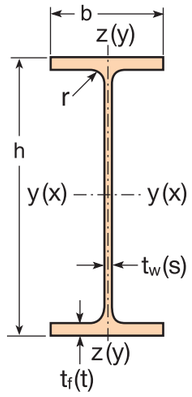


## Europäische Breitflanschträger
gemäß EN 10365
Toleranzen nach EN 10034

## European wide flange beams
in accordance with EN 10365
Tolerances in accordance with EN 10034

## Poutrelles européennes à larges ailes
conformes à EN 10365
Tolérances selon EN 10034

| Bezeichnung / Designation / Désignation | | Abmessungen / Dimensions / Dimensions | | | | | | | | Statische Kennwerte / Section properties / Valeurs statiques | | | | | | | | | | | | | | | | | | Klassifikation / Classification / Classification | | | | | | Profilfaktoren / Profile factors / Facteurs de Massiveté | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | starke Achse y-y / strong axis y-y / axe fort y-y | | | | | schwache Achse z-z / weak axis z-z / axe faible z-z | | | | | | | reine Biegung y-y / pure bending y-y / flexion pure y-y | | | reiner Druck / pure compression / compression pure | | | | | | | | |
| **HL** | | G | h | b | $t_w$ | $t_f$ | r | A | U | $I_y$ | $W_y$ | $W_{pl,y}$ | $i_y$ | $A_{vz}$ | $I_z$ | $W_z$ | $W_{pl,z}$ | $i_z$ | $I_T$ | $I\omega \cdot 10^{-3}$ | $i_{z,g}$ | S 235 | S 355 | S 460 | S 235 | S 355 | S 460 | $B_1$ | $B_2$ | $B_3$ | $B_4$ |
| | | kg/m | mm | mm | mm | mm | mm | $cm^2$ | $m^2/m$ | $cm^4$ | $cm^3$ | $cm^3$ | cm | $cm^2$ | $cm^4$ | $cm^3$ | $cm^3$ | cm | $cm^4$ | $cm^6$ | cm | | | | | | | $m^{-1}$ | $m^{-1}$ | $m^{-1}$ | $m^{-1}$ |
| HL | 920 x 342 * | 342 | 911,8 | 418,0 | 19,3 | 32,0 | 24 | 436 | 3,416 | 624581 | 13700 | 15443 | 37,84 | 190 | 39015 | 1867 | 2882 | 9,46 | 1193 | 75376 | 10,74 | 1 | 1 | 1 | 3 | 4 | 4 | 69 | 78 | 51 | 61 |
| HL | 920 x 344 | 345 | 927,0 | 418,0 | 19,31 | 32,0 | 24 | 439 | 3,446 | 648360 | 13988 | 15778 | 38,43 | 193 | 39016 | 1867 | 2883 | 9,43 | 1197 | 78003 | 10,72 | 1 | 1 | 1 | 4 | 4 | 4 | 69 | 78 | 52 | 61 |
| HL | 920 x 365 * | 365 | 916,4 | 419,0 | 20,3 | 34,3 | 24 | 464 | 3,427 | 671160 | 14648 | 16532 | 38,01 | 200 | 42124 | 2011 | 3106 | 9,52 | 1446 | 81801 | 10,79 | 1 | 1 | 1 | 3 | 4 | 4 | 65 | 74 | 48 | 58 |
| HL | 920 x 368 | 367 | 931,4 | 419,4 | 20,3 | 34,3 | 24 | 468 | 3,459 | 696772 | 14962 | 16894 | 38,59 | 204 | 42245 | 2015 | 3113 | 9,50 | 1451 | 84850 | 10,79 | 1 | 1 | 1 | 3 | 4 | 4 | 65 | 74 | 49 | 58 |
