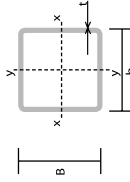





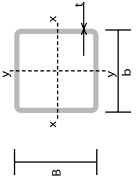
## MILD STEEL SQUARE HOLLOW SECTIONS



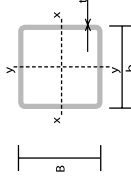
### SQUARE HOLLOW SECTIONS

| Size<br>B x B<br>mm | Thickness<br>T<br>mm | Mass<br>M<br>kg/m | Sectional Area<br>A<br>cm <sup>2</sup> | Moment of Inertia<br>I<br>cm <sup>4</sup> | Radius of Gyration<br>r<br>cm | Elastic Modulus<br>W <sub>el</sub><br>cm <sup>3</sup> | Plastic Modulus<br>W <sub>pl</sub><br>cm <sup>3</sup> | Torsional Constants               |                                   | Superficial Area per m<br>m <sup>2</sup> /m |
|---------------------|----------------------|-------------------|--|---|-------------------------------|---|---|-----------------------------------|-----------------------------------|---|
|                     |                      |                   |  |   |                               |   |   | I <sub>t</sub><br>cm <sup>4</sup> | C <sub>t</sub><br>cm <sup>3</sup> |   |
| 40 x 40             | 2.5                  | 2.89              | 3.68                                   | 8.54                                      | 1.52                          | 4.27  | 5.14  | 13.6                              | 6.22                              | 0.154                                       |
|                     | 3.0                  | 3.41              | 4.34                                   | 9.78                                      | 1.50                          | 4.89  | 5.97  | 15.7                              | 7.10                              | 0.152                                       |
|                     | 3.2                  | 3.61              | 4.60                                   | 10.20                                     | 1.49                          | 5.11  | 6.28  | 16.5                              | 7.42                              | 0.152                                       |
|                     | 4.0                  | 4.39              | 5.59                                   | 11.80                                     | 1.45                          | 5.91  | 7.44  | 19.5                              | 8.54                              | 0.150                                       |
|                     | 4.9                  | 5.20              | 6.62                                   | 13.20                                     | 1.41                          | 6.62  | 8.55  | 22.2                              | 9.51                              | 0.147                                       |
| 50 x 50             | 5.0                  | 5.28              | 6.73                                   | 13.40                                     | 1.41                          | 6.68  | 8.66  | 22.5                              | 9.60                              | 0.147                                       |
|                     | 2.5                  | 3.68              | 4.68                                   | 17.50                                     | 1.93                          | 6.99  | 8.29  | 27.5                              | 10.20                             | 0.194                                       |
|                     | 3.0                  | 4.35              | 5.54                                   | 20.20                                     | 1.91                          | 8.08  | 9.70  | 31.1                              | 11.80                             | 0.192                                       |
|                     | 3.2                  | 4.62              | 5.88                                   | 21.20                                     | 1.90                          | 8.49  | 10.20   | 33.8                              | 12.40                             | 0.192                                       |
|                     | 4.0                  | 5.64              | 7.19                                   | 25.00                                     | 1.86                          | 9.99  | 12.30   | 40.4                              | 14.50                             | 0.190                                       |
| 60 x 60             | 4.9                  | 6.74              | 8.58                                   | 28.50                                     | 1.82                          | 11.40   | 14.30   | 46.9                              | 16.50                             | 0.187                                       |
|                     | 5.0                  | 6.85              | 8.73                                   | 28.90                                     | 1.82                          | 11.60   | 14.50   | 47.6                              | 16.70                             | 0.187                                       |
|                     | 6.0                  | 7.99              | 10.20                                  | 32.00                                     | 1.77                          | 12.80   | 16.50   | 53.6                              | 18.40                             | 0.185                                       |
|                     | 6.3                  | 8.31              | 10.60                                  | 32.80                                     | 1.76                          | 13.10   | 17.00   | 55.2                              | 18.80                             | 0.184                                       |
|                     | 3.0                  | 5.29              | 6.74                                   | 36.20                                     | 2.32                          | 12.10   | 14.30   | 56.9                              | 17.70                             | 0.232                                       |
| 60 x 60             | 3.2                  | 5.62              | 7.16                                   | 38.20                                     | 2.31                          | 12.70   | 15.20   | 60.2                              | 18.60                             | 0.232                                       |
|                     | 4.0                  | 6.90              | 8.79                                   | 45.4                                      | 2.27                          | 15.10   | 18.30   | 72.5                              | 22.0                              | 0.230                                       |
|                     | 4.9                  | 8.28              | 10.5                                   | 52.5                                      | 2.23                          | 17.50   | 21.60   | 85.1                              | 25.4                              | 0.227                                       |
|                     | 5.0                  | 8.42              | 10.7                                   | 53.3                                      | 2.23                          | 17.80   | 21.90   | 86.4                              | 25.7                              | 0.227                                       |
|                     | 6.0                  | 9.87              | 12.6                                   | 59.9                                      | 2.18                          | 20.00   | 25.10   | 98.6                              | 28.8                              | 0.225                                       |


