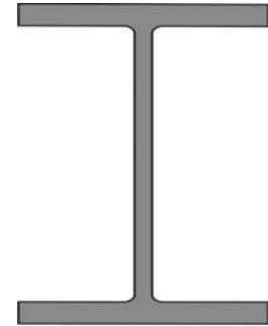




## European Wide Flange Beams ( HE )



| Designation | G<br>Kg/m | Dimensions |         |                      |                      |         | A<br>mm <sup>2</sup><br>X10 <sup>2</sup> | Dimensions for detailing |         |     |                        |                        | Surface                                 |                                     |
|-------------|-----------|------------|---------|----------------------|----------------------|---------|--|--------------------------|---------|-----|------------------------|------------------------|---|-------------------------------------|
|             |           | h<br>mm    | b<br>mm | t <sub>w</sub><br>mm | t <sub>f</sub><br>mm | r<br>mm |  | h <sub>i</sub><br>mm     | d<br>mm | ∅   | P <sub>min</sub><br>mm | P <sub>max</sub><br>mm | A <sub>L</sub><br>m <sup>2</sup> /<br>m | A <sub>G</sub><br>m <sup>2</sup> /t |
| HE 100 AA*  | 12,2      | 91         | 100     | 4,2                  | 5,5                  | 12      | 15,6                                     | 80                       | 56      | M10 | 54                     | 58                     | 0,553                                   | 45,17                               |
| HE 100 A    | 16,7      | 96         | 100     | 5                    | 8                    | 12      | 21,2                                     | 80                       | 56      | M10 | 54                     | 58                     | 0,561                                   | 36,68                               |
| HE 100 B    | 20,4      | 100        | 100     | 6                    | 10                   | 12      | 26,0                                     | 80                       | 56      | M10 | 56                     | 58                     | 0,567                                   | 27,76                               |
| HE 100 C*   | 30,9      | 110        | 103     | 9                    | 15                   | 12      | 39,3                                     | 80                       | 56      | M10 | 59                     | 61                     | 0,593                                   | 19,23                               |
| HE 100 M    | 41,8      | 120        | 106     | 12                   | 20                   | 12      | 53,2                                     | 80                       | 56      | M10 | 62                     | 64                     | 0,619                                   | 14,82                               |
| HE 120 AA*  | 14,6      | 109        | 120     | 4,2                  | 5,5                  | 12      | 18,6                                     | 98                       | 74      | M12 | 58                     | 68                     | 0,669                                   | 45,94                               |
| HE 120 A    | 19,9      | 114        | 120     | 5                    | 8                    | 12      | 25,3                                     | 98                       | 74      | M12 | 58                     | 68                     | 0,677                                   | 34,06                               |
