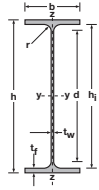
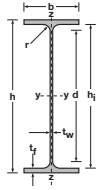


## EUROPEAN SPECIFICATION BEAMS WITH PARALLEL FLANGES



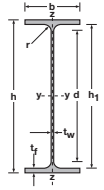
| Designation | Weight per Metre | Depth of Section | Width of Section | Thickness of Web | Thickness Flange | Radius of the root fillet | Area of Section | Inner Depth between flanges | Depth of straight portion of Web |
|-------------|------------------|------------------|------------------|------------------|------------------|---------------------------|-----------------|-----------------------------|----------------------------------|
|             | G                | h                | b                | $t_w$            | $t_f$            | r                         | A               | $h_j$                       | d                                |
|             | Kg/m             | mm               | mm               | mm               | mm               | mm                        | cm <sup>2</sup> | mm                          | mm                               |
| HE 100 A    | 16.7             | 96               | 100              | 5                | 8                | 12                        | 21.2            | 80                          | 56                               |
| HE 100 B    | 20.4             | 100              | 100              | 6                | 10               | 12                        | 26              | 80                          | 56                               |
| HE 120 A    | 19.9             | 114              | 120              | 5                | 8                | 12                        | 25.3            | 98                          | 74                               |
| HE 120 B    | 26.7             | 120              | 120              | 6.5              | 11               | 12                        | 34              | 98                          | 74                               |
| HE 140 A    | 24.7             | 133              | 140              | 5.5              | 8.5              | 12                        | 31.4            | 116                         | 92                               |
| HE 140 B    | 33.7             | 140              | 140              | 7                | 12               | 12                        | 43              | 116                         | 92                               |
| HE 160 A    | 30.4             | 152              | 160              | 6                | 9                | 15                        | 38.8            | 134                         | 104                              |
| HE 160 B    | 42.6             | 160              | 160              | 8                | 13               | 15                        | 54.3            | 134                         | 104                              |
| HE 180 A    | 35.5             | 171              | 180              | 6                | 9.5              | 15                        | 45.3            | 152                         | 122                              |
| HE 180 B    | 51.2             | 180              | 180              | 8.5              | 14               | 15                        | 65.3            | 152                         | 122                              |
| HE 200 A    | 42.3             | 190              | 200              | 6.5              | 10               | 18                        | 53.8            | 170                         | 134                              |
| HE 200 B    | 61.3             | 200              | 200              | 9                | 15               | 18                        | 78.1            | 170                         | 134                              |
| HE 220 A    | 50.5             | 210              | 220              | 7                | 11               | 18                        | 64.3            | 188                         | 152                              |
| HE 220 B    | 71.5             | 220              | 220              | 9.5              | 16               | 18                        | 91              | 188                         | 152                              |
| HE 240 A    | 60.3             | 230              | 240              | 7.5              | 12               | 21                        | 76.8            | 206                         | 164                              |
| HE 240 B    | 83.2             | 240              | 240              | 10               | 17               | 21                        | 106             | 206                         | 164                              |
| HE 260 A    | 68.2             | 250              | 260              | 7.5              | 12.5             | 24                        | 86.8            | 225                         | 117                              |
| HE 260 B    | 93               | 260              | 260              | 10               | 17.5             | 24                        | 118             | 225                         | 117                              |