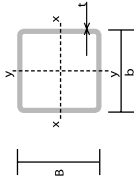
### SQUARE HOLLOW SECTIONS

| Size<br>B x B<br>mm | Thickness<br>T<br>mm | Mass<br>M<br>kg/m | Sectional Area<br>A<br>cm <sup>2</sup> | Moment of Inertia<br>I<br>cm <sup>4</sup> | Radius of Gyration<br>I<br>cm | Elastic Modulus<br>W <sub>el</sub><br>cm <sup>3</sup> | Plastic Modulus<br>W <sub>pl</sub><br>cm <sup>3</sup> | Torsional Constants               |                                   | Superficial Area per Area per<br>m <sup>2</sup> /m |
|---------------------|----------------------|-------------------|--|---|-------------------------------|---|---|-----------------------------------|-----------------------------------|--|
|                     |                      |                   |  |   |                               |   |   | I <sub>t</sub><br>cm <sup>4</sup> | C <sub>t</sub><br>cm <sup>3</sup> |  |
| 60 x 60             | 6.3                  | 10.3              | 13.1                                   | 61.6                                      | 2.17                          | 20.50   | 26.0  | 102                               | 29.6                              | 0.224  |
|                     | 8.0                  | 12.5              | 16.0                                   | 69.7                                      | 2.09                          | 23.20   | 30.4  | 118                               | 33.4                              | 0.219  |
| 70 x 70             | 3.0                  | 6.24              | 7.94                                   | 59.0                                      | 2.73                          | 16.90   | 19.9  | 92.2                              | 24.8                              | 0.272  |
|                     | 3.2                  | 6.63              | 8.44                                   | 62.3                                      | 2.72                          | 17.80   | 21.0  | 97.6                              | 26.1                              | 0.272  |
|                     | 3.6                  | 7.40              | 9.42                                   | 68.6                                      | 2.70                          | 19.60   | 23.3  | 108                               | 28.7                              | 0.271  |
|                     | 4.0                  | 8.15              | 10.4                                   | 74.7                                      | 2.68                          | 21.30   | 25.5  | 118                               | 31.2                              | 0.270  |
|                     | 4.9                  | 9.81              | 12.5                                   | 87.2                                      | 2.64                          | 24.90   | 30.3  | 140                               | 36.2                              | 0.267  |
|                     | 5.0                  | 9.99              | 12.7                                   | 88.5                                      | 2.64                          | 25.30   | 30.8  | 142                               | 36.8                              | 0.267  |
|                     | 6.0                  | 11.8              | 15.0                                   | 101.0                                     | 2.59                          | 28.70   | 35.5  | 163                               | 41.6                              | 0.265  |
|                     | 6.3                  | 12.3              | 15.6                                   | 104.0                                     | 2.58                          | 29.70   | 36.9  | 169                               | 42.9                              | 0.264  |
|                     | 7.1                  | 13.6              | 17.3                                   | 112.0                                     | 2.54                          | 32.00   | 40.3  | 185                               | 46.1                              | 0.262  |
|                     | 8.0                  | 15.0              | 19.2                                   | 120.0                                     | 2.50                          | 34.20   | 43.8  | 200                               | 49.2                              | 0.259  |
|                     |                      | 8.4               |  |   |                               |   |   |                                   |                                   |  |
|                     | 10.38                |                   |  |   |                               |   |   |                                   |                                   |  |
|                     | 12.31                |                   |  |   |                               |   |   |                                   |                                   |  |



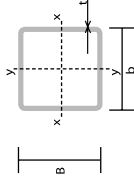
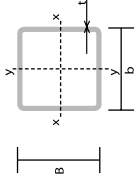
### SQUARE HOLLOW SECTIONS