| HE 120 B    | 26,7      | 120        | 120     | 6,5                  | 11                   | 12      | 34,0                                     | 98                       | 74      | M12 | 60                     | 68                     | 0,686                                   | 25,71                               |
| HE 120 C*   | 39,2      | 130        | 123     | 9,5                  | 16                   | 12      | 49,9                                     | 98                       | 74      | M12 | 63                     | 72                     | 0,712                                   | 18,19                               |
| HE 120 M    | 52,1      | 140        | 126     | 12,5                 | 21                   | 12      | 66,4                                     | 98                       | 74      | M12 | 66                     | 74                     | 0,738                                   | 14,16                               |
| HE 140 AA*  | 18,1      | 128        | 140     | 4,3                  | 6                    | 12      | 23,0                                     | 116                      | 92      | M16 | 64                     | 76                     | 0,787                                   | 43,53                               |
| HE 140 A    | 24,7      | 133        | 140     | 5,5                  | 8,5                  | 12      | 31,4                                     | 116                      | 92      | M16 | 64                     | 76                     | 0,794                                   | 32,21                               |
| HE 140 B    | 33,7      | 140        | 140     | 7                    | 12                   | 12      | 43,0                                     | 116                      | 92      | M16 | 66                     | 76                     | 0,805                                   | 23,88                               |
| HE 140 C*   | 48,2      | 150        | 143     | 10                   | 17                   | 12      | 61,5                                     | 116                      | 92      | M16 | 69                     | 79                     | 0,831                                   | 17,22                               |
| HE 140 M    | 63,2      | 160        | 146     | 13                   | 22                   | 12      | 80,6                                     | 116                      | 92      | M16 | 72                     | 82                     | 0,857                                   | 13,56                               |
| HE 160 AA*  | 23,8      | 148        | 160     | 4,5                  | 7                    | 15      | 30,4                                     | 134                      | 104     | M20 | 76                     | 84                     | 0,901                                   | 37,81                               |
| HE 160 A    | 30,4      | 152        | 160     | 6,                   | 9                    | 15      | 38,8                                     | 134                      | 104     | M20 | 78                     | 84                     | 0,906                                   | 29,78                               |