| HL | 920 x 387 * | 387 | 921,0 | 420,0 | 21,3 | 36,6 | 24 | 493 | 3,438 | 718339 | 15599 | 17629 | 38,17 | 211 | 45276 | 2156 | 3332 | 9,58 | 1734 | 88372 | 10,84 | 1 | 1 | 1 | 2 | 4 | 4 | 61 | 70 | 46 | 54 |
| HL | 920 x 390 | 389 | 936,0 | 420,0 | 21,3 | 36,6 | 24 | 496 | 3,468 | 745061 | 15920 | 18000 | 38,75 | 214 | 45277 | 2156 | 3334 | 9,55 | 1738 | 91395 | 10,83 | 1 | 1 | 1 | 3 | 4 | 4 | 61 | 70 | 46 | 55 |
| HL | 1000 x 258 * | 258 | 970,0 | 400,0 | 16,5 | 21,0 | 30 | 329 | 3,455 | 504360 | 10399 | 11877 | 39,16 | 177 | 22454 | 1123 | 1755 | 8,26 | 483 | 50434 | 9,73 | 1 | 2 | 3 | 4 | 4 | 4 | 93 | 105 | 71 | 83 |
| HL | 1000 AA | 258 | 970,0 | 400,0 | 16,5 | 21,0 | 30 | 329 | 3,455 | 504360 | 10399 | 11877 | 39,16 | 177 | 22454 | 1123 | 1755 | 8,26 | 483 | 50434 | 9,73 | 1 | 2 | 3 | 4 | 4 | 4 | 93 | 105 | 71 | 83 |
| HL | 1000 x 315 * | 315 | 980,0 | 401,0 | 20,0 | 26,0 | 30 | 402 | 3,472 | 623916 | 12733 | 14606 | 39,40 | 214 | 28028 | 1398 | 2196 | 8,35 | 857 | 63576 | 9,82 | 1 | 1 | 1 | 4 | 4 | 4 | 76 | 86 | 59 | 69 |
| HL | 1000 A | 321 | 990,0 | 400,0 | 16,5 | 31,0 | 30 | 409 | 3,495 | 696446 | 14070 | 15797 | 41,27 | 185 | 33121 | 1656 | 2555 | 9,00 | 1021 | 76027 | 10,22 | 1 | 1 | 2 | 4 | 4 | 4 | 76 | 85 | 58 | 68 |
| HL | 1000 B | 371 | 1000,0 | 400,0 | 19,0 | 36,0 | 30 | 472 | 3,510 | 812099 | 16242 | 18326 | 41,48 | 212 | 38476 | 1924 | 2976 | 9,03 | 1565 | 89212 | 10,25 | 1 | 1 | 1 | 4 | 4 | 4 | 66 | 74 | 51 | 59 |
| HL | 1000 M | 412 | 1008,0 | 402,0 | 21,0 | 40,0 | 30 | 524 | 3,530 | 909811 | 18052 | 20440 | 41,66 | 235 | 43407 | 2160 | 3348 | 9,10 | 2128 | 101456 | 10,32 | 1 | 1 | 1 | 3 | 4 | 4 | 60 | 67 | 46 | 54 |
| HL | 1000 x 443 | 442 | 1012,0 | 402,0 | 23,6 | 41,9 | 30 | 564 | 3,533 | 966512 | 19101 | 21777 | 41,41 | 262 | 45498 | 2264 | 3529 | 8,98 | 2545 | 106737 | 10,25 | 1 | 1 | 1 | 2 | 4 | 4 | 56 | 63 | 43 | 50 |
| HL | 1000 x 477 | 477 | 1018,0 | 404,0 | 25,5 | 45,0 | 30 | 608 | 3,549 | 1047174 | 20573 | 23532 | 41,50 | 283 | 49614 | 2456 | 3838 | 9,03 | 3159 | 117050 | 10,31 | 1 | 1 | 1 | 2 | 3 | 4 | 52 | 58 | 40 | 47 |