| Size<br>B x B<br>mm | Thickness<br>T<br>mm | Mass<br>M<br>kg/m | Sectional Area<br>A<br>cm <sup>2</sup> | Moment of Inertia<br>I<br>cm <sup>4</sup> | Radius of Gyration<br>I<br>cm | Elastic Modulus<br>W <sub>el</sub><br>cm <sup>3</sup> | Plastic Modulus<br>W <sub>pl</sub><br>cm <sup>3</sup> | Torsional Constants               |                                   | Superficial Area per Area per<br>m <sup>2</sup> /m |
|---------------------|----------------------|-------------------|--|---|-------------------------------|---|---|-----------------------------------|-----------------------------------|--|
|                     |                      |                   |  |   |                               |   |   | I <sub>t</sub><br>cm <sup>4</sup> | C <sub>t</sub><br>cm <sup>3</sup> |  |
| 76.2 x 76.2         | 3.2                  | 7.25              | 9.23                                   | 81.5                                      | 2.97                          | 21.40   | 25.2  | 127                               | 31.4                              | 0.297  |
|                     | 3.6                  | 8.10              | 10.3                                   | 89.9                                      | 2.95                          | 23.60   | 27.9  | 141                               | 34.6                              | 0.296  |
|                     | 4.0                  | 8.93              | 11.4                                   | 98.0                                      | 2.93                          | 25.70   | 30.6  | 154                               | 37.6                              | 0.294  |
|                     | 4.9                  | 10.8              | 13.7                                   | 115.0                                     | 2.89                          | 30.20   | 36.4  | 183                               | 43.9                              | 0.292  |
|                     | 5.0                  | 11.0              | 14.0                                   | 117.0                                     | 2.89                          | 30.60   | 37.0  | 186                               | 44.6                              | 0.292  |
|                     | 6.0                  | 12.9              | 16.5                                   | 133.0                                     | 2.85                          | 35.00   | 42.9  | 215                               | 50.7                              | 0.289  |
|                     | 6.3                  | 13.5              | 17.2                                   | 138.0                                     | 2.83                          | 36.20   | 44.6  | 223                               | 52.4                              | 0.289  |
|                     | 7.1                  | 15.0              | 19.1                                   | 149.0                                     | 2.80                          | 39.10   | 48.8  | 244                               | 56.6                              | 0.287  |
|                     | 8.0                  | 16.6              | 21.1                                   | 160.0                                     | 2.75                          | 42.10   | 53.2  | 265                               | 60.7                              | 0.284  |
|                     | 80 x 80              | 3.2               | 7.63                                   | 9.72                                      | 95.0                          | 3.13  | 23.7  | 27.9                              | 148                               | 34.9   |
| 3.6                 |                      | 8.53              | 10.9                                   | 105                                       | 3.11                          | 26.2  | 31.0  | 164                               | 38.5                              | 0.311  |
| 4.0                 |                      | 9.41              | 12.0                                   | 114                                       | 3.09                          | 28.6  | 34.0  | 180                               | 41.9                              | 0.310  |
| 4.9                 |                      | 11.4              | 14.5                                   | 135                                       | 3.05                          | 33.6  | 40.4  | 214                               | 49.0                              | 0.307  |
| 5.0                 |                      | 11.6              | 14.7                                   | 137                                       | 3.05                          | 34.2  | 41.1  | 217                               | 49.8                              | 0.307  |
| 5.6                 |                      | 12.8              | 16.3                                   | 149                                       | 3.02                          | 37.2  | 45.2  | 238                               | 54.1                              | 0.306  |
| 6.0                 |                      | 13.6              | 17.4                                   | 156                                       | 3.00                          | 39.1  | 47.8  | 252                               | 56.8                              | 0.305  |
| 6.3                 |                      | 14.1              | 18.1                                   | 162                                       | 2.99                          | 40.5  | 49.7  | 262                               | 58.7                              | 0.304  |
| 7.1                 |                      | 15.8              | 20.2                                   | 176                                       | 2.95                          | 43.9  | 54.5  | 286                               | 63.5                              | 0.302  |
| 8.0                 |                      | 17.5              | 22.4                                   | 189                                       | 2.91                          | 47.3  | 59.5  | 312                               | 68.3                              | 0.299  |

