lastkomb b | Combination | Max | -480,12 | 111,155  | -0,034 | 0,0026   | 0,0183  | -19,9191 | 22-4 | 0       |
| 22 | 2,87487 | Lastkomb b | Combination | Max | -480,19 | 140,878  | -0,034 | 0,0026   | 0,0262  | -26,3888 | 22-4 | 0,12404 |
| 22 | 2,87487 | Lastkomb b | Combination | Max | -480,19 | 140,878  | -0,034 | 0,0026   | 0,0262  | -26,3888 | 22-4 | 0,12404 |
| 22 | 2,87587 | Lastkomb b | Combination | Max | -480,19 | 140,912  | -0,034 | 0,0026   | 0,0263  | -26,4431 | 22-4 | 0,12504 |
| 22 | 0       | Lastkomb b | Combination | Min | -928,73 | -101,582 | -4,531 | 0,0019   | -2,6937 | -28,0361 | 22-1 | 0       |
| 22 | 0,75023 | Lastkomb b | Combination | Min | -929,16 | -75,87   | -4,531 | 0,0019   | 0,2402  | 9,6677   | 22-1 | 0,75023 |
| 22 | 0,75023 | Lastkomb b | Combination | Min | -959,22 | -47,206  | 0,33   | 0,0019   | 0,2402  | 9,6677   | 22-2 | 0       |
| 22 | 1,43794 | Lastkomb b | Combination | Min | -959,36 | -13,151  | 0,33   | 0,0019   | -0,0069 | 14,0165  | 22-2 | 0,68771 |
| 22 | 1,75053 | Lastkomb b | Combination | Min | -959,54 | -2,438   | 0,33   | 0,0019   | -0,1694 | 9,8218   | 22-2 | 1,0003  |
| 22 | 1,75053 | Lastkomb b | Combination | Min | -995,61 | 15,316   | -0,126 | 0,0019   | -0,1694 | 9,8218   | 22-3 | 0       |
| 22 | 2,75083 | Lastkomb b | Combination | Min | -995,93 | 49,599   | -0,126 | 0,0019   | -0,0575 | -38,1149 | 22-3 | 1,0003  |
| 22 | 2,75083 | Lastkomb b | Combination | Min | -1038,3 | 49,491   | -0,064 | 0,0019   | -0,0575 | -38,1149 | 22-4 | 0       |
| 22 | 2,87487 | Lastkomb b | Combination | Min | -1038,1 | 53,742   | -0,064 | 0,0019   | -0,0525 | -53,1496 | 22-4 | 0,12404 |
| 22 | 2,87487 | Lastkomb b | Combination | Min | -1038,1 | 53,742   | -0,064 | 0,0019   | -0,0525 | -53,1496 | 22-4 | 0,12404 |
| 22 | 2,87587 | Lastkomb b | Combination | Min | -1038,1 | 53,776   | -0,064 | 0,0019   | -0,0525 | -53,2755 | 22-4 | 0,12504 |
| 23 | 0       | Lastkomb b | Combination | Max | -88,221 | 0        | 0,758  | 8,7E-06  | 1,2274  | 0        | 23-1 | 0       |
| 23 | 1,8615  | Lastkomb b | Combination | Max | -87,598 | 0        | 0,758  | 8,7E-06  | 0,1571  | 0        | 23-1 | 1,8615  |
| 23 | 3,723   | Lastkomb b | Combination | Max | -86,976 | 0        | 0,758  | 8,7E-06  | 0,5343  | 0        | 23-1 | 3,723   |
| 23 | 0       | Lastkomb b | Combination | Min | -191,87 | 0        | -0,223 | -9,3E-06 | -0,2964 | 0        | 23-1 | 0       |
| 23 | 1,8615  | Lastkomb b | Combination | Min | -191,25 | 0        | -0,223 | -9,3E-06 | -0,2352 | 0        | 23-1 | 1,8615  |
| 23 | 3,723   | Lastkomb b | Combination | Min | -190,63 | 0        | -0,223 | -9,3E-06 | -1,5956 | 0        | 23-1 | 3,723   |
| 24 | 0       | Lastkomb b | Combination | Max | 71,868  | -50,787  | -0,034 | 0,0013   | 0,0251  | -24,3698 | 24-1 | 0       |
| 24 | 0,87526 | Lastkomb b | Combination | Max | 71,354  | -20,79   | -0,034 | 0,0013   | 0,0808  | 34,4062  | 24-1 | 0,87526 |
| 24 | 0,87526 | Lastkomb b | Combination | Max | 42,336  | -20,8    | -0,171 | 0,0013   | 0,0808  | 34,4062  | 24-2 | 0       |
| 24 | 1,43792 | Lastkomb b | Combination | Max | 42,005  | 6,783    | -0,171 | 0,0013   | 0,1899  | 38,5982  | 24-2 | 0,56267 |
| 24 | 1,87555 | Lastkomb b | Combination | Max | 41,748  | 21,782   | -0,171 | 0,0013   | 0,3361  | 45,1194  | 24-2 | 1,0003  |
| 24 | 1,87555 | Lastkomb b | Combination | Max | 13,113  | 32,507   | 0,645  | 0,0013   | 0,3361  | 45,1194  | 24-3 | 0       |
| 24 | 2,87485 | Lastkomb b | Combination | Max | 12,526  | 95,562   | 0,645  | 0,0013   | 0,0424  | -13,5721 | 24-3 | 0,9993  |
| 24 | 2,87485 | Lastkomb b | Combination | Max | 12,526  | 95,562   | 0,645  | 0,0013   | 0,0424  | -13,5721 | 24-3 | 0,9993  |

|    |         |            |             |     |         |          |        |         |         |          |      |         |
|----|---------|------------|-------------|-----|---------|----------|--------|---------|---------|----------|------|---------|
| 24 | 2,87585 | Lastkomb b | Combination | Max | 12,525  | 95,596   | 0,645  | 0,0013  | 0,0422  | -13,6152 | 24-3 | 1,0003  |
| 24 | 0       | Lastkomb b | Combination | Min | -378,35 | -111,195 | -0,064 | 0,00076 | -0,0538 | -49,7909 | 24-1 | 0       |
| 24 | 0,87526 | Lastkomb b | Combination | Min | -378,87 | -81,198  | -0,064 | 0,00076 | -0,0184 | 3,8906   | 24-1 | 0,87526 |
| 24 | 0,87526 | Lastkomb b | Combination | Min | -416,56 | -52,169  | -0,334 | 0,00076 | -0,0184 | 3,8906   | 24-2 | 0       |
| 24 | 1,43792 | Lastkomb b | Combination | Min | -416,63 | -22,401  | -0,334 | 0,00076 | 0,1135  | 12,8315  | 24-2 | 0,56267 |
| 24 | 1,87555 | Lastkomb b | Combination | Min | -416,89 | -7,402   | -0,334 | 0,00076 | 0,196   | 10,6138  | 24-2 | 1,0003  |
| 24 | 1,87555 | Lastkomb b | Combination | Min | -456,89 | 8,75     | 0,212  | 0,00076 | 0,196   | 10,6138  | 24-3 | 0       |
| 24 | 2,87485 | Lastkomb b | Combination | Min | -457,22 | 42,999   | 0,212  | 0,00076 | -0,3103 | -32,9184 | 24-3 | 0,9993  |
| 24 | 2,87485 | Lastkomb b | Combination | Min | -457,22 | 42,999   | 0,212  | 0,00076 | -0,3103 | -32,9184 | 24-3 | 0,9993  |
| 24 | 2,87585 | Lastkomb b | Combination | Min | -457,22 | 43,033   | 0,212  | 0,00076 | -0,3109 | -33,014  | 24-3 | 1,0003  |
| 25 | 0       | Lastkomb b | Combination | Max | -87,362 | 0        | -0,053 | 3E-05   | -0,2138 | 0        | 25-1 | 0       |
| 25 | 1,9     | Lastkomb b | Combination | Max | -86,726 | 0        | -0,053 | 3E-05   | 0,2598  | 0        | 25-1 | 1,9     |
| 25 | 3,8     | Lastkomb b | Combination | Max | -86,091 | 0        | -0,053 | 3E-05   | 2,2281  | 0        | 25-1 | 3,8     |
| 25 | 0       | Lastkomb b | Combination | Min | -188,67 | 0        | -1,056 | 1E-05   | -1,7833 | 0        | 25-1 | 0       |
| 25 | 1,9     | Lastkomb b | Combination | Min | -188,03 | 0        | -1,056 | 1E-05   | -0,1294 | 0        | 25-1 | 1,9     |
| 25 | 3,8     | Lastkomb b | Combination | Min | -187,4  | 0        | -1,056 | 1E-05   | -0,0124 | 0        | 25-1 | 3,8     |
| 26 | 0       | Lastkomb b | Combination | Max | -17,051 | -39,571  | -0,074 | 0,0027  | -0,0094 | -11,4883 | 26-1 | 0       |
| 26 | 1,00033 | Lastkomb b | Combination | Max | -17,592 | -5,286   | -0,074 | 0,0027  | 0,1671  | 43,2854  | 26-1 | 1,00033 |
| 26 | 1,00033 | Lastkomb b | Combination | Max | -46,279 | -5,286   | 0,397  | 0,0027  | 0,1671  | 43,2854  | 26-2 | 0       |
| 26 | 1,43797 | Lastkomb b | Combination | Max | -46,516 | 26,596   | 0,397  | 0,0027  | -0,0066 | 35,2727  | 26-2 | 0,43764 |
| 26 | 2,00066 | Lastkomb b | Combination | Max | -46,821 | 45,882   | 0,397  | 0,0027  | -0,1595 | 28,5271  | 26-2 | 1,00033 |
| 26 | 2,00066 | Lastkomb b | Combination | Max | -75,919 | 56,587   | 0,167  | 0,0027  | -0,1595 | 28,5271  | 26-3 | 0       |
| 26 | 2,87495 | Lastkomb b | Combination | Max | -76,392 | 115,333  | 0,167  | 0,0027  | -0,2644 | -31,7678 | 26-3 | 0,87429 |
| 26 | 2,87495 | Lastkomb b | Combination | Max | -76,392 | 115,333  | 0,167  | 0,0027  | -0,2644 | -31,7678 | 26-3 | 0,87429 |
| 26 | 2,87595 | Lastkomb b | Combination | Max | -76,393 | 115,367  | 0,167  | 0,0027  | -0,2645 | -31,822  | 26-3 | 0,87529 |
| 26 | 0       | Lastkomb b | Combination | Min | -502,82 | -101,885 | -0,519 | 0,0021  | -0,3518 | -31,1026 | 26-1 | 0       |
| 26 | 1,00033 | Lastkomb b | Combination | Min | -503,09 | -57,116  | -0,519 | 0,0021  | 0,0042  | 9,6039   | 26-1 | 1,00033 |
| 26 | 1,00033 | Lastkomb b | Combination | Min | -550    | -28,096  | 0,228  | 0,0021  | 0,0042  | 9,6039   | 26-2 | 0       |
| 26 | 1,43797 | Lastkomb b | Combination | Min | -549,97 | -2,612   | 0,228  | 0,0021  | -0,1222 | 9,1944   | 26-2 | 0,43764 |
| 26 | 2,00066 | Lastkomb b | Combination | Min | -550,27 | 16,673   | 0,228  | 0,0021  | -0,2894 | -1,6968  | 26-2 | 1,00033 |
| 26 | 2,00066 | Lastkomb b | Combination | Min | -600,7  | 24,219   | 0,101  | 0,0021  | -0,2894 | -1,6968  | 26-3 | 0       |
| 26 | 2,87495 | Lastkomb b | Combination | Min | -600,91 | 54,184   | 0,101  | 0,0021  | -0,4338 | -58,8635 | 26-3 | 0,87429 |
| 26 | 2,87495 | Lastkomb b | Combination | Min | -600,91 | 54,184   | 0,101  | 0,0021  | -0,4338 | -58,8635 | 26-3 | 0,87429 |
| 26 | 2,87595 | Lastkomb b | Combination | Min | -600,91 | 54,218   | 0,101  | 0,0021  | -0,434  | -58,9788 | 26-3 | 0,87529 |
| 27 | 0       | Lastkomb b | Combination | Max | -87,843 | 0        | -0,463 | 6,7E-05 | -1,0327 | 0        | 27-1 | 0       |



|    |         |            |             |     |         |          |        |          |         |          |      |         |
|----|---------|------------|-------------|-----|---------|----------|--------|----------|---------|----------|------|---------|
| 27 | 1,9275  | Lastkomb b | Combination | Max | -87,199 | 0        | -0,463 | 6,7E-05  | 0,1748  | 0        | 27-1 | 1,9275  |
| 27 | 3,855   | Lastkomb b | Combination | Max | -86,555 | 0        | -0,463 | 6,7E-05  | 2,38    | 0        | 27-1 | 3,855   |
| 27 | 0       | Lastkomb b | Combination | Min | -192,66 | 0        | -1,177 | 4,3E-05  | -2,1557 | 0        | 27-1 | 0       |
| 27 | 1,9275  | Lastkomb b | Combination | Min | -192,02 | 0        | -1,177 | 4,3E-05  | -0,1965 | 0        | 27-1 | 1,9275  |
| 27 | 3,855   | Lastkomb b | Combination | Min | -191,37 | 0        | -1,177 | 4,3E-05  | 0,7516  | 0        | 27-1 | 3,855   |
| 28 | 0       | Lastkomb b | Combination | Max | 812,847 | -50,584  | 0,171  | -0,00029 | -0,2669 | -27,5593 | 28-1 | 0       |
| 28 | 0,12504 | Lastkomb b | Combination | Max | 812,776 | -46,299  | 0,171  | -0,00029 | -0,2822 | -21,41   | 28-1 | 0,12504 |
| 28 | 0,12504 | Lastkomb b | Combination | Max | 783,767 | -46,31   | 0,22   | -0,00029 | -0,2822 | -21,41   | 28-2 | 0       |
| 28 | 1,12535 | Lastkomb b | Combination | Max | 783,201 | -12,027  | 0,22   | -0,00029 | -0,4214 | 39,1149  | 28-2 | 1,00031 |
| 28 | 1,12535 | Lastkomb b | Combination | Max | 759,767 | -12,027  | -0,106 | -0,00029 | -0,4214 | 39,1149  | 28-3 | 0       |
| 28 | 1,43795 | Lastkomb b | Combination | Max | 759,59  | 16,686   | -0,106 | -0,00029 | -0,353  | 35,9182  | 28-3 | 0,3126  |
| 28 | 2,12566 | Lastkomb b | Combination | Max | 759,201 | 40,256   | -0,106 | -0,00029 | -0,0098 | 29,3872  | 28-3 | 1,00031 |
| 28 | 2,12566 | Lastkomb b | Combination | Max | 741,122 | 50,977   | 3,921  | -0,00029 | -0,0098 | 29,3872  | 28-4 | 0       |
| 28 | 2,8749  | Lastkomb b | Combination | Max | 740,698 | 105,472  | 3,921  | -0,00029 | -1,3977 | -19,283  | 28-4 | 0,74923 |
| 28 | 2,8749  | Lastkomb b | Combination | Max | 740,698 | 105,472  | 3,921  | -0,00029 | -1,3977 | -19,283  | 28-4 | 0,74923 |
| 28 | 2,8759  | Lastkomb b | Combination | Max | 740,698 | 105,506  | 3,921  | -0,00029 | -1,3992 | -19,3268 | 28-4 | 0,75023 |
| 28 | 0       | Lastkomb b | Combination | Min | 510,523 | -137,814 | 0,104  | -0,00083 | -0,4364 | -55,9066 | 28-1 | 0       |
| 28 | 0,12504 | Lastkomb b | Combination | Min | 510,453 | -133,529 | 0,104  | -0,00083 | -0,4577 | -41,1474 | 28-1 | 0,12504 |
| 28 | 0,12504 | Lastkomb b | Combination | Min | 467,859 | -107,51  | 0,137  | -0,00083 | -0,4577 | -41,1474 | 28-2 | 0       |
| 28 | 1,12535 | Lastkomb b | Combination | Min | 467,555 | -62,742  | 0,137  | -0,00083 | -0,678  | 4,7606   | 28-2 | 1,00031 |
| 28 | 1,12535 | Lastkomb b | Combination | Min | 428,632 | -33,686  | -0,604 | -0,00083 | -0,678  | 4,7606   | 28-3 | 0       |
| 28 | 1,43795 | Lastkomb b | Combination | Min | 428,717 | -12,487  | -0,604 | -0,00083 | -0,5578 | 7,7252   | 28-3 | 0,3126  |
| 28 | 2,12566 | Lastkomb b | Combination | Min | 428,328 | 11,082   | -0,604 | -0,00083 | -0,4742 | 0,5237   | 28-3 | 1,00031 |
| 28 | 2,12566 | Lastkomb b | Combination | Min | 391,831 | 18,042   | 1,469  | -0,00083 | -0,4742 | 0,5237   | 28-4 | 0       |
| 28 | 2,8749  | Lastkomb b | Combination | Min | 392,269 | 43,72    | 1,469  | -0,00083 | -2,9475 | -39,8071 | 28-4 | 0,74923 |
| 28 | 2,8749  | Lastkomb b | Combination | Min | 392,269 | 43,72    | 1,469  | -0,00083 | -2,9475 | -39,8071 | 28-4 | 0,74923 |
| 28 | 2,8759  | Lastkomb b | Combination | Min | 392,268 | 43,754   | 1,469  | -0,00083 | -2,9514 | -39,8804 | 28-4 | 0,75023 |
| 29 | 0       | Lastkomb b | Combination | Max | -83,518 | 0        | 1,999  | -0,00013 | 2,7444  | 0        | 29-1 | 0       |
| 29 | 1,426   | Lastkomb b | Combination | Max | -83,041 | 0        | 1,999  | -0,00013 | 0,2152  | 0        | 29-1 | 1,426   |
| 29 | 2,852   | Lastkomb b | Combination | Max | -82,564 | 0        | 1,999  | -0,00013 | -1,0679 | 0        | 29-1 | 2,852   |
| 29 | 0       | Lastkomb b | Combination | Min | -183,63 | 0        | 0,863  | -0,00023 | 1,2739  | 0        | 29-1 | 0       |
| 29 | 1,426   | Lastkomb b | Combination | Min | -183,15 | 0        | 0,863  | -0,00023 | -0,1732 | 0        | 29-1 | 1,426   |
| 29 | 2,852   | Lastkomb b | Combination | Min | -182,68 | 0        | 0,863  | -0,00023 | -2,9868 | 0        | 29-1 | 2,852   |
| 30 | 0       | Lastkomb b | Combination | Max | -102,93 | 0        | -0,363 | -2,3E-06 | -0,7983 | 0        | 30-1 | 0       |
| 30 | 1,944   | Lastkomb b | Combination | Max | -102,28 | 0        | -0,363 | -2,3E-06 | 0,1758  | 0        | 30-1 | 1,944   |

|    |        |            |             |     |         |         |        |          |         |          |      |        |
|----|--------|------------|-------------|-----|---------|---------|--------|----------|---------|----------|------|--------|
| 30 | 3,888  | Lastkomb b | Combination | Max | -101,63 | 0       | -0,363 | -2,3E-06 | 2,0037  | 0        | 30-1 | 3,888  |
| 30 | 0      | Lastkomb b | Combination | Min | -207,2  | 0       | -0,955 | -1,3E-05 | -1,7119 | 0        | 30-1 | 0      |
| 30 | 1,944  | Lastkomb b | Combination | Min | -206,55 | 0       | -0,955 | -1,3E-05 | -0,1164 | 0        | 30-1 | 1,944  |
| 30 | 3,888  | Lastkomb b | Combination | Min | -205,9  | 0       | -0,955 | -1,3E-05 | 0,6112  | 0        | 30-1 | 3,888  |
| 31 | 0      | Lastkomb b | Combination | Max | -83,41  | 0       | 0,953  | 1,3E-05  | 1,242   | 0        | 31-1 | 0      |
| 31 | 1,476  | Lastkomb b | Combination | Max | -82,916 | 0       | 0,953  | 1,3E-05  | 0,1684  | 0        | 31-1 | 1,476  |
| 31 | 2,952  | Lastkomb b | Combination | Max | -82,423 | 0       | 0,953  | 1,3E-05  | 0,473   | 0        | 31-1 | 2,952  |
| 31 | 0      | Lastkomb b | Combination | Min | -179,87 | 0       | -0,231 | -2,7E-05 | -0,2074 | 0        | 31-1 | 0      |
| 31 | 1,476  | Lastkomb b | Combination | Min | -179,37 | 0       | -0,231 | -2,7E-05 | -0,2016 | 0        | 31-1 | 1,476  |
| 31 | 2,952  | Lastkomb b | Combination | Min | -178,88 | 0       | -0,231 | -2,7E-05 | -1,5698 | 0        | 31-1 | 2,952  |
| 32 | 0      | Lastkomb b | Combination | Max | -19,006 | 0       | -0,334 | -4,8E-05 | -0,6587 | 0        | 32-1 | 0      |
| 32 | 1,9485 | Lastkomb b | Combination | Max | -18,502 | 0       | -0,334 | -4,8E-05 | 0,0224  | 0        | 32-1 | 1,9485 |
| 32 | 3,897  | Lastkomb b | Combination | Max | -17,997 | 0       | -0,334 | -4,8E-05 | 1,0348  | 0        | 32-1 | 3,897  |
| 32 | 0      | Lastkomb b | Combination | Min | -26,92  | 0       | -0,523 | -6,8E-05 | -1,0024 | 0        | 32-1 | 0      |
| 32 | 1,9485 | Lastkomb b | Combination | Min | -26,416 | 0       | -0,523 | -6,8E-05 | -0,0454 | 0        | 32-1 | 1,9485 |
| 32 | 3,897  | Lastkomb b | Combination | Min | -25,911 | 0       | -0,523 | -6,8E-05 | 0,623   | 0        | 32-1 | 3,897  |
| 33 | 0      | Lastkomb b | Combination | Max | -79,314 | 0       | -0,303 | -2,7E-06 | -0,5473 | 0        | 33-1 | 0      |
| 33 | 1,528  | Lastkomb b | Combination | Max | -78,804 | 0       | -0,303 | -2,7E-06 | 0,2683  | 0        | 33-1 | 1,528  |
| 33 | 3,056  | Lastkomb b | Combination | Max | -78,293 | 0       | -0,303 | -2,7E-06 | 2,434   | 0        | 33-1 | 3,056  |
| 33 | 0      | Lastkomb b | Combination | Min | -176,53 | 0       | -1,461 | -2,5E-05 | -2,0311 | 0        | 33-1 | 0      |
| 33 | 1,528  | Lastkomb b | Combination | Min | -176,02 | 0       | -1,461 | -2,5E-05 | -0,1022 | 0        | 33-1 | 1,528  |
| 33 | 3,056  | Lastkomb b | Combination | Min | -175,51 | 0       | -1,461 | -2,5E-05 | 0,3773  | 0        | 33-1 | 3,056  |
| 34 | 0      | Lastkomb b | Combination | Max | -107,02 | 0       | 0,488  | 7,4E-06  | 0,8286  | 0        | 34-1 | 0      |
| 34 | 1,951  | Lastkomb b | Combination | Max | -106,37 | 0       | 0,488  | 7,4E-06  | 0,1732  | 0        | 34-1 | 1,951  |
| 34 | 3,902  | Lastkomb b | Combination | Max | -105,72 | 0       | 0,488  | 7,4E-06  | 1,1232  | 0        | 34-1 | 3,902  |
| 34 | 0      | Lastkomb b | Combination | Min | -202,64 | 0       | -0,513 | -1,8E-05 | -0,8772 | 0        | 34-1 | 0      |
| 34 | 1,951  | Lastkomb b | Combination | Min | -201,98 | 0       | -0,513 | -1,8E-05 | -0,1754 | 0        | 34-1 | 1,951  |
| 34 | 3,902  | Lastkomb b | Combination | Min | -201,33 | 0       | -0,513 | -1,8E-05 | -1,0763 | 0        | 34-1 | 3,902  |
| 35 | 0      | Lastkomb b | Combination | Max | -80,456 | 0       | -0,794 | 4,7E-06  | -1,3378 | 0        | 35-1 | 0      |
| 35 | 1,5775 | Lastkomb b | Combination | Max | -79,928 | 0       | -0,794 | 4,7E-06  | 0,211   | 0        | 35-1 | 1,5775 |
| 35 | 3,155  | Lastkomb b | Combination | Max | -79,401 | 0       | -0,794 | 4,7E-06  | 2,841   | 0        | 35-1 | 3,155  |
| 35 | 0      | Lastkomb b | Combination | Min | -179,47 | 0       | -1,68  | -1,7E-05 | -2,5264 | 0        | 35-1 | 0      |
| 35 | 1,5775 | Lastkomb b | Combination | Min | -178,94 | 0       | -1,68  | -1,7E-05 | -0,1572 | 0        | 35-1 | 1,5775 |
| 35 | 3,155  | Lastkomb b | Combination | Min | -178,41 | 0       | -1,68  | -1,7E-05 | 1,166   | 0        | 35-1 | 3,155  |
| 36 | 0      | Lastkomb b | Combination | Max | 1925,89 | -61,187 | 1,655  | 0,0141   | 2,4781  | -48,8075 | 36-1 | 0      |

