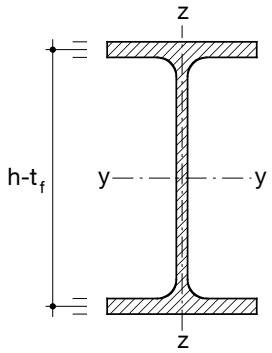
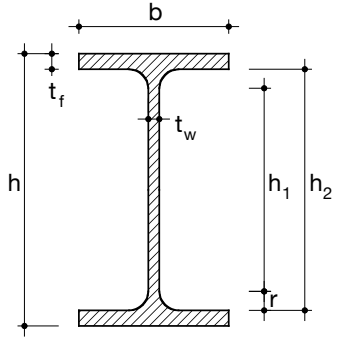
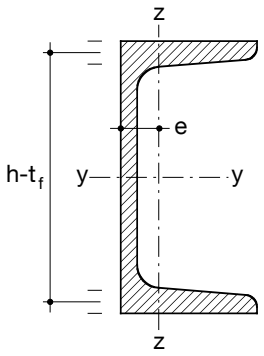
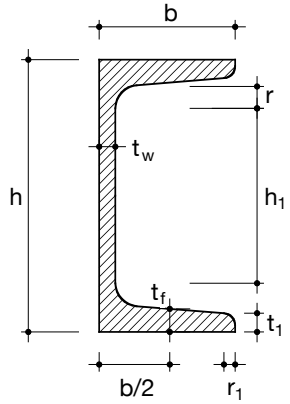



| IPE | Statische Werte | | | Profilmasse | | | | | | | IPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | A | $A_v$ | h | b | $t_w$ | $\overline{t_f}$ | r | $h_1$ | $h_2$ | |
| | kg/m | mm² | mm² | mm | mm | mm | mm | mm | mm | mm | |
| **80** | 6.0 | 764 | 357 | 80 | 46 | 3.8 | 5.2 | 5 | 60 | 70 | **80** |
| **100** | 8.1 | 1030 | 506 | 100 | 55 | 4.1 | 5.7 | 7 | 74 | 89 | **100** |
| **120** | 10.4 | 1320 | 630 | 120 | 64 | 4.4 | 6.3 | 7 | 92 | 107 | **120** |
| **140** | 12.9 | 1640 | 762 | 140 | 73 | 4.7 | 6.9 | 7 | 112 | 126 | **140** |
| **160** | 15.8 | 2010 | 967 | 160 | 82 | 5.0 | 7.4 | 9 | 126 | 145 | **160** |
| **180** | 18.8 | 2390 | 1120 | 180 | 91 | 5.3 | 8.0 | 9 | 146 | 164 | **180** |
| **200** | 22.4 | 2850 | 1402 | 200 | 100 | 5.6 | 8.5 | 12 | 158 | 183 | **200** |
| **220** | 26.2 | 3340 | 1591 | 220 | 110 | 5.9 | 9.2 | 12 | 178 | 202 | **220** |
| **240** | 30.7 | 3910 | 1913 | 240 | 120 | 6.2 | 9.8 | 15 | 190 | 220 | **240** |
| **270** | 36.1 | 4590 | 2209 | 270 | 135 | 6.6 | 10.2 | 15 | 220 | 250 | **270** |
| **300** | 42.2 | 5380 | 2567 | 300 | 150 | 7.1 | 10.7 | 15 | 248 | 279 | **300** |
| **330** | 49.1 | 6260 | 3080 | 330 | 160 | 7.5 | 11.5 | 18 | 270 | 307 | **330** |
| **360** | 57.1 | 7270 | 3511 | 360 | 170 | 8.0 | 12.7 | 18 | 298 | 335 | **360** |
| **400** | 66.3 | 8450 | 4273 | 400 | 180 | 8.6 | 13.5 | 21 | 330 | 373 | **400** |
| **450** | 77.6 | 9880 | 5082 | 450 | 190 | 9.4 | 14.6 | 21 | 378 | 421 | **450** |
| **500** | 90.7 | 11600 | 6035 | 500 | 200 | 10.2 | 16.0 | 21 | 426 | 468 | **500** |
| **550** | 106.0 | 13400 | 7193 | 550 | 210 | 11.1 | 17.2 | 24 | 468 | 516 | **550** |
| **600** | 122.0 | 15600 | 8380 | 600 | 220 | 12.0 | 19.0 | 24 | 514 | 562 | **600** |