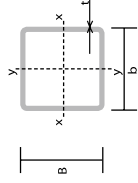
### SQUARE HOLLOW SECTIONS

| Size<br>B x B<br>mm | Thickness<br>T<br>mm | Mass<br>M<br>kg/m | Sectional Area<br>A<br>cm <sup>2</sup> | Moment of Inertia<br>I<br>cm <sup>4</sup> | Radius of Gyration<br>i<br>cm | Elastic Modulus                    |                                    | Plastic Modulus                   |                                   | Torsional Constants |  | Superficial Area per m<br>m <sup>2</sup> /m |
|---------------------|----------------------|-------------------|--|---|-------------------------------|------------------------------------|------------------------------------|-----------------------------------|-----------------------------------|---------------------|--|---|
|                     |                      |                   |  |   |                               | W <sub>el</sub><br>cm <sup>3</sup> | W <sub>pl</sub><br>cm <sup>3</sup> | I <sub>t</sub><br>cm <sup>4</sup> | C <sub>t</sub><br>cm <sup>3</sup> |                     |  |   |
| 90 x 90             | 3.6                  | 9.66              | 12.3                                   | 152                                       | 3.52                          | 33.8                               | 39.7                               | 237                               | 49.7                              | 0.351               |  |   |
|                     | 4.0                  | 10.7              | 13.6                                   | 166                                       | 3.50                          | 37.0                               | 43.6                               | 260                               | 54.2                              | 0.350               |  |   |
|                     | 4.9                  | 12.9              | 16.4                                   | 196                                       | 3.46                          | 43.6                               | 52.1                               | 310                               | 63.8                              | 0.347               |  |   |
|                     | 5.0                  | 13.1              | 16.7                                   | 200                                       | 3.45                          | 44.4                               | 53.0                               | 316                               | 64.8                              | 0.347               |  |   |
|                     | 5.6                  | 14.6              | 18.6                                   | 218                                       | 3.43                          | 48.5                               | 58.3                               | 347                               | 70.7                              | 0.346               |  |   |
|                     | 6.0                  | 15.5              | 19.8                                   | 230                                       | 3.41                          | 51.1                               | 61.8                               | 367                               | 74.3                              | 0.345               |  |   |
|                     | 6.3                  | 16.2              | 20.7                                   | 238                                       | 3.40                          | 53.0                               | 64.3                               | 382                               | 77.0                              | 0.344               |  |   |
|                     | 7.1                  | 18.1              | 23.0                                   | 260                                       | 3.36                          | 57.7                               | 70.8                               | 419                               | 83.7                              | 0.342               |  |   |
| 8.0                 | 20.1                 | 25.6              | 281                                    | 3.32                                      | 62.6                          | 77.6                               | 459                                | 90.5                              | 0.339                             |                     |  |   |
| 100 x 100           | 3.6                  | 10.8              | 13.7                                   | 212                                       | 3.92                          | 42.3                               | 49.5                               | 328                               | 62.3                              | 0.391               |  |   |
|                     | 4.0                  | 11.9              | 15.2                                   | 232                                       | 3.91                          | 46.4                               | 54.4                               | 361                               | 68.2                              | 0.390               |  |   |
|                     | 4.9                  | 14.4              | 18.4                                   | 275                                       | 3.87                          | 55.0                               | 65.2                               | 432                               | 80.5                              | 0.387               |  |   |
|                     | 5.0                  | 14.7              | 18.7                                   | 279                                       | 3.86                          | 55.9                               | 66.4                               | 439                               | 81.8                              | 0.387               |  |   |
|                     | 5.6                  | 16.3              | 20.8                                   | 306                                       | 3.84                          | 61.2                               | 73.2                               | 484                               | 89.5                              | 0.386               |  |   |
|                     | 6.0                  | 17.4              | 22.2                                   | 323                                       | 3.82                          | 64.6                               | 77.6                               | 513                               | 94.3                              | 0.385               |  |   |
|                     | 6.3                  | 18.2              | 23.2                                   | 336                                       | 3.80                          | 67.1                               | 80.9                               | 534                               | 97.8                              | 0.384               |  |   |
|                     | 7.1                  | 20.3              | 25.8                                   | 367                                       | 3.77                          | 73.4                               | 89.2                               | 589                               | 107                               | 0.382               |  |   |
| 8.0                 | 22.6                 | 28.8              | 400                                    | 3.73                                      | 79.9                          | 98.2                               | 646                                | 116                               | 0.379                             |                     |  |   |
| 10.0                | 27.4                 | 34.9              | 462                                    | 3.64                                      | 92.4                          | 116                                | 761                                | 133                               | 0.374                             |                     |  |   |