|    |         |            |             |     |         |          |        |         |         |          |      |         |
|----|---------|------------|-------------|-----|---------|----------|--------|---------|---------|----------|------|---------|
| 36 | 0,50007 | Lastkomb b | Combination | Max | 1925,47 | -43,553  | 1,655  | 0,0141  | 2,692   | -12,647  | 36-1 | 0,50007 |
| 36 | 0,50007 | Lastkomb b | Combination | Max | 1945,28 | -42,95   | 0,941  | 0,0141  | 2,692   | -12,647  | 36-2 | 0       |
| 36 | 1,50021 | Lastkomb b | Combination | Max | 1944,45 | -7,68    | 0,941  | 0,0141  | 1,7504  | 39,2899  | 36-2 | 1,00014 |
| 36 | 1,50021 | Lastkomb b | Combination | Max | 1972,76 | -3,897   | 0,543  | 0,0141  | 1,7504  | 39,2899  | 36-3 | 0       |
| 36 | 1,62423 | Lastkomb b | Combination | Max | 1972,66 | 26,268   | 0,543  | 0,0141  | 1,6831  | 36,6482  | 36-3 | 0,12402 |
| 36 | 1,62423 | Lastkomb b | Combination | Max | 1972,66 | 26,268   | 0,543  | 0,0141  | 1,6831  | 36,6482  | 36-3 | 0,12402 |
| 36 | 2,50035 | Lastkomb b | Combination | Max | 1971,93 | 57,165   | 0,543  | 0,0141  | 1,2092  | 12,9441  | 36-3 | 1,00014 |
| 36 | 2,50035 | Lastkomb b | Combination | Max | 2006,94 | 67,913   | 0,507  | 0,0141  | 1,2092  | 12,9441  | 36-4 | 0       |
| 36 | 3,24945 | Lastkomb b | Combination | Max | 2006,32 | 120,844  | 0,507  | 0,0141  | 0,8315  | -32,7938 | 36-4 | 0,7491  |
| 36 | 3,24945 | Lastkomb b | Combination | Max | 2006,32 | 120,844  | 0,507  | 0,0141  | 0,8315  | -32,7938 | 36-4 | 0,7491  |
| 36 | 3,25045 | Lastkomb b | Combination | Max | 2006,31 | 120,879  | 0,507  | 0,0141  | 0,831   | -32,8438 | 36-4 | 0,7501  |
| 36 | 0       | Lastkomb b | Combination | Min | 1448,4  | -136,732 | -3,23  | 0,0061  | 1,0765  | -81,4867 | 36-1 | 0       |
| 36 | 0,50007 | Lastkomb b | Combination | Min | 1447,99 | -119,097 | -3,23  | 0,0061  | 1,4835  | -33,0958 | 36-1 | 0,50007 |
| 36 | 0,50007 | Lastkomb b | Combination | Min | 1448,12 | -92,588  | 0,233  | 0,0061  | 1,4835  | -33,0958 | 36-2 | 0       |
| 36 | 1,50021 | Lastkomb b | Combination | Min | 1447,29 | -46,831  | 0,233  | 0,0061  | 1,1369  | -3,0973  | 36-2 | 1,00014 |
| 36 | 1,50021 | Lastkomb b | Combination | Min | 1452,29 | -20,076  | 0,337  | 0,0061  | 1,1369  | -3,0973  | 36-3 | 0       |
| 36 | 1,62423 | Lastkomb b | Combination | Min | 1452,18 | -8,276   | 0,337  | 0,0061  | 1,095   | -2,416   | 36-3 | 0,12402 |
| 36 | 1,62423 | Lastkomb b | Combination | Min | 1452,18 | -8,276   | 0,337  | 0,0061  | 1,095   | -2,416   | 36-3 | 0,12402 |
| 36 | 2,50035 | Lastkomb b | Combination | Min | 1451,45 | 22,62    | 0,337  | 0,0061  | 0,7995  | -13,0531 | 36-3 | 1,00014 |
| 36 | 2,50035 | Lastkomb b | Combination | Min | 1461,34 | 22,658   | 0,34   | 0,0061  | 0,7995  | -13,0531 | 36-4 | 0       |
| 36 | 3,24945 | Lastkomb b | Combination | Min | 1460,72 | 49,075   | 0,34   | 0,0061  | 0,5451  | -68,4197 | 36-4 | 0,7491  |
| 36 | 3,24945 | Lastkomb b | Combination | Min | 1460,72 | 49,075   | 0,34   | 0,0061  | 0,5451  | -68,4197 | 36-4 | 0,7491  |
| 36 | 3,25045 | Lastkomb b | Combination | Min | 1460,72 | 49,111   | 0,34   | 0,0061  | 0,5447  | -68,5245 | 36-4 | 0,7501  |
| 37 | 0       | Lastkomb b | Combination | Max | -81,573 | 0        | -0,813 | 0,00027 | -1,4194 | 0        | 37-1 | 0       |
| 37 | 1,6295  | Lastkomb b | Combination | Max | -81,028 | 0        | -0,813 | 0,00027 | 0,1783  | 0        | 37-1 | 1,6295  |
| 37 | 3,259   | Lastkomb b | Combination | Max | -80,483 | 0        | -0,813 | 0,00027 | 2,8288  | 0        | 37-1 | 3,259   |
| 37 | 0       | Lastkomb b | Combination | Min | -178,3  | 0        | -1,65  | 0,00018 | -2,547  | 0        | 37-1 | 0       |
| 37 | 1,6295  | Lastkomb b | Combination | Min | -177,76 | 0        | -1,65  | 0,00018 | -0,137  | 0        | 37-1 | 1,6295  |
| 37 | 3,259   | Lastkomb b | Combination | Min | -177,21 | 0        | -1,65  | 0,00018 | 1,2293  | 0        | 37-1 | 3,259   |
| 38 | 0       | Lastkomb b | Combination | Max | -1,785  | 0        | -0,221 | 0,00028 | -0,407  | 0        | 38-1 | 0       |
| 38 | 1,6545  | Lastkomb b | Combination | Max | -1,357  | 0        | -0,221 | 0,00028 | 0,0035  | 0        | 38-1 | 1,6545  |
| 38 | 3,309   | Lastkomb b | Combination | Max | -0,928  | 0        | -0,221 | 0,00028 | 0,6636  | 0        | 38-1 | 3,309   |
| 38 | 0       | Lastkomb b | Combination | Min | -4,404  | 0        | -0,402 | 0,00018 | -0,667  | 0        | 38-1 | 0       |
| 38 | 1,6545  | Lastkomb b | Combination | Min | -3,976  | 0        | -0,402 | 0,00018 | -0,0492 | 0        | 38-1 | 1,6545  |
| 38 | 3,309   | Lastkomb b | Combination | Min | -3,547  | 0        | -0,402 | 0,00018 | 0,3254  | 0        | 38-1 | 3,309   |



|    |         |            |             |     |         |          |        |         |         |          |      |         |
|----|---------|------------|-------------|-----|---------|----------|--------|---------|---------|----------|------|---------|
| 39 | 0       | Lastkomb b | Combination | Max | -134,64 | 0        | 0,454  | 3,2E-05 | 0,6183  | 0        | 39-1 | 0       |
| 39 | 1,681   | Lastkomb b | Combination | Max | -134,08 | 0        | 0,454  | 3,2E-05 | 0,0578  | 0        | 39-1 | 1,681   |
| 39 | 3,362   | Lastkomb b | Combination | Max | -133,51 | 0        | 0,454  | 3,2E-05 | 0,4053  | 0        | 39-1 | 3,362   |
| 39 | 0       | Lastkomb b | Combination | Min | -240,35 | 0        | -0,207 | 4,1E-06 | -0,2898 | 0        | 39-1 | 0       |
| 39 | 1,681   | Lastkomb b | Combination | Min | -239,78 | 0        | -0,207 | 4,1E-06 | -0,1761 | 0        | 39-1 | 1,681   |
| 39 | 3,362   | Lastkomb b | Combination | Min | -239,22 | 0        | -0,207 | 4,1E-06 | -0,9195 | 0        | 39-1 | 3,362   |
| 40 | 0       | Lastkomb b | Combination | Max | 611,917 | -52,141  | 0,275  | -0,001  | 1,0926  | -32,5812 | 40-1 | 0       |
| 40 | 1,00031 | Lastkomb b | Combination | Max | 611,352 | -17,858  | 0,275  | -0,001  | 0,8388  | 26,7505  | 40-1 | 1,00031 |
| 40 | 1,00031 | Lastkomb b | Combination | Max | 634,159 | -17,858  | 0,499  | -0,001  | 0,8388  | 26,7505  | 40-2 | 0       |
| 40 | 1,43795 | Lastkomb b | Combination | Max | 633,911 | 12,523   | 0,499  | -0,001  | 0,6205  | 24,897   | 40-2 | 0,43764 |
| 40 | 2,00062 | Lastkomb b | Combination | Max | 633,593 | 31,807   | 0,499  | -0,001  | 0,3399  | 26,3165  | 40-2 | 1,00031 |
| 40 | 2,00062 | Lastkomb b | Combination | Max | 661,935 | 42,533   | 0,408  | -0,001  | 0,3399  | 26,3165  | 40-3 | 0       |
| 40 | 2,8749  | Lastkomb b | Combination | Max | 661,44  | 101,564  | 0,408  | -0,001  | 0,012   | -20,1503 | 40-3 | 0,87427 |
| 40 | 2,8749  | Lastkomb b | Combination | Max | 661,44  | 101,564  | 0,408  | -0,001  | 0,012   | -20,1503 | 40-3 | 0,87427 |
| 40 | 2,8759  | Lastkomb b | Combination | Max | 661,44  | 101,598  | 0,408  | -0,001  | 0,0117  | -20,1926 | 40-3 | 0,87527 |
| 40 | 0       | Lastkomb b | Combination | Min | 339,258 | -115,959 | 0,152  | -0,0036 | 0,626   | -61,7144 | 40-1 | 0       |
| 40 | 1,00031 | Lastkomb b | Combination | Min | 338,692 | -71,191  | 0,152  | -0,0036 | 0,4736  | -2,9681  | 40-1 | 1,00031 |
| 40 | 1,00031 | Lastkomb b | Combination | Min | 347,381 | -41,884  | 0,289  | -0,0036 | 0,4736  | -2,9681  | 40-2 | 0       |
| 40 | 1,43795 | Lastkomb b | Combination | Min | 347,134 | -16,4    | 0,289  | -0,0036 | 0,347   | 2,0802   | 40-2 | 0,43764 |
| 40 | 2,00062 | Lastkomb b | Combination | Min | 346,816 | 2,884    | 0,289  | -0,0036 | 0,1842  | -1,0744  | 40-2 | 1,00031 |
| 40 | 2,00062 | Lastkomb b | Combination | Min | 358,37  | 12,269   | 0,235  | -0,0036 | 0,1842  | -1,0744  | 40-3 | 0       |
| 40 | 2,8749  | Lastkomb b | Combination | Min | 357,876 | 42,232   | 0,235  | -0,0036 | -0,0313 | -49,0349 | 40-3 | 0,87427 |
| 40 | 2,8749  | Lastkomb b | Combination | Min | 357,876 | 42,232   | 0,235  | -0,0036 | -0,0313 | -49,0349 | 40-3 | 0,87427 |
| 40 | 2,8759  | Lastkomb b | Combination | Min | 357,875 | 42,267   | 0,235  | -0,0036 | -0,0317 | -49,1365 | 40-3 | 0,87527 |
| 41 | 0       | Lastkomb b | Combination | Max | -273,08 | -50,472  | 0,413  | -0,0039 | 0,017   | -22,9147 | 41-1 | 0       |
| 41 | 0,12504 | Lastkomb b | Combination | Max | -273,15 | -46,187  | 0,413  | -0,0039 | -0,0153 | -16,8717 | 41-1 | 0,12504 |
| 41 | 0,12504 | Lastkomb b | Combination | Max | -255,27 | -46,172  | 0,461  | -0,0039 | -0,0153 | -16,8717 | 41-2 | 0       |
| 41 | 1,12535 | Lastkomb b | Combination | Max | -255,84 | -11,889  | 0,461  | -0,0039 | -0,3026 | 43,6889  | 41-2 | 1,00031 |
| 41 | 1,12535 | Lastkomb b | Combination | Max | -239,45 | -11,889  | 0,01   | -0,0039 | -0,3026 | 43,6889  | 41-3 | 0       |
| 41 | 1,43795 | Lastkomb b | Combination | Max | -239,63 | 15,899   | 0,01   | -0,0039 | -0,1871 | 40,7384  | 41-3 | 0,3126  |
| 41 | 2,12566 | Lastkomb b | Combination | Max | -240,02 | 39,468   | 0,01   | -0,0039 | 0,1213  | 34,9488  | 41-3 | 1,00031 |
| 41 | 2,12566 | Lastkomb b | Combination | Max | -224,98 | 50,189   | 4,421  | -0,0039 | 0,1213  | 34,9488  | 41-4 | 0       |
| 41 | 2,8749  | Lastkomb b | Combination | Max | -225,4  | 104,637  | 4,421  | -0,0039 | -1,8103 | -13,2556 | 41-4 | 0,74923 |
| 41 | 2,8749  | Lastkomb b | Combination | Max | -225,4  | 104,637  | 4,421  | -0,0039 | -1,8103 | -13,2556 | 41-4 | 0,74923 |
| 41 | 2,8759  | Lastkomb b | Combination | Max | -225,4  | 104,672  | 4,421  | -0,0039 | -1,8125 | -13,301  | 41-4 | 0,75023 |

|    |         |            |             |     |         |          |        |         |         |          |      |         |
|----|---------|------------|-------------|-----|---------|----------|--------|---------|---------|----------|------|---------|
| 41 | 0       | Lastkomb b | Combination | Min | -597,45 | -138,731 | 0,242  | -0,0053 | -0,0288 | -52,2344 | 41-1 | 0       |
| 41 | 0,12504 | Lastkomb b | Combination | Min | -597,53 | -134,445 | 0,242  | -0,0053 | -0,0802 | -37,7719 | 41-1 | 0,12504 |
| 41 | 0,12504 | Lastkomb b | Combination | Min | -565,73 | -108,298 | 0,269  | -0,0053 | -0,0802 | -37,7719 | 41-2 | 0       |
| 41 | 1,12535 | Lastkomb b | Combination | Min | -566,03 | -63,53   | 0,269  | -0,0053 | -0,5281 | 7,3824   | 41-2 | 1,00031 |
| 41 | 1,12535 | Lastkomb b | Combination | Min | -537,67 | -34,52   | -0,511 | -0,0053 | -0,5281 | 7,3824   | 41-3 | 0       |
| 41 | 1,43795 | Lastkomb b | Combination | Min | -537,58 | -13,321  | -0,511 | -0,0053 | -0,5221 | 11,3401  | 41-3 | 0,3126  |
| 41 | 2,12566 | Lastkomb b | Combination | Min | -537,97 | 10,249   | -0,511 | -0,0053 | -0,5271 | 6,9129   | 41-3 | 1,00031 |
| 41 | 2,12566 | Lastkomb b | Combination | Min | -512,59 | 16,264   | 2,215  | -0,0053 | -0,5271 | 6,9129   | 41-4 | 0       |
| 41 | 2,8749  | Lastkomb b | Combination | Min | -512,75 | 41,942   | 2,215  | -0,0053 | -3,2278 | -34,0811 | 41-4 | 0,74923 |
| 41 | 2,8749  | Lastkomb b | Combination | Min | -512,75 | 41,942   | 2,215  | -0,0053 | -3,2278 | -34,0811 | 41-4 | 0,74923 |
| 41 | 2,8759  | Lastkomb b | Combination | Min | -512,75 | 41,977   | 2,215  | -0,0053 | -3,2322 | -34,154  | 41-4 | 0,75023 |
| 42 | 0       | Lastkomb b | Combination | Max | 534,495 | -50,93   | -0,454 | 0,001   | -0,8618 | -25,3381 | 42-1 | 0       |
| 42 | 1,00011 | Lastkomb b | Combination | Max | 533,571 | -16,662  | -0,454 | 0,001   | -0,3749 | 41,4559  | 42-1 | 1,00011 |
| 42 | 1,00011 | Lastkomb b | Combination | Max | 554,061 | -16,662  | 0,132  | 0,001   | -0,3749 | 41,4559  | 42-2 | 0       |
| 42 | 1,62417 | Lastkomb b | Combination | Max | 553,484 | 14,668   | 0,132  | 0,001   | -0,3972 | 43,6091  | 42-2 | 0,62407 |
| 42 | 1,62417 | Lastkomb b | Combination | Max | 553,484 | 14,668   | 0,132  | 0,001   | -0,3972 | 43,6091  | 42-2 | 0,62407 |
| 42 | 2,00021 | Lastkomb b | Combination | Max | 553,137 | 27,553   | 0,132  | 0,001   | -0,4026 | 47,2915  | 42-2 | 1,00011 |
| 42 | 2,00021 | Lastkomb b | Combination | Max | 577,584 | 38,279   | -0,134 | 0,001   | -0,4026 | 47,2915  | 42-3 | 0       |
| 42 | 3,00032 | Lastkomb b | Combination | Max | 576,66  | 99,647   | -0,134 | 0,001   | -0,2683 | -17,5727 | 42-3 | 1,00011 |
| 42 | 3,00032 | Lastkomb b | Combination | Max | 605,286 | 110,176  | -0,118 | 0,001   | -0,2683 | -17,5727 | 42-4 | 0       |
| 42 | 3,24934 | Lastkomb b | Combination | Max | 605,056 | 143,117  | -0,118 | 0,001   | -0,2391 | -30,5137 | 42-4 | 0,24903 |
| 42 | 3,24934 | Lastkomb b | Combination | Max | 605,056 | 143,117  | -0,118 | 0,001   | -0,2391 | -30,5137 | 42-4 | 0,24903 |
| 42 | 3,25034 | Lastkomb b | Combination | Max | 605,055 | 143,151  | -0,118 | 0,001   | -0,239  | -30,57   | 42-4 | 0,25003 |
| 42 | 0       | Lastkomb b | Combination | Min | 170,638 | -120,2   | -0,924 | 0,00065 | -1,3557 | -51,2378 | 42-1 | 0       |
| 42 | 1,00011 | Lastkomb b | Combination | Min | 169,866 | -75,445  | -0,924 | 0,00065 | -0,6153 | 5,071    | 42-1 | 1,00011 |
| 42 | 1,00011 | Lastkomb b | Combination | Min | 208,502 | -48,106  | -0,048 | 0,00065 | -0,6153 | 5,071    | 42-2 | 0       |
| 42 | 1,62417 | Lastkomb b | Combination | Min | 208,3   | -16,235  | -0,048 | 0,00065 | -0,5979 | 11,988   | 42-2 | 0,62407 |
| 42 | 1,62417 | Lastkomb b | Combination | Min | 208,3   | -16,235  | -0,048 | 0,00065 | -0,5979 | 11,988   | 42-2 | 0,62407 |
| 42 | 2,00021 | Lastkomb b | Combination | Min | 207,953 | -3,35    | -0,048 | 0,00065 | -0,6204 | 7,9888   | 42-2 | 1,00011 |
| 42 | 2,00021 | Lastkomb b | Combination | Min | 246,642 | 12,493   | -0,194 | 0,00065 | -0,6204 | 7,9888   | 42-3 | 0       |
| 42 | 3,00032 | Lastkomb b | Combination | Min | 245,87  | 46,762   | -0,194 | 0,00065 | -0,4267 | -37,6119 | 42-3 | 1,00011 |
| 42 | 3,00032 | Lastkomb b | Combination | Min | 286,677 | 46,708   | -0,169 | 0,00065 | -0,4267 | -37,6119 | 42-4 | 0       |
| 42 | 3,24934 | Lastkomb b | Combination | Min | 286,599 | 55,241   | -0,169 | 0,00065 | -0,385  | -65,8913 | 42-4 | 0,24903 |
| 42 | 3,24934 | Lastkomb b | Combination | Min | 286,599 | 55,241   | -0,169 | 0,00065 | -0,385  | -65,8913 | 42-4 | 0,24903 |
| 42 | 3,25034 | Lastkomb b | Combination | Min | 286,598 | 55,275   | -0,169 | 0,00065 | -0,3849 | -66,0205 | 42-4 | 0,25003 |

|    |         |            |             |     |         |          |         |          |         |          |      |         |
|----|---------|------------|-------------|-----|---------|----------|---------|----------|---------|----------|------|---------|
| 43 | 0       | Lastkomb b | Combination | Max | -277,13 | -57,897  | -0,119  | 0,0089   | -0,2421 | -34,3711 | 43-1 | 0       |
| 43 | 0,75007 | Lastkomb b | Combination | Max | -277,86 | -32,197  | -0,119  | 0,0089   | -0,1492 | 20,3637  | 43-1 | 0,75007 |
| 43 | 0,75007 | Lastkomb b | Combination | Max | -249,68 | -32,27   | -0,069  | 0,0089   | -0,1492 | 20,3637  | 43-2 | 0       |
| 43 | 1,62414 | Lastkomb b | Combination | Max | -250,52 | -2,321   | -0,069  | 0,0089   | -0,0603 | 52,5921  | 43-2 | 0,87408 |
| 43 | 1,62414 | Lastkomb b | Combination | Max | -250,52 | -2,321   | -0,069  | 0,0089   | -0,0603 | 52,5921  | 43-2 | 0,87408 |
| 43 | 1,75015 | Lastkomb b | Combination | Max | -250,64 | 1,997    | -0,069  | 0,0089   | -0,0474 | 56,9505  | 43-2 | 1,00009 |
| 43 | 1,75015 | Lastkomb b | Combination | Max | -224,27 | 9,776    | -0,788  | 0,0089   | -0,0474 | 56,9505  | 43-3 | 0       |
| 43 | 2,75024 | Lastkomb b | Combination | Max | -225,24 | 70,568   | -0,788  | 0,0089   | 1,5237  | 15,9542  | 43-3 | 1,00009 |
| 43 | 2,75024 | Lastkomb b | Combination | Max | -200,44 | 80,612   | 9,999   | 0,0089   | 1,5237  | 15,9542  | 43-4 | 0       |
| 43 | 3,24929 | Lastkomb b | Combination | Max | -200,92 | 123,674  | 9,999   | 0,0089   | -1,4493 | -17,1367 | 43-4 | 0,49904 |
| 43 | 3,24929 | Lastkomb b | Combination | Max | -200,92 | 123,674  | 9,999   | 0,0089   | -1,4493 | -17,1367 | 43-4 | 0,49904 |
| 43 | 3,25029 | Lastkomb b | Combination | Max | -200,92 | 123,708  | 9,999   | 0,0089   | -1,4537 | -17,1857 | 43-4 | 0,50004 |
| 43 | 0       | Lastkomb b | Combination | Min | -794,83 | -129,577 | -0,17   | 0,0033   | -0,388  | -68,0627 | 43-1 | 0       |
| 43 | 0,75007 | Lastkomb b | Combination | Min | -795,55 | -103,877 | -0,17   | 0,0033   | -0,2618 | -7,1324  | 43-1 | 0,75007 |
| 43 | 0,75007 | Lastkomb b | Combination | Min | -747,14 | -77,183  | -0,137  | 0,0033   | -0,2618 | -7,1324  | 43-2 | 0       |
| 43 | 1,62414 | Lastkomb b | Combination | Min | -747,85 | -36,747  | -0,137  | 0,0033   | -0,1446 | 13,3309  | 43-2 | 0,87408 |
| 43 | 1,62414 | Lastkomb b | Combination | Min | -747,85 | -36,747  | -0,137  | 0,0033   | -0,1446 | 13,3309  | 43-2 | 0,87408 |
| 43 | 1,75015 | Lastkomb b | Combination | Min | -747,97 | -32,429  | -0,137  | 0,0033   | -0,1277 | 14,1219  | 43-2 | 1,00009 |
| 43 | 1,75015 | Lastkomb b | Combination | Min | -704,69 | -6,206   | -1,617  | 0,0033   | -0,1277 | 14,1219  | 43-3 | 0       |
| 43 | 2,75024 | Lastkomb b | Combination | Min | -705,52 | 30,148   | -1,617  | 0,0033   | 0,7239  | -6,1389  | 43-3 | 1,00009 |
| 43 | 2,75024 | Lastkomb b | Combination | Min | -667,57 | 29,773   | 4,367   | 0,0033   | 0,7239  | -6,1389  | 43-4 | 0       |
| 43 | 3,24929 | Lastkomb b | Combination | Min | -667,91 | 46,873   | 4,367   | 0,0033   | -3,4706 | -45,7676 | 43-4 | 0,49904 |
| 43 | 3,24929 | Lastkomb b | Combination | Min | -667,91 | 46,873   | 4,367   | 0,0033   | -3,4706 | -45,7676 | 43-4 | 0,49904 |
| 43 | 3,25029 | Lastkomb b | Combination | Min | -667,91 | 46,907   | 4,367   | 0,0033   | -3,4806 | -45,8758 | 43-4 | 0,50004 |
| 44 | 0       | Lastkomb b | Combination | Max | -202,82 | -48,49   | -4,541  | -0,00068 | -1,5744 | -18,9498 | 44-1 | 0       |
| 44 | 0,50002 | Lastkomb b | Combination | Max | -203,37 | -31,36   | -4,541  | -0,00068 | 1,4863  | 15,5111  | 44-1 | 0,50002 |
| 44 | 0,50002 | Lastkomb b | Combination | Max | -179,94 | -32,037  | 1,509   | -0,00068 | 1,4863  | 15,5111  | 44-2 | 0       |
| 44 | 1,50007 | Lastkomb b | Combination | Max | -181,03 | 2,224    | 1,509   | -0,00068 | 0,0394  | 58,7511  | 44-2 | 1,00005 |
| 44 | 1,50007 | Lastkomb b | Combination | Max | -158,76 | 4,442    | 0,00183 | -0,00068 | 0,0394  | 58,7511  | 44-3 | 0       |
| 44 | 1,62407 | Lastkomb b | Combination | Max | -158,89 | 34,687   | 0,00183 | -0,00068 | 0,0394  | 55,058   | 44-3 | 0,12401 |
| 44 | 1,62407 | Lastkomb b | Combination | Max | -158,89 | 34,687   | 0,00183 | -0,00068 | 0,0394  | 55,058   | 44-3 | 0,12401 |
| 44 | 2,50011 | Lastkomb b | Combination | Max | -159,85 | 64,701   | 0,00183 | -0,00068 | 0,0393  | 24,3273  | 44-3 | 1,00005 |
| 44 | 2,50011 | Lastkomb b | Combination | Max | -138,53 | 75,32    | 0,028   | -0,00068 | 0,0393  | 24,3273  | 44-4 | 0       |
| 44 | 3,24915 | Lastkomb b | Combination | Max | -139,35 | 127,503  | 0,028   | -0,00068 | 0,0212  | -29,3946 | 44-4 | 0,74903 |
| 44 | 3,24915 | Lastkomb b | Combination | Max | -139,35 | 127,503  | 0,028   | -0,00068 | 0,0212  | -29,3946 | 44-4 | 0,74903 |