| HE 160 B    | 42,6      | 160        | 160     | 8                    | 13                   | 15      | 54,3                                     | 134                      | 104     | M20 | 80                     | 84                     | 0,918                                   | 21,56                               |
| HE 160C *   | 59,2      | 170        | 163     | 11                   | 18                   | 15      | 75,4                                     | 134                      | 104     | M20 | 84                     | 88                     | 0,944                                   | 15,95                               |
| HE 160 M    | 76,2      | 180        | 166     | 14                   | 23                   | 15      | 97,1                                     | 134                      | 104     | M20 | 86                     | 90                     | 0,970                                   | 12,74                               |



|            |      |     |     |      |      |    |       |     |     |     |     |     |      |       |
|------------|------|-----|-----|------|------|----|-------|-----|-----|-----|-----|-----|------|-------|
| HE 180 AA  | 28,7 | 167 | 180 | 5    | 7,5  | 15 | 36,5  | 152 | 122 | M24 | 84  | 92  | 1018 | 35,51 |
| HE 180 A   | 35,5 | 171 | 180 | 6    | 9,5  | 15 | 45,3  | 152 | 122 | M24 | 86  | 92  | 1024 | 28,83 |
| HE 180 B   | 51,2 | 180 | 180 | 8,5  | 14   | 15 | 65,3  | 152 | 122 | M24 | 88  | 92  | 1037 | 20,25 |
| HE 180 C*  | 69,8 | 190 | 183 | 11,5 | 19   | 15 | 89,0  | 152 | 122 | M24 | 92  | 96  | 1063 | 15,22 |
| HE 180 M   | 88,9 | 200 | 186 | 14,5 | 24   | 15 | 113,3 | 152 | 122 | M24 | 94  | 98  | 1089 | 12,25 |
| HE 200 AA* | 34,6 | 186 | 200 | 5,5  | 8    | 18 | 44,1  | 170 | 134 | M27 | 96  | 100 | 1130 | 32,62 |
| HE 200 A   | 42,3 | 190 | 200 | 6,5  | 10   | 18 | 53,8  | 170 | 134 | M27 | 98  | 100 | 1136 | 26,89 |
| HE 200 B   | 61,3 | 200 | 200 | 9    | 15   | 18 | 78,1  | 170 | 134 | M27 | 100 | 100 | 1151 | 18,78 |
| HE 200 C*  | 81,9 | 210 | 203 | 12   | 20   | 18 | 104,4 | 170 | 134 | M27 | 104 | 104 | 1177 | 14,36 |
| HE 200 M   | 103  | 220 | 206 | 15   | 25   | 18 | 131,3 | 170 | 134 | M27 | 106 | 106 | 1203 | 11,67 |
| HE 220 AA* | 40,4 | 205 | 220 | 6    | 8,5  | 18 | 51,5  | 188 | 152 | M27 | 98  | 118 | 1247 | 30,87 |
| HE 220 A   | 50,5 | 210 | 220 | 7    | 11   | 18 | 64,3  | 188 | 152 | M27 | 98  | 118 | 1255 | 24,85 |
| HE 220 B   | 71,5 | 220 | 220 | 9,5  | 16   | 18 | 91,0  | 188 | 152 | M27 | 100 | 118 | 1270 | 17,77 |
| HE 220 C   | 94,1 | 230 | 223 | 12,5 | 21   | 18 | 119,9 | 188 | 152 | M27 | 104 | 122 | 1296 | 13,77 |
| HE 220 M   | 117  | 240 | 226 | 15,5 | 26   | 18 | 149,4 | 188 | 152 | M27 | 108 | 124 | 1322 | 11,27 |
| HE 240 AA* | 47,4 | 224 | 240 | 6,5  | 9    | 21 | 60,4  | 206 | 164 | M27 | 104 | 138 | 1359 | 28,67 |
| HE 240 A   | 60,3 | 230 | 240 | 7,5  | 12   | 21 | 76,8  | 206 | 164 | M27 | 104 | 138 | 1369 | 22,70 |
| HE 240 B   | 83,2 | 240 | 240 | 10   | 17   | 21 | 106,0 | 206 | 164 | M27 | 108 | 138 | 1384 | 16,63 |
| HE 240 C*  | 119  | 255 | 244 | 14   | 24,5 | 21 | 152,2 | 206 | 164 | M27 | 112 | 142 | 1422 | 11,90 |