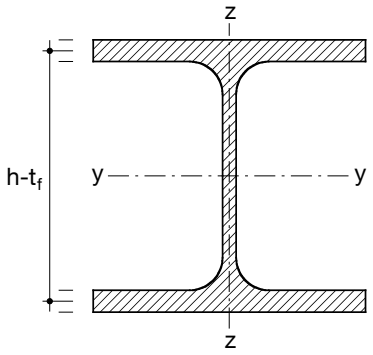
**IPE - Träger**

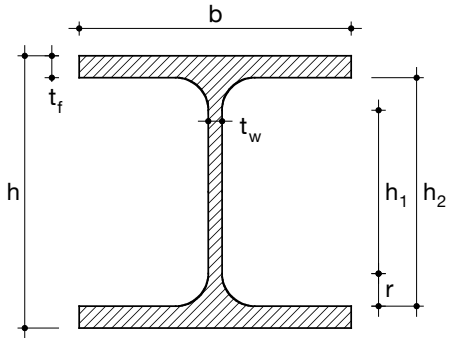



| UNP | Statische Werte | | | Profilmasse | | | | | | | | UNP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | A | $A_v$ | e | h | b | $t_w$ | $t_f$=r | $r_1$ | $h_1$ | $t_1$ | |
| | kg/m | $mm^2$ | $mm^2$ | mm | mm | mm | mm | mm | mm | mm | mm | |
| **65** | 7.09 | 903 | 371 | 14.2 | 65 | 42 | 5.5 | 7.5 | 4.0 | 33 | 5.8 | **65** |
| **80** | 8.64 | 1100 | 492 | 14.5 | 80 | 45 | 6.0 | 8.0 | 4.0 | 46 | 6.2 | **80** |
| **100** | 10.6 | 1350 | 623 | 15.5 | 100 | 50 | 6.0 | 8.5 | 4.5 | 64 | 6.5 | **100** |
| **120** | 13.4 | 1700 | 854 | 16.0 | 120 | 55 | 7.0 | 9.0 | 4.5 | 82 | 6.8 | **120** |
| **140** | 16.0 | 2040 | 1010 | 17.5 | 140 | 60 | 7.0 | 10.0 | 5.0 | 98 | 7.6 | **140** |
| **160** | 18.8 | 2400 | 1224 | 18.4 | 160 | 65 | 7.5 | 10.5 | 5.5 | 114 | 7.9 | **160** |
| **180** | 22.0 | 2800 | 1469 | 19.2 | 180 | 70 | 8.0 | 11.0 | 5.5 | 132 | 8.2 | **180** |
| **200** | 25.3 | 3220 | 1725 | 20.1 | 200 | 75 | 8.5 | 11.5 | 6.0 | 150 | 8.5 | **200** |
| **220** | 29.4 | 3740 | 2009 | 21.4 | 220 | 80 | 9.0 | 12.5 | 6.5 | 166 | 9.3 | **220** |
| **240** | 33.2 | 4230 | 2313 | 22.3 | 240 | 85 | 9.5 | 13.0 | 6.5 | 184 | 9.6 | **240** |
| **260** | 37.9 | 4830 | 2646 | 23.6 | 260 | 90 | 10.0 | 14.0 | 7.0 | 200 | 10.4 | **260** |
| **280** | 41.8 | 5330 | 2855 | 25.3 | 280 | 95 | 10.0 | 15.0 | 7.5 | 216 | 11.2 | **280** |
| **300** | 46.2 | 5880 | 3096 | 27.0 | 300 | 100 | 10.0 | 16.0 | 8.0 | 232 | 12.0 | **300** |
| **320** | 59.5 | 7580 | 4631 | 26.0 | 320 | 100 | 14.0 | 17.5 | 8.8 | 246 | 15.4 | **320** |
| **350** | 60.6 | 7730 | 5010 | 24.0 | 350 | 100 | 14.0 | 16.0 | 8.0 | 282 | 13.8 | **350** |
| **380** | 63.1 | 8040 | 5248 | 23.8 | 380 | 102 | 13.5 | 16.0 | 8.0 | 312 | 14.4 | **380** |
| **400** | 71.8 | 9150 | 5766 | 26.5 | 400 | 110 | 14.0 | 18.0 | 9.0 | 324 | 15.6 | **400** |