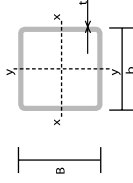
### SQUARE HOLLOW SECTIONS

| Size<br>B x B<br>mm | Thickness<br>T<br>mm | Mass<br>M<br>kg/m | Sectional Area<br>A<br>cm <sup>2</sup> | Moment of Inertia<br>I<br>cm <sup>4</sup> | Radius of Gyration<br>i<br>cm | Elastic Modulus                    |                                    | Plastic Modulus                   |                                   | Torsional Constants |  | Superficial Area per m<br>m <sup>2</sup> /m |
|---------------------|----------------------|-------------------|--|---|-------------------------------|------------------------------------|------------------------------------|-----------------------------------|-----------------------------------|---------------------|--|---|
|                     |                      |                   |  |   |                               | W <sub>el</sub><br>cm <sup>3</sup> | W <sub>pl</sub><br>cm <sup>3</sup> | I <sub>t</sub><br>cm <sup>4</sup> | C <sub>t</sub><br>cm <sup>3</sup> |                     |  |   |
| 120 x 120           | 4.0                  | 14.4              | 18.4                                   | 410                                       | 4.72                          | 68.4                               | 79.7                               | 635                               | 101                               | 0.470               |  |   |
|                     | 4.9                  | 17.5              | 22.3                                   | 489                                       | 4.68                          | 81.5                               | 95.8                               | 763                               | 120                               | 0.467               |  |   |
|                     | 5.0                  | 17.8              | 22.7                                   | 498                                       | 4.68                          | 83.0                               | 97.6                               | 777                               | 122                               | 0.467               |  |   |
|                     | 5.6                  | 19.9              | 25.3                                   | 579                                       | 4.65                          | 91.2                               | 108                                | 858                               | 134                               | 0.466               |  |   |
|                     | 6.0                  | 21.2              | 27.0                                   | 603                                       | 4.63                          | 96.6                               | 115                                | 911                               | 141                               | 0.465               |  |   |
|                     | 6.3                  | 22.2              | 28.2                                   | 620                                       | 4.62                          | 100                                | 120                                | 950                               | 147                               | 0.464               |  |   |
|                     | 7.1                  | 24.7              | 31.5                                   | 663                                       | 4.59                          | 110                                | 133                                | 1051                              | 161                               | 0.462               |  |   |
|                     | 8.0                  | 27.6              | 35.2                                   | 726                                       | 4.55                          | 121                                | 146                                | 1160                              | 176                               | 0.459               |  |   |
|                     | 8.8                  | 30.1              | 38.3                                   | 779                                       | 4.51                          | 130                                | 158                                | 1252                              | 189                               | 0.457               |  |   |
|                     | 10.0                 | 33.7              | 42.9                                   | 852                                       | 4.46                          | 142                                | 175                                | 1382                              | 206                               | 0.454               |  |   |
|                     | 12.5                 | 39.5              | 50.3                                   | 958                                       | 4.36                          | 160                                | 201                                | 1578                              | 230                               | 0.449               |  |   |
|                     | 14.0                 | 40.9              | 52.1                                   | 982                                       | 4.34                          | 164                                | 207                                | 1623                              | 236                               | 0.448               |  |   |
| 140 x 140           | 4.9                  | 20.6              | 26.2                                   | 793                                       | 5.50                          | 113                                | 132                                | 1230                              | 167                               | 0.547               |  |   |
|                     | 5.0                  | 21.0              | 26.7                                   | 807                                       | 5.50                          | 115                                | 135                                | 1253                              | 170                               | 0.547               |  |   |
|                     | 5.6                  | 23.4              | 29.8                                   | 891                                       | 5.47                          | 127                                | 149                                | 1387                              | 187                               | 0.546               |  |   |
|                     | 6.0                  | 24.9              | 31.8                                   | 944                                       | 5.45                          | 135                                | 159                                | 1475                              | 198                               | 0.545               |  |   |
|                     | 6.3                  | 26.1              | 33.3                                   | 984                                       | 5.44                          | 141                                | 166                                | 1540                              | 206                               | 0.545               |  |   |
|                     | 7.1                  | 29.2              | 37.2                                   | 1086                                      | 5.40                          | 155                                | 184                                | 1709                              | 227                               | 0.542               |  |   |
|                     | 8.0                  | 32.6              | 41.6                                   | 1195                                      | 5.36                          | 171                                | 204                                | 1892                              | 249                               | 0.539               |  |   |
|                     | 8.8                  | 35.6              | 45.4                                   | 1287                                      | 5.33                          | 184                                | 221                                | 2048                              | 268                               | 0.537               |  |   |
|                     | 10.0                 | 40.0              | 50.9                                   | 1416                                      | 5.27                          | 202                                | 246                                | 2272                              | 294                               | 0.534               |  |   |
|                     | 12.0                 | 47.0              | 59.9                                   | 1609                                      | 5.18                          | 230                                | 284                                | 2616                              | 333                               | 0.529               |  |   |
|                     | 12.5                 | 48.7              | 62.1                                   | 1653                                      | 5.16                          | 236                                | 293                                | 2696                              | 342                               | 0.528               |  |   |