|    |         |            |             |     |         |          |         |          |         |          |      |         |
|----|---------|------------|-------------|-----|---------|----------|---------|----------|---------|----------|------|---------|
| 44 | 3,25015 | Lastkomb b | Combination | Max | -139,35 | 127,537  | 0,028   | -0,00068 | 0,0212  | -29,4504 | 44-4 | 0,75003 |
| 44 | 0       | Lastkomb b | Combination | Min | -671,3  | -125,693 | -10,186 | -0,003   | -3,6071 | -47,4673 | 44-1 | 0       |
| 44 | 0,50002 | Lastkomb b | Combination | Min | -671,85 | -108,562 | -10,186 | -0,003   | 0,6877  | -6,687   | 44-1 | 0,50002 |
| 44 | 0,50002 | Lastkomb b | Combination | Min | -637,93 | -83,043  | 0,681   | -0,003   | 0,6877  | -6,687   | 44-2 | 0       |
| 44 | 1,50007 | Lastkomb b | Combination | Min | -638,69 | -38,294  | 0,681   | -0,003   | -0,0265 | 15,7645  | 44-2 | 1,00005 |
| 44 | 1,50007 | Lastkomb b | Combination | Min | -608,88 | -11,531  | -0,037  | -0,003   | -0,0265 | 15,7645  | 44-3 | 0       |
| 44 | 1,62407 | Lastkomb b | Combination | Min | -608,92 | 0,136    | -0,037  | -0,003   | -0,0222 | 15,3815  | 44-3 | 0,12401 |
| 44 | 1,62407 | Lastkomb b | Combination | Min | -608,92 | 0,136    | -0,037  | -0,003   | -0,0222 | 15,3815  | 44-3 | 0,12401 |
| 44 | 2,50011 | Lastkomb b | Combination | Min | -609,87 | 30,149   | -0,037  | -0,003   | -0,0041 | -3,4353  | 44-3 | 1,00005 |
| 44 | 2,50011 | Lastkomb b | Combination | Min | -583,7  | 30,078   | 0,012   | -0,003   | -0,0041 | -3,4353  | 44-4 | 0       |
| 44 | 3,24915 | Lastkomb b | Combination | Min | -584,42 | 55,74    | 0,012   | -0,003   | -0,018  | -62,2547 | 44-4 | 0,74903 |
| 44 | 3,24915 | Lastkomb b | Combination | Min | -584,42 | 55,74    | 0,012   | -0,003   | -0,018  | -62,2547 | 44-4 | 0,74903 |
| 44 | 3,25015 | Lastkomb b | Combination | Min | -584,42 | 55,774   | 0,012   | -0,003   | -0,0181 | -62,3662 | 44-4 | 0,75003 |
| 45 | 0       | Lastkomb b | Combination | Max | -554,6  | -58,068  | 0,028   | 0,00084  | 0,0204  | -31,0128 | 45-1 | 0       |
| 45 | 0,25001 | Lastkomb b | Combination | Max | -554,88 | -49,503  | 0,028   | 0,00084  | 0,0144  | -17,2751 | 45-1 | 0,25001 |
| 45 | 0,25001 | Lastkomb b | Combination | Max | -535,34 | -49,793  | 0,089   | 0,00084  | 0,0144  | -17,2751 | 45-2 | 0       |
| 45 | 1,25005 | Lastkomb b | Combination | Max | -536,46 | -15,533  | 0,089   | 0,00084  | -0,0429 | 51,8399  | 45-2 | 1,00004 |
| 45 | 1,25005 | Lastkomb b | Combination | Max | -520,33 | -15,533  | -0,128  | 0,00084  | -0,0429 | 51,8399  | 45-3 | 0       |
| 45 | 1,62406 | Lastkomb b | Combination | Max | -520,75 | 13,078   | -0,128  | 0,00084  | 0,0189  | 49,6898  | 45-3 | 0,37401 |
| 45 | 1,62406 | Lastkomb b | Combination | Max | -520,75 | 13,078   | -0,128  | 0,00084  | 0,0189  | 49,6898  | 45-3 | 0,37401 |
| 45 | 2,25008 | Lastkomb b | Combination | Max | -521,45 | 34,525   | -0,128  | 0,00084  | 0,2063  | 49,4065  | 45-3 | 1,00004 |
| 45 | 2,25008 | Lastkomb b | Combination | Max | -508,83 | 45,252   | 0,874   | 0,00084  | 0,2063  | 49,4065  | 45-4 | 0       |
| 45 | 3,24912 | Lastkomb b | Combination | Max | -509,95 | 106,294  | 0,874   | 0,00084  | -0,3287 | -15,2185 | 45-4 | 0,99904 |
| 45 | 3,24912 | Lastkomb b | Combination | Max | -509,95 | 106,294  | 0,874   | 0,00084  | -0,3287 | -15,2185 | 45-4 | 0,99904 |
| 45 | 3,25012 | Lastkomb b | Combination | Max | -509,95 | 106,329  | 0,874   | 0,00084  | -0,3291 | -15,2684 | 45-4 | 1,00004 |
| 45 | 0       | Lastkomb b | Combination | Min | -1065,4 | -146,036 | 0,012   | -0,00042 | -0,0192 | -65,7818 | 45-1 | 0       |
| 45 | 0,25001 | Lastkomb b | Combination | Min | -1065,6 | -137,471 | 0,012   | -0,00042 | -0,0243 | -36,7867 | 45-1 | 0,25001 |
| 45 | 0,25001 | Lastkomb b | Combination | Min | -1036   | -113,217 | 0,046   | -0,00042 | -0,0243 | -36,7867 | 45-2 | 0       |
| 45 | 1,25005 | Lastkomb b | Combination | Min | -1037,1 | -68,469  | 0,046   | -0,00042 | -0,1016 | 11,5113  | 45-2 | 1,00004 |
| 45 | 1,25005 | Lastkomb b | Combination | Min | -1014,2 | -41,413  | -0,299  | -0,00042 | -0,1016 | 11,5113  | 45-3 | 0       |
| 45 | 1,62406 | Lastkomb b | Combination | Min | -1014,6 | -18,112  | -0,299  | -0,00042 | -0,0408 | 16,7543  | 45-3 | 0,37401 |
| 45 | 1,62406 | Lastkomb b | Combination | Min | -1014,6 | -18,112  | -0,299  | -0,00042 | -0,0408 | 16,7543  | 45-3 | 0,37401 |
| 45 | 2,25008 | Lastkomb b | Combination | Min | -1015,3 | 3,335    | -0,299  | -0,00042 | 0,0414  | 12,3943  | 45-3 | 1,00004 |
| 45 | 2,25008 | Lastkomb b | Combination | Min | -999,47 | 13,836   | 0,411   | -0,00042 | 0,0414  | 12,3943  | 45-4 | 0       |
| 45 | 3,24912 | Lastkomb b | Combination | Min | -1000,5 | 48,062   | 0,411   | -0,00042 | -0,6668 | -39,344  | 45-4 | 0,99904 |

|    |         |            |             |     |         |          |          |          |         |          |      |         |
|----|---------|------------|-------------|-----|---------|----------|----------|----------|---------|----------|------|---------|
| 45 | 3,24912 | Lastkomb b | Combination | Min | -1000,5 | 48,062   | 0,411    | -0,00042 | -0,6668 | -39,344  | 45-4 | 0,99904 |
| 45 | 3,25012 | Lastkomb b | Combination | Min | -1000,5 | 48,096   | 0,411    | -0,00042 | -0,6677 | -39,4503 | 45-4 | 1,00004 |
| 46 | 0       | Lastkomb b | Combination | Max | -501,88 | -48,85   | -0,421   | 0,00095  | -0,4282 | -16,2103 | 46-1 | 0       |
| 46 | 1,00003 | Lastkomb b | Combination | Max | -503,04 | -14,592  | -0,421   | 0,00095  | 0,1021  | 50,2055  | 46-1 | 1,00003 |
| 46 | 1,00003 | Lastkomb b | Combination | Max | -497,16 | -14,592  | 0,323    | 0,00095  | 0,1021  | 50,2055  | 46-2 | 0       |
| 46 | 1,62404 | Lastkomb b | Combination | Max | -497,88 | 16,987   | 0,323    | 0,00095  | -0,0944 | 50,9718  | 46-2 | 0,62402 |
| 46 | 1,62404 | Lastkomb b | Combination | Max | -497,88 | 16,987   | 0,323    | 0,00095  | -0,0944 | 50,9718  | 46-2 | 0,62402 |
| 46 | 2,00005 | Lastkomb b | Combination | Max | -498,32 | 29,868   | 0,323    | 0,00095  | -0,1518 | 53,8826  | 46-2 | 1,00003 |
| 46 | 2,00005 | Lastkomb b | Combination | Max | -495,72 | 40,596   | -0,044   | 0,00095  | -0,1518 | 53,8826  | 46-3 | 0       |
| 46 | 3,00008 | Lastkomb b | Combination | Max | -496,89 | 101,692  | -0,044   | 0,00095  | -0,0938 | -14,5819 | 46-3 | 1,00003 |
| 46 | 3,00008 | Lastkomb b | Combination | Max | -497,57 | 111,495  | 0,015    | 0,00095  | -0,0938 | -14,5819 | 46-4 | 0       |
| 46 | 3,24909 | Lastkomb b | Combination | Max | -497,86 | 144,378  | 0,015    | 0,00095  | -0,0928 | -27,8942 | 46-4 | 0,24901 |
| 46 | 3,24909 | Lastkomb b | Combination | Max | -497,86 | 144,378  | 0,015    | 0,00095  | -0,0928 | -27,8942 | 46-4 | 0,24901 |
| 46 | 3,25009 | Lastkomb b | Combination | Max | -497,86 | 144,412  | 0,015    | 0,00095  | -0,0928 | -27,952  | 46-4 | 0,25001 |
| 46 | 0       | Lastkomb b | Combination | Min | -992,76 | -117,871 | -0,872   | -0,00045 | -0,7704 | -40,1556 | 46-1 | 0       |
| 46 | 1,00003 | Lastkomb b | Combination | Min | -993,67 | -73,124  | -0,872   | -0,00045 | -0,055  | 12,6911  | 46-1 | 1,00003 |
| 46 | 1,00003 | Lastkomb b | Combination | Min | -990,37 | -46,047  | 0,143    | -0,00045 | -0,055  | 12,6911  | 46-2 | 0       |
| 46 | 1,62404 | Lastkomb b | Combination | Min | -991,02 | -14,182  | 0,143    | -0,00045 | -0,1501 | 17,9469  | 46-2 | 0,62402 |
| 46 | 1,62404 | Lastkomb b | Combination | Min | -991,02 | -14,182  | 0,143    | -0,00045 | -0,1501 | 17,9469  | 46-2 | 0,62402 |
| 46 | 2,00005 | Lastkomb b | Combination | Min | -991,46 | -1,301   | 0,143    | -0,00045 | -0,2264 | 12,9737  | 46-2 | 1,00003 |
| 46 | 2,00005 | Lastkomb b | Combination | Min | -994,33 | 14,056   | -0,091   | -0,00045 | -0,2264 | 12,9737  | 46-3 | 0       |
| 46 | 3,00008 | Lastkomb b | Combination | Min | -995,42 | 48,315   | -0,091   | -0,00045 | -0,1501 | -34,2025 | 46-3 | 1,00003 |
| 46 | 3,00008 | Lastkomb b | Combination | Min | -1004,5 | 47,608   | -0,00895 | -0,00045 | -0,1501 | -34,2025 | 46-4 | 0       |
| 46 | 3,24909 | Lastkomb b | Combination | Min | -1004,7 | 56,139   | -0,00895 | -0,00045 | -0,1521 | -61,6691 | 46-4 | 0,24901 |
| 46 | 3,24909 | Lastkomb b | Combination | Min | -1004,7 | 56,139   | -0,00895 | -0,00045 | -0,1521 | -61,6691 | 46-4 | 0,24901 |
| 46 | 3,25009 | Lastkomb b | Combination | Min | -1004,7 | 56,173   | -0,00895 | -0,00045 | -0,1521 | -61,7997 | 46-4 | 0,25001 |
| 47 | 0       | Lastkomb b | Combination | Max | -418,3  | -56,346  | 0,015    | 0,0014   | -0,0928 | -27,7991 | 47-1 | 0       |
| 47 | 0,75001 | Lastkomb b | Combination | Max | -419,23 | -30,654  | 0,015    | 0,0014   | -0,0899 | 26,9793  | 47-1 | 0,75001 |
| 47 | 0,75001 | Lastkomb b | Combination | Max | -432,86 | -30,894  | 0,061    | 0,0014   | -0,0899 | 26,9793  | 47-2 | 0       |
| 47 | 1,62402 | Lastkomb b | Combination | Max | -433,94 | -0,954   | 0,061    | 0,0014   | -0,1046 | 57,902   | 47-2 | 0,87401 |
| 47 | 1,62402 | Lastkomb b | Combination | Max | -433,94 | -0,954   | 0,061    | 0,0014   | -0,1046 | 57,902   | 47-2 | 0,87401 |
| 47 | 1,75002 | Lastkomb b | Combination | Max | -434,1  | 3,362    | 0,061    | 0,0014   | -0,1067 | 62,0888  | 47-2 | 1,00001 |
| 47 | 1,75002 | Lastkomb b | Combination | Max | -450,62 | 11,269   | -0,727   | 0,0014   | -0,1067 | 62,0888  | 47-3 | 0       |
| 47 | 2,75004 | Lastkomb b | Combination | Max | -451,86 | 71,92    | -0,727   | 0,0014   | 1,3218  | 19,858   | 47-3 | 1,00001 |
| 47 | 2,75004 | Lastkomb b | Combination | Max | -471,43 | 82,311   | 10,807   | 0,0014   | 1,3218  | 19,858   | 47-4 | 0       |

|    |         |            |             |     |         |          |          |          |         |          |      |         |
|----|---------|------------|-------------|-----|---------|----------|----------|----------|---------|----------|------|---------|
| 47 | 3,24905 | Lastkomb b | Combination | Max | -472,05 | 125,146  | 10,807   | 0,0014   | -1,897  | -15,9815 | 47-4 | 0,49901 |
| 47 | 3,24905 | Lastkomb b | Combination | Max | -472,05 | 125,146  | 10,807   | 0,0014   | -1,897  | -15,9815 | 47-4 | 0,49901 |
| 47 | 3,25005 | Lastkomb b | Combination | Max | -472,05 | 125,18   | 10,807   | 0,0014   | -1,902  | -16,0302 | 47-4 | 0,50001 |
| 47 | 0       | Lastkomb b | Combination | Min | -912,39 | -127,833 | -0,00895 | -8,1E-05 | -0,1522 | -60,346  | 47-1 | 0       |
| 47 | 0,75001 | Lastkomb b | Combination | Min | -913,32 | -102,141 | -0,00895 | -8,1E-05 | -0,1582 | -0,7804  | 47-1 | 0,75001 |
| 47 | 0,75001 | Lastkomb b | Combination | Min | -921,3  | -75,814  | 0,01     | -8,1E-05 | -0,1582 | -0,7804  | 47-2 | 0       |
| 47 | 1,62402 | Lastkomb b | Combination | Min | -922,33 | -35,387  | 0,01     | -8,1E-05 | -0,2014 | 18,1803  | 47-2 | 0,87401 |
| 47 | 1,62402 | Lastkomb b | Combination | Min | -922,33 | -35,387  | 0,01     | -8,1E-05 | -0,2014 | 18,1803  | 47-2 | 0,87401 |
| 47 | 1,75002 | Lastkomb b | Combination | Min | -922,49 | -31,071  | 0,01     | -8,1E-05 | -0,2086 | 18,426   | 47-2 | 1,00001 |
| 47 | 1,75002 | Lastkomb b | Combination | Min | -936,9  | -5,09    | -1,53    | -8,1E-05 | -0,2086 | 18,426   | 47-3 | 0       |
| 47 | 2,75004 | Lastkomb b | Combination | Min | -938,08 | 31,848   | -1,53    | -8,1E-05 | 0,6024  | -2,4777  | 47-3 | 1,00001 |
| 47 | 2,75004 | Lastkomb b | Combination | Min | -958,23 | 31,567   | 5,036    | -8,1E-05 | 0,6024  | -2,4777  | 47-4 | 0       |
| 47 | 3,24905 | Lastkomb b | Combination | Min | -958,66 | 48,661   | 5,036    | -8,1E-05 | -4,0712 | -42,8268 | 47-4 | 0,49901 |
| 47 | 3,24905 | Lastkomb b | Combination | Min | -958,66 | 48,661   | 5,036    | -8,1E-05 | -4,0712 | -42,8268 | 47-4 | 0,49901 |
| 47 | 3,25005 | Lastkomb b | Combination | Min | -958,66 | 48,695   | 5,036    | -8,1E-05 | -4,082  | -42,9367 | 47-4 | 0,50001 |
| 48 | 0       | Lastkomb b | Combination | Max | -471,95 | -46,875  | -5,016   | -0,0017  | -1,9609 | -14,654  | 48-1 | 0       |
| 48 | 0,5     | Lastkomb b | Combination | Max | -472,59 | -29,748  | -5,016   | -0,0017  | 1,26    | 19,6959  | 48-1 | 0,5     |
| 48 | 0,5     | Lastkomb b | Combination | Max | -495,41 | -29,984  | 1,483    | -0,0017  | 1,26    | 19,6959  | 48-2 | 0       |
| 48 | 1,00001 | Lastkomb b | Combination | Max | -496,05 | -12,857  | 1,483    | -0,0017  | 0,5184  | 37,5335  | 48-2 | 0,5     |
| 48 | 1,50001 | Lastkomb b | Combination | Max | -496,69 | 4,27     | 1,483    | -0,0017  | -0,1409 | 59,1537  | 48-2 | 1,00001 |
| 48 | 1,50001 | Lastkomb b | Combination | Max | -522,98 | 8,222    | -0,043   | -0,0017  | -0,1409 | 59,1537  | 48-3 | 0       |
| 48 | 1,62401 | Lastkomb b | Combination | Max | -523,14 | 38,306   | -0,043   | -0,0017  | -0,1336 | 55,0119  | 48-3 | 0,124   |
| 48 | 1,62401 | Lastkomb b | Combination | Max | -523,14 | 38,306   | -0,043   | -0,0017  | -0,1336 | 55,0119  | 48-3 | 0,124   |
| 48 | 2,06202 | Lastkomb b | Combination | Max | -523,7  | 53,309   | -0,043   | -0,0017  | -0,1081 | 34,9479  | 48-3 | 0,562   |
| 48 | 2,50002 | Lastkomb b | Combination | Max | -524,26 | 68,313   | -0,043   | -0,0017  | -0,0826 | 21,356   | 48-3 | 1,00001 |
| 48 | 2,50002 | Lastkomb b | Combination | Max | -554,26 | 78,809   | -0,016   | -0,0017  | -0,0826 | 21,356   | 48-4 | 0       |
| 48 | 2,87452 | Lastkomb b | Combination | Max | -554,74 | 117,915  | -0,016   | -0,0017  | -0,0708 | -13,7116 | 48-4 | 0,3745  |
| 48 | 3,24903 | Lastkomb b | Combination | Max | -555,22 | 130,743  | -0,016   | -0,0017  | -0,0591 | -33,906  | 48-4 | 0,74901 |
| 48 | 3,24903 | Lastkomb b | Combination | Max | -555,22 | 130,743  | -0,016   | -0,0017  | -0,0591 | -33,906  | 48-4 | 0,74901 |
| 48 | 3,25003 | Lastkomb b | Combination | Max | -555,22 | 130,777  | -0,016   | -0,0017  | -0,059  | -33,9664 | 48-4 | 0,75001 |
| 48 | 0       | Lastkomb b | Combination | Min | -958,85 | -122,288 | -10,786  | -0,0036  | -4,1373 | -41,8255 | 48-1 | 0       |
| 48 | 0,5     | Lastkomb b | Combination | Min | -959,49 | -105,161 | -10,786  | -0,0036  | 0,5309  | -2,7323  | 48-1 | 0,5     |
| 48 | 0,5     | Lastkomb b | Combination | Min | -985,82 | -79,418  | 0,691    | -0,0036  | 0,5309  | -2,7323  | 48-2 | 0       |
| 48 | 1,00001 | Lastkomb b | Combination | Min | -986,42 | -51,803  | 0,691    | -0,0036  | 0,1616  | 11,2423  | 48-2 | 0,5     |
| 48 | 1,50001 | Lastkomb b | Combination | Min | -987,06 | -34,677  | 0,691    | -0,0036  | -0,2268 | 15,8352  | 48-2 | 1,00001 |