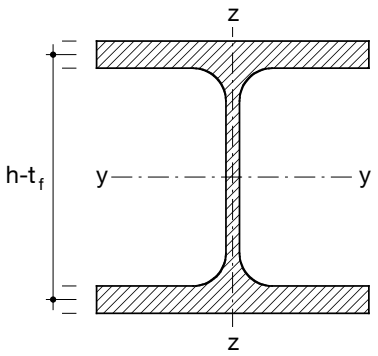
**UNP - Träger**

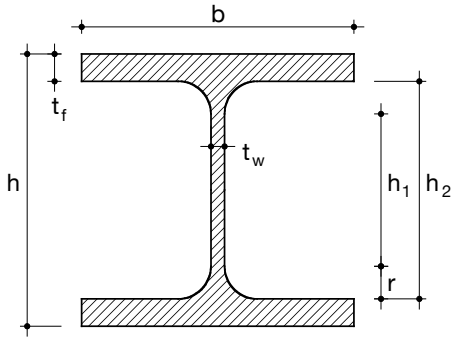



| HEA | Statische Werte | | | Profilmasse | | | | | | | HEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | A | $A_v$ | h | b | $t_w$ | $t_f$ | r | $h_1$ | $h_2$ | |
| | kg/m | $mm^2$ | $mm^2$ | mm | mm | mm | mm | mm | mm | mm | |
| **100** | 16.7 | 2120 | 752 | 96 | 100 | 5.0 | 8.0 | 12 | 56 | 80 | **100** |
| **120** | 19.9 | 2530 | 842 | 114 | 120 | 5.0 | 8.0 | 12 | 74 | 98 | **120** |
| **140** | 24.7 | 3140 | 1011 | 133 | 140 | 5.5 | 8.5 | 12 | 91 | 116 | **140** |
| **160** | 30.4 | 3880 | 1324 | 152 | 160 | 6.0 | 9.0 | 15 | 104 | 134 | **160** |
| **180** | 35.5 | 4530 | 1452 | 171 | 180 | 6.0 | 9.5 | 15 | 121 | 152 | **180** |
| **200** | 42.3 | 5380 | 1805 | 190 | 200 | 6.5 | 10.0 | 18 | 134 | 170 | **200** |
| **220** | 50.5 | 6430 | 2063 | 210 | 220 | 7.0 | 11.0 | 18 | 152 | 188 | **220** |
| **240** | 60.3 | 7680 | 2514 | 230 | 240 | 7.5 | 12.0 | 21 | 164 | 206 | **240** |
| **260** | 68.2 | 8680 | 2874 | 250 | 260 | 7.5 | 12.5 | 24 | 176 | 225 | **260** |
| **280** | 76.4 | 9730 | 3178 | 270 | 280 | 8.0 | 13.0 | 24 | 196 | 244 | **280** |
| **300** | 88.3 | 11300 | 3775 | 290 | 300 | 8.5 | 14.0 | 27 | 208 | 262 | **300** |
| **320** | 97.6 | 12400 | 4077 | 310 | 300 | 9.0 | 15.5 | 27 | 224 | 279 | **320** |
| **340** | 105.0 | 13300 | 4448 | 330 | 300 | 9.5 | 16.5 | 27 | 242 | 297 | **340** |
| **360** | 112.0 | 14300 | 4920 | 350 | 300 | 10.0 | 17.5 | 27 | 260 | 315 | **360** |
| **400** | 125.0 | 15900 | 5735 | 390 | 300 | 11.0 | 19.0 | 27 | 298 | 352 | **400** |
| **450** | 140.0 | 17800 | 6576 | 440 | 300 | 11.5 | 21.0 | 27 | 344 | 398 | **450** |
| **500** | 155.0 | 19800 | 7518 | 490 | 300 | 12.0 | 23.0 | 27 | 390 | 444 | **500** |
| **550** | 166.0 | 21200 | 8396 | 540 | 300 | 12.5 | 24.0 | 27 | 438 | 492 | **550** |
| **600** | 178.0 | 22600 | 9275 | 590 | 300 | 13.0 | 25.0 | 27 | 486 | 540 | **600** |
| **650** | 190.0 | 24200 | 10355 | 640 | 300 | 13.5 | 26.0 | 27 | 534 | 588 | **650** |
| **700** | 204.0 | 26000 | 11650 | 690 | 300 | 14.5 | 27.0 | 27 | 582 | 636 | **700** |
| **800** | 224.0 | 28600 | 13900 | 790 | 300 | 15.0 | 28.0 | 30 | 674 | 734 | **800** |
| **900** | 252.0 | 32100 | 16380 | 890 | 300 | 16.0 | 30.0 | 30 | 770 | 830 | **900** |
| **1000** | 272.0 | 34700 | 18472 | 990 | 300 | 16.5 | 31.0 | 30 | 868 | 928 | **1000** |

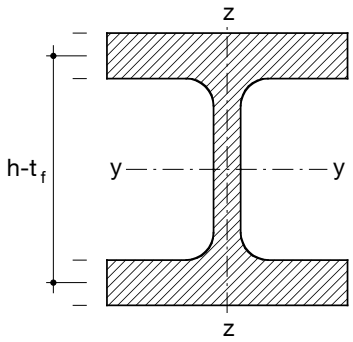
**HEA - Träger**

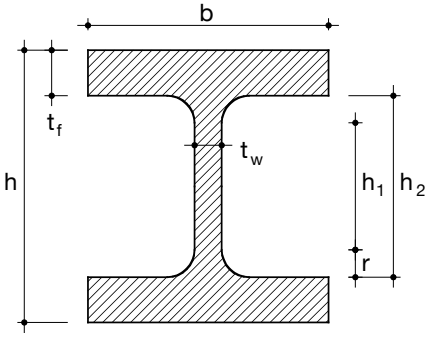



| HEB | Statische Werte | | | Profilmasse | | | | | | | HEB |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | A | $A_v$ | h | b | $t_w$ | $t_f$ | r | $h_1$ | $h_2$ | |
| | kg/m | $mm^2$ | $mm^2$ | mm | mm | mm | mm | mm | mm | mm | |
| **100** | 20.4 | 2600 | 900 | 100 | 100 | 6.0 | 10.0 | 12 | 56 | 80 | **100** |
| **120** | 26.7 | 3400 | 1096 | 120 | 120 | 6.5 | 11.0 | 12 | 74 | 98 | **120** |
| **140** | 33.7 | 4300 | 1312 | 140 | 140 | 7.0 | 12.0 | 12 | 92 | 116 | **140** |
| **160** | 42.6 | 5430 | 1764 | 160 | 160 | 8.0 | 13.0 | 15 | 104 | 134 | **160** |
| **180** | 51.2 | 6530 | 2029 | 180 | 180 | 8.5 | 14.0 | 15 | 122 | 152 | **180** |
| **200** | 61.3 | 7810 | 2485 | 200 | 200 | 9.0 | 15.0 | 18 | 134 | 170 | **200** |
| **220** | 71.5 | 9100 | 2788 | 220 | 220 | 9.5 | 16.0 | 18 | 152 | 188 | **220** |
| **240** | 83.2 | 10600 | 3324 | 240 | 240 | 10.0 | 17.0 | 21 | 164 | 206 | **240** |
| **260** | 93.0 | 11800 | 3715 | 260 | 260 | 10.0 | 17.5 | 24 | 176 | 225 | **260** |
| **280** | 103.0 | 13100 | 4073 | 280 | 280 | 10.5 | 18.0 | 24 | 196 | 244 | **280** |
| **300** | 117.0 | 14900 | 4735 | 300 | 300 | 11.0 | 19.0 | 27 | 208 | 262 | **300** |
| **320** | 127.0 | 16100 | 5143 | 320 | 300 | 11.5 | 20.5 | 27 | 224 | 279 | **320** |
| **340** | 134.0 | 17100 | 5619 | 340 | 300 | 12.0 | 21.5 | 27 | 242 | 297 | **340** |
| **360** | 142.0 | 18100 | 6096 | 360 | 300 | 12.5 | 22.5 | 27 | 260 | 315 | **360** |
| **400** | 155.0 | 19800 | 7020 | 400 | 300 | 13.5 | 24.0 | 27 | 298 | 352 | **400** |
| **450** | 171.0 | 21800 | 7968 | 450 | 300 | 14.0 | 26.0 | 27 | 344 | 398 | **450** |
| **500** | 187.0 | 23900 | 9018 | 500 | 300 | 14.5 | 28.0 | 27 | 390 | 444 | **500** |
| **550** | 199.0 | 25400 | 10001 | 550 | 300 | 15.0 | 29.0 | 27 | 438 | 492 | **550** |
| **600** | 212.0 | 27000 | 11085 | 600 | 300 | 15.5 | 30.0 | 27 | 486 | 540 | **600** |
| **650** | 225.0 | 28600 | 12170 | 650 | 300 | 16.0 | 31.0 | 27 | 534 | 588 | **650** |
| **700** | 241.0 | 30600 | 13672 | 700 | 300 | 17.0 | 32.0 | 27 | 582 | 636 | **700** |
| **800** | 262.0 | 33400 | 16158 | 800 | 300 | 17.5 | 33.0 | 30 | 674 | 734 | **800** |
| **900** | 291.0 | 37100 | 18848 | 900 | 300 | 18.5 | 35.0 | 30 | 770 | 830 | **900** |
| **1000** | 314.0 | 40000 | 21244 | 1000 | 300 | 19.0 | 36.0 | 30 | 868 | 928 | **1000** |

