



Dikdörtgen Kesitli Yapı Profilleri
Rectangular Structural Welded Tubes

Ağırlıklar-Ebatlar ve Kesit Değerleri / Nominal Dimensions and Sectional Properties

TS EN 10219-2

| Ebat / Size | | Kalınlıklar Thickness | Ağırlıklar Mass per unit length | Kesit alanı Cross sectional area | Atalet momentleri Second moment of area | | Atalet varı cabları Radius of gyration | | Elastik şekil verme modülleri Elastic section modulus | | Plastik şekil verme modülleri Plastic section modulus | | Burulma momenti sabitt Torsional inertia | Burulma modülü sabitt Torsional modulus | Kaplama alan/metre Superficial area per metre | Bir ton uzunluğu Nominal length per tonne |
|-------------|-----|--------------------------|---------------------------------------|-------------------------------------------|-----------------------------------------------|-----------------|-------------------------------------------|-----------------|-------------------------------------------------------------|-------------------|-------------------------------------------------------------|-------------------|------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------|
| AxB | | T | M | A | I _{xx} | I _{yy} | i _{xx} | i _{yy} | W _{elxx} | W _{elyy} | W _{plxx} | W _{plyy} | L _t | C _t | A _s | |
| mm | mm | mm | kg/m | cm ² | cm ⁴ | cm ⁴ | cm | cm | cm ³ | cm ³ | cm ³ | cm ³ | cm ⁴ | cm ³ | m ² /m | m |
| 100 | 80 | 6.0 | 15.1 | 19.2 | 258 | 182 | 3.67 | 3.08 | 51.7 | 45.5 | 63.8 | 54.7 | 357 | 73.0 | 0.339 | 66.2 |
| 100 | 80 | 6.3 | 15.5 | 19.7 | 259 | 183 | 3.62 | 3.04 | 51.8 | 45.7 | 64.6 | 55.4 | 371 | 75.0 | 0.333 | 64.6 |
| 120 | 60 | 2.5 | 6.7 | 8.6 | 161 | 55.2 | 4.33 | 2.53 | 26.9 | 18.4 | 33.2 | 20.6 | 133 | 31.7 | 0.351 | 148 |
| 120 | 60 | 3.0 | 8.0 | 10.2 | 189 | 64.4 | 4.30 | 2.51 | 31.5 | 21.5 | 39.2 | 24.2 | 156 | 37.1 | 0.350 | 125 |
| 120 | 60 | 4.0 | 10.5 | 13.3 | 241 | 81.2 | 4.25 | 2.47 | 40.1 | 27.1 | 50.5 | 31.1 | 201 | 47.0 | 0.346 | 95.4 |
| 120 | 60 | 5.0 | 12.8 | 16.4 | 287 | 96.0 | 4.19 | 2.42 | 47.8 | 32.0 | 60.9 | 37.4 | 242 | 55.8 | 0.343 | 77.9 |
| 120 | 60 | 6.0 | 15.1 | 19.2 | 328 | 109 | 4.13 | 2.38 | 54.7 | 36.3 | 70.6 | 43.1 | 280 | 63.6 | 0.339 | 66.2 |