## EUROPEAN SPECIFICATION BEAMS WITH PARALLEL FLANGES



| Designation | Weight per Metre | Depth of Section | Width of Section | Thickness of Web | Thickness Flange | Radius of the root fillet | Area of Section | Inner Depth between flanges | Depth of straight portion of Web |
|-------------|------------------|------------------|------------------|------------------|------------------|---------------------------|-----------------|-----------------------------|----------------------------------|
|             | G                | h                | b                | $t_w$            | $t_f$            | r                         | A               | $h_j$                       | d                                |
|             | Kg/m             | mm               | mm               | mm               | mm               | mm                        | cm <sup>2</sup> | mm                          | mm                               |
| HE 280 A    | 76.4             | 270              | 280              | 8                | 13               | 24                        | 97.3            | 244                         | 196                              |
| HE 280 B    | 103              | 280              | 280              | 10.5             | 18               | 24                        | 131             | 244                         | 196                              |
| HE 300 A    | 88.3             | 290              | 300              | 8.5              | 14               | 27                        | 113             | 262                         | 208                              |
| HE 300 B    | 117              | 300              | 300              | 11               | 19               | 27                        | 149             | 262                         | 208                              |
| HE 320 A    | 97.6             | 310              | 300              | 9                | 15.5             | 27                        | 124             | 279                         | 225                              |
| HE 320 B    | 127              | 320              | 300              | 11.5             | 20.5             | 27                        | 161             | 279                         | 225                              |
| HE 340 A    | 105              | 330              | 300              | 9.5              | 16.5             | 27                        | 133             | 297                         | 243                              |
| HE 340 B    | 134              | 340              | 300              | 12               | 21.5             | 27                        | 171             | 297                         | 243                              |
| HE 360 A    | 112              | 350              | 300              | 10               | 17.5             | 27                        | 143             | 315                         | 261                              |
| HE 360 B    | 142              | 360              | 300              | 12.5             | 22.5             | 27                        | 181             | 315                         | 261                              |
| HE 400 A    | 125              | 390              | 300              | 11               | 19               | 27                        | 159             | 352                         | 298                              |
| HE 400 B    | 155              | 400              | 300              | 13.5             | 24               | 27                        | 198             | 352                         | 298                              |
| HE 450 A    | 140              | 440              | 300              | 11.5             | 21               | 27                        | 178             | 398                         | 344                              |
| HE 450 B    | 171              | 450              | 300              | 14               | 26               | 27                        | 218             | 398                         | 344                              |
| HE 500 A    | 155              | 490              | 300              | 12               | 23               | 27                        | 198             | 444                         | 390                              |
| HE 500 B    | 187              | 500              | 300              | 14.5             | 28               | 27                        | 239             | 444                         | 390                              |
| HE 600 A    | 178              | 590              | 300              | 13.0             | 25               | 27                        | 226             | 540                         | 486                              |
| HE 600 B    | 212              | 600              | 300              | 15.5             | 30               | 27                        | 270             | 540                         | 468                              |

## EUROPEAN SPECIFICATION BEAMS WITH PARALLEL FLANGES



| Designation | G    | h   | b   | tw   | tf   | r  | A               | hj    | d     |
|-------------|------|-----|-----|------|------|----|-----------------|-------|-------|
|             | kg/m | mm  | mm  | mm   | mm   | mm | cm <sup>2</sup> | mm    | mm    |
| IPE 100     | 8.1  | 100 | 55  | 4.1  | 5.7  | 7  | 10.3            | 88.6  | 74.6  |
| IPE 120     | 10.4 | 120 | 64  | 4.4  | 6.3  | 7  | 13.2            | 107.4 | 93.4  |
| IPE 140     | 12.9 | 140 | 73  | 4.7  | 6.9  | 7  | 16.4            | 126.2 | 112.2 |
| IPE 160     | 15.8 | 160 | 82  | 5    | 7.4  | 9  | 20.1            | 145.2 | 127.2 |
| IPE 180     | 18.8 | 180 | 91  | 5.3  | 8    | 9  | 23.9            | 164   | 146   |
| IPE 200     | 22.4 | 200 | 100 | 5.6  | 8.5  | 12 | 28.5            | 183   | 159   |
| IPE 220     | 26.2 | 220 | 110 | 5.9  | 9.2  | 12 | 33.4            | 201.6 | 177.6 |
| IPE 240     | 30.7 | 240 | 120 | 6.2  | 9.8  | 15 | 39.1            | 220.4 | 190.4 |
| IPE 270     | 36.1 | 270 | 135 | 6.6  | 10.2 | 15 | 45.9            | 249.6 | 219.6 |
| IPE 300     | 42.2 | 300 | 150 | 7.1  | 10.7 | 15 | 53.8            | 278.6 | 248.6 |
| IPE 330     | 49.1 | 330 | 160 | 7.5  | 11.5 | 18 | 62.6            | 307   | 271   |
| IPE 360     | 57.1 | 360 | 170 | 8    | 12.7 | 18 | 72.7            | 334.6 | 298.6 |
| IPE 400     | 66.3 | 400 | 180 | 8.6  | 13.5 | 21 | 84.5            | 373   | 331   |
| IPE 450     | 77.6 | 450 | 190 | 9.4  | 14.6 | 21 | 98.8            | 420.8 | 378.8 |
| IPE 500     | 90.7 | 500 | 200 | 10.2 | 16   | 21 | 116             | 468   | 426   |
| IPE 600     | 122  | 600 | 220 | 12.0 | 19.0 | 24 | 156             | 562   | 514   |