| HL | 1000 x 483 | 483 | 1020,0 | 404,0 | 25,4 | 46,0 | 30 | 615 | 3,554 | 1067483 | 20931 | 23923 | 41,66 | 283 | 50712 | 2510 | 3919 | 9,08 | 3311 | 119897 | 10,34 | 1 | 1 | 1 | 2 | 3 | 4 | 51 | 58 | 40 | 46 |
| HL | 1000 x 539 | 539 | 1030,0 | 407,0 | 28,4 | 51,1 | 30 | 687 | 3,580 | 1202538 | 23350 | 26824 | 41,83 | 316 | 57632 | 2832 | 4436 | 9,16 | 4546 | 137553 | 10,43 | 1 | 1 | 1 | 1 | 2 | 4 | 46 | 52 | 36 | 42 |
| HL | 1000 x 554 | 554 | 1032,0 | 408,0 | 29,5 | 52,0 | 30 | 706 | 3,585 | 1232372 | 23883 | 27496 | 41,79 | 328 | 59098 | 2897 | 4547 | 9,15 | 4860 | 141327 | 10,44 | 1 | 1 | 1 | 1 | 2 | 3 | 45 | 51 | 35 | 41 |
| HL | 1000 x 591 | 591 | 1039,8 | 409,0 | 31,0 | 55,9 | 30 | 753 | 3,602 | 1330445 | 25590 | 29522 | 42,04 | 346 | 64014 | 3130 | 4916 | 9,22 | 5927 | 154267 | 10,49 | 1 | 1 | 1 | 1 | 2 | 3 | 42 | 48 | 33 | 38 |
| HL | 1000 x 642 | 642 | 1048,0 | 412,0 | 34,0 | 60,0 | 30 | 818 | 3,624 | 1450589 | 27683 | 32097 | 42,12 | 380 | 70284 | 3412 | 5379 | 9,27 | 7440 | 170665 | 10,56 | 1 | 1 | 1 | 1 | 1 | 2 | 39 | 44 | 31 | 36 |
| HL | 1100 A | 343 | 1090,0 | 400,0 | 18,00 | 31,0 | 20 | 436 | 3,710 | 867388 | 15915 | 18062 | 44,58 | 206 | 33123 | 1656 | 2568 | 8,71 | 1037 | 92709 | 10,08 | 1 | 1 | 2 | 4 | 4 | 4 | 76 | 85 | 59 | 68 |
| HL | 1100 B | 390 | 1100,0 | 400,0 | 20,00 | 36,0 | 20 | 497 | 3,726 | 1005397 | 18280 | 20780 | 44,98 | 231 | 38476 | 1924 | 2988 | 8,80 | 1564 | 108681 | 10,14 | 1 | 1 | 1 | 4 | 4 | 4 | 67 | 75 | 52 | 60 |
| HL | 1100 M | 433 | 1108,0 | 402,0 | 22,00 | 40,0 | 20 | 551 | 3,746 | 1125574 | 20317 | 23161 | 45,19 | 254 | 43410 | 2160 | 3362 | 8,87 | 2130 | 123501 | 10,21 | 1 | 1 | 1 | 4 | 4 | 4 | 61 | 68 | 47 | 55 |
| HL | 1100 x 464 * | 464 | 1118,0 | 402,0 | 22,00 | 45,0 | 20 | 591 | 3,766 | 1250071 | 22363 | 25398 | 45,98 | 257 | 48824 | 2429 | 3766 | 9,09 | 2821 | 140242 | 10,35 | 1 | 1 | 1 | 4 | 4 | 4 | 57 | 64 | 45 | 51 |
| HL | 1100 R | 499 | 1118,0 | 405,0 | 26,00 | 45,0 | 20 | 635 | 3,770 | 1294060 | 23150 | 26599 | 45,14 | 300 | 49984 | 2468 | 3870 | 8,87 | 3135 | 143405 | 10,25 | 1 | 1 | 1 | 2 | 4 | 4 | 53 | 59 | 42 | 48 |

* nicht genormt

** are not standardised*

** ne sont pas normalises*


HL