| HE 240 M   | 157  | 270 | 248 | 18   | 32   | 21 | 199,6 | 206 | 164 | M27 | 116 | 146 | 1460 | 9318  |
| HE 260 AA  | 54,1 | 244 | 260 | 6,5  | 9,5  | 24 | 69,0  | 225 | 177 | M27 | 110 | 158 | 1474 | 27,22 |
| HE 260 A   | 68,2 | 250 | 260 | 7,5  | 12,5 | 24 | 86,8  | 225 | 177 | M27 | 110 | 158 | 1484 | 21,77 |
| HE 260 B   | 93,0 | 260 | 260 | 10   | 17,5 | 24 | 118,4 | 225 | 177 | M27 | 114 | 158 | 1499 | 16,12 |
| HE 260 C*  | 132  | 275 | 264 | 14   | 25   | 24 | 168,4 | 225 | 177 | M27 | 118 | 162 | 1537 | 11,63 |
| HE 260 M   | 172  | 290 | 268 | 18   | 32,5 | 24 | 219,6 | 225 | 177 | M27 | 122 | 166 | 1575 | 9133  |
| HE 280 AA  | 61,2 | 264 | 280 | 7    | 10   | 24 | 78,0  | 244 | 196 | M27 | 110 | 178 | 1593 | 26,01 |
| HE 280 A   | 76,4 | 270 | 280 | 8    | 13   | 24 | 97,3  | 244 | 196 | M27 | 112 | 178 | 1603 | 20,99 |
| HE 280 B   | 103  | 280 | 280 | 10,5 | 18   | 24 | 131,4 | 244 | 196 | M27 | 114 | 178 | 1618 | 15,69 |
| HE 280 C*  | 145  | 295 | 284 | 14,5 | 25,5 | 24 | 185,2 | 244 | 196 | M27 | 118 | 182 | 1656 | 11,39 |
| HE 280 M   | 189  | 310 | 288 | 18,5 | 33   | 24 | 240,2 | 244 | 196 | M27 | 122 | 186 | 1694 | 9984  |
| HE300AA*   | 69,8 | 283 | 300 | 7,5  | 10,5 | 27 | 88,9  | 262 | 208 | M27 | 116 | 198 | 1705 | 24,42 |
| HE300A     | 88,3 | 290 | 300 | 8,5  | 14   | 27 | 112,5 | 262 | 208 | M27 | 118 | 198 | 1717 | 19,43 |
| HE300B     | 117  | 300 | 300 | 11   | 19   | 27 | 149,1 | 262 | 208 | M27 | 120 | 198 | 1732 | 14,80 |
| HE300C*    | 177  | 320 | 305 | 16   | 29   | 27 | 225,1 | 262 | 208 | M27 | 126 | 204 | 1782 | 10,08 |
| HE300M     | 238  | 340 | 310 | 21   | 39   | 27 | 303,1 | 262 | 208 | M27 | 132 | 208 | 1832 | 7699  |
| HE320AA*   | 74,2 | 301 | 300 | 8    | 11   | 27 | 94,6  | 279 | 225 | M27 | 118 | 198 | 1740 | 23,43 |



|               |      |     |     |      |      |    |       |     |     |     |     |     |      |       |
|---------------|------|-----|-----|------|------|----|-------|-----|-----|-----|-----|-----|------|-------|
| HE320A        | 97,6 | 310 | 300 | 9    | 15,5 | 27 | 124,4 | 279 | 225 | M27 | 118 | 198 | 1756 | 17,98 |
| HE320B        | 127  | 320 | 300 | 11,5 | 20,5 | 27 | 161,3 | 279 | 225 | M27 | 122 | 198 | 1771 | 13,98 |
| HE320C*       | 186  | 340 | 305 | 16   | 30,5 | 27 | 236,9 | 279 | 225 | M27 | 126 | 204 | 1822 | 9796  |
| HE320M        | 245  | 359 | 309 | 21   | 40   | 27 | 312,0 | 279 | 225 | M27 | 132 | 204 | 1866 | 7616  |
| HE 340 AA*    | 78,9 | 320 | 300 | 8,5  | 11,5 | 27 | 100,5 | 297 | 243 | M27 | 118 | 198 | 1777 | 22,52 |
| HE 340 A      | 105  | 330 | 300 | 9,5  | 16,5 | 27 | 133,5 | 297 | 243 | M27 | 118 | 198 | 1795 | 17,13 |
| HE 340 B      | 134  | 340 | 300 | 12   | 21,5 | 27 | 170,9 | 297 | 243 | M27 | 122 | 198 | 1810 | 13,49 |
| HE 340 M      | 248  | 377 | 309 | 21   | 40   | 27 | 315,8 | 297 | 243 | M27 | 132 | 204 | 1902 | 7670  |
| HE 360 AA*    | 88,7 | 339 | 300 | 9    | 12   | 27 | 106,6 | 315 | 261 | M27 | 118 | 198 | 1814 | 21,67 |
| HE 360 A      | 112  | 350 | 300 | 10   | 17,5 | 27 | 142,8 | 315 | 261 | M27 | 120 | 198 | 1834 | 16,36 |
| HE 360 B      | 142  | 360 | 300 | 12,5 | 22,5 | 27 | 180,6 | 315 | 261 | M27 | 122 | 198 | 1849 | 13,04 |