|    |         |            |             |     |         |          |          |          |         |          |      |         |
|----|---------|------------|-------------|-----|---------|----------|----------|----------|---------|----------|------|---------|
| 48 | 1,50001 | Lastkomb b | Combination | Min | -1019,7 | -8,162   | -0,11    | -0,0036  | -0,2268 | 15,8352  | 48-3 | 0       |
| 48 | 1,62401 | Lastkomb b | Combination | Min | -1019,8 | 3,625    | -0,11    | -0,0036  | -0,2147 | 15,649   | 48-3 | 0,124   |
| 48 | 1,62401 | Lastkomb b | Combination | Min | -1019,8 | 3,625    | -0,11    | -0,0036  | -0,2147 | 15,649   | 48-3 | 0,124   |
| 48 | 2,06202 | Lastkomb b | Combination | Min | -1020,4 | 18,628   | -0,11    | -0,0036  | -0,1724 | 8,6549   | 48-3 | 0,562   |
| 48 | 2,50002 | Lastkomb b | Combination | Min | -1020,9 | 33,631   | -0,11    | -0,0036  | -0,1427 | -4,9328  | 48-3 | 1,00001 |
| 48 | 2,50002 | Lastkomb b | Combination | Min | -1060,2 | 33,429   | -0,055   | -0,0036  | -0,1427 | -4,9328  | 48-4 | 0       |
| 48 | 2,87452 | Lastkomb b | Combination | Min | -1060,6 | 46,257   | -0,055   | -0,0036  | -0,1285 | -32,398  | 48-4 | 0,3745  |
| 48 | 3,24903 | Lastkomb b | Combination | Min | -1061,1 | 59,085   | -0,055   | -0,0036  | -0,1143 | -68,0753 | 48-4 | 0,74901 |
| 48 | 3,24903 | Lastkomb b | Combination | Min | -1061,1 | 59,085   | -0,055   | -0,0036  | -0,1143 | -68,0753 | 48-4 | 0,74901 |
| 48 | 3,25003 | Lastkomb b | Combination | Min | -1061,1 | 59,12    | -0,055   | -0,0036  | -0,1142 | -68,1903 | 48-4 | 0,75001 |
| 49 | 0       | Lastkomb b | Combination | Max | -20,829 | -56,57   | -0,016   | -0,00075 | -0,0577 | -31,6086 | 49-1 | 0       |
| 49 | 0,25    | Lastkomb b | Combination | Max | -21,168 | -48,007  | -0,016   | -0,00075 | -0,0498 | -18,5365 | 49-1 | 0,25    |
| 49 | 0,25    | Lastkomb b | Combination | Max | -54,195 | -48,393  | 0,021    | -0,00075 | -0,0498 | -18,5365 | 49-2 | 0       |
| 49 | 0,75    | Lastkomb b | Combination | Max | -54,873 | -31,267  | 0,021    | -0,00075 | -0,0546 | 12,0111  | 49-2 | 0,5     |
| 49 | 1,25    | Lastkomb b | Combination | Max | -55,552 | -14,142  | 0,021    | -0,00075 | -0,0595 | 49,9244  | 49-2 | 1       |
| 49 | 1,25    | Lastkomb b | Combination | Max | -88,962 | -14,142  | -0,156   | -0,00075 | -0,0595 | 49,9244  | 49-3 | 0       |
| 49 | 1,624   | Lastkomb b | Combination | Max | -89,47  | 14,282   | -0,156   | -0,00075 | 0,051   | 47,3232  | 49-3 | 0,374   |
| 49 | 1,624   | Lastkomb b | Combination | Max | -89,47  | 14,282   | -0,156   | -0,00075 | 0,051   | 47,3232  | 49-3 | 0,374   |
| 49 | 1,937   | Lastkomb b | Combination | Max | -89,894 | 25,002   | -0,156   | -0,00075 | 0,1646  | 46,003   | 49-3 | 0,687   |
| 49 | 2,25    | Lastkomb b | Combination | Max | -90,319 | 35,723   | -0,156   | -0,00075 | 0,2783  | 46,19    | 49-3 | 1       |
| 49 | 2,25    | Lastkomb b | Combination | Max | -124,43 | 46,451   | 0,809    | -0,00075 | 0,2783  | 46,19    | 49-4 | 0       |
| 49 | 2,7495  | Lastkomb b | Combination | Max | -125,11 | 90,607   | 0,809    | -0,00075 | -0,0617 | 5,5496   | 49-4 | 0,4995  |
| 49 | 3,24901 | Lastkomb b | Combination | Max | -125,79 | 107,715  | 0,809    | -0,00075 | -0,2524 | -18,3956 | 49-4 | 0,999   |
| 49 | 3,24901 | Lastkomb b | Combination | Max | -125,79 | 107,715  | 0,809    | -0,00075 | -0,2524 | -18,3956 | 49-4 | 0,999   |
| 49 | 3,25001 | Lastkomb b | Combination | Max | -125,79 | 107,749  | 0,809    | -0,00075 | -0,2528 | -18,4437 | 49-4 | 1       |
| 49 | 0       | Lastkomb b | Combination | Min | -442,72 | -144,696 | -0,055   | -0,0015  | -0,113  | -66,0969 | 49-1 | 0       |
| 49 | 0,25    | Lastkomb b | Combination | Min | -443,06 | -136,134 | -0,055   | -0,0015  | -0,1035 | -38,3376 | 49-1 | 0,25    |
| 49 | 0,25    | Lastkomb b | Combination | Min | -480,32 | -112,002 | -0,00155 | -0,0015  | -0,1035 | -38,3376 | 49-2 | 0       |
| 49 | 0,75    | Lastkomb b | Combination | Min | -480,97 | -84,389  | -0,00155 | -0,0015  | -0,109  | -5,297   | 49-2 | 0,5     |
| 49 | 1,25    | Lastkomb b | Combination | Min | -481,65 | -67,264  | -0,00155 | -0,0015  | -0,117  | 9,2501   | 49-2 | 1       |
| 49 | 1,25    | Lastkomb b | Combination | Min | -521,77 | -39,976  | -0,363   | -0,0015  | -0,117  | 9,2501   | 49-3 | 0       |
| 49 | 1,624   | Lastkomb b | Combination | Min | -522,26 | -16,678  | -0,363   | -0,0015  | -0,0586 | 14,4858  | 49-3 | 0,374   |
| 49 | 1,624   | Lastkomb b | Combination | Min | -522,26 | -16,678  | -0,363   | -0,0015  | -0,0586 | 14,4858  | 49-3 | 0,374   |
| 49 | 1,937   | Lastkomb b | Combination | Min | -522,69 | -5,958   | -0,363   | -0,0015  | -0,0098 | 14,3639  | 49-3 | 0,687   |
| 49 | 2,25    | Lastkomb b | Combination | Min | -523,11 | 4,763    | -0,363   | -0,0015  | 0,039   | 9,7476   | 49-3 | 1       |

|    |         |            |             |     |         |          |         |          |         |          |      |         |
|----|---------|------------|-------------|-----|---------|----------|---------|----------|---------|----------|------|---------|
| 49 | 2,25    | Lastkomb b | Combination | Min | -566,48 | 13,847   | 0,349   | -0,0015  | 0,039   | 9,7476   | 49-4 | 0       |
| 49 | 2,7495  | Lastkomb b | Combination | Min | -567,14 | 30,955   | 0,349   | -0,0015  | -0,1524 | -8,6892  | 49-4 | 0,4995  |
| 49 | 3,24901 | Lastkomb b | Combination | Min | -567,81 | 48,063   | 0,349   | -0,0015  | -0,5297 | -43,9813 | 49-4 | 0,999   |
| 49 | 3,24901 | Lastkomb b | Combination | Min | -567,81 | 48,063   | 0,349   | -0,0015  | -0,5297 | -43,9813 | 49-4 | 0,999   |
| 49 | 3,25001 | Lastkomb b | Combination | Min | -567,82 | 48,098   | 0,349   | -0,0015  | -0,5306 | -44,089  | 49-4 | 1       |
| 50 | 0       | Lastkomb b | Combination | Max | 739,528 | -40,886  | -4,422  | 0,00016  | -1,4508 | -17,1725 | 50-1 | 0       |
| 50 | 0,25008 | Lastkomb b | Combination | Max | 739,384 | -32,315  | -4,422  | 0,00016  | -0,0163 | -2,9475  | 50-1 | 0,25008 |
| 50 | 0,25008 | Lastkomb b | Combination | Max | 726,485 | -32,293  | 0,149   | 0,00016  | -0,0163 | -2,9475  | 50-2 | 0       |
| 50 | 1,25038 | Lastkomb b | Combination | Max | 725,909 | 1,99     | 0,149   | 0,00016  | -0,1302 | 40,9071  | 50-2 | 1,0003  |
| 50 | 1,25038 | Lastkomb b | Combination | Max | 718,11  | 3,071    | -0,422  | 0,00016  | -0,1302 | 40,9071  | 50-3 | 0       |
| 50 | 1,43794 | Lastkomb b | Combination | Max | 718,002 | 37,31    | -0,422  | 0,00016  | -0,0425 | 34,857   | 50-3 | 0,18756 |
| 50 | 2,25068 | Lastkomb b | Combination | Max | 717,533 | 65,165   | -0,422  | 0,00016  | 0,4201  | 5,4721   | 50-3 | 1,0003  |
| 50 | 2,25068 | Lastkomb b | Combination | Max | 714,744 | 75,869   | -0,443  | 0,00016  | 0,4201  | 5,4721   | 50-4 | 0       |
| 50 | 2,87487 | Lastkomb b | Combination | Max | 714,384 | 125,544  | -0,443  | 0,00016  | 0,8231  | -35,132  | 50-4 | 0,62419 |
| 50 | 2,87487 | Lastkomb b | Combination | Max | 714,384 | 125,544  | -0,443  | 0,00016  | 0,8231  | -35,132  | 50-4 | 0,62419 |
| 50 | 2,87587 | Lastkomb b | Combination | Max | 714,384 | 125,578  | -0,443  | 0,00016  | 0,8238  | -35,1871 | 50-4 | 0,62519 |
| 50 | 0       | Lastkomb b | Combination | Min | 389,006 | -119,214 | -11,938 | -0,00058 | -3,0018 | -38,5373 | 50-1 | 0       |
| 50 | 0,25008 | Lastkomb b | Combination | Min | 388,861 | -110,643 | -11,938 | -0,00058 | -0,5268 | -18,166  | 50-1 | 0,25008 |
| 50 | 0,25008 | Lastkomb b | Combination | Min | 354,968 | -82,601  | -0,313  | -0,00058 | -0,5268 | -18,166  | 50-2 | 0       |
| 50 | 1,25038 | Lastkomb b | Combination | Min | 354,65  | -37,833  | -0,313  | -0,00058 | -0,2178 | 5,5067   | 50-2 | 1,0003  |
| 50 | 1,25038 | Lastkomb b | Combination | Min | 323,097 | -9,308   | -0,629  | -0,00058 | -0,2178 | 5,5067   | 50-3 | 0       |
| 50 | 1,43794 | Lastkomb b | Combination | Min | 323,248 | 4,35     | -0,629  | -0,00058 | -0,1073 | 5,1571   | 50-3 | 0,18756 |
| 50 | 2,25068 | Lastkomb b | Combination | Min | 322,78  | 32,205   | -0,629  | -0,00058 | 0,2846  | -13,0043 | 50-3 | 1,0003  |
| 50 | 2,25068 | Lastkomb b | Combination | Min | 293,574 | 32,191   | -0,647  | -0,00058 | 0,2846  | -13,0043 | 50-4 | 0       |
| 50 | 2,87487 | Lastkomb b | Combination | Min | 293,473 | 53,584   | -0,647  | -0,00058 | 0,5609  | -67,259  | 50-4 | 0,62419 |
| 50 | 2,87487 | Lastkomb b | Combination | Min | 293,473 | 53,584   | -0,647  | -0,00058 | 0,5609  | -67,259  | 50-4 | 0,62419 |
| 50 | 2,87587 | Lastkomb b | Combination | Min | 293,473 | 53,618   | -0,647  | -0,00058 | 0,5614  | -67,3668 | 50-4 | 0,62519 |
| 51 | 0       | Lastkomb b | Combination | Max | 2006,78 | -38,702  | -0,441  | -0,0081  | 0,8122  | -28,8654 | 51-1 | 0       |
| 51 | 0,37512 | Lastkomb b | Combination | Max | 2006,58 | -25,471  | -0,441  | -0,0081  | 1,0543  | -11,3055 | 51-1 | 0,37512 |
| 51 | 0,37512 | Lastkomb b | Combination | Max | 1974,39 | -25,564  | -0,432  | -0,0081  | 1,0543  | -11,3055 | 51-2 | 0       |
| 51 | 1,37545 | Lastkomb b | Combination | Max | 1973,87 | 9,718    | -0,432  | -0,0081  | 1,7155  | 27,1383  | 51-2 | 1,00033 |
| 51 | 1,37545 | Lastkomb b | Combination | Max | 1948,42 | 9,718    | -0,344  | -0,0081  | 1,7155  | 27,1383  | 51-3 | 0       |
| 51 | 1,43797 | Lastkomb b | Combination | Max | 1948,39 | 38,916   | -0,344  | -0,0081  | 1,7827  | 25,1191  | 51-3 | 0,06252 |
| 51 | 2,37578 | Lastkomb b | Combination | Max | 1947,91 | 71,993   | -0,344  | -0,0081  | 2,791   | -15,228  | 51-3 | 1,00033 |
| 51 | 2,37578 | Lastkomb b | Combination | Max | 1929,09 | 83,191   | 2,99    | -0,0081  | 2,791   | -15,228  | 51-4 | 0       |

|    |         |            |             |     |         |          |          |          |         |           |      |         |
|----|---------|------------|-------------|-----|---------|----------|----------|----------|---------|-----------|------|---------|
| 51 | 2,87495 | Lastkomb b | Combination | Max | 1928,83 | 128,682  | 2,99     | -0,0081  | 2,6366  | -48,4462  | 51-4 | 0,49916 |
| 51 | 2,87495 | Lastkomb b | Combination | Max | 1928,83 | 128,682  | 2,99     | -0,0081  | 2,6366  | -48,4462  | 51-4 | 0,49916 |
| 51 | 2,87595 | Lastkomb b | Combination | Max | 1928,83 | 128,717  | 2,99     | -0,0081  | 2,6383  | -48,5038  | 51-4 | 0,50016 |
| 51 | 0       | Lastkomb b | Combination | Min | 1481,71 | -118,555 | -0,647   | -0,0154  | 0,5494  | -58,197   | 51-1 | 0       |
| 51 | 0,37512 | Lastkomb b | Combination | Min | 1481,52 | -105,324 | -0,647   | -0,0154  | 0,7148  | -29,6902  | 51-1 | 0,37512 |
| 51 | 0,37512 | Lastkomb b | Combination | Min | 1466,92 | -77,77   | -0,664   | -0,0154  | 0,7148  | -29,6902  | 51-2 | 0       |
| 51 | 1,37545 | Lastkomb b | Combination | Min | 1466,4  | -32,003  | -0,664   | -0,0154  | 1,1468  | -9,677    | 51-2 | 1,00033 |
| 51 | 1,37545 | Lastkomb b | Combination | Min | 1456,77 | -3,878   | -1,075   | -0,0154  | 1,1468  | -9,677    | 51-3 | 0       |
| 51 | 1,43797 | Lastkomb b | Combination | Min | 1456,73 | 5,569    | -1,075   | -0,0154  | 1,1746  | -10,1538  | 51-3 | 0,06252 |
| 51 | 2,37578 | Lastkomb b | Combination | Min | 1456,25 | 38,646   | -1,075   | -0,0154  | 1,592   | -38,0794  | 51-3 | 1,00033 |
| 51 | 2,37578 | Lastkomb b | Combination | Min | 1451,54 | 39,145   | -1,78    | -0,0154  | 1,592   | -38,0794  | 51-4 | 0       |
| 51 | 2,87495 | Lastkomb b | Combination | Min | 1451,28 | 56,751   | -1,78    | -0,0154  | 1,2964  | -80,2743  | 51-4 | 0,49916 |
| 51 | 2,87495 | Lastkomb b | Combination | Min | 1451,28 | 56,751   | -1,78    | -0,0154  | 1,2964  | -80,2743  | 51-4 | 0,49916 |
| 51 | 2,87595 | Lastkomb b | Combination | Min | 1451,28 | 56,787   | -1,78    | -0,0154  | 1,2934  | -80,3679  | 51-4 | 0,50016 |
| 52 | 0       | Lastkomb b | Combination | Max | -554,31 | -8,1E-17 | 1,54     | 0,0133   | 1,3316  | 0         | 52-1 | 0       |
| 52 | 2,01421 | Lastkomb b | Combination | Max | -553,01 | 0        | 0,211    | 0,0133   | 0,7623  | 8,198E-17 | 52-1 | 2,01421 |
| 52 | 4,02842 | Lastkomb b | Combination | Max | -551,7  | 8,14E-17 | -1,118   | 0,0133   | 4,6812  | 0         | 52-1 | 4,02842 |
| 52 | 0       | Lastkomb b | Combination | Min | -1001,9 | -8,1E-17 | 0,048    | 0,0115   | -0,479  | 0         | 52-1 | 0       |
| 52 | 2,01421 | Lastkomb b | Combination | Min | -1000,6 | 0        | -1,281   | 0,0115   | -0,4325 | 8,198E-17 | 52-1 | 2,01421 |
| 52 | 4,02842 | Lastkomb b | Combination | Min | -999,25 | 8,14E-17 | -2,61    | 0,0115   | 0,481   | 0         | 52-1 | 4,02842 |
| 53 | 0       | Lastkomb b | Combination | Max | 758,945 | -0,858   | -0,00543 | -0,00057 | -0,0137 | 0         | 53-1 | 0       |
| 53 | 1,99966 | Lastkomb b | Combination | Max | 758,115 | -1,4E-16 | -0,00543 | -0,00057 | -0,0028 | 0,8578    | 53-1 | 1,99966 |
| 53 | 3,99932 | Lastkomb b | Combination | Max | 757,286 | 0,858    | -0,00543 | -0,00057 | 0,0113  | 4,462E-16 | 53-1 | 3,99932 |
| 53 | 0       | Lastkomb b | Combination | Min | 385,664 | -0,858   | -0,00768 | -0,001   | -0,0194 | 0         | 53-1 | 0       |
| 53 | 1,99966 | Lastkomb b | Combination | Min | 384,834 | -1,4E-16 | -0,00768 | -0,001   | -0,0042 | 0,8578    | 53-1 | 1,99966 |
| 53 | 3,99932 | Lastkomb b | Combination | Min | 384,004 | 0,858    | -0,00768 | -0,001   | 0,008   | 4,462E-16 | 53-1 | 3,99932 |
| 54 | 0       | Lastkomb b | Combination | Max | -238,78 | -5,2E-17 | 0,735    | -0,0012  | -0,4639 | 0         | 54-1 | 0       |
| 54 | 2,05026 | Lastkomb b | Combination | Max | -237,92 | 0        | -0,116   | -0,0012  | -0,5956 | 5,343E-17 | 54-1 | 2,05026 |
| 54 | 4,10052 | Lastkomb b | Combination | Max | -237,05 | 5,21E-17 | -0,967   | -0,0012  | 2,3873  | 0         | 54-1 | 4,10052 |
| 54 | 0       | Lastkomb b | Combination | Min | -551,78 | -5,2E-17 | -0,205   | -0,0023  | -1,992  | 0         | 54-1 | 0       |
| 54 | 2,05026 | Lastkomb b | Combination | Min | -550,92 | 0        | -1,057   | -0,0023  | -1,3218 | 5,343E-17 | 54-1 | 2,05026 |
| 54 | 4,10052 | Lastkomb b | Combination | Min | -550,05 | 5,21E-17 | -1,908   | -0,0023  | -0,1501 | 0         | 54-1 | 4,10052 |
| 55 | 0       | Lastkomb b | Combination | Max | 329,318 | -3,7E-17 | 0,706    | 0,00059  | 0,3712  | 0         | 55-1 | 0       |
| 55 | 2,03548 | Lastkomb b | Combination | Max | 328,715 | 0        | 0,105    | 0,00059  | -0,4546 | 3,748E-17 | 55-1 | 2,03548 |
| 55 | 4,07096 | Lastkomb b | Combination | Max | 328,112 | 3,68E-17 | -0,496   | 0,00059  | 0,8509  | 0         | 55-1 | 4,07096 |



|    |         |            |             |     |         |          |         |          |         |            |      |         |
|----|---------|------------|-------------|-----|---------|----------|---------|----------|---------|------------|------|---------|
| 55 | 0       | Lastkomb b | Combination | Min | 81,303  | -3,7E-17 | 0,00381 | 0,00031  | -1,6549 | 0          | 55-1 | 0       |
| 55 | 2,03548 | Lastkomb b | Combination | Min | 80,7    | 0        | -0,598  | 0,00031  | -1,101  | 3,748E-17  | 55-1 | 2,03548 |
| 55 | 4,07096 | Lastkomb b | Combination | Min | 80,097  | 3,68E-17 | -1,199  | 0,00031  | -0,1947 | 0          | 55-1 | 4,07096 |
| 56 | 0       | Lastkomb b | Combination | Max | 93,196  | -3,7E-17 | 0,969   | -0,00045 | 0,4663  | 0          | 56-1 | 0       |
| 56 | 2,08697 | Lastkomb b | Combination | Max | 93,829  | 0        | 0,368   | -0,00045 | -0,5132 | 3,843E-17  | 56-1 | 2,08697 |
| 56 | 4,17393 | Lastkomb b | Combination | Max | 94,462  | 3,68E-17 | -0,234  | -0,00045 | 0,7675  | 0          | 56-1 | 4,17393 |
| 56 | 0       | Lastkomb b | Combination | Min | -136,88 | -3,7E-17 | 0,288   | -0,00073 | -0,6062 | 0          | 56-1 | 0       |
| 56 | 2,08697 | Lastkomb b | Combination | Min | -136,25 | 0        | -0,313  | -0,00073 | -1,091  | 3,843E-17  | 56-1 | 2,08697 |
| 56 | 4,17393 | Lastkomb b | Combination | Min | -135,61 | 3,68E-17 | -0,914  | -0,00073 | -1,2312 | 0          | 56-1 | 4,17393 |
| 57 | 0       | Lastkomb b | Combination | Max | -55,105 | -3,7E-17 | 1,12    | 0,0007   | 1,2153  | 0          | 57-1 | 0       |
| 57 | 2,0719  | Lastkomb b | Combination | Max | -55,729 | 0        | 0,519   | 0,0007   | -0,4554 | 3,815E-17  | 57-1 | 2,0719  |
| 57 | 4,1438  | Lastkomb b | Combination | Max | -56,354 | 3,68E-17 | -0,082  | 0,0007   | 0,1252  | 0          | 57-1 | 4,1438  |
| 57 | 0       | Lastkomb b | Combination | Min | -294,78 | -3,7E-17 | 0,402   | 0,00047  | -0,7024 | 0          | 57-1 | 0       |
| 57 | 2,0719  | Lastkomb b | Combination | Min | -295,4  | 0        | -0,2    | 0,00047  | -1,0288 | 3,815E-17  | 57-1 | 2,0719  |
| 57 | 4,1438  | Lastkomb b | Combination | Min | -296,03 | 3,68E-17 | -0,801  | 0,00047  | -1,0323 | 0          | 57-1 | 4,1438  |
| 58 | 0       | Lastkomb b | Combination | Max | 488,697 | -3,7E-17 | 1,258   | -7,2E-06 | 1,1595  | 0          | 58-1 | 0       |
| 58 | 2,12382 | Lastkomb b | Combination | Max | 489,351 | 0        | 0,657   | -7,2E-06 | -0,425  | 3,911E-17  | 58-1 | 2,12382 |
| 58 | 4,24765 | Lastkomb b | Combination | Max | 490,005 | 3,68E-17 | 0,056   | -7,2E-06 | 0,1574  | 0          | 58-1 | 4,24765 |
| 58 | 0       | Lastkomb b | Combination | Min | 224     | -3,7E-17 | 0,625   | -0,00011 | 0,1586  | 0          | 58-1 | 0       |
| 58 | 2,12382 | Lastkomb b | Combination | Min | 224,654 | 0        | 0,024   | -0,00011 | -1,0108 | 3,911E-17  | 58-1 | 2,12382 |
| 58 | 4,24765 | Lastkomb b | Combination | Min | 225,308 | 3,68E-17 | -0,577  | -0,00011 | -1,7674 | 0          | 58-1 | 4,24765 |
| 59 | 0       | Lastkomb b | Combination | Max | -392,8  | -6E-17   | 2,117   | 0,002    | 2,9514  | 0          | 59-1 | 0       |
| 59 | 2,10852 | Lastkomb b | Combination | Max | -393,85 | 0        | 1,138   | 0,002    | -0,4447 | 6,318E-17  | 59-1 | 2,10852 |
| 59 | 4,21704 | Lastkomb b | Combination | Max | -394,9  | 5,99E-17 | 0,159   | 0,002    | -0,3566 | 0          | 59-1 | 4,21704 |
| 59 | 0       | Lastkomb b | Combination | Min | -681,12 | -6E-17   | 1,169   | 0,0016   | 0,2808  | 0          | 59-1 | 0       |
| 59 | 2,10852 | Lastkomb b | Combination | Min | -682,17 | 0        | 0,191   | 0,0016   | -1,2052 | 6,318E-17  | 59-1 | 2,10852 |
| 59 | 4,21704 | Lastkomb b | Combination | Min | -683,22 | 5,99E-17 | -0,788  | 0,0016   | -1,9062 | 0          | 59-1 | 4,21704 |
| 60 | 0       | Lastkomb b | Combination | Max | 865,841 | -1,028   | 0,00328 | 0,00023  | 0,0085  | 0          | 60-1 | 0       |
| 60 | 2,16164 | Lastkomb b | Combination | Max | 866,996 | 1,55E-16 | 0,00328 | 0,00023  | 0,0015  | 1,111      | 60-1 | 2,16164 |
| 60 | 4,32328 | Lastkomb b | Combination | Max | 868,15  | 1,028    | 0,00328 | 0,00023  | -0,0051 | -7,457E-16 | 60-1 | 4,32328 |
| 60 | 0       | Lastkomb b | Combination | Min | 533,62  | -1,028   | 0,0028  | 7,8E-05  | 0,0069  | 0          | 60-1 | 0       |
| 60 | 2,16164 | Lastkomb b | Combination | Min | 534,775 | 1,55E-16 | 0,0028  | 7,8E-05  | 0,00072 | 1,111      | 60-1 | 2,16164 |
| 60 | 4,32328 | Lastkomb b | Combination | Min | 535,929 | 1,028    | 0,0028  | 7,8E-05  | -0,0062 | -7,457E-16 | 60-1 | 4,32328 |
| 61 | 0       | Lastkomb b | Combination | Max | -661,17 | -8,5E-17 | 3,491   | -0,0016  | 6,1615  | 0          | 61-1 | 0       |
| 61 | 2,14615 | Lastkomb b | Combination | Max | -662,7  | 0        | 2,108   | -0,0016  | 0,2326  | 9,084E-17  | 61-1 | 2,14615 |