## HEB - Träger

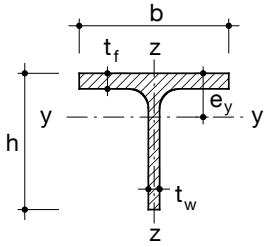



| HEM | Statische Werte | | | Profilmasse | | | | | | | HEM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | m | A | $A_v$ | h | b | $t_w$ | $t_f$ | r | $h_1$ | $h_2$ | |
| | kg/m | $mm^2$ | $mm^2$ | mm | mm | mm | mm | mm | mm | mm | |
| **100** | 41.8 | 5320 | 1800 | 120 | 106 | 12.0 | 20.0 | 12 | 56 | 80 | **100** |
| **120** | 52.1 | 6640 | 2115 | 140 | 126 | 12.5 | 21.0 | 12 | 74 | 98 | **120** |
| **140** | 63.2 | 8060 | 2450 | 160 | 146 | 13.0 | 22.0 | 12 | 92 | 116 | **140** |
| **160** | 76.2 | 9710 | 3086 | 180 | 166 | 14.0 | 23.0 | 15 | 104 | 134 | **160** |
| **180** | 88.9 | 11300 | 3440 | 200 | 186 | 14.5 | 24.0 | 15 | 122 | 152 | **180** |
| **200** | 103.0 | 13100 | 4075 | 220 | 206 | 15.0 | 25.0 | 18 | 134 | 170 | **200** |
| **220** | 117.0 | 14900 | 4487 | 240 | 226 | 15.5 | 26.0 | 18 | 152 | 188 | **220** |
| **240** | 157.0 | 20000 | 6048 | 270 | 248 | 18.0 | 32.0 | 21 | 164 | 206 | **240** |
| **260** | 172.0 | 22000 | 6725 | 290 | 268 | 18.0 | 32.5 | 24 | 176 | 225 | **260** |
| **280** | 189.0 | 24000 | 7187 | 310 | 288 | 18.5 | 33.0 | 24 | 196 | 244 | **280** |
| **300** | 238.0 | 30300 | 9045 | 340 | 310 | 21.0 | 39.0 | 27 | 208 | 262 | **300** |
| **320** | 245.0 | 31200 | 9480 | 359 | 309 | 21.0 | 40.0 | 27 | 225 | 279 | **320** |
| **340** | 248.0 | 31600 | 9880 | 377 | 309 | 21.0 | 40.0 | 27 | 243 | 297 | **340** |
| **360** | 250.0 | 31900 | 10260 | 395 | 308 | 21.0 | 40.0 | 27 | 261 | 315 | **360** |
| **400** | 256.0 | 32600 | 11040 | 432 | 307 | 21.0 | 40.0 | 27 | 298 | 352 | **400** |
| **450** | 263.0 | 33500 | 11940 | 478 | 307 | 21.0 | 40.0 | 27 | 344 | 398 | **450** |
| **500** | 270.0 | 34400 | 12920 | 524 | 306 | 21.0 | 40.0 | 27 | 390 | 444 | **500** |
| **550** | 278.0 | 35400 | 13920 | 572 | 306 | 21.0 | 40.0 | 27 | 438 | 492 | **550** |
| **600** | 285.0 | 36400 | 15000 | 620 | 305 | 21.0 | 40.0 | 27 | 486 | 540 | **600** |
| **650** | 293.0 | 37400 | 16000 | 668 | 305 | 21.0 | 40.0 | 27 | 534 | 588 | **650** |
| **700** | 301.0 | 38300 | 16980 | 716 | 304 | 21.0 | 40.0 | 27 | 582 | 636 | **700** |
| **800** | 317.0 | 40400 | 19400 | 814 | 303 | 21.0 | 40.0 | 30 | 674 | 734 | **800** |
| **900** | 333.0 | 42400 | 21480 | 910 | 302 | 21.0 | 40.0 | 30 | 770 | 830 | **900** |
| **1000** | 349.0 | 44400 | 23480 | 1008 | 302 | 21.0 | 40.0 | 30 | 868 | 928 | **1000** |