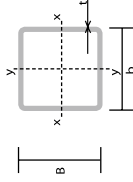
### SQUARE HOLLOW SECTIONS

| Size<br>B x B<br>mm | Thickness<br>T<br>mm | Mass<br>M<br>kg/m | Sectional Area<br>A<br>cm <sup>2</sup> | Moment of Inertia<br>I<br>cm <sup>4</sup> | Radius of Gyration<br>i<br>cm | Elastic Modulus<br>W <sub>el</sub><br>cm <sup>3</sup> | Plastic Modulus<br>W <sub>pl</sub><br>cm <sup>3</sup> | Torsional Constants               |                                   | Superficial Area per m <sup>2</sup> |
|---------------------|----------------------|-------------------|--|---|-------------------------------|---|---|-----------------------------------|-----------------------------------|-------------------------------------|
|                     |                      |                   |  |   |                               |   |   | I <sub>t</sub><br>cm <sup>4</sup> | C <sub>t</sub><br>cm <sup>3</sup> |                                     |
| 150 x 150           | 4.9                  | 22.1              | 28.2                                   | 984                                       | 5.91                          | 131   | 153   | 1522                              | 193                               | 0.587                               |
|                     | 5.0                  | 22.6              | 28.7                                   | 1002                                      | 5.90                          | 134   | 156   | 1550                              | 197                               | 0.587                               |
|                     | 5.6                  | 25.1              | 32.0                                   | 1106                                      | 5.88                          | 147   | 173   | 1718                              | 217                               | 0.586                               |
|                     | 6.0                  | 26.8              | 34.2                                   | 1174                                      | 5.86                          | 156   | 184   | 1828                              | 230                               | 0.585                               |
|                     | 6.3                  | 28.1              | 35.8                                   | 1223                                      | 5.85                          | 163   | 192   | 1909                              | 240                               | 0.584                               |
| 150 x 150           | 7.1                  | 31.4              | 40.0                                   | 1352                                      | 5.81                          | 180   | 213   | 2121                              | 264                               | 0.582                               |
|                     | 8.0                  | 35.1              | 44.8                                   | 1491                                      | 5.77                          | 199   | 237   | 2351                              | 291                               | 0.579                               |
|                     | 8.8                  | 38.4              | 48.9                                   | 1608                                      | 5.74                          | 214   | 257   | 2549                              | 313                               | 0.577                               |
|                     | 10.0                 | 43.1              | 54.9                                   | 1773                                      | 5.68                          | 236   | 286   | 2832                              | 344                               | 0.574                               |
|                     | 12.0                 | 50.8              | 64.7                                   | 2023                                      | 5.59                          | 270   | 331   | 3272                              | 391                               | 0.569                               |
| 160 x 160           | 12.5                 | 52.7              | 67.1                                   | 2080                                      | 5.57                          | 277   | 342   | 3375                              | 402                               | 0.568                               |
|                     | 16.0                 | 65.2              | 83.0                                   | 2430                                      | 5.41                          | 324   | 411   | 4026                              | 467                               | 0.559                               |
|                     | 5.0                  | 24.1              | 30.7                                   | 1225                                      | 6.31                          | 153   | 178   | 1892                              | 226                               | 0.627                               |
|                     | 5.6                  | 26.9              | 34.2                                   | 1353                                      | 6.29                          | 169   | 198   | 2098                              | 249                               | 0.626                               |
|                     | 6.0                  | 28.7              | 36.6                                   | 1437                                      | 6.27                          | 180   | 210   | 2233                              | 264                               | 0.625                               |
| 6.3                 | 30.1                 | 38.3              | 1499                                   | 6.26                                      | 187                           | 220   | 2333  | 275                               | 0.624                             |                                     |