| 120 | 60 | 6.3 | 15.5 | 19.7 | 327 | 109 | 4.07 | 2.35 | 54.5 | 36.4 | 71.2 | 43.7 | 289 | 65.1 | 0.333 | 64.6 |
| 120 | 60 | 8.0 | 18.9 | 24.0 | 375 | 124 | 3.95 | 2.27 | 62.6 | 41.3 | 84.1 | 51.3 | 340 | 75.0 | 0.326 | 53.0 |
| 120 | 80 | 3.0 | 8.96 | 11.4 | 230 | 123 | 4.49 | 3.29 | 38.4 | 30.9 | 46.2 | 35.0 | 255 | 50.8 | 0.390 | 112 |
| 120 | 80 | 4.0 | 11.7 | 14.9 | 295 | 157 | 4.44 | 3.24 | 49.1 | 39.3 | 59.8 | 45.2 | 331 | 64.9 | 0.386 | 85.2 |
| 120 | 80 | 5.0 | 14.4 | 18.4 | 353 | 188 | 4.39 | 3.20 | 58.9 | 46.9 | 72.4 | 54.7 | 402 | 77.8 | 0.383 | 69.4 |
| 120 | 80 | 6.0 | 17.0 | 21.6 | 406 | 215 | 4.33 | 3.15 | 67.7 | 53.8 | 84.3 | 63.5 | 469 | 89.4 | 0.379 | 58.9 |
| 120 | 80 | 6.3 | 17.5 | 22.2 | 408 | 217 | 4.28 | 3.12 | 68.1 | 54.3 | 85.6 | 64.7 | 488 | 92.1 | 0.373 | 57.3 |
| 120 | 80 | 8.0 | 21.4 | 27.2 | 476 | 252 | 4.18 | 3.04 | 79.3 | 62.9 | 102 | 76.9 | 584 | 108 | 0.366 | 46.8 |
| 140 | 80 | 4.0 | 13.0 | 16.5 | 430 | 180 | 5.10 | 3.30 | 61.4 | 45.1 | 75.5 | 51.3 | 412 | 76.5 | 0.426 | 77.0 |
| 140 | 80 | 5.0 | 16.0 | 20.4 | 517 | 216 | 5.04 | 3.26 | 73.9 | 54.0 | 91.8 | 62.2 | 501 | 91.8 | 0.423 | 62.6 |
| 140 | 80 | 6.0 | 18.9 | 24.0 | 597 | 248 | 4.98 | 3.21 | 85.3 | 62.0 | 107.0 | 72.4 | 584 | 106 | 0.419 | 53.0 |
| 140 | 80 | 6.3 | 19.4 | 24.8 | 603 | 251 | 4.93 | 3.19 | 86.1 | 62.9 | 109 | 74.0 | 609 | 109 | 0.413 | 51.4 |
| 140 | 80 | 8.0 | 23.9 | 30.4 | 708 | 293 | 4.82 | 3.10 | 101 | 73.3 | 131 | 88.4 | 731 | 129 | 0.406 | 41.8 |
| 150 | 100 | 4.0 | 14.9 | 18.9 | 595 | 319 | 5.60 | 4.10 | 79.3 | 63.7 | 95.7 | 72.5 | 662 | 105 | 0.486 | 67.2 |
| 150 | 100 | 5.0 | 18.3 | 23.4 | 719 | 384 | 5.55 | 4.05 | 95.9 | 76.8 | 117 | 88.3 | 809 | 127.0 | 0.483 | 54.5 |
| 150 | 100 | 6.0 | 21.7 | 27.6 | 835 | 444 | 5.50 | 4.01 | 111 | 88.8 | 137 | 103 | 948 | 147 | 0.479 | 46.1 |
| 150 | 100 | 6.3 | 22.4 | 28.5 | 848 | 453 | 5.45 | 3.98 | 113 | 90.5 | 140 | 106 | 992 | 152 | 0.473 | 44.6 |
| 150 | 100 | 8.0 | 27.7 | 35.2 | 1008 | 536 | 5.35 | 3.90 | 134 | 107 | 169 | 128 | 1206 | 182 | 0.466 | 36.1 |
| 160 | 80 | 4.0 | 14.2 | 18.1 | 598 | 204 | 5.74 | 3.35 | 74.7 | 50.9 | 92.9 | 57.4 | 494 | 88.0 | 0.466 | 70.2 |