| HE 360 M      | 250  | 395 | 308 | 21   | 40   | 27 | 318,8 | 315 | 261 | M27 | 132 | 204 | 1934 | 7730  |
| HE 400 AA*    | 92,4 | 378 | 300 | 9,5  | 13   | 27 | 117,7 | 352 | 298 | M27 | 118 | 198 | 1891 | 20,46 |
| HE 400 A      | 125  | 390 | 300 | 11   | 19   | 27 | 159,0 | 352 | 298 | M27 | 120 | 198 | 1912 | 15,32 |
| HE 400 B      | 155  | 400 | 300 | 13,5 | 24   | 27 | 197,8 | 352 | 298 | M27 | 124 | 198 | 1927 | 12,41 |
| HE 400 M      | 256  | 432 | 307 | 21   | 40   | 27 | 325,8 | 352 | 298 | M27 | 132 | 202 | 2004 | 7835  |
| HE 450 AA*    | 99,7 | 425 | 300 | 10   | 13,5 | 27 | 127,1 | 398 | 344 | M27 | 120 | 198 | 1984 | 19,89 |
| HE 450 A      | 140  | 440 | 300 | 11,5 | 21   | 27 | 178,0 | 398 | 344 | M27 | 122 | 198 | 2011 | 14,39 |
| HE 450 B      | 171  | 450 | 300 | 14   | 26   | 27 | 218,0 | 398 | 344 | M27 | 124 | 198 | 2026 | 11,84 |
| HE 450 M      | 263  | 478 | 307 | 21   | 40   | 27 | 335,4 | 398 | 344 | M27 | 132 | 202 | 2096 | 7959  |
| HE 500 AA*    | 107  | 472 | 300 | 10,5 | 14   | 27 | 136,9 | 444 | 390 | M27 | 120 | 198 | 2077 | 19,33 |
| HE 500 A      | 155  | 490 | 300 | 12   | 23   | 27 | 197,5 | 444 | 390 | M27 | 122 | 198 | 2110 | 13,60 |
| HE 500 B      | 187  | 500 | 300 | 14,5 | 28   | 27 | 238,6 | 444 | 390 | M27 | 124 | 198 | 2125 | 11,34 |
| HE 500 M      | 270  | 524 | 306 | 21   | 40   | 27 | 344,3 | 444 | 390 | M27 | 132 | 202 | 2184 | 8079  |
| HE 550 AA*    | 120  | 522 | 300 | 11,5 | 15   | 27 | 152,8 | 492 | 438 | M27 | 120 | 198 | 2175 | 18,13 |
| HE 550 A      | 166  | 540 | 300 | 12,5 | 24   | 27 | 211,8 | 492 | 438 | M27 | 122 | 198 | 2209 | 13,29 |
| HE 550 B      | 199  | 550 | 300 | 15   | 29   | 27 | 254,1 | 492 | 438 | M27 | 124 | 198 | 2224 | 11,15 |
| HE 550 M      | 278  | 572 | 306 | 21   | 40   | 27 | 354,4 | 492 | 438 | M27 | 132 | 202 | 2280 | 8195  |
| HE 600 AA*    | 129  | 571 | 300 | 12   | 15,5 | 27 | 164,1 | 540 | 486 | M27 | 122 | 198 | 2272 | 17,64 |
| HE 600 A      | 178  | 590 | 300 | 13   | 25   | 27 | 226,5 | 540 | 486 | M27 | 122 | 198 | 2308 | 12,98 |
| HE 600 B      | 212  | 600 | 300 | 15,5 | 30   | 27 | 270,0 | 540 | 486 | M27 | 126 | 198 | 2323 | 10,96 |
| HE 600 M      | 285  | 620 | 305 | 21   | 40   | 27 | 363,7 | 540 | 486 | M27 | 132 | 200 | 2372 | 8308  |
| HE 600 x 337* | 337  | 632 | 310 | 25,5 | 46   | 27 | 429,2 | 540 | 486 | M27 | 138 | 202 | 2407 | 7144  |
| HE 600 x 399  | 399  | 648 | 315 | 30   | 54   | 27 | 508,5 | 540 | 486 | M27 | 142 | 208 | 2450 | 6137  |
| HE650AA*      | 138  | 620 | 300 | 12,5 | 16   | 27 | 175,8 | 588 | 534 | M27 | 122 | 198 | 2369 | 17,17 |



|             |     |      |     |      |      |    |       |     |     |     |     |     |      |       |
|-------------|-----|------|-----|------|------|----|-------|-----|-----|-----|-----|-----|------|-------|
| HE650A      | 190 | 640  | 300 | 13,5 | 26   | 27 | 241,6 | 588 | 534 | M27 | 124 | 198 | 2407 | 12,69 |
| HE650B      | 225 | 650  | 300 | 16   | 31   | 27 | 286,3 | 588 | 534 | M27 | 126 | 198 | 2422 | 10,77 |
| HE650M      | 293 | 668  | 305 | 21   | 40   | 27 | 373,7 | 588 | 534 | M27 | 132 | 200 | 2468 | 8411  |