## HEM - Träger

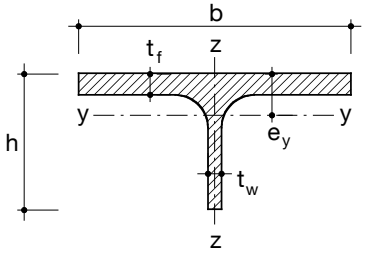
Andere Bezeichnung: 1/2 IPE
Halbierungsschnitt in der Regel durch Stahlbau-Unternehmer
Statische Werte berechnet ohne Schnittverlust




| IPET | Stat. Werte | | Abmess. Dimens. | | IPET |
|---|---|---|---|---|---|
| | m | A | h | b | |
| | kg/m | $mm^2$ | mm | mm | |
| **80** | 3.0 | 382 | 40 | 46 | **80** |
| **100** | 4.05 | 515 | 50 | 55 | **100** |
| **120** | 5.2 | 662 | 60 | 64 | **120** |
| **140** | 6.45 | 821 | 70 | 73 | **140** |
| **160** | 7.89 | 1010 | 80 | 82 | **160** |
| **180** | 9.4 | 1200 | 90 | 91 | **180** |
| **200** | 11.2 | 1420 | 100 | 100 | **200** |
| **220** | 13.1 | 1670 | 110 | 110 | **220** |
| **240** | 15.4 | 1960 | 120 | 120 | **240** |
| **270** | 18.0 | 2300 | 135 | 135 | **270** |
| **300** | 21.1 | 2690 | 150 | 150 | **300** |
| **330** | 24.6 | 3130 | 165 | 160 | **330** |
| **360** | 28.5 | 3640 | 180 | 170 | **360** |
| **400** | 33.2 | 4220 | 200 | 180 | **400** |
| **450** | 38.8 | 4940 | 225 | 190 | **450** |
| **500** | 45.3 | 5780 | 250 | 200 | **500** |
| **550** | 52.8 | 6720 | 275 | 210 | **550** |
| **600** | 61.2 | 7800 | 300 | 220 | **600** |

# IPET - Träger

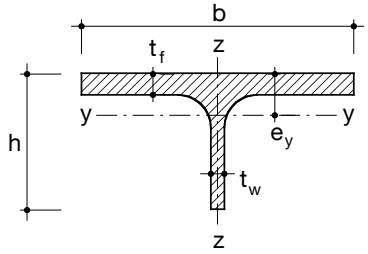
Andere Bezeichnung: 1/2 HEA
Halbierungsschnitt in der Regel durch Stahlbau-Unternehmer
Statische Werte berechnet ohne Schnittverlust




| HEAT | Stat. Werte | | Abmess. Dimens. | |
|---|---|---|---|---|
| | m | A | h | b |
| | kg/m | mm² | mm | mm |
| **100** | 8.34 | 1060 | 48 | 100 |
| **120** | 9.94 | 1270 | 57 | 120 |
| **140** | 12.3 | 1570 | 66 | 140 |
| **160** | 15.2 | 1940 | 76 | 160 |
| **180** | 17.8 | 2260 | 85 | 180 |
| **200** | 21.1 | 2690 | 95 | 200 |
| **220** | 25.3 | 3220 | 105 | 220 |
| **240** | 30.2 | 3840 | 115 | 240 |
| **260** | 34.1 | 4340 | 125 | 260 |
| **280** | 38.2 | 4860 | 135 | 280 |
| **300** | 44.2 | 5630 | 145 | 300 |
| **320** | 48.8 | 6220 | 155 | 300 |
| **340** | 52.4 | 6670 | 165 | 300 |
| **360** | 56.0 | 7140 | 175 | 300 |
| **400** | 62.4 | 7950 | 195 | 300 |
| **450** | 69.9 | 8900 | 220 | 300 |
| **500** | 77.5 | 9880 | 245 | 300 |
| **550** | 83.1 | 10600 | 270 | 300 |
| **600** | 88.9 | 11300 | 295 | 300 |

## HEAT - Träger

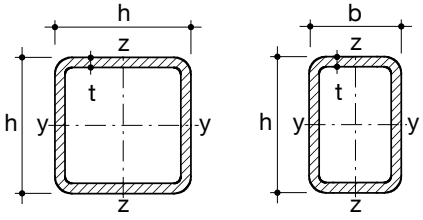
Andere Bezeichnung: 1/2 HEB
Halbierungsschnitt in der Regel durch Stahlbau-Unternehmer
Statische Werte berechnet ohne Schnittverlust




| HEBT | Stat. Werte | | Abmess. Dimens. | |
|---|---|---|---|---|
| | m | A | h | b |
| | kg/m | mm² | mm | mm |
| **100** | 10.2 | 1300 | 50 | 100 |
| **120** | 13.3 | 1700 | 60 | 120 |
| **140** | 16.9 | 2150 | 70 | 140 |
| **160** | 21.3 | 2710 | 80 | 160 |
| **180** | 25.6 | 3260 | 90 | 180 |
| **200** | 30.6 | 3900 | 100 | 200 |
| **220** | 35.7 | 4550 | 110 | 220 |
| **240** | 41.6 | 5300 | 120 | 240 |
| **260** | 46.5 | 5920 | 130 | 260 |
| **280** | 51.6 | 6570 | 140 | 280 |
| **300** | 58.5 | 7460 | 150 | 300 |
| **320** | 63.3 | 8070 | 160 | 300 |
| **340** | 67.1 | 8540 | 170 | 300 |
| **360** | 70.9 | 9030 | 180 | 300 |
| **400** | 77.6 | 9890 | 200 | 300 |
| **450** | 85.6 | 10900 | 225 | 300 |
| **500** | 93.7 | 11900 | 250 | 300 |
| **550** | 99.7 | 12700 | 275 | 300 |
| **600** | 106.0 | 13500 | 300 | 300 |