|    |         |            |             |     |         |          |         |         |         |           |      |         |
|----|---------|------------|-------------|-----|---------|----------|---------|---------|---------|-----------|------|---------|
| 61 | 4,2923  | Lastkomb b | Combination | Max | -664,24 | 8,47E-17 | 0,726   | -0,0016 | -0,5841 | 0         | 61-1 | 4,2923  |
| 61 | 0       | Lastkomb b | Combination | Min | -1038,1 | -8,5E-17 | 1,908   | -0,0025 | 1,4141  | 0         | 61-1 | 0       |
| 61 | 2,14615 | Lastkomb b | Combination | Min | -1039,6 | 0        | 0,525   | -0,0025 | -1,1971 | 9,084E-17 | 61-1 | 2,14615 |
| 61 | 4,2923  | Lastkomb b | Combination | Min | -1041,2 | 8,47E-17 | -0,857  | -0,0025 | -2,9459 | 0         | 61-1 | 4,2923  |
| 62 | 0       | Lastkomb b | Combination | Max | 1210,8  | -1,389   | 0,00278 | 0,0031  | -0,0058 | 0         | 62-1 | 0       |
| 62 | 2,19965 | Lastkomb b | Combination | Max | 1212,41 | -2E-16   | 0,00278 | 0,0031  | -0,0095 | 1,5279    | 62-1 | 2,19965 |
| 62 | 4,3993  | Lastkomb b | Combination | Max | 1214,02 | 1,389    | 0,00278 | 0,0031  | -0,0102 | 8,968E-16 | 62-1 | 4,3993  |
| 62 | 0       | Lastkomb b | Combination | Min | 789,506 | -1,389   | 0,00023 | 0,0021  | -0,0092 | 0         | 62-1 | 0       |
| 62 | 2,19965 | Lastkomb b | Combination | Min | 791,115 | -2E-16   | 0,00023 | 0,0021  | -0,0139 | 1,5279    | 62-1 | 2,19965 |
| 62 | 4,3993  | Lastkomb b | Combination | Min | 792,724 | 1,389    | 0,00023 | 0,0021  | -0,02   | 8,968E-16 | 62-1 | 4,3993  |
| 63 | 0       | Lastkomb b | Combination | Max | -892,14 | -1E-16   | 3,4     | 0,0025  | 9,9557  | 0         | 63-1 | 0       |
| 63 | 2,18391 | Lastkomb b | Combination | Max | -894,1  | 0        | 1,691   | 0,0025  | 4,3963  | 1,143E-16 | 63-1 | 2,18391 |
| 63 | 4,36782 | Lastkomb b | Combination | Max | -896,05 | 1,05E-16 | -0,018  | 0,0025  | 6,0482  | 0         | 63-1 | 4,36782 |
| 63 | 0       | Lastkomb b | Combination | Min | -1343,3 | -1E-16   | 1,017   | 0,0019  | 2,8682  | 0         | 63-1 | 0       |
| 63 | 2,18391 | Lastkomb b | Combination | Min | -1345,2 | 0        | -0,692  | 0,0019  | 2,3851  | 1,143E-16 | 63-1 | 2,18391 |
| 63 | 4,36782 | Lastkomb b | Combination | Min | -1347,2 | 1,05E-16 | -2,402  | 0,0019  | 2,5694  | 0         | 63-1 | 4,36782 |
| 64 | 0       | Lastkomb b | Combination | Max | 505,295 | -3,504   | -0,049  | 0,0028  | -0,1576 | -5,5635   | 64-1 | 0       |
| 64 | 0,47918 | Lastkomb b | Combination | Max | 505,298 | -3,128   | -0,049  | 0,0028  | -0,1331 | -3,9745   | 64-1 | 0,47918 |
| 64 | 0,95836 | Lastkomb b | Combination | Max | 505,3   | -2,752   | -0,049  | 0,0028  | -0,1085 | -2,5656   | 64-1 | 0,95836 |
| 64 | 1,43754 | Lastkomb b | Combination | Max | 505,303 | -2,377   | -0,049  | 0,0028  | -0,0768 | -1,3367   | 64-1 | 1,43754 |
| 64 | 1,91672 | Lastkomb b | Combination | Max | 505,306 | -2,001   | -0,049  | 0,0028  | -0,0446 | -0,2879   | 64-1 | 1,91672 |
| 64 | 2,3959  | Lastkomb b | Combination | Max | 505,309 | -1,625   | -0,049  | 0,0028  | -0,0124 | 0,6132    | 64-1 | 2,3959  |
| 64 | 2,87508 | Lastkomb b | Combination | Max | 505,311 | -1,25    | -0,049  | 0,0028  | 0,0198  | 1,8823    | 64-1 | 2,87508 |
| 64 | 3,35425 | Lastkomb b | Combination | Max | 505,314 | -0,874   | -0,049  | 0,0028  | 0,052   | 2,9714    | 64-1 | 3,35425 |
| 64 | 3,83343 | Lastkomb b | Combination | Max | 505,317 | -0,498   | -0,049  | 0,0028  | 0,0842  | 3,8804    | 64-1 | 3,83343 |
| 64 | 4,31261 | Lastkomb b | Combination | Max | 505,319 | -0,122   | -0,049  | 0,0028  | 0,1167  | 4,6094    | 64-1 | 4,31261 |
| 64 | 4,79179 | Lastkomb b | Combination | Max | 505,322 | 0,253    | -0,049  | 0,0028  | 0,1496  | 5,1596    | 64-1 | 4,79179 |
| 64 | 5,27097 | Lastkomb b | Combination | Max | 505,325 | 0,629    | -0,049  | 0,0028  | 0,1826  | 5,5414    | 64-1 | 5,27097 |
| 64 | 5,75015 | Lastkomb b | Combination | Max | 505,328 | 1,005    | -0,049  | 0,0028  | 0,2159  | 5,7432    | 64-1 | 5,75015 |
| 64 | 0       | Lastkomb b | Combination | Min | 94,476  | -4,742   | -0,071  | 0,0024  | -0,2012 | -8,733    | 64-1 | 0       |
| 64 | 0,47918 | Lastkomb b | Combination | Min | 94,478  | -4,366   | -0,071  | 0,0024  | -0,1706 | -6,5696   | 64-1 | 0,47918 |
| 64 | 0,95836 | Lastkomb b | Combination | Min | 94,481  | -3,99    | -0,071  | 0,0024  | -0,14   | -4,5863   | 64-1 | 0,95836 |
| 64 | 1,43754 | Lastkomb b | Combination | Min | 94,484  | -3,615   | -0,071  | 0,0024  | -0,1115 | -2,783    | 64-1 | 1,43754 |
| 64 | 1,91672 | Lastkomb b | Combination | Min | 94,487  | -3,239   | -0,071  | 0,0024  | -0,0846 | -1,2727   | 64-1 | 1,91672 |
| 64 | 2,3959  | Lastkomb b | Combination | Min | 94,489  | -2,863   | -0,071  | 0,0024  | -0,0603 | -0,2949   | 64-1 | 2,3959  |

|    |         |            |             |     |         |        |         |         |         |         |      |         |
|----|---------|------------|-------------|-----|---------|--------|---------|---------|---------|---------|------|---------|
| 64 | 2,87508 | Lastkomb b | Combination | Min | 94,492  | -2,488 | -0,071  | 0,0024  | -0,0369 | 0,5029  | 64-1 | 2,87508 |
| 64 | 3,35425 | Lastkomb b | Combination | Min | 94,495  | -2,112 | -0,071  | 0,0024  | -0,0135 | 1,1207  | 64-1 | 3,35425 |
| 64 | 3,83343 | Lastkomb b | Combination | Min | 94,497  | -1,736 | -0,071  | 0,0024  | 0,0098  | 1,5584  | 64-1 | 3,83343 |
| 64 | 4,31261 | Lastkomb b | Combination | Min | 94,5    | -1,36  | -0,071  | 0,0024  | 0,0332  | 1,8161  | 64-1 | 4,31261 |
| 64 | 4,79179 | Lastkomb b | Combination | Min | 94,503  | -0,985 | -0,071  | 0,0024  | 0,0565  | 1,8938  | 64-1 | 4,79179 |
| 64 | 5,27097 | Lastkomb b | Combination | Min | 94,506  | -0,609 | -0,071  | 0,0024  | 0,0799  | 1,7914  | 64-1 | 5,27097 |
| 64 | 5,75015 | Lastkomb b | Combination | Min | 94,508  | -0,233 | -0,071  | 0,0024  | 0,1032  | 1,5066  | 64-1 | 5,75015 |
| 65 | 0       | Lastkomb b | Combination | Max | 1390,83 | -3,778 | -0,0047 | -0,0017 | -0,0376 | 2,2629  | 65-1 | 0       |
| 65 | 0,47918 | Lastkomb b | Combination | Max | 1390,83 | -3,18  | -0,0047 | -0,0017 | -0,0354 | 4,0885  | 65-1 | 0,47918 |
| 65 | 0,95836 | Lastkomb b | Combination | Max | 1390,84 | -2,581 | -0,0047 | -0,0017 | -0,0331 | 5,7228  | 65-1 | 0,95836 |
| 65 | 1,43754 | Lastkomb b | Combination | Max | 1390,84 | -1,982 | -0,0047 | -0,0017 | -0,0309 | 7,0736  | 65-1 | 1,43754 |
| 65 | 1,91672 | Lastkomb b | Combination | Max | 1390,85 | -1,383 | -0,0047 | -0,0017 | -0,0286 | 8,1374  | 65-1 | 1,91672 |
| 65 | 2,3959  | Lastkomb b | Combination | Max | 1390,85 | -0,784 | -0,0047 | -0,0017 | -0,0261 | 8,9142  | 65-1 | 2,3959  |
| 65 | 2,87508 | Lastkomb b | Combination | Max | 1390,86 | -0,185 | -0,0047 | -0,0017 | -0,0236 | 9,5309  | 65-1 | 2,87508 |
| 65 | 3,35425 | Lastkomb b | Combination | Max | 1390,86 | 0,414  | -0,0047 | -0,0017 | -0,0136 | 9,9336  | 65-1 | 3,35425 |
| 65 | 3,83343 | Lastkomb b | Combination | Max | 1390,86 | 1,012  | -0,0047 | -0,0017 | -0,0023 | 10,0494 | 65-1 | 3,83343 |
| 65 | 4,31261 | Lastkomb b | Combination | Max | 1390,87 | 1,611  | -0,0047 | -0,0017 | 0,0089  | 9,8782  | 65-1 | 4,31261 |
| 65 | 4,79179 | Lastkomb b | Combination | Max | 1390,87 | 2,21   | -0,0047 | -0,0017 | 0,0201  | 9,42    | 65-1 | 4,79179 |
| 65 | 5,27097 | Lastkomb b | Combination | Max | 1390,88 | 2,809  | -0,0047 | -0,0017 | 0,0314  | 8,6749  | 65-1 | 5,27097 |
| 65 | 5,75015 | Lastkomb b | Combination | Max | 1390,88 | 3,408  | -0,0047 | -0,0017 | 0,0426  | 7,6428  | 65-1 | 5,75015 |
| 65 | 0       | Lastkomb b | Combination | Min | 624,676 | -4,921 | -0,023  | -0,0028 | -0,1231 | -0,9421 | 65-1 | 0       |
| 65 | 0,47918 | Lastkomb b | Combination | Min | 624,681 | -4,322 | -0,023  | -0,0028 | -0,1155 | 0,8988  | 65-1 | 0,47918 |
| 65 | 0,95836 | Lastkomb b | Combination | Min | 624,685 | -3,723 | -0,023  | -0,0028 | -0,1078 | 2,4526  | 65-1 | 0,95836 |
| 65 | 1,43754 | Lastkomb b | Combination | Min | 624,689 | -3,124 | -0,023  | -0,0028 | -0,1003 | 3,7195  | 65-1 | 1,43754 |
| 65 | 1,91672 | Lastkomb b | Combination | Min | 624,694 | -2,526 | -0,023  | -0,0028 | -0,0929 | 4,6995  | 65-1 | 1,91672 |
| 65 | 2,3959  | Lastkomb b | Combination | Min | 624,698 | -1,927 | -0,023  | -0,0028 | -0,0855 | 5,3925  | 65-1 | 2,3959  |
| 65 | 2,87508 | Lastkomb b | Combination | Min | 624,702 | -1,328 | -0,023  | -0,0028 | -0,078  | 5,7985  | 65-1 | 2,87508 |
| 65 | 3,35425 | Lastkomb b | Combination | Min | 624,707 | -0,729 | -0,023  | -0,0028 | -0,0738 | 5,9055  | 65-1 | 3,35425 |
| 65 | 3,83343 | Lastkomb b | Combination | Min | 624,711 | -0,13  | -0,023  | -0,0028 | -0,0706 | 5,6465  | 65-1 | 3,83343 |
| 65 | 4,31261 | Lastkomb b | Combination | Min | 624,715 | 0,469  | -0,023  | -0,0028 | -0,0673 | 5,1006  | 65-1 | 4,31261 |
| 65 | 4,79179 | Lastkomb b | Combination | Min | 624,72  | 1,068  | -0,023  | -0,0028 | -0,064  | 4,2677  | 65-1 | 4,79179 |
| 65 | 5,27097 | Lastkomb b | Combination | Min | 624,724 | 1,666  | -0,023  | -0,0028 | -0,0608 | 3,1479  | 65-1 | 5,27097 |
| 65 | 5,75015 | Lastkomb b | Combination | Min | 624,728 | 2,265  | -0,023  | -0,0028 | -0,0575 | 1,7411  | 65-1 | 5,75015 |
| 66 | 0       | Lastkomb b | Combination | Max | 1605,77 | -3,139 | -0,052  | 0,00045 | -0,2073 | 6,7529  | 66-1 | 0       |
| 66 | 0,47918 | Lastkomb b | Combination | Max | 1605,77 | -2,476 | -0,052  | 0,00045 | -0,1822 | 8,1779  | 66-1 | 0,47918 |



|    |         |            |             |     |         |        |        |          |         |         |      |         |
|----|---------|------------|-------------|-----|---------|--------|--------|----------|---------|---------|------|---------|
| 66 | 0,95836 | Lastkomb b | Combination | Max | 1605,78 | -1,814 | -0,052 | 0,00045  | -0,157  | 9,2854  | 66-1 | 0,95836 |
| 66 | 1,43754 | Lastkomb b | Combination | Max | 1605,78 | -1,151 | -0,052 | 0,00045  | -0,1318 | 10,0824 | 66-1 | 1,43754 |
| 66 | 1,91672 | Lastkomb b | Combination | Max | 1605,79 | -0,488 | -0,052 | 0,00045  | -0,1067 | 10,6207 | 66-1 | 1,91672 |
| 66 | 2,3959  | Lastkomb b | Combination | Max | 1605,79 | 0,174  | -0,052 | 0,00045  | -0,0764 | 10,8638 | 66-1 | 2,3959  |
| 66 | 2,87508 | Lastkomb b | Combination | Max | 1605,8  | 0,837  | -0,052 | 0,00045  | -0,0429 | 10,8447 | 66-1 | 2,87508 |
| 66 | 3,35425 | Lastkomb b | Combination | Max | 1605,8  | 1,499  | -0,052 | 0,00045  | -0,0095 | 10,5924 | 66-1 | 3,35425 |
| 66 | 3,83343 | Lastkomb b | Combination | Max | 1605,81 | 2,162  | -0,052 | 0,00045  | 0,0239  | 10,0772 | 66-1 | 3,83343 |
| 66 | 4,31261 | Lastkomb b | Combination | Max | 1605,81 | 2,825  | -0,052 | 0,00045  | 0,0573  | 9,2771  | 66-1 | 4,31261 |
| 66 | 4,79179 | Lastkomb b | Combination | Max | 1605,82 | 3,487  | -0,052 | 0,00045  | 0,0908  | 8,1903  | 66-1 | 4,79179 |
| 66 | 5,27097 | Lastkomb b | Combination | Max | 1605,82 | 4,15   | -0,052 | 0,00045  | 0,1257  | 6,7883  | 66-1 | 5,27097 |
| 66 | 5,75015 | Lastkomb b | Combination | Max | 1605,83 | 4,813  | -0,052 | 0,00045  | 0,1643  | 5,0687  | 66-1 | 5,75015 |
| 66 | 0       | Lastkomb b | Combination | Min | 638,683 | -4,359 | -0,081 | -0,00023 | -0,3133 | 1,4448  | 66-1 | 0       |
| 66 | 0,47918 | Lastkomb b | Combination | Min | 638,688 | -3,696 | -0,081 | -0,00023 | -0,278  | 3,114   | 66-1 | 0,47918 |
| 66 | 0,95836 | Lastkomb b | Combination | Min | 638,693 | -3,033 | -0,081 | -0,00023 | -0,2428 | 4,4656  | 66-1 | 0,95836 |
| 66 | 1,43754 | Lastkomb b | Combination | Min | 638,698 | -2,371 | -0,081 | -0,00023 | -0,2076 | 5,4055  | 66-1 | 1,43754 |
| 66 | 1,91672 | Lastkomb b | Combination | Min | 638,703 | -1,708 | -0,081 | -0,00023 | -0,1723 | 6,0033  | 66-1 | 1,91672 |
| 66 | 2,3959  | Lastkomb b | Combination | Min | 638,707 | -1,046 | -0,081 | -0,00023 | -0,1371 | 6,2835  | 66-1 | 2,3959  |
| 66 | 2,87508 | Lastkomb b | Combination | Min | 638,712 | -0,383 | -0,081 | -0,00023 | -0,1019 | 6,2462  | 66-1 | 2,87508 |
| 66 | 3,35425 | Lastkomb b | Combination | Min | 638,717 | 0,28   | -0,081 | -0,00023 | -0,0704 | 5,8915  | 66-1 | 3,35425 |
| 66 | 3,83343 | Lastkomb b | Combination | Min | 638,722 | 0,942  | -0,081 | -0,00023 | -0,0421 | 5,2192  | 66-1 | 3,83343 |
| 66 | 4,31261 | Lastkomb b | Combination | Min | 638,727 | 1,605  | -0,081 | -0,00023 | -0,0139 | 4,2294  | 66-1 | 4,31261 |
| 66 | 4,79179 | Lastkomb b | Combination | Min | 638,731 | 2,268  | -0,081 | -0,00023 | 0,0143  | 2,922   | 66-1 | 4,79179 |
| 66 | 5,27097 | Lastkomb b | Combination | Min | 638,736 | 2,93   | -0,081 | -0,00023 | 0,0426  | 1,2972  | 66-1 | 5,27097 |
| 66 | 5,75015 | Lastkomb b | Combination | Min | 638,741 | 3,593  | -0,081 | -0,00023 | 0,0708  | -0,6451 | 66-1 | 5,75015 |
| 67 | 0       | Lastkomb b | Combination | Max | 1189,48 | -1,361 | -0,027 | 0,0025   | -0,1348 | 7,5136  | 67-1 | 0       |
| 67 | 0,47918 | Lastkomb b | Combination | Max | 1189,48 | -0,858 | -0,027 | 0,0025   | -0,1209 | 8,0942  | 67-1 | 0,47918 |
| 67 | 0,95836 | Lastkomb b | Combination | Max | 1189,49 | -0,354 | -0,027 | 0,0025   | -0,1025 | 8,4337  | 67-1 | 0,95836 |
| 67 | 1,43754 | Lastkomb b | Combination | Max | 1189,49 | 0,149  | -0,027 | 0,0025   | -0,0841 | 8,532   | 67-1 | 1,43754 |
| 67 | 1,91672 | Lastkomb b | Combination | Max | 1189,49 | 0,652  | -0,027 | 0,0025   | -0,0657 | 8,3892  | 67-1 | 1,91672 |
| 67 | 2,3959  | Lastkomb b | Combination | Max | 1189,5  | 1,155  | -0,027 | 0,0025   | -0,0472 | 8,0053  | 67-1 | 2,3959  |
| 67 | 2,87508 | Lastkomb b | Combination | Max | 1189,5  | 1,658  | -0,027 | 0,0025   | -0,0288 | 7,4532  | 67-1 | 2,87508 |
| 67 | 3,35425 | Lastkomb b | Combination | Max | 1189,5  | 2,162  | -0,027 | 0,0025   | -0,0104 | 6,7854  | 67-1 | 3,35425 |
| 67 | 3,83343 | Lastkomb b | Combination | Max | 1189,51 | 2,665  | -0,027 | 0,0025   | 0,0116  | 5,8766  | 67-1 | 3,83343 |
| 67 | 4,31261 | Lastkomb b | Combination | Max | 1189,51 | 3,168  | -0,027 | 0,0025   | 0,0352  | 4,7287  | 67-1 | 4,31261 |
| 67 | 4,79179 | Lastkomb b | Combination | Max | 1189,52 | 3,671  | -0,027 | 0,0025   | 0,0587  | 3,4276  | 67-1 | 4,79179 |

|    |         |            |             |     |         |        |        |          |         |              |         |
|----|---------|------------|-------------|-----|---------|--------|--------|----------|---------|--------------|---------|
| 67 | 5,27097 | Lastkomb b | Combination | Max | 1189,52 | 4,175  | -0,027 | 0,0025   | 0,0825  | 1,8854 67-1  | 5,27097 |
| 67 | 5,75015 | Lastkomb b | Combination | Max | 1189,52 | 4,678  | -0,027 | 0,0025   | 0,1085  | 0,102 67-1   | 5,75015 |
| 67 | 0       | Lastkomb b | Combination | Min | 265,863 | -2,433 | -0,054 | 0,002    | -0,2336 | 1,7608 67-1  | 0       |
| 67 | 0,47918 | Lastkomb b | Combination | Min | 265,866 | -1,93  | -0,054 | 0,002    | -0,2084 | 2,6105 67-1  | 0,47918 |
| 67 | 0,95836 | Lastkomb b | Combination | Min | 265,87  | -1,426 | -0,054 | 0,002    | -0,1833 | 3,219 67-1   | 0,95836 |
| 67 | 1,43754 | Lastkomb b | Combination | Min | 265,874 | -0,923 | -0,054 | 0,002    | -0,1582 | 3,5864 67-1  | 1,43754 |
| 67 | 1,91672 | Lastkomb b | Combination | Min | 265,877 | -0,42  | -0,054 | 0,002    | -0,1331 | 3,7127 67-1  | 1,91672 |
| 67 | 2,3959  | Lastkomb b | Combination | Min | 265,881 | 0,083  | -0,054 | 0,002    | -0,108  | 3,5979 67-1  | 2,3959  |
| 67 | 2,87508 | Lastkomb b | Combination | Min | 265,885 | 0,587  | -0,054 | 0,002    | -0,0862 | 3,2419 67-1  | 2,87508 |
| 67 | 3,35425 | Lastkomb b | Combination | Min | 265,888 | 1,09   | -0,054 | 0,002    | -0,0672 | 2,6448 67-1  | 3,35425 |
| 67 | 3,83343 | Lastkomb b | Combination | Min | 265,892 | 1,593  | -0,054 | 0,002    | -0,0482 | 1,8065 67-1  | 3,83343 |
| 67 | 4,31261 | Lastkomb b | Combination | Min | 265,896 | 2,096  | -0,054 | 0,002    | -0,0292 | 0,7271 67-1  | 4,31261 |
| 67 | 4,79179 | Lastkomb b | Combination | Min | 265,899 | 2,6    | -0,054 | 0,002    | -0,0102 | -0,5934 67-1 | 4,79179 |
| 67 | 5,27097 | Lastkomb b | Combination | Min | 265,903 | 3,103  | -0,054 | 0,002    | 0,0062  | -2,1551 67-1 | 5,27097 |
| 67 | 5,75015 | Lastkomb b | Combination | Min | 265,907 | 3,606  | -0,054 | 0,002    | 0,0204  | -3,9579 67-1 | 5,75015 |
| 68 | 0       | Lastkomb b | Combination | Max | 239,58  | -0,796 | -0,12  | -0,00053 | -0,2116 | 3,0592 68-1  | 0       |
| 68 | 0,47918 | Lastkomb b | Combination | Max | 239,582 | -0,42  | -0,12  | -0,00053 | -0,1541 | 3,38 68-1    | 0,47918 |
| 68 | 0,95836 | Lastkomb b | Combination | Max | 239,585 | -0,044 | -0,12  | -0,00053 | -0,0966 | 3,5207 68-1  | 0,95836 |
| 68 | 1,43754 | Lastkomb b | Combination | Max | 239,588 | 0,332  | -0,12  | -0,00053 | -0,0383 | 3,4814 68-1  | 1,43754 |
| 68 | 1,91672 | Lastkomb b | Combination | Max | 239,591 | 0,707  | -0,12  | -0,00053 | 0,0209  | 3,2621 68-1  | 1,91672 |
| 68 | 2,3959  | Lastkomb b | Combination | Max | 239,593 | 1,083  | -0,12  | -0,00053 | 0,0875  | 2,8641 68-1  | 2,3959  |
| 68 | 2,87508 | Lastkomb b | Combination | Max | 239,596 | 1,459  | -0,12  | -0,00053 | 0,1548  | 2,4315 68-1  | 2,87508 |
| 68 | 3,35425 | Lastkomb b | Combination | Max | 239,599 | 1,834  | -0,12  | -0,00053 | 0,2221  | 1,8188 68-1  | 3,35425 |
| 68 | 3,83343 | Lastkomb b | Combination | Max | 239,601 | 2,21   | -0,12  | -0,00053 | 0,2893  | 1,026 68-1   | 3,83343 |
| 68 | 4,31261 | Lastkomb b | Combination | Max | 239,604 | 2,586  | -0,12  | -0,00053 | 0,3587  | 0,0532 68-1  | 4,31261 |
| 68 | 4,79179 | Lastkomb b | Combination | Max | 239,607 | 2,962  | -0,12  | -0,00053 | 0,4291  | -1,0996 68-1 | 4,79179 |
| 68 | 5,27097 | Lastkomb b | Combination | Max | 239,61  | 3,337  | -0,12  | -0,00053 | 0,4995  | -2,4325 68-1 | 5,27097 |
| 68 | 5,75015 | Lastkomb b | Combination | Max | 239,612 | 3,713  | -0,12  | -0,00053 | 0,5699  | -3,9454 68-1 | 5,75015 |
| 68 | 0       | Lastkomb b | Combination | Min | -459,12 | -1,538 | -0,15  | -0,00082 | -0,3233 | -1,4784 68-1 | 0       |
| 68 | 0,47918 | Lastkomb b | Combination | Min | -459,12 | -1,162 | -0,15  | -0,00082 | -0,2513 | -0,9254 68-1 | 0,47918 |
| 68 | 0,95836 | Lastkomb b | Combination | Min | -459,12 | -0,786 | -0,15  | -0,00082 | -0,1817 | -0,5523 68-1 | 0,95836 |
| 68 | 1,43754 | Lastkomb b | Combination | Min | -459,11 | -0,41  | -0,15  | -0,00082 | -0,1142 | -0,3593 68-1 | 1,43754 |
| 68 | 1,91672 | Lastkomb b | Combination | Min | -459,11 | -0,035 | -0,15  | -0,00082 | -0,0467 | -0,3464 68-1 | 1,91672 |
| 68 | 2,3959  | Lastkomb b | Combination | Min | -459,11 | 0,341  | -0,15  | -0,00082 | 0,0205  | -0,5134 68-1 | 2,3959  |
| 68 | 2,87508 | Lastkomb b | Combination | Min | -459,11 | 0,717  | -0,15  | -0,00082 | 0,0876  | -0,8605 68-1 | 2,87508 |

