



## EQUAL ANGLES: Dimensions and Properties

| Designation |             | Mass per Metre | Area of Section | Distance of Center of Gravity c | Moment of Inertia | Radius of Gyration | Elastic Modulus | Plastic Modulus |
|-------------|-------------|----------------|-----------------|---------------------------------|-------------------|--------------------|-----------------|-----------------|
| Size A      | Thickness t |                |                 |                                 | Axis x-x, y-y     | Axis x-x, y-y      | Axis x-x, y-y   | Axis x-x, y-y   |
| mm          | mm          | kg             | cm <sup>2</sup> | cm                              | cm <sup>4</sup>   | cm                 | cm <sup>3</sup> | cm <sup>3</sup> |
| 200 x 200   | 24          | 71.10          | 90.80           | 5.84                            | 3330              | 6.06               | 235             | 426.20          |
|             | 20          | 59.90          | 76.60           | 5.68                            | 2850              | 6.11               | 199             | 361.01          |
|             | 18          | 54.20          | 69.14           | 5.60                            | 2600              | 6.13               | 181             | 327.55          |
|             | 16          | 48.50          | 61.80           | 5.52                            | 2340              | 6.16               | 162             | 293.49          |
| 150 x 150   | 20          | 44.20          | 56.30           | 4.44                            | 1150              | 4.51               | 109             |                 |
|             | 19          | 42.10          | 53.70           | 4.40                            | 1100              | 4.52               | 104             |                 |
|             | 18          | 40.10          | 51.00           | 4.37                            | 1050              | 4.54               | 98.70           | 179.37          |
|             | 15          | 33.80          | 43.00           | 4.25                            | 898               | 4.57               | 83.50           | 151.85          |
|             | 12          | 27.30          | 34.80           | 4.12                            | 737               | 4.60               | 67.70           | 123.35          |
|             | 10          | 23.00          | 29.14           | 4.03                            | 624               | 4.62               | 56.90           | 103.77          |
| 130 x 130   | 16          | 30.80          | 39.30           | 3.80                            | 605               | 3.93               | 65.70           |                 |
|             | 15          | 29.00          | 37.00           | 3.76                            | 573               | 3.94               | 62.00           |                 |
|             | 12          | 23.50          | 30.00           | 3.64                            | 472               | 3.97               | 50.40           |                 |
|             | 10          | 19.80          | 25.20           | 3.55                            | 401               | 3.99               | 42.50           |                 |
| 120 x 120   | 15          | 26.60          | 33.90           | 3.51                            | 445               | 3.62               | 52.40           |                 |
|             | 14          | 25.00          | 31.80           | 3.48                            | 420               | 3.63               | 49.20           |                 |
|             | 12          | 21.60          | 27.50           | 3.40                            | 368               | 3.65               | 42.70           |                 |
|             | 10          | 18.20          | 23.20           | 3.31                            | 313               | 3.67               | 36.00           |                 |
|             | 8           | 14.70          | 18.70           | 3.23                            | 255               | 3.69               | 29.10           |                 |
| 100 x 100   | 15          | 21.90          | 27.90           | 3.02                            | 249               | 2.98               | 35.60           | 64.77           |
|             | 12          | 17.80          | 22.70           | 2.90                            | 207               | 3.02               | 29.10           | 53.03           |
|             | 10          | 15.00          | 19.20           | 2.82                            | 177               | 3.04               | 24.60           | 44.73           |
|             | 8           | 12.20          | 15.50           | 2.74                            | 145               | 3.06               | 19.90           | 36.43           |
|             | 6           | 9.26           | 11.80           | 2.64                            | 111               | 3.07               | 15.10           |                 |
| 90 x 90     | 12          | 15.90          | 20.30           | 2.66                            | 148               | 2.70               | 23.30           | 42.50           |
|             | 10          | 13.40          | 17.10           | 2.58                            | 127               | 2.72               | 19.80           | 36.03           |
|             | 9           | 12.20          | 15.50           | 2.54                            | 116               | 2.73               | 17.90           |                 |
|             | 8           | 10.90          | 13.90           | 2.50                            | 104               | 2.74               | 16.10           | 29.30           |
|             | 7           | 9.61           | 12.20           | 2.45                            | 92.50             | 2.75               | 14.10           |                 |
|             | 6           | 8.30           | 10.60           | 2.41                            | 80.30             | 2.76               | 12.20           | 22.31           |
| 80 x 80     | 10          | 11.90          | 15.10           | 2.34                            | 87.50             | 2.41               | 15.40           | 28.15           |
|             | 8           | 9.63           | 12.30           | 2.26                            | 72.20             | 2.43               | 12.60           | 22.95           |
|             | 6           | 7.34           | 9.25            | 2.17                            | 55.80             | 2.44               | 9.57            | 17.52           |