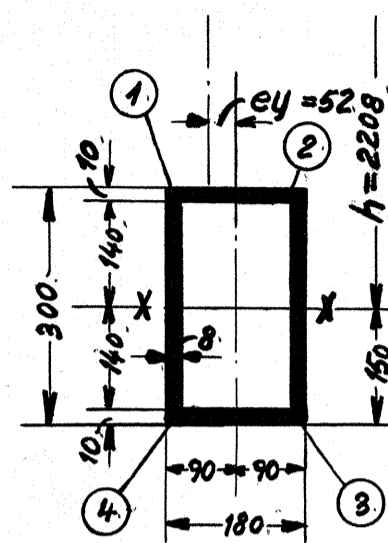


Spændinger i sidedrager ved bagagerumsdør:

Fag 4, højre side søjle III: $M_0 = 2085300 \text{ kg cm}$



$e_y = 41 + 11 = 52 \text{ mm}$

$X_4 = -10115 \text{ kg } h = 2208 \text{ mm}$

$X_4 \times h = -10115 \times 220,8 = -2232000 \text{ kg cm}$

$M_x = 2085300 - 2243700 = -146700 \text{ kg cm}$

$M_y = 10115 \times 5,2 = 52600 \text{ kg cm (træk 1 4)}$

$W_x = 700 \text{ cm}^3 \quad W_y = 476,4 \text{ cm}^3 \quad F = 80,8 \text{ cm}^2$

$\sigma_1 = \frac{146700}{700} + \frac{52600}{476,4} + \frac{10115}{80,8} = 210 + 110 + 125 = +445 \text{ kg/cm}^2$

$\sigma_2 = \frac{146700}{700} - \frac{52600}{476,4} + \frac{10115}{80,8} = 210 - 110 + 125 = +225 \text{ kg/cm}^2$

$\sigma_3 = -\frac{146700}{700} - \frac{52600}{476,4} + \frac{10115}{80,8} = -210 - 110 + 125 = -195 \text{ kg/cm}^2$

$\sigma_4 = -\frac{146700}{700} + \frac{52600}{476,4} + \frac{10115}{80,8} = -210 + 110 + 125 = 15 \text{ kg/cm}^2$

Fag 4, venstre side søjle IV:

$M_0 = 2586300 \text{ kg cm } X_4 = -10115 \text{ kg } h = 2208 \text{ mm}$

$X_4 \times h = -10115 \times 220,8 = -2232000 \text{ kg cm}$

$M_x = 2586300 - 2232000 = 354300 \text{ kg cm}$

$M_y = 10115 \times 5,2 = 52600 \text{ kg cm (træk i 1 4)}$

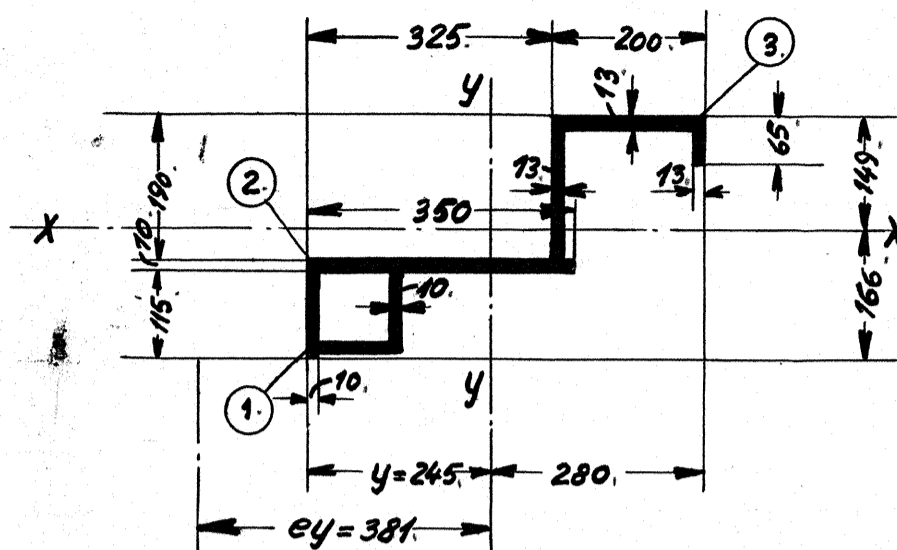
$\sigma_1 = -\frac{354300}{700} + \frac{52600}{476,4} + \frac{10115}{80,8} = -507 + 110 + 125 = -272 \text{ kg/cm}^2$