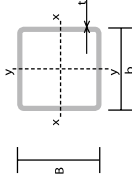
### SQUARE HOLLOW SECTIONS

| Size<br>B x B<br>mm | Thickness<br>T<br>mm | Mass<br>M<br>kg/m | Sectional Area<br>A<br>cm <sup>2</sup> | Moment of Inertia<br>I<br>cm <sup>4</sup> | Radius of Gyration<br>i<br>cm | Elastic Modulus<br>W <sub>el</sub><br>cm <sup>3</sup> | Plastic Modulus<br>W <sub>pl</sub><br>cm <sup>3</sup> | Torsional Constants               |                                   | Superficial Area per m <sup>2</sup> |
|---------------------|----------------------|-------------------|--|---|-------------------------------|---|---|-----------------------------------|-----------------------------------|-------------------------------------|
|                     |                      |                   |  |   |                               |   |   | I <sub>t</sub><br>cm <sup>4</sup> | C <sub>t</sub><br>cm <sup>3</sup> |                                     |
| 160 x 160           | 7.1                  | 33.7              | 42.9                                   | 1659                                      | 6.22                          | 207   | 245   | 2595                              | 304                               | 0.622                               |
|                     | 8.0                  | 37.6              | 48.0                                   | 1831                                      | 6.18                          | 229   | 272   | 2880                              | 335                               | 0.619                               |
|                     | 8.8                  | 41.1              | 52.4                                   | 1978                                      | 6.14                          | 247   | 295   | 3125                              | 361                               | 0.617                               |
|                     | 10.0                 | 46.3              | 58.9                                   | 2186                                      | 6.09                          | 273   | 329   | 3478                              | 398                               | 0.614                               |
|                     | 12.0                 | 54.6              | 69.5                                   | 2502                                      | 6.00                          | 313   | 382   | 4028                              | 454                               | 0.609                               |
| 180 x 180           | 12.5                 | 56.6              | 72.1                                   | 2576                                      | 5.98                          | 322   | 395   | 4158                              | 467                               | 0.608                               |
|                     | 14.2                 | 63.2              | 80.7                                   | 2809                                      | 5.90                          | 351   | 436   | 4579                              | 508                               | 0.603                               |
|                     | 16.0                 | 70.2              | 89.4                                   | 3028                                      | 5.82                          | 379   | 476   | 4988                              | 546                               | 0.599                               |
|                     | 5.0                  | 27.3              | 34.7                                   | 1765                                      | 7.13                          | 196   | 227   | 2718                              | 290                               | 0.707                               |
|                     | 5.6                  | 30.4              | 38.7                                   | 1954                                      | 7.10                          | 217   | 252   | 3018                              | 320                               | 0.706                               |
| 160 x 160           | 6.0                  | 32.5              | 41.4                                   | 2077                                      | 7.09                          | 231   | 269   | 3215                              | 340                               | 0.705                               |
|                     | 6.3                  | 34.0              | 43.3                                   | 2168                                      | 7.07                          | 241   | 281   | 3361                              | 355                               | 0.704                               |
|                     | 7.1                  | 38.1              | 48.6                                   | 2404                                      | 7.04                          | 267   | 314   | 3744                              | 393                               | 0.702                               |
|                     | 8.0                  | 42.7              | 54.4                                   | 2661                                      | 7.00                          | 296   | 349   | 4162                              | 434                               | 0.699                               |
|                     | 8.8                  | 46.7              | 59.4                                   | 2880                                      | 6.96                          | 320   | 379   | 4524                              | 469                               | 0.697                               |
| 180 x 180           | 10.0                 | 52.5              | 66.9                                   | 3193                                      | 6.91                          | 355   | 424   | 5048                              | 518                               | 0.694                               |
|                     | 12.0                 | 62.1              | 79.1                                   | 3677                                      | 6.82                          | 409   | 494   | 5873                              | 595                               | 0.689                               |
|                     | 12.5                 | 64.4              | 82.1                                   | 3790                                      | 6.80                          | 421   | 511   | 6070                              | 613                               | 0.688                               |
|                     | 14.2                 | 72.2              | 92.9                                   | 4154                                      | 6.72                          | 462   | 566   | 6711                              | 670                               | 0.683                               |
|                     | 16.0                 | 80.2              | 102                                    | 4504                                      | 6.64                          | 500   | 621   | 7343                              | 724                               | 0.679                               |



### SQUARE HOLLOW SECTIONS

| Size<br>B x B<br>mm | Thickness<br>T<br>mm | Mass<br>M<br>kg/m | Sectional Area<br>A<br>cm <sup>2</sup> | Moment of Inertia<br>I<br>cm <sup>4</sup> | Radius of Gyration<br>i<br>cm | Elastic Modulus<br>W <sub>el</sub><br>cm <sup>3</sup> | Plastic Modulus<br>W <sub>pl</sub><br>cm <sup>3</sup> | Torsional Constants               |                                   | Superficial Area per Area per<br>m <sup>2</sup> /m |
|---------------------|----------------------|-------------------|--|---|-------------------------------|---|---|-----------------------------------|-----------------------------------|--|
|                     |                      |                   |  |   |                               |   |   | I <sub>t</sub><br>cm <sup>4</sup> | C <sub>t</sub><br>cm <sup>3</sup> |  |
| 200 x 200           | 5.0                  | 30.4              | 38.7                                   | 2445                                      | 7.95                          | 245   | 283   | 3756                              | 362                               | 0.787  |
|                     | 5.6                  | 33.9              | 43.2                                   | 2710                                      | 7.92                          | 271   | 314   | 4174                              | 401                               | 0.786  |
|                     | 6.0                  | 36.2              | 46.2                                   | 2883                                      | 7.90                          | 288   | 335   | 4449                              | 426                               | 0.785  |
|                     | 6.3                  | 38.0              | 48.4                                   | 3011                                      | 7.89                          | 301   | 350   | 4653                              | 444                               | 0.784  |
|                     | 7.1                  | 42.6              | 54.2                                   | 3345                                      | 7.85                          | 335   | 391   | 5189                              | 493                               | 0.782  |
| 200 x 200           | 8.0                  | 47.7              | 60.8                                   | 3709                                      | 7.81                          | 371   | 436   | 5778                              | 545                               | 0.779  |
|                     | 8.8                  | 52.2              | 66.5                                   | 4021                                      | 7.78                          | 402   | 474   | 6288                              | 590                               | 0.777  |
|                     | 10.0                 | 58.8              | 74.9                                   | 4471                                      | 7.72                          | 447   | 531   | 7031                              | 655                               | 0.774  |
|                     | 12.0                 | 69.6              | 88.7                                   | 517                                       | 7.64                          | 517   | 621   | 8208                              | 754                               | 0.769  |
|                     | 12.5                 | 72.3              | 92.1                                   | 5336                                      | 7.61                          | 534   | 643   | 8491                              | 778                               | 0.768  |
|                     | 14.2                 | 81.1              | 103                                    | 5872                                      | 7.54                          | 587   | 714   | 9417                              | 854                               | 0.763  |
|                     | 16.0                 | 90.3              | 115                                    | 6394                                      | 7.46                          | 639   | 785   | 10340                             | 927                               | 0.759  |



