

MATERIAL S235JR,  $R_p = 235 \text{ N/mm}^2$ , GALVANIZED acc. to EN-ISO 1461

## STACO Perfo type AP STE

height 40 mm

| sheet thickness<br>[mm] | grating width<br>[mm] |       | span L [mm] |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------|-----------------------|-------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                         |                       |       | 500         | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 |
| 1,5                     | 150                   | $F_v$ | 6204        | 4309 | 3166 | 2424 | 1915 | 1551 | 1282 | 1077 | 918  | 791  | 689  | 598  | 498  | 420  | 357  | 306  | 264  | 230  | 201  | 177  | 157  |
|                         | 200                   | $F_v$ | 4653        | 3231 | 2374 | 1818 | 1436 | 1163 | 961  | 808  | 688  | 594  | 517  | 448  | 374  | 315  | 268  | 230  | 198  | 172  | 151  | 133  | 118  |
|                         | 250                   | $F_v$ | 3723        | 2585 | 1899 | 1454 | 1149 | 931  | 769  | 646  | 551  | 475  | 414  | 359  | 299  | 252  | 214  | 184  | 159  | 138  | 121  | 106  | 94   |
|                         | 300                   | $F_v$ | 3102        | 2154 | 1583 | 1212 | 958  | 776  | 641  | 539  | 459  | 396  | 345  | 299  | 249  | 210  | 178  | 153  | 132  | 115  | 101  | 89   | 78   |
|                         | 150                   | $F_p$ | 388         | 310  | 259  | 222  | 194  | 172  | 155  | 141  | 129  | 119  | 111  | 103  | 97   | 91   | 85   | 77   | 70   | 63   | 58   | 53   | 49   |
|                         | 200-300               | $F_p$ | 291         | 233  | 194  | 166  | 145  | 129  | 116  | 106  | 97   | 89   | 83   | 78   | 73   | 68   | 64   | 58   | 52   | 48   | 44   | 40   | 37   |
| 2,0                     | 150                   | $F_v$ | 7927        | 5505 | 4044 | 3096 | 2447 | 1982 | 1638 | 1376 | 1173 | 1011 | 881  | 764  | 637  | 536  | 456  | 391  | 338  | 294  | 257  | 226  | 200  |
|                         | 200                   | $F_v$ | 5945        | 4129 | 3033 | 2322 | 1835 | 1486 | 1228 | 1032 | 880  | 758  | 661  | 573  | 478  | 402  | 342  | 293  | 253  | 220  | 193  | 170  | 150  |
|                         | 250                   | $F_v$ | 4756        | 3303 | 2427 | 1858 | 1468 | 1189 | 983  | 826  | 704  | 607  | 529  | 458  | 382  | 322  | 274  | 235  | 203  | 176  | 154  | 136  | 120  |
|                         | 300                   | $F_v$ | 3963        | 2752 | 2022 | 1548 | 1223 | 991  | 819  | 688  | 586  | 506  | 440  | 382  | 318  | 268  | 228  | 196  | 169  | 147  | 129  | 113  | 100  |
|                         | 150                   | $F_p$ | 495         | 396  | 330  | 283  | 248  | 220  | 198  | 180  | 165  | 152  | 142  | 132  | 124  | 117  | 109  | 98   | 89   | 81   | 74   | 68   | 63   |
|                         | 200-300               | $F_p$ | 372         | 297  | 248  | 212  | 186  | 165  | 149  | 135  | 124  | 114  | 106  | 99   | 93   | 87   | 82   | 74   | 67   | 61   | 56   | 51   | 47   |
| 2,5                     | 150                   | $F_v$ | 9493        | 6592 | 4843 | 3708 | 2930 | 2373 | 1961 | 1648 | 1404 | 1211 | 1055 | 915  | 763  | 642  | 546  | 468  | 405  | 352  | 308  | 271  | 240  |
|                         | 200                   | $F_v$ | 7119        | 4944 | 3632 | 2781 | 2197 | 1780 | 1471 | 1236 | 1053 | 908  | 791  | 686  | 572  | 482  | 410  | 351  | 303  | 264  | 231  | 203  | 180  |
|                         | 250                   | $F_v$ | 5696        | 3955 | 2906 | 2225 | 1758 | 1424 | 1177 | 989  | 843  | 727  | 633  | 549  | 458  | 385  | 328  | 281  | 243  | 211  | 185  | 163  | 144  |
|                         | 300                   | $F_v$ | 4746        | 3296 | 2422 | 1854 | 1465 | 1187 | 981  | 824  | 702  | 605  | 527  | 457  | 381  | 321  | 273  | 234  | 202  | 176  | 154  | 136  | 120  |
|                         | 150                   | $F_p$ | 593         | 475  | 396  | 339  | 297  | 264  | 237  | 216  | 198  | 183  | 170  | 158  | 148  | 140  | 130  | 118  | 107  | 97   | 89   | 82   | 75   |
|                         | 200-300               | $F_p$ | 445         | 356  | 297  | 254  | 223  | 198  | 178  | 162  | 148  | 137  | 127  | 119  | 111  | 105  | 98   | 88   | 80   | 73   | 67   | 61   | 56   |
|                         |                       |       | 500         | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 |
| 1,5                     | 150-300               | $f_v$ | 0,08        | 0,11 | 0,16 | 0,20 | 0,26 | 0,32 | 0,38 | 0,46 | 0,54 | 0,62 | 0,71 | 0,80 | 0,85 | 0,90 | 0,95 | 1,00 | 1,05 | 1,10 | 1,15 | 1,20 | 1,25 |
| 2,0                     |                       | $f_p$ | 0,07        | 0,10 | 0,14 | 0,18 | 0,23 | 0,28 | 0,33 | 0,39 | 0,46 | 0,53 | 0,61 | 0,69 | 0,77 | 0,86 | 0,95 | 1,00 | 1,05 | 1,10 | 1,15 | 1,20 | 1,25 |
| 2,5                     |                       |       |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

Value of max. load with condition of carries capacity ( $\gamma_f = 1,5$ )

Value of max. load with condition of operational use ( $\gamma_f = 1,0$ )

## Legend:

$F_v$  = Load data for uniformly distributed load [daN/m<sup>2</sup>]

$f_v$  = Deflection in [cm] in case of load  $F_v$

$F_p$  = Load data for point load [daN] on 200x200 mm surface

$f_p$  = Deflection in [cm] in case of load  $F_p$

Maximal length: up to 6000 mm.

Go to [www.staco.pl](http://www.staco.pl) to calculate the missing parameters automatically using our calculation module.