## HEBT - Träger

Quadratische/rechteckige Hohlprofile
Normallänge: 12 m




| RHS h | RHS h | RHS t | Stat. Werte m kg/m | Stat. Werte A mm² |
|---|---|---|---|---|
| **40** | **40** | **4.0** | 4.39 | 559 |
| **50** | **50** | **4.0** | 5.64 | 719 |
| | | **5.0** | 6.85 | 873 |
| **60** | **60** | **4.0** | 6.9 | 879 |
| | | **5.0** | 8.42 | 1070 |
| **70** | **70** | **5.0** | 9.99 | 1270 |
| **80** | **80** | **4.5** | 10.5 | 1340 |
| | | **5.0** | 11.6 | 1470 |
| | | **6.3** | 14.2 | 1810 |
| **90** | **90** | **3.6** | 9.66 | 1230 |
| | | **5.0** | 13.1 | 1670 |
| | | **6.3** | 16.2 | 2070 |
| | | **8.0** | 20.1 | 2560 |
| **100** | **100** | **4.0** | 11.9 | 1520 |
| | | **5.0** | 14.7 | 1870 |
| | | **6.3** | 18.2 | 2320 |
| | | **8.0** | 22.6 | 2880 |
| | | **10.0** | 27.4 | 3490 |
| **120** | **120** | **4.5** | 16.1 | 2060 |
| | | **5.0** | 17.8 | 2270 |
| | | **6.3** | 22.2 | 2820 |
| | | **8.0** | 27.6 | 3520 |
| | | **10.0** | 33.7 | 4290 |
| **140** | **140** | **5.0** | 21.0 | 2670 |
| | | **5.6** | 23.4 | 2980 |
| | | **8.0** | 32.6 | 4160 |
| | | **10.0** | 40.0 | 5090 |
| **150** | **150** | **5.0** | 22.6 | 2870 |
| | | **5.6** | 25.1 | 3200 |
| | | **8.0** | 35.1 | 4480 |
| | | **10.0** | 43.1 | 5490 |
| | | **12.5** | 52.7 | 6710 |

| RHS h | RHS h | RHS t | Stat. Werte m kg/m | Stat. Werte A mm² |
|---|---|---|---|---|
| **160** | **160** | **6.3** | 30.1 | 3830 |
| | | **10.0** | 46.3 | 5890 |
| **180** | **180** | **5.0** | 27.3 | 3470 |
| | | **6.3** | 34.0 | 4330 |
| | | **8.0** | 42.7 | 5440 |
| | | **10.0** | 52.5 | 6690 |
| | | **12.5** | 64.4 | 8210 |
| | | **16.0** | 80.2 | 10200 |
| **200** | **200** | **5.0** | 30.4 | 3870 |
| | | **6.3** | 38.0 | 4840 |
| | | **8.0** | 47.7 | 6080 |
| | | **10.0** | 58.8 | 7490 |
| | | **12.5** | 72.3 | 9210 |
| | | **16.0** | 90.3 | 11500 |
| **220** | **220** | **6.3** | 41.9 | 5340 |
| | | **10.0** | 65.1 | 8290 |
| **250** | **250** | **6.3** | 47.9 | 6100 |
| | | **8.0** | 60.3 | 7680 |
| | | **10.0** | 74.5 | 9490 |
| | | **12.5** | 91.9 | 11700 |
| | | **16.0** | 115.0 | 14700 |
| **260** | **260** | **8.0** | 62.8 | 8000 |
| | | **12.5** | 95.8 | 12200 |
| **300** | **300** | **10.0** | 90.2 | 11500 |
| | | **16.0** | 141.0 | 17900 |
| **350** | **350** | **10.0** | 106.0 | 13500 |
| | | **16.0** | 166.0 | 21100 |
| **400** | **400** | **10.0** | 122.0 | 15500 |
| | | **12.5** | 151.0 | 19200 |
| | | **16.0** | 191.0 | 24300 |

| RHS h | RHS b | RHS t | Stat. Werte m kg/m | Stat. Werte A mm² |
|---|---|---|---|---|
| **50** | **30** | **4.0** | 4.39 | 559 |
| **60** | **40** | **4.0** | 5.64 | 719 |
| | | **5.0** | 6.85 | 873 |
| **80** | **40** | **4.0** | 6.9 | 879 |
| | | **5.0** | 8.42 | 1070 |
| **90** | **50** | **5.0** | 9.99 | 1270 |
| **100** | **50** | **4.0** | 8.78 | 1120 |
| | | **5.0** | 10.8 | 1370 |
| | | **5.6** | 11.9 | 1520 |
| | | **8.0** | 16.3 | 2080 |
| **100** | **60** | **3.6** | 8.53 | 1090 |
| | | **5.0** | 11.6 | 1470 |
| | | **6.3** | 14.2 | 1810 |
| | | **8.0** | 17.5 | 2240 |
| **120** | **60** | **4.0** | 10.7 | 1360 |
| | | **5.0** | 13.1 | 1670 |
| | | **6.3** | 16.2 | 2070 |
| | | **8.0** | 20.1 | 2560 |
| **120** | **80** | **5.0** | 14.7 | 1870 |
| | | **6.3** | 18.2 | 2320 |
| | | **8.0** | 22.6 | 2880 |
| | | **10.0** | 27.4 | 3490 |
| **140** | **80** | **5.0** | 16.3 | 2070 |
| | | **8.0** | 25.1 | 3200 |
| **150** | **100** | **5.0** | 18.6 | 2370 |
| | | **6.3** | 23.1 | 2950 |
| | | **8.0** | 28.9 | 3680 |
| | | **10.0** | 35.3 | 4490 |
| **160** | **80** | **5.0** | 17.8 | 2270 |
| | | **6.3** | 22.2 | 2820 |
| | | **8.0** | 27.6 | 3520 |
| | | **10.0** | 33.7 | 4290 |
| | | **12.5** | 40.9 | 5210 |

