



EUROPEAN I BEAMS: Dimensions and Properties (IPE)

| Designation | G | h | b | t _w | t _f | r | A | h ₁ | d | I _y | I _z | I _y | I _z | W _y | W _z | W _{ply} | W _{plz} | I _w | I _T |
|---------------|------|-----|-----|----------------|----------------|----|-----------------|----------------|-------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|------------------|------------------|-----------------|-----------------|
| | kg/m | mm | mm | mm | mm | mm | cm ² | mm | mm | cm ⁴ | cm ⁴ | cm | cm | cm ³ | cm ³ | cm ³ | cm ³ | dm ⁶ | cm ⁴ |
| IPE 500 A | 79.4 | 497 | 200 | 8.4 | 14.5 | 21 | 101 | 468.0 | 426.0 | 42930 | 1939 | 20.6 | 4.38 | 1728 | 194 | 1946 | 302 | 1.13 | 64.3 |
| IPE 500 | 90.7 | 500 | 200 | 10.2 | 16.0 | 21 | 116 | 468.0 | 426.0 | 48200 | 2142 | 20.4 | 4.31 | 1928 | 214 | 2194 | 336 | 1.25 | 89.1 |
| IPE 500 O | 107 | 506 | 202 | 12.0 | 19.0 | 21 | 137 | 468.0 | 426.0 | 57780 | 2622 | 20.6 | 4.38 | 2284 | 260 | 2613 | 409 | 1.55 | 143 |
| IPE 500 R | 111 | 508 | 198 | 12.6 | 20.0 | 21 | 142 | 468.0 | 426.0 | 59930 | 2600 | 20.5 | 4.28 | 2360 | 263 | 2709 | 415 | 1.55 | 162 |
| IPE 500 V | 129 | 514 | 204 | 14.2 | 23.0 | 21 | 164 | 468.0 | 426.0 | 70720 | 3271 | 20.8 | 4.47 | 2752 | 321 | 3168 | 507 | 1.97 | 242 |
| IPE 550 A | 92.1 | 547 | 210 | 9.0 | 15.7 | 24 | 117 | 515.6 | 467.6 | 59980 | 2432 | 22.6 | 4.55 | 2193 | 232 | 2475 | 362 | 1.72 | 89.3 |
| IPE 550 | 105 | 550 | 210 | 11.1 | 17.2 | 24 | 134 | 515.6 | 467.6 | 67120 | 2668 | 22.3 | 4.45 | 2441 | 254 | 2787 | 401 | 1.89 | 123 |
| IPE 550 O | 123 | 556 | 212 | 12.7 | 20.2 | 24 | 156 | 515.6 | 467.6 | 79160 | 3224 | 22.5 | 4.55 | 2847 | 304 | 3263 | 481 | 2.31 | 187 |
| IPE 550 R | 134 | 560 | 210 | 14.0 | 22.2 | 24 | 170 | 515.6 | 467.6 | 86600 | 3447 | 22.5 | 4.50 | 3093 | 328 | 3562 | 521 | 2.49 | 242 |
| IPE 550 V | 159 | 566 | 216 | 17.1 | 25.2 | 24 | 202 | 515.6 | 467.6 | 102300 | 4265 | 22.5 | 4.60 | 3616 | 395 | 4205 | 632 | 3.12 | 372 |
| IPE 600 A | 108 | 597 | 220 | 9.8 | 17.5 | 24 | 137 | 562.0 | 514.0 | 82920 | 3116 | 24.6 | 4.77 | 2778 | 283 | 3141 | 442 | 2.62 | 122 |
| IPE 600 | 122 | 600 | 220 | 12.0 | 19.0 | 24 | 156 | 562.0 | 514.0 | 92080 | 3387 | 24.3 | 4.66 | 3069 | 308 | 3512 | 486 | 2.86 | 165 |
| IPE 600 O | 154 | 610 | 224 | 15.0 | 24.0 | 24 | 197 | 562.0 | 514.0 | 118300 | 4521 | 24.5 | 4.79 | 3879 | 404 | 4471 | 640 | 3.88 | 316 |
| IPE 600 R | 144 | 608 | 218 | 14.0 | 23.0 | 24 | 184 | 562.0 | 514.0 | 110300 | 3993 | 24.5 | 4.66 | 3629 | 366 | 4175 | 580 | 3.42 | 271 |
| IPE 600 V | 184 | 618 | 228 | 18.0 | 28.0 | 24 | 234 | 562.0 | 514.0 | 141600 | 5570 | 24.6 | 4.88 | 4582 | 489 | 5324 | 780 | 4.85 | 506 |
| IPE 750 X 137 | 137 | 753 | 263 | 11.5 | 17.0 | 17 | 175 | 719.0 | 685.0 | 159900 | 5166 | 30.3 | 5.44 | 4246 | 393 | 4865 | 614 | 7.00 | 135 |
| IPE 750 X 147 | 147 | 753 | 265 | 13.2 | 17.0 | 17 | 187 | 719.0 | 685.0 | 166100 | 5289 | 29.8 | 5.31 | 4411 | 399 | 5110 | 631 | 7.16 | 157 |
| IPE 750 X 161 | 160 | 758 | 266 | 13.8 | 19.3 | 17 | 204 | 719.4 | 685.4 | 186100 | 6073 | 30.2 | 5.45 | 4909 | 457 | 5666 | 720 | 8.28 | 208 |
| IPE 750 X 173 | 173 | 762 | 267 | 14.4 | 21.6 | 17 | 221 | 718.8 | 684.8 | 205800 | 6873 | 30.5 | 5.57 | 5402 | 515 | 6218 | 810 | 9.42 | 270 |
| IPE 750 X 185 | 185 | 766 | 267 | 14.9 | 23.6 | 17 | 236 | 718.8 | 684.8 | 223000 | 7510 | 30.8 | 5.65 | 5821 | 563 | 6691 | 884 | 10.3 | 334 |
| IPE 750 X 196 | 196 | 770 | 268 | 15.6 | 25.4 | 17 | 251 | 719.2 | 685.2 | 240300 | 8175 | 31.0 | 5.71 | 6241 | 610 | 7174 | 959 | 11.3 | 406 |
| IPE 750 X 210 | 210 | 775 | 268 | 16.0 | 28.0 | 17 | 268 | 719.0 | 685.0 | 262200 | 9011 | 31.3 | 5.80 | 6765 | 672 | 7762 | 1054 | 12.6 | 512 |
| IPE 750 X 222 | 222 | 778 | 269 | 17.0 | 29.5 | 17 | 283 | 719.0 | 685.0 | 278200 | 9604 | 31.3 | 5.82 | 7152 | 714 | 8225 | 1122 | 13.5 | 601 |