### SQUARE HOLLOW SECTIONS

| Size<br>B x B<br>mm | Thickness<br>T<br>mm | Mass<br>M<br>kg/m | Sectional Area<br>A<br>cm <sup>2</sup> | Moment of Inertia<br>I<br>cm <sup>4</sup> | Radius of Gyration<br>i<br>cm | Elastic Modulus<br>W <sub>el</sub><br>cm <sup>3</sup> | Plastic Modulus<br>W <sub>pl</sub><br>cm <sup>3</sup> | Torsional Constants               |                                   | Superficial Area per Area per<br>m <sup>2</sup> /m |
|---------------------|----------------------|-------------------|--|---|-------------------------------|---|---|-----------------------------------|-----------------------------------|--|
|                     |                      |                   |  |   |                               |   |   | I <sub>t</sub><br>cm <sup>4</sup> | C <sub>t</sub><br>cm <sup>3</sup> |  |
| 250 x 250           | 5.0                  | 36.3              | 48.7                                   | 4861                                      | 9.99                          | 389   | 447   | 7430                              | 577                               | 0.987  |
|                     | 5.6                  | 42.7              | 54.4                                   | 5399                                      | 9.96                          | 432   | 498   | 8271                              | 640                               | 0.986  |
|                     | 6.0                  | 45.7              | 58.2                                   | 5752                                      | 9.94                          | 460   | 531   | 8825                              | 681                               | 0.985  |
|                     | 6.3                  | 47.9              | 61.0                                   | 6014                                      | 9.93                          | 481   | 556   | 9238                              | 712                               | 0.984  |
|                     | 7.1                  | 53.7              | 68.4                                   | 6701                                      | 9.90                          | 536   | 622   | 10325                             | 792                               | 0.982  |
| 250 x 250           | 8.0                  | 60.3              | 76.8                                   | 7455                                      | 9.86                          | 596   | 694   | 11525                             | 880                               | 0.979  |
|                     | 8.8                  | 66.0              | 84.1                                   | 8107                                      | 9.82                          | 649   | 758   | 12572                             | 955                               | 0.977  |
|                     | 10.0                 | 74.5              | 94.9                                   | 9055                                      | 9.77                          | 724   | 851   | 14106                             | 1065                              | 0.974  |
|                     | 12.0                 | 88.5              | 113                                    | 10556                                     | 9.68                          | 844   | 1000  | 16567                             | 1237                              | 0.969  |
|                     | 12.5                 | 91.9              | 117                                    | 10915                                     | 9.66                          | 873   | 1037  | 17164                             | 1279                              | 0.968  |
|                     | 14.2                 | 103               | 132                                    | 12094                                     | 9.58                          | 967   | 1158  | 19139                             | 1413                              | 0.963  |
|                     | 16.0                 | 115               | 147                                    | 13267                                     | 9.50                          | 1061  | 1280  | 21138                             | 1546                              | 0.959  |
| 300 x 300           | 8.0                  | 72.8              | 92.8                                   | 13128                                     | 11.9                          | 875   | 1013  | 20194                             | 1294                              | 1.18   |
|                     | 16.0                 | 141               | 179                                    | 23884                                     | 11.5                          | 1590  | 1895  | 37622                             | 1325                              | 1.16   |
| 350 x 350           | 10.0                 | 106               | 135                                    | 25541                                     | 13.9                          | 1479  | 1715  | 39886                             | 2185                              | 1.37   |
|                     | 12.5                 | 131               | 167                                    | 31541                                     | 13.7                          | 1802  | 2107  | 48934                             | 2654                              | 1.37   |