| RHS h | RHS b | RHS t | Stat. Werte m kg/m | Stat. Werte A mm² |
|---|---|---|---|---|
| **180** | **100** | **5.6** | 23.4 | 2980 |
| | | **10.0** | 40.0 | 5090 |
| **200** | **100** | **5.0** | 22.6 | 2870 |
| | | **6.3** | 28.1 | 3580 |
| | | **8.0** | 35.1 | 4480 |
| | | **10.0** | 43.1 | 5490 |
| | | **12.5** | 52.7 | 6710 |
| | | **16.0** | 65.2 | 8300 |
| **200** | **120** | **6.3** | 30.1 | 3830 |
| | | **10.0** | 46.3 | 5890 |
| **250** | **150** | **6.3** | 38.0 | 4840 |
| | | **8.0** | 47.7 | 6080 |
| | | **10.0** | 58.5 | 7490 |
| | | **12.5** | 72.3 | 9210 |
| | | **16.0** | 90.3 | 11500 |
| **260** | **180** | **8.0** | 52.7 | 6720 |
| **300** | **100** | **8.0** | 47.7 | 6080 |
| **300** | **200** | **8.0** | 60.3 | 7680 |
| | | **10.0** | 74.5 | 9490 |
| | | **12.5** | 91.9 | 11700 |
| | | **16.0** | 115.0 | 14700 |
| **350** | **250** | **10.0** | 90.2 | 11500 |
| **400** | **200** | **10.0** | 90.2 | 11500 |
| | | **12.5** | 112.0 | 14200 |
| | | **16.0** | 141.0 | 17900 |
| **450** | **250** | **10.0** | 106.0 | 13500 |
| | | **16.0** | 166.0 | 21100 |
| **500** | **300** | **10.0** | 122.0 | 15500 |
| | | **16.0** | 191.0 | 24300 |

## RHS

| ROR | | Stat. Werte | |
|---|---|---|---|
| | | m | A |
| d | t | kg/m | mm² |
| 21.3 | 2.0 | 0.95 | 121 |
| 26.9 | 2.3 | 1.4 | 178 |
| | 5.0 | 2.7 | 344 |
| 33.7 | 2.3 | 1.78 | 227 |
| | 2.6 | 1.99 | 254 |
| | 5.0 | 3.54 | 451 |
| 38.0 | 2.3 | 2.02 | 258 |
| | 2.6 | 2.27 | 289 |
| | 5.0 | 4.07 | 518 |
| 42.4 | 2.3 | 2.27 | 290 |
| | 2.6 | 2.55 | 325 |
| | 5.0 | 4.61 | 587 |
| | 7.1 | 6.18 | 787 |
| | 10.0 | 7.99 | 1020 |
| 44.5 | 2.3 | 2.39 | 305 |
| | 2.6 | 2.69 | 342 |
| | 5.0 | 4.87 | 620 |
| | 7.1 | 6.55 | 834 |
| | 10.0 | 8.51 | 1080 |
| 48.3 | 2.3 | 2.61 | 332 |
| | 2.6 | 2.93 | 373 |
| | 5.0 | 5.34 | 680 |
| | 7.1 | 7.21 | 919 |
| | 10.0 | 9.45 | 1200 |
| 51.0 | 2.6 | 3.1 | 395 |
| | 5.0 | 5.67 | 723 |
| | 7.1 | 7.69 | 979 |
| | 10.0 | 10.1 | 1290 |
| 54.0 | 2.6 | 3.3 | 420 |
| | 5.0 | 6.04 | 770 |
| | 7.1 | 8.21 | 1050 |
| | 10.0 | 10.9 | 1380 |

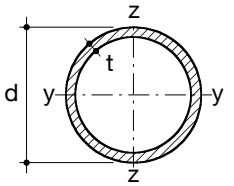
| ROR | | Stat. Werte | |
|---|---|---|---|
| | | m | A |
| d | t | kg/m | mm² |
| 57.0 | 2.6 | 3.49 | 444 |
| | 2.9 | 3.87 | 493 |
| | 5.0 | 6.41 | 817 |
| | 7.1 | 8.74 | 1110 |
| | 10.0 | 11.6 | 1418 |
| 60.3 | 2.9 | 4.11 | 523 |
| | 5.0 | 6.82 | 869 |
| | 7.1 | 9.32 | 1190 |
| | 10.0 | 12.4 | 1580 |
| 63.5 | 2.9 | 4.33 | 552 |
| | 5.0 | 7.21 | 919 |
| | 7.1 | 9.88 | 1260 |
| | 10.0 | 13.2 | 1680 |
| 70.0 | 2.9 | 4.8 | 611 |
| | 5.0 | 8.01 | 1020 |
| | 7.1 | 11 | 1400 |
| | 10.0 | 14.8 | 1880 |
| 76.1 | 2.9 | 5.24 | 667 |
| | 5.0 | 8.77 | 1120 |
| | 7.1 | 12.1 | 1540 |
| | 10.0 | 16.3 | 2080 |
| 82.5 | 3.2 | 6.26 | 797 |
| | 5.0 | 9.56 | 1220 |
| | 7.1 | 13.2 | 1680 |
| | 10.0 | 17.9 | 2280 |
| 88.9 | 3.2 | 6.76 | 862 |
| | 5.0 | 10.3 | 1320 |
| | 7.1 | 14.3 | 1820 |
| | 10.0 | 19.5 | 2480 |
| | 12.5 | 23.6 | 3000 |