| 160 | 80 | 5.0 | 17.5 | 22.4 | 722 | 244 | 5.68 | 3.30 | 90.2 | 61.0 | 113 | 69.7 | 601 | 106 | 0.463 | 57.0 |
| 160 | 80 | 6.0 | 20.7 | 26.4 | 836 | 281 | 5.62 | 3.26 | 105 | 70.2 | 132 | 81.3 | 702 | 122 | 0.459 | 48.2 |
| 160 | 80 | 6.3 | 21.4 | 27.3 | 846 | 286 | 5.57 | 3.24 | 106 | 71.4 | 135 | 83.3 | 732 | 126 | 0.453 | 46.7 |
| 160 | 80 | 8.0 | 26.4 | 33.6 | 1001 | 335 | 5.46 | 3.16 | 125 | 83.7 | 163 | 100 | 882 | 150 | 0.446 | 37.9 |
| 180 | 100 | 4.0 | 16.8 | 21.3 | 926 | 374 | 6.59 | 4.18 | 103 | 74.8 | 126 | 84.0 | 854 | 127 | 0.546 | 59.7 |
| 180 | 100 | 5.0 | 20.7 | 26.4 | 1124 | 452 | 6.53 | 4.14 | 125 | 90.4 | 154 | 103 | 1045 | 154 | 0.543 | 48.3 |
| 180 | 100 | 6.0 | 24.5 | 31.2 | 1310 | 524 | 6.48 | 4.10 | 146 | 105 | 181 | 120 | 1227 | 179 | 0.539 | 40.8 |
| 180 | 100 | 6.3 | 25.4 | 32.3 | 1335 | 536 | 6.43 | 4.07 | 148 | 107 | 186 | 124 | 1283 | 185 | 0.533 | 39.4 |
| 180 | 100 | 8.0 | 31.4 | 40.0 | 1598 | 637 | 6.32 | 3.99 | 178 | 127 | 226 | 150 | 1565 | 222 | 0.526 | 31.8 |
| 200 | 100 | 4.0 | 18.0 | 22.9 | 1200 | 411 | 7.23 | 4.23 | 120 | 82.2 | 148 | 91.7 | 985 | 142 | 0.586 | 55.5 |
| 200 | 100 | 5.0 | 22.3 | 28.4 | 1459 | 497 | 7.17 | 4.19 | 146 | 99.4 | 181 | 112 | 1206 | 172 | 0.583 | 44.9 |
| 200 | 100 | 6.0 | 26.4 | 33.6 | 1703 | 577 | 7.12 | 4.14 | 170 | 115 | 213 | 132 | 1417 | 200 | 0.579 | 37.9 |
| 200 | 100 | 6.3 | 27.4 | 34.8 | 1739 | 591 | 7.06 | 4.12 | 174 | 118 | 219 | 135 | 1483 | 208 | 0.573 | 36.6 |
| 200 | 100 | 8.0 | 33.9 | 43.2 | 2091 | 705 | 6.95 | 4.04 | 209 | 141 | 267 | 165 | 1811 | 250 | 0.566 | 29.5 |
| 200 | 120 | 4.0 | 19.3 | 24.5 | 1353 | 618 | 7.43 | 5.02 | 135 | 103 | 164 | 115 | 1345 | 172 | 0.626 | 51.9 |
| 200 | 120 | 5.0 | 23.8 | 30.4 | 1649 | 750 | 7.37 | 4.97 | 165 | 125 | 201 | 141 | 1652 | 210 | 0.623 | 42.0 |
| 200 | 120 | 6.0 | 28.3 | 36.0 | 1929 | 874 | 7.32 | 4.93 | 193 | 146 | 237 | 166 | 1947 | 245 | 0.619 | 35.4 |
| 200 | 120 | 6.3 | 29.3 | 37.4 | 1976 | 898 | 7.27 | 4.90 | 198 | 150 | 244 | 172 | 2040 | 255 | 0.613 | 34.1 |
| 200 | 120 | 8.0 | 36.5 | 46.4 | 2386 | 1079 | 7.17 | 4.82 | 239 | 180 | 298 | 209 | 2507 | 308 | 0.606 | 27.4 |