|    |         |            |             |     |         |         |       |          |         |          |      |         |
|----|---------|------------|-------------|-----|---------|---------|-------|----------|---------|----------|------|---------|
| 68 | 3,35425 | Lastkomb b | Combination | Min | -459,1  | 1,092   | -0,15 | -0,00082 | 0,1548  | -1,3877  | 68-1 | 3,35425 |
| 68 | 3,83343 | Lastkomb b | Combination | Min | -459,1  | 1,468   | -0,15 | -0,00082 | 0,2142  | -2,0949  | 68-1 | 3,83343 |
| 68 | 4,31261 | Lastkomb b | Combination | Min | -459,1  | 1,844   | -0,15 | -0,00082 | 0,2716  | -2,9821  | 68-1 | 4,31261 |
| 68 | 4,79179 | Lastkomb b | Combination | Min | -459,1  | 2,22    | -0,15 | -0,00082 | 0,3289  | -4,0493  | 68-1 | 4,79179 |
| 68 | 5,27097 | Lastkomb b | Combination | Min | -459,09 | 2,595   | -0,15 | -0,00082 | 0,3863  | -5,2966  | 68-1 | 5,27097 |
| 68 | 5,75015 | Lastkomb b | Combination | Min | -459,09 | 2,971   | -0,15 | -0,00082 | 0,4437  | -6,7239  | 68-1 | 5,75015 |
| 69 | 0       | Lastkomb b | Combination | Max | -1018,6 | -0,856  | 0,092 | 0,0043   | 0,1583  | 0,2413   | 69-1 | 0       |
| 69 | 0,47918 | Lastkomb b | Combination | Max | -1018,6 | -0,194  | 0,092 | 0,0043   | 0,1157  | 0,5188   | 69-1 | 0,47918 |
| 69 | 0,95836 | Lastkomb b | Combination | Max | -1018,6 | 0,469   | 0,092 | 0,0043   | 0,0732  | 0,4787   | 69-1 | 0,95836 |
| 69 | 1,43754 | Lastkomb b | Combination | Max | -1018,6 | 1,132   | 0,092 | 0,0043   | 0,04    | 0,1696   | 69-1 | 1,43754 |
| 69 | 1,91672 | Lastkomb b | Combination | Max | -1018,6 | 1,794   | 0,092 | 0,0043   | 0,0105  | -0,1245  | 69-1 | 1,91672 |
| 69 | 2,3959  | Lastkomb b | Combination | Max | -1018,6 | 2,457   | 0,092 | 0,0043   | -0,0186 | -0,7146  | 69-1 | 2,3959  |
| 69 | 2,87508 | Lastkomb b | Combination | Max | -1018,6 | 3,119   | 0,092 | 0,0043   | -0,0436 | -1,6222  | 69-1 | 2,87508 |
| 69 | 0       | Lastkomb b | Combination | Min | -1511,2 | -2,181  | 0,033 | 0,0031   | 0,0351  | -3,9089  | 69-1 | 0       |
| 69 | 0,47918 | Lastkomb b | Combination | Min | -1511,2 | -1,518  | 0,033 | 0,0031   | 0,0191  | -3,1444  | 69-1 | 0,47918 |
| 69 | 0,95836 | Lastkomb b | Combination | Min | -1511,2 | -0,855  | 0,033 | 0,0031   | 0,0026  | -2,6999  | 69-1 | 0,95836 |
| 69 | 1,43754 | Lastkomb b | Combination | Min | -1511,2 | -0,193  | 0,033 | 0,0031   | -0,0143 | -2,5799  | 69-1 | 1,43754 |
| 69 | 1,91672 | Lastkomb b | Combination | Min | -1511,2 | 0,47    | 0,033 | 0,0031   | -0,0326 | -2,7814  | 69-1 | 1,91672 |
| 69 | 2,3959  | Lastkomb b | Combination | Min | -1511,2 | 1,133   | 0,033 | 0,0031   | -0,064  | -3,303   | 69-1 | 2,3959  |
| 69 | 2,87508 | Lastkomb b | Combination | Min | -1511,2 | 1,795   | 0,033 | 0,0031   | -0,1073 | -4,1421  | 69-1 | 2,87508 |
| 70 | 0       | Lastkomb b | Combination | Max | -1018,8 | 6,616   | 0,092 | 0,0043   | -0,0433 | -1,0084  | 70-1 | 0       |
| 70 | 0,47918 | Lastkomb b | Combination | Max | -1018,8 | 7,278   | 0,092 | 0,0043   | -0,0681 | -4,3019  | 70-1 | 0,47918 |
| 70 | 0,95836 | Lastkomb b | Combination | Max | -1018,8 | 7,941   | 0,092 | 0,0043   | -0,0925 | -6,6837  | 70-1 | 0,95836 |
| 70 | 1,43754 | Lastkomb b | Combination | Max | -1018,8 | 8,604   | 0,092 | 0,0043   | -0,1084 | -9,383   | 70-1 | 1,43754 |
| 70 | 1,91672 | Lastkomb b | Combination | Max | -1018,8 | 9,266   | 0,092 | 0,0043   | -0,1244 | -12,3998 | 70-1 | 1,91672 |
| 70 | 2,3959  | Lastkomb b | Combination | Max | -1018,8 | 9,929   | 0,092 | 0,0043   | -0,1404 | -15,7341 | 70-1 | 2,3959  |
| 70 | 2,87508 | Lastkomb b | Combination | Max | -1018,8 | 10,591  | 0,092 | 0,0043   | -0,1563 | -19,3859 | 70-1 | 2,87508 |
| 70 | 0       | Lastkomb b | Combination | Min | -1511,4 | 3,976   | 0,033 | 0,0031   | -0,107  | -3,6934  | 70-1 | 0       |
| 70 | 0,47918 | Lastkomb b | Combination | Min | -1511,4 | 4,639   | 0,033 | 0,0031   | -0,1511 | -6,132   | 70-1 | 0,47918 |
| 70 | 0,95836 | Lastkomb b | Combination | Min | -1511,4 | 5,302   | 0,033 | 0,0031   | -0,1953 | -9,2487  | 70-1 | 0,95836 |
| 70 | 1,43754 | Lastkomb b | Combination | Min | -1511,4 | 5,964   | 0,033 | 0,0031   | -0,2394 | -12,8176 | 70-1 | 1,43754 |
| 70 | 1,91672 | Lastkomb b | Combination | Min | -1511,4 | 6,627   | 0,033 | 0,0031   | -0,2835 | -16,858  | 70-1 | 1,91672 |
| 70 | 2,3959  | Lastkomb b | Combination | Min | -1511,4 | 7,29    | 0,033 | 0,0031   | -0,3276 | -21,2159 | 70-1 | 2,3959  |
| 70 | 2,87508 | Lastkomb b | Combination | Min | -1511,4 | 7,952   | 0,033 | 0,0031   | -0,3717 | -25,9915 | 70-1 | 2,87508 |
| 71 | 0       | Lastkomb b | Combination | Max | 494,417 | -58,688 | 0,507 | 0,00016  | 0,8415  | -41,6378 | 71-1 | 0       |



|    |         |            |             |     |         |          |        |          |         |          |      |         |
|----|---------|------------|-------------|-----|---------|----------|--------|----------|---------|----------|------|---------|
| 71 | 0,25003 | Lastkomb b | Combination | Max | 494,193 | -50,121  | 0,507  | 0,00016  | 0,7155  | -27,501  | 71-1 | 0,25003 |
| 71 | 0,25003 | Lastkomb b | Combination | Max | 500,29  | -50,065  | 0,544  | 0,00016  | 0,7155  | -27,501  | 71-2 | 0       |
| 71 | 1,25015 | Lastkomb b | Combination | Max | 499,397 | -15,795  | 0,544  | 0,00016  | 0,1763  | 38,9937  | 71-2 | 1,00012 |
| 71 | 1,25015 | Lastkomb b | Combination | Max | 508,939 | -15,795  | 0,374  | 0,00016  | 0,1763  | 38,9937  | 71-3 | 0       |
| 71 | 1,62419 | Lastkomb b | Combination | Max | 508,605 | 10,71    | 0,374  | 0,00016  | 0,073   | 37,7296  | 71-3 | 0,37404 |
| 71 | 1,62419 | Lastkomb b | Combination | Max | 508,605 | 10,71    | 0,374  | 0,00016  | 0,073   | 37,7296  | 71-3 | 0,37404 |
| 71 | 2,25027 | Lastkomb b | Combination | Max | 508,046 | 32,163   | 0,374  | 0,00016  | -0,0425 | 38,901   | 71-3 | 1,00012 |
| 71 | 2,25027 | Lastkomb b | Combination | Max | 521,118 | 42,89    | 1,176  | 0,00016  | -0,0425 | 38,901   | 71-4 | 0       |
| 71 | 3,24939 | Lastkomb b | Combination | Max | 520,226 | 104,689  | 1,176  | 0,00016  | -0,7419 | -23,2242 | 71-4 | 0,99912 |
| 71 | 3,24939 | Lastkomb b | Combination | Max | 520,226 | 104,689  | 1,176  | 0,00016  | -0,7419 | -23,2242 | 71-4 | 0,99912 |
| 71 | 3,25039 | Lastkomb b | Combination | Max | 520,226 | 104,723  | 1,176  | 0,00016  | -0,7426 | -23,2734 | 71-4 | 1,00012 |
| 71 | 0       | Lastkomb b | Combination | Min | 34,51   | -148,128 | 0,34   | -0,00031 | 0,5558  | -81,6998 | 71-1 | 0       |
| 71 | 0,25003 | Lastkomb b | Combination | Min | 34,287  | -139,56  | 0,34   | -0,00031 | 0,4707  | -49,0915 | 71-1 | 0,25003 |
| 71 | 0,25003 | Lastkomb b | Combination | Min | 69,755  | -115,592 | 0,351  | -0,00031 | 0,4707  | -49,0915 | 71-2 | 0       |
| 71 | 1,25015 | Lastkomb b | Combination | Min | 69,024  | -70,835  | 0,351  | -0,00031 | 0,103   | 2,8972   | 71-2 | 1,00012 |
| 71 | 1,25015 | Lastkomb b | Combination | Min | 103,987 | -43,031  | 0,16   | -0,00031 | 0,103   | 2,8972   | 71-3 | 0       |
| 71 | 1,62419 | Lastkomb b | Combination | Min | 103,815 | -19,727  | 0,16   | -0,00031 | 0,00084 | 8,2438   | 71-3 | 0,37404 |
| 71 | 1,62419 | Lastkomb b | Combination | Min | 103,815 | -19,727  | 0,16   | -0,00031 | 0,00084 | 8,2438   | 71-3 | 0,37404 |
| 71 | 2,25027 | Lastkomb b | Combination | Min | 103,256 | 1,726    | 0,16   | -0,00031 | -0,2184 | 3,5594   | 71-3 | 1,00012 |
| 71 | 2,25027 | Lastkomb b | Combination | Min | 139,019 | 13,567   | 0,652  | -0,00031 | -0,2184 | 3,5594   | 71-4 | 0       |
| 71 | 3,24939 | Lastkomb b | Combination | Min | 138,289 | 47,803   | 0,652  | -0,00031 | -1,2174 | -48,2862 | 71-4 | 0,99912 |
| 71 | 3,24939 | Lastkomb b | Combination | Min | 138,289 | 47,803   | 0,652  | -0,00031 | -1,2174 | -48,2862 | 71-4 | 0,99912 |
| 71 | 3,25039 | Lastkomb b | Combination | Min | 138,288 | 47,837   | 0,652  | -0,00031 | -1,2186 | -48,3622 | 71-4 | 1,00012 |
| 72 | 0       | Lastkomb b | Combination | Max | -160,33 | -46,195  | -0,415 | -0,001   | -0,3013 | -16,8196 | 72-1 | 0       |
| 72 | 0,5     | Lastkomb b | Combination | Max | -161,03 | -29,071  | -0,415 | -0,001   | -0,0794 | 5,6786   | 72-1 | 0,5     |
| 72 | 1       | Lastkomb b | Combination | Max | -161,73 | -11,946  | -0,415 | -0,001   | 0,292   | 45,2815  | 72-1 | 1       |
| 72 | 1       | Lastkomb b | Combination | Max | -198,23 | -11,946  | 0,242  | -0,001   | 0,292   | 45,2815  | 72-2 | 0       |
| 72 | 1,312   | Lastkomb b | Combination | Max | -198,67 | 8,778    | 0,242  | -0,001   | 0,2165  | 44,5545  | 72-2 | 0,312   |
| 72 | 1,624   | Lastkomb b | Combination | Max | -199,11 | 19,464   | 0,242  | -0,001   | 0,1411  | 44,3607  | 72-2 | 0,624   |
| 72 | 1,624   | Lastkomb b | Combination | Max | -199,11 | 19,464   | 0,242  | -0,001   | 0,1411  | 44,3607  | 72-2 | 0,624   |
| 72 | 2       | Lastkomb b | Combination | Max | -199,63 | 32,342   | 0,242  | -0,001   | 0,0699  | 46,2437  | 72-2 | 1       |
| 72 | 2       | Lastkomb b | Combination | Max | -237,85 | 43,07    | -0,09  | -0,001   | 0,0699  | 46,2437  | 72-3 | 0       |
| 72 | 2,5     | Lastkomb b | Combination | Max | -238,55 | 87,291   | -0,09  | -0,001   | 0,1174  | 7,2241   | 72-3 | 0,5     |
| 72 | 3       | Lastkomb b | Combination | Max | -239,25 | 104,416  | -0,09  | -0,001   | 0,1692  | -23,8157 | 72-3 | 1       |
| 72 | 3       | Lastkomb b | Combination | Max | -279,54 | 115,068  | -0,067 | -0,001   | 0,1692  | -23,8157 | 72-4 | 0       |

|    |       |            |             |     |         |          |        |          |         |               |       |
|----|-------|------------|-------------|-----|---------|----------|--------|----------|---------|---------------|-------|
| 72 | 3,249 | Lastkomb b | Combination | Max | -279,89 | 147,886  | -0,067 | -0,001   | 0,1917  | -37,5108 72-4 | 0,249 |
| 72 | 3,249 | Lastkomb b | Combination | Max | -279,89 | 147,886  | -0,067 | -0,001   | 0,1917  | -37,5108 72-4 | 0,249 |
| 72 | 3,25  | Lastkomb b | Combination | Max | -279,89 | 147,921  | -0,067 | -0,001   | 0,1917  | -37,5701 72-4 | 0,25  |
| 72 | 0     | Lastkomb b | Combination | Min | -614,94 | -115,38  | -0,872 | -0,002   | -0,5795 | -42,5913 72-1 | 0     |
| 72 | 0,5   | Lastkomb b | Combination | Min | -615,64 | -87,768  | -0,872 | -0,002   | -0,1698 | -8,3387 72-1  | 0,5   |
| 72 | 1     | Lastkomb b | Combination | Min | -616,33 | -70,643  | -0,872 | -0,002   | 0,059   | 9,3037 72-1   | 1     |
| 72 | 1     | Lastkomb b | Combination | Min | -668,5  | -43,306  | 0,032  | -0,002   | 0,059   | 9,3037 72-2   | 0     |
| 72 | 1,312 | Lastkomb b | Combination | Min | -668,93 | -22,133  | 0,032  | -0,002   | 0,0491  | 13,1558 72-2  | 0,312 |
| 72 | 1,624 | Lastkomb b | Combination | Min | -669,37 | -11,447  | 0,032  | -0,002   | 0,039   | 12,245 72-2   | 0,624 |
| 72 | 1,624 | Lastkomb b | Combination | Min | -669,37 | -11,447  | 0,032  | -0,002   | 0,039   | 12,245 72-2   | 0,624 |
| 72 | 2     | Lastkomb b | Combination | Min | -669,89 | 1,431    | 0,032  | -0,002   | 0,0245  | 6,2802 72-2   | 1     |
| 72 | 2     | Lastkomb b | Combination | Min | -726,65 | 16,56    | -0,126 | -0,002   | 0,0245  | 6,2802 72-3   | 0     |
| 72 | 2,5   | Lastkomb b | Combination | Min | -727,34 | 33,684   | -0,126 | -0,002   | 0,0799  | -9,1522 72-3  | 0,5   |
| 72 | 3     | Lastkomb b | Combination | Min | -728,04 | 50,809   | -0,126 | -0,002   | 0,125   | -42,8095 72-3 | 1     |
| 72 | 3     | Lastkomb b | Combination | Min | -789,92 | 50,736   | -0,105 | -0,002   | 0,125   | -42,8095 72-4 | 0     |
| 72 | 3,249 | Lastkomb b | Combination | Min | -790,26 | 59,264   | -0,105 | -0,002   | 0,143   | -72,9229 72-4 | 0,249 |
| 72 | 3,249 | Lastkomb b | Combination | Min | -790,26 | 59,264   | -0,105 | -0,002   | 0,143   | -72,9229 72-4 | 0,249 |
| 72 | 3,25  | Lastkomb b | Combination | Min | -790,26 | 59,299   | -0,105 | -0,002   | 0,1431  | -73,057 72-4  | 0,25  |
| 73 | 0     | Lastkomb b | Combination | Max | 639,566 | -55,467  | -0,069 | -3,9E-05 | 0,1918  | -32,5807 73-1 | 0     |
| 73 | 0,375 | Lastkomb b | Combination | Max | 639,014 | -42,625  | -0,069 | -3,9E-05 | 0,226   | -13,94 73-1   | 0,375 |
| 73 | 0,75  | Lastkomb b | Combination | Max | 638,461 | -29,783  | -0,069 | -3,9E-05 | 0,261   | 18,6351 73-1  | 0,75  |
| 73 | 0,75  | Lastkomb b | Combination | Max | 600,781 | -29,727  | -0,058 | -3,9E-05 | 0,261   | 18,6351 73-2  | 0     |
| 73 | 1,187 | Lastkomb b | Combination | Max | 600,138 | -14,761  | -0,058 | -3,9E-05 | 0,3003  | 29,6815 73-2  | 0,437 |
| 73 | 1,624 | Lastkomb b | Combination | Max | 599,494 | 0,204    | -0,058 | -3,9E-05 | 0,3395  | 47,1757 73-2  | 0,874 |
| 73 | 1,624 | Lastkomb b | Combination | Max | 599,494 | 0,204    | -0,058 | -3,9E-05 | 0,3395  | 47,1757 73-2  | 0,874 |
| 73 | 1,75  | Lastkomb b | Combination | Max | 599,309 | 4,519    | -0,058 | -3,9E-05 | 0,3508  | 51,0052 73-2  | 1     |
| 73 | 1,75  | Lastkomb b | Combination | Max | 565,581 | 13,522   | -0,519 | -3,9E-05 | 0,3508  | 51,0052 73-3  | 0     |
| 73 | 2,25  | Lastkomb b | Combination | Max | 564,845 | 57,624   | -0,519 | -3,9E-05 | 0,8947  | 26,8188 73-3  | 0,5   |
| 73 | 2,75  | Lastkomb b | Combination | Max | 564,109 | 74,747   | -0,519 | -3,9E-05 | 1,457   | 6,3962 73-3   | 1     |
| 73 | 2,75  | Lastkomb b | Combination | Max | 534,011 | 85,552   | 9,126  | -3,9E-05 | 1,457   | 6,3962 73-4   | 0     |
| 73 | 3,249 | Lastkomb b | Combination | Max | 533,276 | 128,397  | 9,126  | -3,9E-05 | -1,059  | -27,4551 73-4 | 0,499 |
| 73 | 3,249 | Lastkomb b | Combination | Max | 533,276 | 128,397  | 9,126  | -3,9E-05 | -1,059  | -27,4551 73-4 | 0,499 |
| 73 | 3,25  | Lastkomb b | Combination | Max | 533,275 | 128,431  | 9,126  | -3,9E-05 | -1,0629 | -27,508 73-4  | 0,5   |
| 73 | 0     | Lastkomb b | Combination | Min | 333,049 | -125,855 | -0,106 | -0,00026 | 0,1432  | -66,6714 73-1 | 0     |
| 73 | 0,375 | Lastkomb b | Combination | Min | 332,497 | -113,013 | -0,106 | -0,00026 | 0,1707  | -33,28 73-1   | 0,375 |

|    |       |            |             |     |         |          |        |          |         |           |      |       |
|----|-------|------------|-------------|-----|---------|----------|--------|----------|---------|-----------|------|-------|
| 73 | 0,75  | Lastkomb b | Combination | Min | 331,945 | -100,17  | -0,106 | -0,00026 | 0,1983  | -7,2311   | 73-1 | 0,75  |
| 73 | 0,75  | Lastkomb b | Combination | Min | 280,367 | -72,969  | -0,091 | -0,00026 | 0,1983  | -7,2311   | 73-2 | 0     |
| 73 | 1,187 | Lastkomb b | Combination | Min | 279,708 | -47,515  | -0,091 | -0,00026 | 0,2261  | 4,5632    | 73-2 | 0,437 |
| 73 | 1,624 | Lastkomb b | Combination | Min | 279,064 | -32,55   | -0,091 | -0,00026 | 0,2533  | 9,8175    | 73-2 | 0,874 |
| 73 | 1,624 | Lastkomb b | Combination | Min | 279,064 | -32,55   | -0,091 | -0,00026 | 0,2533  | 9,8175    | 73-2 | 0,874 |
| 73 | 1,75  | Lastkomb b | Combination | Min | 278,879 | -28,235  | -0,091 | -0,00026 | 0,2612  | 10,1131   | 73-2 | 1     |
| 73 | 1,75  | Lastkomb b | Combination | Min | 229,297 | -2,241   | -1,124 | -0,00026 | 0,2612  | 10,1131   | 73-3 | 0     |
| 73 | 2,25  | Lastkomb b | Combination | Min | 228,545 | 16,897   | -1,124 | -0,00026 | 0,5381  | 3,5728    | 73-3 | 0,5   |
| 73 | 2,75  | Lastkomb b | Combination | Min | 227,809 | 34,02    | -1,124 | -0,00026 | 0,8141  | -12,9591  | 73-3 | 1     |
| 73 | 2,75  | Lastkomb b | Combination | Min | 179,717 | 34,094   | 3,836  | -0,00026 | 0,8141  | -12,9591  | 73-4 | 0     |
| 73 | 3,249 | Lastkomb b | Combination | Min | 178,93  | 51,182   | 3,836  | -0,00026 | -3,0968 | -58,3565  | 73-4 | 0,499 |
| 73 | 3,249 | Lastkomb b | Combination | Min | 178,93  | 51,182   | 3,836  | -0,00026 | -3,0968 | -58,3565  | 73-4 | 0,499 |
| 73 | 3,25  | Lastkomb b | Combination | Min | 178,929 | 51,217   | 3,836  | -0,00026 | -3,106  | -58,4697  | 73-4 | 0,5   |
| 74 | 0     | Lastkomb b | Combination | Max | -245,63 | 0        | 1,949  | 0,0031   | 2,8927  | 0         | 74-1 | 0     |
| 74 | 1,375 | Lastkomb b | Combination | Max | -245,05 | 0        | 1,949  | 0,0031   | 0,6096  | 0         | 74-1 | 1,375 |
| 74 | 2,75  | Lastkomb b | Combination | Max | -244,48 | 0        | 1,949  | 0,0031   | 0,0938  | 0         | 74-1 | 2,75  |
| 74 | 0     | Lastkomb b | Combination | Min | -414,32 | 0        | 0,345  | 0,0019   | 1,0422  | 0         | 74-1 | 0     |
| 74 | 1,375 | Lastkomb b | Combination | Min | -413,74 | 0        | 0,345  | 0,0019   | 0,1104  | 0         | 74-1 | 1,375 |
| 74 | 2,75  | Lastkomb b | Combination | Min | -413,17 | 0        | 0,345  | 0,0019   | -2,4665 | 0         | 74-1 | 2,75  |
| 75 | 0     | Lastkomb b | Combination | Max | 9,781   | -276,023 | 12,066 | 0        | 6,9459  | 3,816E-14 | 75-1 | 0     |
| 75 | 0,5   | Lastkomb b | Combination | Max | 9,071   | -257,622 | 12,066 | 0        | 0,9129  | 223,9297  | 75-1 | 0,5   |
| 75 | 1     | Lastkomb b | Combination | Max | 8,36    | -239,22  | 12,066 | 0        | -1,9116 | 438,6586  | 75-1 | 1     |
| 75 | 1     | Lastkomb b | Combination | Max | 21,686  | -237,822 | 9,791  | 1,8E-17  | 4,7995  | 438,6583  | 75-2 | 0     |
| 75 | 1,5   | Lastkomb b | Combination | Max | 20,976  | -219,42  | 9,791  | 1,8E-17  | -0,0348 | 633,6985  | 75-2 | 0,5   |
| 75 | 2     | Lastkomb b | Combination | Max | 20,266  | -201,019 | 9,791  | 1,8E-17  | -1,8593 | 819,5379  | 75-2 | 1     |
| 75 | 2     | Lastkomb b | Combination | Max | 33,84   | -198,222 | 10,297 | 1,7E-17  | 5,0887  | 819,5375  | 75-3 | 0     |
| 75 | 2,5   | Lastkomb b | Combination | Max | 33,129  | -179,82  | 10,297 | 1,7E-17  | -0,0205 | 985,6882  | 75-3 | 0,5   |
| 75 | 3     | Lastkomb b | Combination | Max | 32,419  | -161,419 | 10,297 | 1,7E-17  | -1,9323 | 1142,638  | 75-3 | 1     |
| 75 | 3     | Lastkomb b | Combination | Max | 46,717  | -157,224 | 10,965 | 3,3E-17  | 5,4063  | 1142,6377 | 75-4 | 0     |
| 75 | 3,5   | Lastkomb b | Combination | Max | 46,006  | -138,822 | 10,965 | 3,3E-17  | -0,0258 | 1278,4876 | 75-4 | 0,5   |
| 75 | 4     | Lastkomb b | Combination | Max | 45,296  | -120,421 | 10,965 | 3,3E-17  | -2,0515 | 1406,3463 | 75-4 | 1     |
| 75 | 4     | Lastkomb b | Combination | Max | 60,615  | -114,827 | 11,83  | 3,2E-17  | 5,815   | 1406,346  | 75-5 | 0     |
| 75 | 4,5   | Lastkomb b | Combination | Max | 59,904  | -96,426  | 11,83  | 3,2E-17  | -0,034  | 1506,4087 | 75-5 | 0,5   |
| 75 | 5     | Lastkomb b | Combination | Max | 59,194  | -78,024  | 11,83  | 3,2E-17  | -2,2066 | 1604,4771 | 75-5 | 1     |
| 75 | 5     | Lastkomb b | Combination | Max | 75,839  | -71,032  | 12,936 | 3,2E-17  | 6,3425  | 1604,4767 | 75-6 | 0     |