| ROR | | Stat. Werte | |
|---|---|---|---|
| | | m | A |
| d | t | kg/m | mm² |
| 95.0 | 3.2 | 7.25 | 923 |
| | 3.6 | 8.11 | 1034 |
| | 8.0 | 17.2 | 2190 |
| | 10.0 | 21 | 2670 |
| | 12.5 | 25.4 | 3240 |
| 101.6 | 3.6 | 8.7 | 1110 |
| | 5.0 | 11.9 | 1520 |
| | 7.1 | 16.5 | 2110 |
| | 10.0 | 22.6 | 2880 |
| | 12.5 | 27.5 | 3500 |
| 108.0 | 3.6 | 9.27 | 1180 |
| | 5.0 | 12.7 | 1620 |
| | 7.1 | 17.7 | 2250 |
| | 10.0 | 24.2 | 3080 |
| | 12.5 | 29.4 | 3750 |

| ROR | | Stat. Werte | |
|---|---|---|---|
| | | m | A |
| d | t | kg/m | mm² |
| 114.3 | 3.6 | 9.83 | 1250 |
| | 7.1 | 18.8 | 2390 |
| | 10.0 | 25.7 | 3280 |
| | 12.5 | 31.4 | 4000 |
| | 16.0 | 38.8 | 4940 |
| 121.0 | 4.0 | 11.5 | 1470 |
| | 7.1 | 19.9 | 2540 |
| | 10.0 | 27.4 | 3490 |
| | 12.5 | 33.5 | 4260 |
| | 16.0 | 41.4 | 5280 |
| 127.0 | 4.0 | 12.1 | 1550 |
| | 7.1 | 21.0 | 2670 |
| | 10.0 | 28.9 | 3680 |
| | 12.5 | 35.3 | 4500 |
| | 16.0 | 43.8 | 5580 |
| 133.0 | 4.0 | 12.7 | 1620 |
| | 7.1 | 22.0 | 2810 |
| | 10.0 | 30.3 | 3860 |
| | 12.5 | 37.1 | 4730 |
| | 16.0 | 46.2 | 5880 |
| | 25.0 | 66.6 | 8480 |
| 139.7 | 4.0 | 13.4 | 1710 |
| | 7.1 | 23.2 | 2960 |
| | 10.0 | 32.0 | 4070 |
| | 12.5 | 39.2 | 5000 |
| | 16.0 | 48.8 | 6220 |
| | 25.0 | 70.7 | 9010 |
| 152.4 | 4.0 | 14.6 | 1860 |
| | 4.5 | 16.4 | 2090 |
| | 7.1 | 25.4 | 3240 |
| | 10.0 | 35.1 | 4470 |
| | 12.5 | 43.1 | 5490 |
| | 16.0 | 53.8 | 6860 |
| | 25.0 | 78.5 | 10000 |

| ROR | | Stat. Werte | |
|---|---|---|---|
| | | m | A |
| d | t | kg/m | mm² |
| 159.0 | 4.0 | 15.3 | 1950 |
| | 4.5 | 17.1 | 2180 |
| | 7.1 | 26.6 | 3390 |
| | 10.0 | 36.7 | 4680 |
| | 12.5 | 45.2 | 5750 |
| | 16.0 | 56.4 | 7190 |
| | 25.0 | 82.6 | 10500 |
| 168.3 | 4.0 | 16.2 | 2060 |
| | 4.5 | 18.2 | 2320 |
| | 7.1 | 28.2 | 3600 |
| | 10.0 | 39.0 | 4970 |
| | 12.5 | 48.0 | 6120 |
| | 16.0 | 60.1 | 7660 |
| | 25.0 | 88.4 | 11300 |
| 177.8 | 4.5 | 19.2 | 2450 |
| | 5.0 | 21.3 | 2710 |
| | 10.0 | 41.4 | 5270 |
| | 16.0 | 63.8 | 8130 |
| | 25.0 | 94.2 | 12000 |
| 193.7 | 4.5 | 21.0 | 2670 |
| | 5.6 | 26.0 | 3310 |
| | 10.0 | 45.3 | 5770 |
| | 16.0 | 70.1 | 8930 |
| | 25.0 | 104.0 | 13200 |
| 219.1 | 4.5 | 23.8 | 3030 |
| | 6.3 | 33.1 | 4210 |
| | 10.0 | 51.6 | 6570 |
| | 16.0 | 80.1 | 10200 |
| | 25.0 | 120.0 | 15200 |
| | 40.0 | 177.0 | 22500 |

| ROR | | Stat. Werte | |
|---|---|---|---|
| | | m | A |
| d | t | kg/m | mm² |
| 244.5 | 5.0 | 29.5 | 3760 |
| | 6.3 | 37.0 | 4710 |
| | 10.0 | 57.8 | 7370 |
| | 16.0 | 90.2 | 11500 |
| | 25.0 | 135.0 | 17200 |
| | 40.0 | 202.0 | 25700 |
| 273.0 | 5.0 | 33.0 | 4210 |
| | 6.3 | 41.4 | 5280 |
| | 10.0 | 64.9 | 8260 |
| | 16.0 | 101.0 | 12900 |
| | 25.0 | 153.0 | 19500 |
| | 40.0 | 230.0 | 29300 |
| 298.5 | 7.1 | 51.0 | 6500 |
| | 10.0 | 71.1 | 9060 |
| | 16.0 | 111.0 | 14200 |
| | 25.0 | 169.0 | 21500 |
| | 40.0 | 255.0 | 32500 |
| 323.9 | 5.6 | 44.0 | 5600 |
| | 7.1 | 55.5 | 7070 |
| | 10.0 | 77.4 | 9860 |
| | 16.0 | 121.0 | 15500 |
| | 25.0 | 184.0 | 23500 |
| | 40.0 | 280.0 | 35700 |
| | 60.0 | 390.0 | 49700 |




## ROR