$\sigma_2 = -\frac{354300}{700} - \frac{52600}{476,4} + \frac{10115}{80,8} = -507 - 110 + 125 = -492 \text{ kg/cm}^2$

$\sigma_3 = \frac{354300}{700} - \frac{52600}{476,4} + \frac{10115}{80,8} = +507 - 110 + 125 = +522 \text{ kg/cm}^2$

$\sigma_4 = \frac{354300}{700} + \frac{52600}{476,4} + \frac{10115}{80,8} = +507 + 110 + 125 = +742 \text{ kg/cm}^2$

Fag 8-9. Indstigning venstre side:



$M_0 = 2263800 \text{ kg cm } X_{8-9} = -8800 \text{ kg } h = 2207 \text{ mm}$

$X_{8-9} \times h = -8800 \times 220,7 = -1946000 \text{ kg cm}$

$M_x = 2263800 - 1946000 = 317800 \text{ kg cm } e_y = 372 + 11 = 383 \text{ mm}$

$M_y = 8800 \times 38,3 = 337000 \text{ kg cm (træk i 1 og 2)}$

$\sigma_1 = \frac{317800}{799} + \frac{337000}{1360} + \frac{8800}{123,4} = 398 + 248 + 72 = +718 \text{ kg/cm}^2$

$\sigma_2 = \frac{317800}{3220} + \frac{337000}{1360} + \frac{8800}{123,4} = 99 + 248 + 72 = +419 \text{ kg/cm}^2$

$\sigma_3 = -\frac{317800}{887} - \frac{337000}{1190} + \frac{8800}{123,4} = -358 - 283 + 72 = -569 \text{ kg/cm}^2$

Indstigning højre side 187 mm fra IX

$M_0 = 1701100 \text{ kg cm } X_{8-9} = -8800 \text{ kg } h = 2207 \text{ mm}$

$X_{8-9} \times h = -8800 \times 220,7 = -1946000 \text{ kg cm}$

$M_x = 1701100 - 1946000 = -244900 \text{ kg cm}$

$M_y = 8800 \times 38,3 = 337000 \text{ kg cm (træk i 1 og 2)}$

$\sigma_1 = \frac{244900}{799} + \frac{337000}{1360} + \frac{8800}{123,4}$

$\sigma_1 = -307 + 248 + 72 = +13 \text{ kg/cm}^2$

$\sigma_2 = -\frac{244900}{3220} + \frac{337000}{1360} + \frac{8800}{123,4}$

$\sigma_2 = -76 + 248 + 72 = +244 \text{ kg/cm}^2$

$\sigma_3 = \frac{244900}{887} - \frac{337000}{1190} + \frac{8800}{123,4}$

$\sigma_3 = +276 - 283 + 72 = +65 \text{ kg/cm}^2$

| | | | | | | 5 | | | |
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| | | | | | | 3 | | | |
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| | | | | | | 1 | | | |
| Stk. | Betegnelse | | Pos. | Materiale kvalitet | Model nr. eller materiale størrelse | rå | færdig | | |
| Tegn. | E. U. 21/1-50 | Rev. | E. U. 30/11-50 | Afd. | Z/L | Målestok: | | | |
| Kalk. | B.F. 27/11-50 | Norm. | | Dato | | | | | |
| Dato | Rettelse | | Indeks | | | | | | |
| FRICHS | | | | | | | | | |
| Anvendelse | | | | | | Stykliste nr. | | | |
| Diesel-el. motorvogn 500/550 HK-Mo | | | | | | — | | | |
| Tegningens benævnelse | | | | | | Tegningens nummer | | | |
| Beregning af vognside. | | | | | | 18W-1145. | | | |
| FRICHS nr. 148 | | | | | | Indeks: | | | |