|    |                 |             |     |         |          |        |          |         |            |       |     |
|----|-----------------|-------------|-----|---------|----------|--------|----------|---------|------------|-------|-----|
| 75 | 5,5 Lastkomb b  | Combination | Max | 75,129  | -52,63   | 12,936 | 3,2E-17  | -0,0425 | 1665,2564  | 75-6  | 0,5 |
| 75 | 6 Lastkomb b    | Combination | Max | 74,418  | -34,229  | 12,936 | 3,2E-17  | -2,4025 | 1732,8352  | 75-6  | 1   |
| 75 | 6 Lastkomb b    | Combination | Max | 92,724  | -25,838  | 14,302 | 3,2E-17  | 6,9977  | 1732,8349  | 75-7  | 0   |
| 75 | 6,5 Lastkomb b  | Combination | Max | 92,014  | -7,437   | 14,302 | 3,2E-17  | -0,0519 | 1759,9249  | 75-7  | 0,5 |
| 75 | 7 Lastkomb b    | Combination | Max | 91,303  | 10,965   | 14,302 | 3,2E-17  | -2,6433 | 1797,0143  | 75-7  | 1   |
| 75 | 7 Lastkomb b    | Combination | Max | 111,64  | 20,753   | 15,957 | 1,7E-17  | 7,7943  | 1797,0139  | 75-8  | 0   |
| 75 | 7,5 Lastkomb b  | Combination | Max | 110,929 | 39,155   | 15,957 | 1,7E-17  | -0,0624 | 1790,4144  | 75-8  | 0,5 |
| 75 | 8 Lastkomb b    | Combination | Max | 110,219 | 57,556   | 15,957 | 1,7E-17  | -2,934  | 1797,0142  | 75-8  | 1   |
| 75 | 8 Lastkomb b    | Combination | Max | 132,998 | 68,744   | 17,937 | 5E-17    | 8,7491  | 1797,0138  | 75-9  | 0   |
| 75 | 8,5 Lastkomb b  | Combination | Max | 132,288 | 87,145   | 17,937 | 5E-17    | -0,0742 | 1759,9249  | 75-9  | 0,5 |
| 75 | 9 Lastkomb b    | Combination | Max | 131,577 | 105,547  | 17,937 | 5E-17    | -3,2807 | 1732,8351  | 75-9  | 1   |
| 75 | 9 Lastkomb b    | Combination | Max | 157,262 | 125,956  | 20,281 | 4,9E-17  | 9,882   | 1732,8347  | 75-10 | 0   |
| 75 | 9,5 Lastkomb b  | Combination | Max | 156,552 | 144,358  | 20,281 | 4,9E-17  | -0,0875 | 1665,2562  | 75-10 | 0,5 |
| 75 | 10 Lastkomb b   | Combination | Max | 155,842 | 162,759  | 20,281 | 4,9E-17  | -3,6903 | 1604,4769  | 75-10 | 1   |
| 75 | 10 Lastkomb b   | Combination | Max | 184,957 | 186,935  | 23,05  | 3,2E-17  | 11,218  | 1604,4765  | 75-11 | 0   |
| 75 | 10,5 Lastkomb b | Combination | Max | 184,246 | 205,337  | 23,05  | 3,2E-17  | -0,1039 | 1506,4085  | 75-11 | 0,5 |
| 75 | 11 Lastkomb b   | Combination | Max | 183,536 | 223,738  | 23,05  | 3,2E-17  | -4,1749 | 1406,346   | 75-11 | 1   |
| 75 | 11 Lastkomb b   | Combination | Max | 216,68  | 246,516  | 26,197 | 1,7E-17  | 12,7712 | 1406,3456  | 75-12 | 0   |
| 75 | 11,5 Lastkomb b | Combination | Max | 215,969 | 264,918  | 26,197 | 1,7E-17  | -0,1101 | 1278,4872  | 75-12 | 0,5 |
| 75 | 12 Lastkomb b   | Combination | Max | 215,259 | 283,319  | 26,197 | 1,7E-17  | -4,7119 | 1142,6377  | 75-12 | 1   |
| 75 | 12 Lastkomb b   | Combination | Max | 253,101 | 304,698  | 30,517 | 3,3E-17  | 14,7059 | 1142,6373  | 75-13 | 0   |
| 75 | 12,5 Lastkomb b | Combination | Max | 252,39  | 323,1    | 30,517 | 3,3E-17  | -0,1891 | 985,6878   | 75-13 | 0,5 |
| 75 | 13 Lastkomb b   | Combination | Max | 251,68  | 341,501  | 30,517 | 3,3E-17  | -5,5261 | 819,5375   | 75-13 | 1   |
| 75 | 13 Lastkomb b   | Combination | Max | 295,373 | 362,477  | 33,044 | 1,8E-17  | 16,3834 | 819,537    | 75-14 | 0   |
| 75 | 13,5 Lastkomb b | Combination | Max | 294,662 | 380,879  | 33,044 | 1,8E-17  | 0,0146  | 633,698    | 75-14 | 0,5 |
| 75 | 14 Lastkomb b   | Combination | Max | 293,952 | 399,28   | 33,044 | 1,8E-17  | -5,7274 | 438,6582   | 75-14 | 1   |
| 75 | 14 Lastkomb b   | Combination | Max | 338,905 | 420,256  | 37,979 | 1,7E-17  | 18,2992 | 438,6577   | 75-15 | 0   |
| 75 | 14,5 Lastkomb b | Combination | Max | 338,195 | 438,658  | 37,979 | 1,7E-17  | -0,0514 | 223,9293   | 75-15 | 0,5 |
| 75 | 15 Lastkomb b   | Combination | Max | 337,484 | 457,059  | 37,979 | 1,7E-17  | -6,7425 | -3,116E-14 | 75-15 | 1   |
| 75 | 0 Lastkomb b    | Combination | Min | 3,653   | -457,06  | 4,506  | 0        | 2,5941  | 0          | 75-1  | 0   |
| 75 | 0,5 Lastkomb b  | Combination | Min | 2,943   | -438,659 | 4,506  | 0        | 0,3413  | 133,4113   | 75-1  | 0,5 |
| 75 | 1 Lastkomb b    | Combination | Min | 2,232   | -420,257 | 4,506  | 0        | -5,1201 | 257,6218   | 75-1  | 1   |
| 75 | 1 Lastkomb b    | Combination | Min | 7,204   | -399,281 | 3,649  | -3,6E-18 | 1,7897  | 257,6215   | 75-2  | 0   |
| 75 | 1,5 Lastkomb b  | Combination | Min | 6,494   | -380,88  | 3,649  | -3,6E-18 | -0,0959 | 372,6313   | 75-2  | 0,5 |
| 75 | 2 Lastkomb b    | Combination | Min | 5,784   | -362,478 | 3,649  | -3,6E-18 | -4,9914 | 478,4402   | 75-2  | 1   |

|    |      |            |             |     |        |          |        |          |          |           |       |     |
|----|------|------------|-------------|-----|--------|----------|--------|----------|----------|-----------|-------|-----|
| 75 | 2    | Lastkomb b | Combination | Min | 10,834 | -341,502 | 3,824  | -2,4E-18 | 1,8914   | 478,4399  | 75-3  | 0   |
| 75 | 2,5  | Lastkomb b | Combination | Min | 10,124 | -323,1   | 3,824  | -2,4E-18 | -0,0596  | 575,0481  | 75-3  | 0,5 |
| 75 | 3    | Lastkomb b | Combination | Min | 9,413  | -304,699 | 3,824  | -2,4E-18 | -5,2079  | 662,4556  | 75-3  | 1   |
| 75 | 3    | Lastkomb b | Combination | Min | 14,71  | -283,32  | 4,052  | 1,1E-17  | 2        | 662,4553  | 75-4  | 0   |
| 75 | 3,5  | Lastkomb b | Combination | Min | 14     | -264,918 | 4,052  | 1,1E-17  | -0,0759  | 740,662   | 75-4  | 0,5 |
| 75 | 4    | Lastkomb b | Combination | Min | 13,289 | -246,517 | 4,052  | 1,1E-17  | -5,5582  | 809,6679  | 75-4  | 1   |
| 75 | 4    | Lastkomb b | Combination | Min | 18,933 | -223,739 | 4,345  | 1E-17    | 2,1387   | 809,6675  | 75-5  | 0   |
| 75 | 4,5  | Lastkomb b | Combination | Min | 18,223 | -205,338 | 4,345  | 1E-17    | -0,1001  | 869,4727  | 75-5  | 0,5 |
| 75 | 5    | Lastkomb b | Combination | Min | 17,512 | -186,936 | 4,345  | 1E-17    | -6,0152  | 920,0771  | 75-5  | 1   |
| 75 | 5    | Lastkomb b | Combination | Min | 23,606 | -162,76  | 4,72   | 1,2E-17  | 2,3175   | 920,0767  | 75-6  | 0   |
| 75 | 5,5  | Lastkomb b | Combination | Min | 22,896 | -144,358 | 4,72   | 1,2E-17  | -0,1253  | 961,4804  | 75-6  | 0,5 |
| 75 | 6    | Lastkomb b | Combination | Min | 22,185 | -125,957 | 4,72   | 1,2E-17  | -6,5931  | 993,6832  | 75-6  | 1   |
| 75 | 6    | Lastkomb b | Combination | Min | 28,841 | -105,547 | 5,183  | 1E-17    | 2,5395   | 993,6828  | 75-7  | 0   |
| 75 | 6,5  | Lastkomb b | Combination | Min | 28,131 | -87,146  | 5,183  | 1E-17    | -0,1532  | 1016,6849 | 75-7  | 0,5 |
| 75 | 7    | Lastkomb b | Combination | Min | 27,421 | -68,744  | 5,183  | 1E-17    | -7,3041  | 1030,4862 | 75-7  | 1   |
| 75 | 7    | Lastkomb b | Combination | Min | 34,764 | -57,557  | 5,743  | -2,2E-18 | 2,8091   | 1030,4859 | 75-8  | 0   |
| 75 | 7,5  | Lastkomb b | Combination | Min | 34,054 | -39,156  | 5,743  | -2,2E-18 | -0,1843  | 1035,0864 | 75-8  | 0,5 |
| 75 | 8    | Lastkomb b | Combination | Min | 33,344 | -20,754  | 5,743  | -2,2E-18 | -8,1629  | 1030,4862 | 75-8  | 1   |
| 75 | 8    | Lastkomb b | Combination | Min | 41,514 | -10,965  | 6,413  | 1,3E-17  | 3,1322   | 1030,4858 | 75-9  | 0   |
| 75 | 8,5  | Lastkomb b | Combination | Min | 40,803 | 7,436    | 6,413  | 1,3E-17  | -0,2193  | 1016,6849 | 75-9  | 0,5 |
| 75 | 9    | Lastkomb b | Combination | Min | 40,093 | 25,838   | 6,413  | 1,3E-17  | -9,1877  | 993,6831  | 75-9  | 1   |
| 75 | 9    | Lastkomb b | Combination | Min | 49,246 | 34,228   | 7,206  | 1E-17    | 3,5153   | 993,6827  | 75-10 | 0   |
| 75 | 9,5  | Lastkomb b | Combination | Min | 48,535 | 52,63    | 7,206  | 1E-17    | -0,2585  | 961,4802  | 75-10 | 0,5 |
| 75 | 10   | Lastkomb b | Combination | Min | 47,825 | 71,031   | 7,206  | 1E-17    | -10,3991 | 920,0769  | 75-10 | 1   |
| 75 | 10   | Lastkomb b | Combination | Min | 58,137 | 78,023   | 8,142  | 1,2E-17  | 3,967    | 920,0765  | 75-11 | 0   |
| 75 | 10,5 | Lastkomb b | Combination | Min | 57,427 | 96,425   | 8,142  | 1,2E-17  | -0,3071  | 869,4725  | 75-11 | 0,5 |
| 75 | 11   | Lastkomb b | Combination | Min | 56,717 | 114,826  | 8,142  | 1,2E-17  | -11,8323 | 809,6677  | 75-11 | 1   |
| 75 | 11   | Lastkomb b | Combination | Min | 68,39  | 120,42   | 9,204  | -2,4E-18 | 4,4917   | 809,6673  | 75-12 | 0   |
| 75 | 11,5 | Lastkomb b | Combination | Min | 67,68  | 138,822  | 9,204  | -2,4E-18 | -0,3273  | 740,6617  | 75-12 | 0,5 |
| 75 | 12   | Lastkomb b | Combination | Min | 66,969 | 157,223  | 9,204  | -2,4E-18 | -13,4258 | 662,4553  | 75-12 | 1   |
| 75 | 12   | Lastkomb b | Combination | Min | 80,23  | 161,418  | 10,674 | 1,1E-17  | 5,1479   | 662,4549  | 75-13 | 0   |
| 75 | 12,5 | Lastkomb b | Combination | Min | 79,52  | 179,82   | 10,674 | 1,1E-17  | -0,5525  | 575,0478  | 75-13 | 0,5 |
| 75 | 13   | Lastkomb b | Combination | Min | 78,81  | 198,221  | 10,674 | 1,1E-17  | -15,8109 | 478,4399  | 75-13 | 1   |
| 75 | 13   | Lastkomb b | Combination | Min | 94,055 | 201,018  | 11,434 | -4,2E-18 | 5,7069   | 478,4395  | 75-14 | 0   |
| 75 | 13,5 | Lastkomb b | Combination | Min | 93,345 | 219,42   | 11,434 | -4,2E-18 | -0,1388  | 372,6308  | 75-14 | 0,5 |

|    |        |            |             |     |         |         |        |          |          |            |       |        |
|----|--------|------------|-------------|-----|---------|---------|--------|----------|----------|------------|-------|--------|
| 75 | 14     | Lastkomb b | Combination | Min | 92,634  | 237,821 | 11,434 | -4,2E-18 | -16,6609 | 257,6214   | 75-14 | 1      |
| 75 | 14     | Lastkomb b | Combination | Min | 108,322 | 239,219 | 13,239 | -2,4E-18 | 6,4967   | 257,621    | 75-15 | 0      |
| 75 | 14,5   | Lastkomb b | Combination | Min | 107,612 | 257,621 | 13,239 | -2,4E-18 | -0,6905  | 133,4109   | 75-15 | 0,5    |
| 75 | 15     | Lastkomb b | Combination | Min | 106,901 | 276,023 | 13,239 | -2,4E-18 | -19,6802 | -1,497E-12 | 75-15 | 1      |
| 76 | 0      | Lastkomb b | Combination | Max | -84,39  | 0       | 1,993  | 0,00019  | 2,7292   | 0          | 76-1  | 0      |
| 76 | 1,426  | Lastkomb b | Combination | Max | -83,913 | 0       | 1,993  | 0,00019  | 0,2095   | 0          | 76-1  | 1,426  |
| 76 | 2,852  | Lastkomb b | Combination | Max | -83,437 | 0       | 1,993  | 0,00019  | -1,0635  | 0          | 76-1  | 2,852  |
| 76 | 0      | Lastkomb b | Combination | Min | -184,31 | 0       | 0,856  | -8,4E-05 | 1,2587   | 0          | 76-1  | 0      |
| 76 | 1,426  | Lastkomb b | Combination | Min | -183,84 | 0       | 0,856  | -8,4E-05 | -0,179   | 0          | 76-1  | 1,426  |
| 76 | 2,852  | Lastkomb b | Combination | Min | -183,36 | 0       | 0,856  | -8,4E-05 | -2,9826  | 0          | 76-1  | 2,852  |
| 77 | 0      | Lastkomb b | Combination | Max | -83,046 | 0       | 0,958  | 0,00011  | 1,2518   | 0          | 77-1  | 0      |
| 77 | 1,476  | Lastkomb b | Combination | Max | -82,552 | 0       | 0,958  | 0,00011  | 0,1697   | 0          | 77-1  | 1,476  |
| 77 | 2,952  | Lastkomb b | Combination | Max | -82,059 | 0       | 0,958  | 0,00011  | 0,4672   | 0          | 77-1  | 2,952  |
| 77 | 0      | Lastkomb b | Combination | Min | -179,62 | 0       | -0,226 | 1,6E-07  | -0,1989  | 0          | 77-1  | 0      |
| 77 | 1,476  | Lastkomb b | Combination | Min | -179,13 | 0       | -0,226 | 1,6E-07  | -0,2003  | 0          | 77-1  | 1,476  |
| 77 | 2,952  | Lastkomb b | Combination | Min | -178,64 | 0       | -0,226 | 1,6E-07  | -1,5769  | 0          | 77-1  | 2,952  |
| 78 | 0      | Lastkomb b | Combination | Max | -79,457 | 0       | -0,3   | -1,8E-05 | -0,5451  | 0          | 78-1  | 0      |
| 78 | 1,528  | Lastkomb b | Combination | Max | -78,947 | 0       | -0,3   | -1,8E-05 | 0,2673   | 0          | 78-1  | 1,528  |
| 78 | 3,056  | Lastkomb b | Combination | Max | -78,436 | 0       | -0,3   | -1,8E-05 | 2,4302   | 0          | 78-1  | 3,056  |
| 78 | 0      | Lastkomb b | Combination | Min | -176,65 | 0       | -1,459 | -0,00016 | -2,0293  | 0          | 78-1  | 0      |
| 78 | 1,528  | Lastkomb b | Combination | Min | -176,14 | 0       | -1,459 | -0,00016 | -0,1032  | 0          | 78-1  | 1,528  |
| 78 | 3,056  | Lastkomb b | Combination | Min | -175,62 | 0       | -1,459 | -0,00016 | 0,3732   | 0          | 78-1  | 3,056  |
| 79 | 0      | Lastkomb b | Combination | Max | -80,177 | 0       | -0,782 | -0,00037 | -1,3149  | 0          | 79-1  | 0      |
| 79 | 1,5775 | Lastkomb b | Combination | Max | -79,649 | 0       | -0,782 | -0,00037 | 0,2151   | 0          | 79-1  | 1,5775 |
| 79 | 3,155  | Lastkomb b | Combination | Max | -79,122 | 0       | -0,782 | -0,00037 | 2,8267   | 0          | 79-1  | 3,155  |
| 79 | 0      | Lastkomb b | Combination | Min | -179,16 | 0       | -1,668 | -0,00058 | -2,504   | 0          | 79-1  | 0      |
| 79 | 1,5775 | Lastkomb b | Combination | Min | -178,63 | 0       | -1,668 | -0,00058 | -0,1531  | 0          | 79-1  | 1,5775 |
| 79 | 3,155  | Lastkomb b | Combination | Min | -178,11 | 0       | -1,668 | -0,00058 | 1,1514   | 0          | 79-1  | 3,155  |
| 80 | 0      | Lastkomb b | Combination | Max | -82,625 | 0       | -0,819 | -0,00012 | -1,4353  | 0          | 80-1  | 0      |
| 80 | 1,6295 | Lastkomb b | Combination | Max | -82,08  | 0       | -0,819 | -0,00012 | 0,1727   | 0          | 80-1  | 1,6295 |
| 80 | 3,259  | Lastkomb b | Combination | Max | -81,536 | 0       | -0,819 | -0,00012 | 2,8337   | 0          | 80-1  | 3,259  |
| 80 | 0      | Lastkomb b | Combination | Min | -179,47 | 0       | -1,656 | -0,00043 | -2,563   | 0          | 80-1  | 0      |
| 80 | 1,6295 | Lastkomb b | Combination | Min | -178,93 | 0       | -1,656 | -0,00043 | -0,1426  | 0          | 80-1  | 1,6295 |
| 80 | 3,259  | Lastkomb b | Combination | Min | -178,38 | 0       | -1,656 | -0,00043 | 1,2341   | 0          | 80-1  | 3,259  |
| 81 | 0      | Lastkomb b | Combination | Max | -1,153  | 0       | -0,223 | -0,00022 | -0,4085  | 0          | 81-1  | 0      |



|    |         |            |             |     |         |          |         |          |         |          |      |        |
|----|---------|------------|-------------|-----|---------|----------|---------|----------|---------|----------|------|--------|
| 81 | 1,6545  | Lastkomb b | Combination | Max | -0,725  | 0        | -0,223  | -0,00022 | 0,004   | 0        | 81-1 | 1,6545 |
| 81 | 3,309   | Lastkomb b | Combination | Max | -0,296  | 0        | -0,223  | -0,00022 | 0,6659  | 0        | 81-1 | 3,309  |
| 81 | 0       | Lastkomb b | Combination | Min | -3,77   | 0        | -0,403  | -0,0004  | -0,6684 | 0        | 81-1 | 0      |
| 81 | 1,6545  | Lastkomb b | Combination | Min | -3,341  | 0        | -0,403  | -0,0004  | -0,0487 | 0        | 81-1 | 1,6545 |
| 81 | 3,309   | Lastkomb b | Combination | Min | -2,913  | 0        | -0,403  | -0,0004  | 0,3279  | 0        | 81-1 | 3,309  |
| 82 | 0       | Lastkomb b | Combination | Max | 534,096 | -55,822  | -4,354  | -0,0016  | -1,123  | -26,378  | 82-1 | 0      |
| 82 | 0,5     | Lastkomb b | Combination | Max | 533,338 | -38,164  | -4,354  | -0,0016  | 2,0587  | 13,5163  | 82-1 | 0,5    |
| 82 | 0,5     | Lastkomb b | Combination | Max | 505,508 | -38,017  | 1,769   | -0,0016  | 2,0587  | 13,5163  | 82-2 | 0      |
| 82 | 1       | Lastkomb b | Combination | Max | 504,75  | -20,359  | 1,769   | -0,0016  | 1,1743  | 37,2594  | 82-2 | 0,5    |
| 82 | 1,50001 | Lastkomb b | Combination | Max | 503,991 | -2,701   | 1,769   | -0,0016  | 0,3015  | 63,7716  | 82-2 | 1      |
| 82 | 1,50001 | Lastkomb b | Combination | Max | 477,21  | -1,183   | 0,158   | -0,0016  | 0,3015  | 63,7716  | 82-3 | 0      |
| 82 | 1,62401 | Lastkomb b | Combination | Max | 477,022 | 28,92    | 0,158   | -0,0016  | 0,2821  | 60,8019  | 82-3 | 0,124  |
| 82 | 1,62401 | Lastkomb b | Combination | Max | 477,022 | 28,92    | 0,158   | -0,0016  | 0,2821  | 60,8019  | 82-3 | 0,124  |
| 82 | 2,06201 | Lastkomb b | Combination | Max | 476,358 | 44,388   | 0,158   | -0,0016  | 0,2142  | 44,7474  | 82-3 | 0,562  |
| 82 | 2,50001 | Lastkomb b | Combination | Max | 475,694 | 59,857   | 0,158   | -0,0016  | 0,1548  | 34,3722  | 82-3 | 1      |
| 82 | 2,50001 | Lastkomb b | Combination | Max | 449,816 | 70,672   | 0,083   | -0,0016  | 0,1548  | 34,3722  | 82-4 | 0      |
| 82 | 2,87451 | Lastkomb b | Combination | Max | 449,248 | 110,068  | 0,083   | -0,0016  | 0,1268  | 1,5615   | 82-4 | 0,3745 |
| 82 | 3,24901 | Lastkomb b | Combination | Max | 448,68  | 123,294  | 0,083   | -0,0016  | 0,0988  | -15,7784 | 82-4 | 0,749  |
| 82 | 3,24901 | Lastkomb b | Combination | Max | 448,68  | 123,294  | 0,083   | -0,0016  | 0,0988  | -15,7784 | 82-4 | 0,749  |
| 82 | 3,25001 | Lastkomb b | Combination | Max | 448,678 | 123,329  | 0,083   | -0,0016  | 0,0987  | -15,8289 | 82-4 | 0,75   |
| 82 | 0       | Lastkomb b | Combination | Min | 180,245 | -133,703 | -10,415 | -0,004   | -3,1487 | -56,5012 | 82-1 | 0      |
| 82 | 0,5     | Lastkomb b | Combination | Min | 179,486 | -116,045 | -10,415 | -0,004   | 1,0324  | -12,1877 | 82-1 | 0,5    |
| 82 | 0,5     | Lastkomb b | Combination | Min | 132,122 | -89,999  | 0,8     | -0,004   | 1,0324  | -12,1877 | 82-2 | 0      |
| 82 | 1       | Lastkomb b | Combination | Min | 131,335 | -61,853  | 0,8     | -0,004   | 0,6273  | 8,3591   | 82-2 | 0,5    |
| 82 | 1,50001 | Lastkomb b | Combination | Min | 130,577 | -44,195  | 0,8     | -0,004   | 0,2008  | 17,4778  | 82-2 | 1      |
| 82 | 1,50001 | Lastkomb b | Combination | Min | 82,279  | -17,786  | 0,096   | -0,004   | 0,2008  | 17,4778  | 82-3 | 0      |
| 82 | 1,62401 | Lastkomb b | Combination | Min | 82,062  | -6,973   | 0,096   | -0,004   | 0,1883  | 17,5412  | 82-3 | 0,124  |
| 82 | 1,62401 | Lastkomb b | Combination | Min | 82,062  | -6,973   | 0,096   | -0,004   | 0,1883  | 17,5412  | 82-3 | 0,124  |
| 82 | 2,06201 | Lastkomb b | Combination | Min | 81,398  | 8,495    | 0,096   | -0,004   | 0,1441  | 13,4187  | 82-3 | 0,562  |
| 82 | 2,50001 | Lastkomb b | Combination | Min | 80,734  | 23,964   | 0,096   | -0,004   | 0,0999  | 2,5209   | 82-3 | 1      |
| 82 | 2,50001 | Lastkomb b | Combination | Min | 31,939  | 24,054   | 0,053   | -0,004   | 0,0999  | 2,5209   | 82-4 | 0      |
| 82 | 2,87451 | Lastkomb b | Combination | Min | 31,342  | 37,279   | 0,053   | -0,004   | 0,0785  | -22,1466 | 82-4 | 0,3745 |
| 82 | 3,24901 | Lastkomb b | Combination | Min | 30,774  | 50,505   | 0,053   | -0,004   | 0,0567  | -53,4848 | 82-4 | 0,749  |
| 82 | 3,24901 | Lastkomb b | Combination | Min | 30,774  | 50,505   | 0,053   | -0,004   | 0,0567  | -53,4848 | 82-4 | 0,749  |
| 82 | 3,25001 | Lastkomb b | Combination | Min | 30,773  | 50,541   | 0,053   | -0,004   | 0,0567  | -53,5752 | 82-4 | 0,75   |