| HE650x343*  | 343 | 680  | 309 | 25   | 46   | 27 | 437,5 | 588 | 534 | M27 | 138 | 202 | 2500 | 7278  |
| HE650x407*  | 407 | 696  | 314 | 29,5 | 54   | 27 | 518,8 | 588 | 534 | M27 | 142 | 206 | 2543 | 6243  |
| HE700AA*    | 150 | 670  | 300 | 13   | 17   | 27 | 190,9 | 636 | 582 | M27 | 122 | 198 | 2468 | 16,46 |
| HE700A      | 204 | 690  | 300 | 14,5 | 27   | 27 | 260,5 | 636 | 582 | M27 | 124 | 198 | 2505 | 12,25 |
| HE700B      | 241 | 700  | 300 | 17   | 32   | 27 | 306,4 | 636 | 582 | M27 | 126 | 198 | 2520 | 10,48 |
| HE700M      | 301 | 716  | 304 | 21   | 40   | 27 | 383,0 | 636 | 582 | M27 | 132 | 200 | 2560 | 8513  |
| HE700x352*  | 352 | 728  | 308 | 25   | 46   | 27 | 448,6 | 636 | 582 | M27 | 138 | 200 | 2592 | 7359  |
| HE700x418*  | 418 | 744  | 313 | 29,5 | 54   | 27 | 531,9 | 636 | 582 | M27 | 142 | 206 | 2635 | 6310  |
| HE800AA*    | 172 | 770  | 300 | 14   | 18   | 30 | 218,5 | 734 | 674 | M27 | 130 | 198 | 2660 | 15,51 |
| HE800A      | 224 | 790  | 300 | 15   | 28   | 30 | 285,8 | 734 | 674 | M27 | 130 | 198 | 2698 | 12,03 |
| HE800B      | 262 | 800  | 300 | 17,5 | 33   | 30 | 334,2 | 734 | 674 | M27 | 134 | 198 | 2713 | 10,34 |
| HE800M      | 317 | 814  | 303 | 21   | 40   | 30 | 404,3 | 734 | 674 | M27 | 138 | 18  | 2746 | 8655  |
| HE800x373*  | 373 | 826  | 308 | 25   | 46   | 30 | 474,6 | 734 | 674 | M27 | 144 | 200 | 2782 | 7469  |
| HE800x444*  | 444 | 842  | 313 | 30   | 54   | 30 | 566,0 | 734 | 674 | M27 | 148 | 206 | 2824 | 6357  |
| HE900AA*    | 198 | 870  | 300 | 15   | 20   | 30 | 252,2 | 830 | 770 | M27 | 130 | 198 | 2858 | 14,44 |
| HE900A      | 252 | 890  | 300 | 16   | 30   | 30 | 320,5 | 830 | 770 | M27 | 132 | 198 | 2896 | 11,51 |
| HE900B      | 291 | 900  | 300 | 18,5 | 35   | 30 | 371,3 | 830 | 770 | M27 | 134 | 198 | 2911 | 9,99  |
| HE900M      | 333 | 910  | 302 | 21   | 40   | 30 | 423,6 | 830 | 770 | M27 | 138 | 198 | 2934 | 8824  |
| HE900x391*  | 391 | 922  | 307 | 25   | 46   | 30 | 497,7 | 830 | 770 | M27 | 144 | 200 | 2970 | 7604  |
| HE900x466*  | 466 | 938  | 313 | 30   | 54   | 30 | 593,7 | 830 | 770 | M27 | 148 | 204 | 3012 | 6464  |
| HE1000AA*   | 222 | 970  | 300 | 16   | 21   | 30 | 282,2 | 928 | 868 | M27 | 132 | 198 | 3056 | 13,80 |
| HE1000x249  | 249 | 980  | 300 | 16,5 | 26   | 30 | 316,8 | 928 | 868 | M27 | 134 | 194 | 3080 | 12,37 |
| HE1000A     | 272 | 990  | 300 | 16,5 | 31   | 30 | 346,8 | 928 | 868 | M27 | 132 | 198 | 3095 | 11,37 |
| HE1000B     | 314 | 1000 | 300 | 19   | 36   | 30 | 400,0 | 928 | 868 | M27 | 134 | 198 | 3110 | 9905  |
| HE1000M     | 349 | 1008 | 300 | 21   | 40   | 30 | 444,2 | 928 | 868 | M27 | 138 | 198 | 3130 | 8978  |
| HE1000x393* | 393 | 1016 | 303 | 24,4 | 43,9 | 30 | 500,2 | 928 | 868 | M27 | 142 | 198 | 3140 | 8010  |
| HE1000x415* | 415 | 1020 | 304 | 26   | 46   | 30 | 528,7 | 928 | 868 | M27 | 144 | 198 | 3150 | 7600  |
| HE1000x438* | 438 | 1026 | 305 | 26,9 | 49   | 30 | 556,0 | 928 | 868 | M27 | 146 | 198 | 3170 | 7250  |
| HE1000x494* | 494 | 1036 | 309 | 31   | 54   | 30 | 629,1 | 928 | 868 | M27 | 148 | 204 | 3190 | 6470  |
| HE1000x584* | 584 | 1056 | 314 | 36   | 64   | 30 | 743,7 | 928 | 868 | M27 | 154 | 208 | 3240 | 5560  |