|    |         |            |             |     |         |          |        |         |         |           |      |         |
|----|---------|------------|-------------|-----|---------|----------|--------|---------|---------|-----------|------|---------|
| 83 | 0       | Lastkomb b | Combination | Max | 1849,81 | -33,507  | 0,083  | -0,0033 | 0,0978  | -12,2889  | 83-1 | 0       |
| 83 | 0,25    | Lastkomb b | Combination | Max | 1849,42 | -24,946  | 0,083  | -0,0033 | 0,0793  | -4,7794   | 83-1 | 0,25    |
| 83 | 0,25    | Lastkomb b | Combination | Max | 1797,33 | -24,603  | 0,195  | -0,0033 | 0,0793  | -4,7794   | 83-2 | 0       |
| 83 | 0,75001 | Lastkomb b | Combination | Max | 1796,55 | -7,482   | 0,195  | -0,0033 | 0,0091  | 9,1789    | 83-2 | 0,5     |
| 83 | 1,25001 | Lastkomb b | Combination | Max | 1795,77 | 9,639    | 0,195  | -0,0033 | -0,0611 | 35,3353   | 83-2 | 1,00001 |
| 83 | 1,25001 | Lastkomb b | Combination | Max | 1756,27 | 9,639    | -0,281 | -0,0033 | -0,0611 | 35,3353   | 83-3 | 0       |
| 83 | 1,62401 | Lastkomb b | Combination | Max | 1755,69 | 37,79    | -0,281 | -0,0033 | 0,0938  | 23,9414   | 83-3 | 0,374   |
| 83 | 1,62401 | Lastkomb b | Combination | Max | 1755,69 | 37,79    | -0,281 | -0,0033 | 0,0938  | 23,9414   | 83-3 | 0,374   |
| 83 | 1,93702 | Lastkomb b | Combination | Max | 1755,2  | 48,508   | -0,281 | -0,0033 | 0,2848  | 15,3095   | 83-3 | 0,68701 |
| 83 | 2,25002 | Lastkomb b | Combination | Max | 1754,71 | 59,226   | -0,281 | -0,0033 | 0,4758  | 8,0958    | 83-3 | 1,00001 |
| 83 | 2,25002 | Lastkomb b | Combination | Max | 1727,42 | 69,954   | 1,888  | -0,0033 | 0,4758  | 8,0958    | 83-4 | 0       |
| 83 | 2,74952 | Lastkomb b | Combination | Max | 1726,65 | 114,245  | 1,888  | -0,0033 | -0,2592 | -38,8174  | 83-4 | 0,4995  |
| 83 | 3,24903 | Lastkomb b | Combination | Max | 1725,87 | 131,349  | 1,888  | -0,0033 | -0,7609 | -70,1159  | 83-4 | 0,99901 |
| 83 | 3,24903 | Lastkomb b | Combination | Max | 1725,87 | 131,349  | 1,888  | -0,0033 | -0,7609 | -70,1159  | 83-4 | 0,99901 |
| 83 | 3,25003 | Lastkomb b | Combination | Max | 1725,87 | 131,384  | 1,888  | -0,0033 | -0,7619 | -70,1871  | 83-4 | 1,00001 |
| 83 | 0       | Lastkomb b | Combination | Min | 1375,1  | -121,575 | 0,052  | -0,0059 | 0,0557  | -51,5236  | 83-1 | 0       |
| 83 | 0,25    | Lastkomb b | Combination | Min | 1374,71 | -113,015 | 0,052  | -0,0059 | 0,0385  | -25,6432  | 83-1 | 0,25    |
| 83 | 0,25    | Lastkomb b | Combination | Min | 1348,61 | -88,482  | 0,117  | -0,0059 | 0,0385  | -25,6432  | 83-2 | 0       |
| 83 | 0,75001 | Lastkomb b | Combination | Min | 1347,83 | -60,873  | 0,117  | -0,0059 | -0,0424 | -4,8993   | 83-2 | 0,5     |
| 83 | 1,25001 | Lastkomb b | Combination | Min | 1347,05 | -43,752  | 0,117  | -0,0059 | -0,1345 | -1,2984   | 83-2 | 1,00001 |
| 83 | 1,25001 | Lastkomb b | Combination | Min | 1330,32 | -16,324  | -0,61  | -0,0059 | -0,1345 | -1,2984   | 83-3 | 0       |
| 83 | 1,62401 | Lastkomb b | Combination | Min | 1329,74 | 6,97     | -0,61  | -0,0059 | 0,0165  | -7,0232   | 83-3 | 0,374   |
| 83 | 1,62401 | Lastkomb b | Combination | Min | 1329,74 | 6,97     | -0,61  | -0,0059 | 0,0165  | -7,0232   | 83-3 | 0,374   |
| 83 | 1,93702 | Lastkomb b | Combination | Min | 1329,25 | 17,688   | -0,61  | -0,0059 | 0,1093  | -15,7262  | 83-3 | 0,68701 |
| 83 | 2,25002 | Lastkomb b | Combination | Min | 1328,76 | 28,406   | -0,61  | -0,0059 | 0,1989  | -27,7839  | 83-3 | 1,00001 |
| 83 | 2,25002 | Lastkomb b | Combination | Min | 1321,23 | 36,963   | 1,004  | -0,0059 | 0,1989  | -27,7839  | 83-4 | 0       |
| 83 | 2,74952 | Lastkomb b | Combination | Min | 1320,45 | 54,067   | 1,004  | -0,0059 | -0,4727 | -58,4135  | 83-4 | 0,4995  |
| 83 | 3,24903 | Lastkomb b | Combination | Min | 1319,67 | 71,171   | 1,004  | -0,0059 | -1,4102 | -105,6914 | 83-4 | 0,99901 |
| 83 | 3,24903 | Lastkomb b | Combination | Min | 1319,67 | 71,171   | 1,004  | -0,0059 | -1,4102 | -105,6914 | 83-4 | 0,99901 |
| 83 | 3,25003 | Lastkomb b | Combination | Min | 1319,67 | 71,205   | 1,004  | -0,0059 | -1,4121 | -105,8227 | 83-4 | 1,00001 |
| 84 | 0       | Lastkomb b | Combination | Max | -1006,3 | -1,4E-16 | 4      | -0,0016 | 10,498  | 0         | 84-1 | 0       |
| 84 | 2,35759 | Lastkomb b | Combination | Max | -1003,9 | 0        | 1,764  | -0,0016 | 6,8171  | 1,614E-16 | 84-1 | 2,35759 |
| 84 | 4,71518 | Lastkomb b | Combination | Max | -1001,6 | 1,37E-16 | -0,472 | -0,0016 | 13,7699 | 0         | 84-1 | 4,71518 |
| 84 | 0       | Lastkomb b | Combination | Min | -1547,3 | -1,4E-16 | 0,405  | -0,0022 | 5,1367  | 0         | 84-1 | 0       |
| 84 | 2,35759 | Lastkomb b | Combination | Min | -1544,9 | 0        | -1,831 | -0,0022 | 3,2392  | 1,614E-16 | 84-1 | 2,35759 |

|    |         |            |             |     |         |          |          |          |          |            |      |         |
|----|---------|------------|-------------|-----|---------|----------|----------|----------|----------|------------|------|---------|
| 84 | 4,71518 | Lastkomb b | Combination | Min | -1542,6 | 1,37E-16 | -4,067   | -0,0022  | 1,8597   | 0          | 84-1 | 4,71518 |
| 85 | 0       | Lastkomb b | Combination | Max | 1285,87 | -1,815   | 0,00036  | -0,0017  | -0,0099  | 0          | 85-1 | 0       |
| 85 | 2,37055 | Lastkomb b | Combination | Max | 1283,94 | 1,49E-18 | 0,00036  | -0,0017  | -0,0106  | 2,1509     | 85-1 | 2,37055 |
| 85 | 4,74111 | Lastkomb b | Combination | Max | 1282,02 | 1,815    | 0,00036  | -0,0017  | -0,0086  | 1,646E-17  | 85-1 | 4,74111 |
| 85 | 0       | Lastkomb b | Combination | Min | 806,82  | -1,815   | -0,00215 | -0,0028  | -0,0206  | 0          | 85-1 | 0       |
| 85 | 2,37055 | Lastkomb b | Combination | Min | 804,893 | 1,49E-18 | -0,00215 | -0,0028  | -0,0155  | 2,1509     | 85-1 | 2,37055 |
| 85 | 4,74111 | Lastkomb b | Combination | Min | 802,965 | 1,815    | -0,00215 | -0,0028  | -0,0116  | 1,646E-17  | 85-1 | 4,74111 |
| 86 | 0       | Lastkomb b | Combination | Max | -631,77 | -9,9E-17 | 1,591    | 0,0027   | 0,2632   | 0          | 86-1 | 0       |
| 86 | 2,40617 | Lastkomb b | Combination | Max | -630    | 0        | -0,031   | 0,0027   | 0,0704   | 1,195E-16  | 86-1 | 2,40617 |
| 86 | 4,81234 | Lastkomb b | Combination | Max | -628,23 | 9,94E-17 | -1,654   | 0,0027   | 6,5273   | 0          | 86-1 | 4,81234 |
| 86 | 0       | Lastkomb b | Combination | Min | -1056   | -9,9E-17 | -0,249   | 0,0017   | -2,6094  | 0          | 86-1 | 0       |
| 86 | 2,40617 | Lastkomb b | Combination | Min | -1054,2 | 0        | -1,872   | 0,0017   | -1,8031  | 1,195E-16  | 86-1 | 2,40617 |
| 86 | 4,81234 | Lastkomb b | Combination | Min | -1052,5 | 9,94E-17 | -3,495   | 0,0017   | 0,2251   | 0          | 86-1 | 4,81234 |
| 87 | 0       | Lastkomb b | Combination | Max | 810,675 | -1,162   | 0,00282  | 0,00011  | 0,0095   | 0          | 87-1 | 0       |
| 87 | 2,41936 | Lastkomb b | Combination | Max | 809,394 | 5,03E-17 | 0,00282  | 0,00011  | 0,0026   | 1,4057     | 87-1 | 2,41936 |
| 87 | 4,83873 | Lastkomb b | Combination | Max | 808,112 | 1,162    | 0,00282  | 0,00011  | -0,0025  | -3,342E-16 | 87-1 | 4,83873 |
| 87 | 0       | Lastkomb b | Combination | Min | 448,395 | -1,162   | 0,00088  | -1,2E-05 | 0,0018   | 0          | 87-1 | 0       |
| 87 | 2,41936 | Lastkomb b | Combination | Min | 447,114 | 5,03E-17 | 0,00088  | -1,2E-05 | -0,00059 | 1,4057     | 87-1 | 2,41936 |
| 87 | 4,83873 | Lastkomb b | Combination | Min | 445,832 | 1,162    | 0,00088  | -1,2E-05 | -0,0042  | -3,342E-16 | 87-1 | 4,83873 |
| 88 | 0       | Lastkomb b | Combination | Max | -288,22 | -6,8E-17 | 1,121    | 0,0032   | 0,1566   | 0          | 88-1 | 0       |
| 88 | 2,44701 | Lastkomb b | Combination | Max | -286,98 | 0        | 0,015    | 0,0032   | -0,5648  | 8,288E-17  | 88-1 | 2,44701 |
| 88 | 4,89403 | Lastkomb b | Combination | Max | -285,73 | 6,77E-17 | -1,091   | 0,0032   | 3,1179   | 0          | 88-1 | 4,89403 |
| 88 | 0       | Lastkomb b | Combination | Min | -599,84 | -6,8E-17 | 0,154    | 0,0013   | -1,5519  | 0          | 88-1 | 0       |
| 88 | 2,44701 | Lastkomb b | Combination | Min | -598,6  | 0        | -0,952   | 0,0013   | -1,3691  | 8,288E-17  | 88-1 | 2,44701 |
| 88 | 4,89403 | Lastkomb b | Combination | Min | -597,35 | 6,77E-17 | -2,058   | 0,0013   | 0,0833   | 0          | 88-1 | 4,89403 |
| 89 | 0       | Lastkomb b | Combination | Max | 378,879 | -4,2E-17 | 0,845    | -0,00021 | 0,8005   | 0          | 89-1 | 0       |
| 89 | 2,46039 | Lastkomb b | Combination | Max | 378,106 | 0        | 0,165    | -0,00021 | -0,4417  | 5,121E-17  | 89-1 | 2,46039 |
| 89 | 4,92078 | Lastkomb b | Combination | Max | 377,333 | 4,16E-17 | -0,515   | -0,00021 | 1,0505   | 0          | 89-1 | 4,92078 |
| 89 | 0       | Lastkomb b | Combination | Min | 80,12   | -4,2E-17 | 0,213    | -0,00063 | -1,2645  | 0          | 89-1 | 0       |
| 89 | 2,46039 | Lastkomb b | Combination | Min | 79,347  | 0        | -0,467   | -0,00063 | -1,041   | 5,121E-17  | 89-1 | 2,46039 |
| 89 | 4,92078 | Lastkomb b | Combination | Min | 78,574  | 4,16E-17 | -1,147   | -0,00063 | -0,102   | 0          | 89-1 | 4,92078 |
| 90 | 0       | Lastkomb b | Combination | Max | 113,495 | -4,2E-17 | 1,023    | 0,00062  | 0,7482   | 0          | 90-1 | 0       |
| 90 | 2,48008 | Lastkomb b | Combination | Max | 114,279 | 0        | 0,343    | 0,00062  | -0,4521  | 5,162E-17  | 90-1 | 2,48008 |
| 90 | 4,96017 | Lastkomb b | Combination | Max | 115,063 | 4,16E-17 | -0,336   | 0,00062  | 1,2437   | 0          | 90-1 | 4,96017 |
| 90 | 0       | Lastkomb b | Combination | Min | -181,96 | -4,2E-17 | 0,336    | 0,00027  | -0,4618  | 0          | 90-1 | 0       |



|    |         |            |             |     |         |          |          |          |         |           |      |         |
|----|---------|------------|-------------|-----|---------|----------|----------|----------|---------|-----------|------|---------|
| 90 | 2,48008 | Lastkomb b | Combination | Min | -181,18 | 0        | -0,344   | 0,00027  | -1,046  | 5,162E-17 | 90-1 | 2,48008 |
| 90 | 4,96017 | Lastkomb b | Combination | Min | -180,39 | 4,16E-17 | -1,024   | 0,00027  | -0,9551 | 0         | 90-1 | 4,96017 |
| 91 | 0       | Lastkomb b | Combination | Max | -18,957 | -4,2E-17 | 1,141    | -0,00024 | 1,5595  | 0         | 91-1 | 0       |
| 91 | 2,4936  | Lastkomb b | Combination | Max | -19,748 | 0        | 0,461    | -0,00024 | -0,4373 | 5,19E-17  | 91-1 | 2,4936  |
| 91 | 4,98719 | Lastkomb b | Combination | Max | -20,54  | 4,16E-17 | -0,219   | -0,00024 | 0,4724  | 0         | 91-1 | 4,98719 |
| 91 | 0       | Lastkomb b | Combination | Min | -314,73 | -4,2E-17 | 0,464    | -0,00058 | -0,6032 | 0         | 91-1 | 0       |
| 91 | 2,4936  | Lastkomb b | Combination | Min | -315,53 | 0        | -0,216   | -0,00058 | -0,9987 | 5,19E-17  | 91-1 | 2,4936  |
| 91 | 4,98719 | Lastkomb b | Combination | Min | -316,32 | 4,16E-17 | -0,896   | -0,00058 | -0,7562 | 0         | 91-1 | 4,98719 |
| 92 | 0       | Lastkomb b | Combination | Max | 505,132 | -4,2E-17 | 1,205    | 0,00033  | 1,3148  | 0         | 92-1 | 0       |
| 92 | 2,50511 | Lastkomb b | Combination | Max | 505,93  | 0        | 0,525    | 0,00033  | -0,4007 | 5,214E-17 | 92-1 | 2,50511 |
| 92 | 5,01021 | Lastkomb b | Combination | Max | 506,727 | 4,16E-17 | -0,155   | 0,00033  | 0,6719  | 0         | 92-1 | 5,01021 |
| 92 | 0       | Lastkomb b | Combination | Min | 200,975 | -4,2E-17 | 0,592    | 0,00014  | 0,1431  | 0         | 92-1 | 0       |
| 92 | 2,50511 | Lastkomb b | Combination | Min | 201,772 | 0        | -0,088   | 0,00014  | -0,9514 | 5,214E-17 | 92-1 | 2,50511 |
| 92 | 5,01021 | Lastkomb b | Combination | Min | 202,57  | 4,16E-17 | -0,768   | 0,00014  | -1,3166 | 0         | 92-1 | 5,01021 |
| 93 | 0       | Lastkomb b | Combination | Max | -388,23 | -7,7E-17 | 2,473    | -0,0015  | 4,0921  | 0         | 93-1 | 0       |
| 93 | 2,51876 | Lastkomb b | Combination | Max | -389,71 | 0        | 1,223    | -0,0015  | -0,5627 | 9,643E-17 | 93-1 | 2,51876 |
| 93 | 5,03751 | Lastkomb b | Combination | Max | -391,19 | 7,66E-17 | -0,028   | -0,0015  | -0,1189 | 0         | 93-1 | 5,03751 |
| 93 | 0       | Lastkomb b | Combination | Min | -713,5  | -7,7E-17 | 1,372    | -0,0031  | 0,4639  | 0         | 93-1 | 0       |
| 93 | 2,51876 | Lastkomb b | Combination | Min | -714,99 | 0        | 0,122    | -0,0031  | -1,5564 | 9,643E-17 | 93-1 | 2,51876 |
| 93 | 5,03751 | Lastkomb b | Combination | Min | -716,47 | 7,66E-17 | -1,129   | -0,0031  | -2,084  | 0         | 93-1 | 5,03751 |
| 94 | 0       | Lastkomb b | Combination | Max | 898,95  | -1,258   | -0,00108 | 0,00042  | -0,0046 | 0         | 94-1 | 0       |
| 94 | 2,52193 | Lastkomb b | Combination | Max | 900,443 | 2,52E-17 | -0,00108 | 0,00042  | -0,0017 | 1,5864    | 94-1 | 2,52193 |
| 94 | 5,04386 | Lastkomb b | Combination | Max | 901,936 | 1,258    | -0,00108 | 0,00042  | 0,0022  | 5,307E-17 | 94-1 | 5,04386 |
| 94 | 0       | Lastkomb b | Combination | Min | 531,201 | -1,258   | -0,00161 | 0,00022  | -0,0061 | 0         | 94-1 | 0       |
| 94 | 2,52193 | Lastkomb b | Combination | Min | 532,694 | 2,52E-17 | -0,00161 | 0,00022  | -0,0022 | 1,5864    | 94-1 | 2,52193 |
| 94 | 5,04386 | Lastkomb b | Combination | Min | 534,187 | 1,258    | -0,00161 | 0,00022  | 0,00072 | 5,307E-17 | 94-1 | 5,04386 |
| 95 | 0       | Lastkomb b | Combination | Max | -691,59 | -1E-16   | 3,764    | 0,00058  | 8,0269  | 0         | 95-1 | 0       |
| 95 | 2,5356  | Lastkomb b | Combination | Max | -693,6  | 0        | 2,081    | 0,00058  | 0,6158  | 1,306E-16 | 95-1 | 2,5356  |
| 95 | 5,07121 | Lastkomb b | Combination | Max | -695,62 | 1,03E-16 | 0,399    | 0,00058  | 0,5535  | 0         | 95-1 | 5,07121 |
| 95 | 0       | Lastkomb b | Combination | Min | -1106,5 | -1E-16   | 1,903    | 0,00039  | 1,4365  | 0         | 95-1 | 0       |
| 95 | 2,5356  | Lastkomb b | Combination | Min | -1108,5 | 0        | 0,22     | 0,00039  | -1,2777 | 1,306E-16 | 95-1 | 2,5356  |
| 95 | 5,07121 | Lastkomb b | Combination | Min | -1110,6 | 1,03E-16 | -1,463   | 0,00039  | -2,5731 | 0         | 95-1 | 5,07121 |
| 96 | 0       | Lastkomb b | Combination | Max | 1320    | -1,815   | -0,00024 | -0,00041 | -0,0044 | 0         | 96-1 | 0       |
| 96 | 2,53035 | Lastkomb b | Combination | Max | 1322,17 | -1,7E-16 | -0,00024 | -0,00041 | -0,0021 | 2,2959    | 96-1 | 2,53035 |
| 96 | 5,0607  | Lastkomb b | Combination | Max | 1324,33 | 1,815    | -0,00024 | -0,00041 | 0,00011 | 1,333E-15 | 96-1 | 5,0607  |

|    |         |            |             |     |         |          |          |          |         |           |      |         |
|----|---------|------------|-------------|-----|---------|----------|----------|----------|---------|-----------|------|---------|
| 96 | 0       | Lastkomb b | Combination | Min | 857,868 | -1,815   | -0,00089 | -0,00067 | -0,0053 | 0         | 96-1 | 0       |
| 96 | 2,53035 | Lastkomb b | Combination | Min | 860,034 | -1,7E-16 | -0,00089 | -0,00067 | -0,0045 | 2,2959    | 96-1 | 2,53035 |
| 96 | 5,0607  | Lastkomb b | Combination | Min | 862,2   | 1,815    | -0,00089 | -0,00067 | -0,0038 | 1,333E-15 | 96-1 | 5,0607  |
| 97 | 0       | Lastkomb b | Combination | Max | -969,34 | -5,9E-17 | 1,399    | 0,00038  | 3,7583  | 0         | 97-1 | 0       |
| 97 | 2,54406 | Lastkomb b | Combination | Max | -970,49 | 0        | 0,437    | 0,00038  | 1,4229  | 7,494E-17 | 97-1 | 2,54406 |
| 97 | 5,08812 | Lastkomb b | Combination | Max | -971,65 | 5,89E-17 | -0,525   | 0,00038  | 3,199   | 0         | 97-1 | 5,08812 |
| 97 | 0       | Lastkomb b | Combination | Min | -1457,7 | -5,9E-17 | 0,582    | 0,0003   | 1,2639  | 0         | 97-1 | 0       |
| 97 | 2,54406 | Lastkomb b | Combination | Min | -1458,9 | 0        | -0,38    | 0,0003   | 0,8471  | 7,494E-17 | 97-1 | 2,54406 |
| 97 | 5,08812 | Lastkomb b | Combination | Min | -1460   | 5,89E-17 | -1,342   | 0,0003   | 1,5352  | 0         | 97-1 | 5,08812 |