



EQUAL ANGLES | COMMERCIAL QUALITY & SANS 50025 / EN 10025 Grade S355JR

Steel angles are typically made from roll-formed, mild steel and are formed by bending a piece of steel into an angle so that it forms an 'L'-shape, with a 90°, perpendicular angle. The legs of an equal angle's 'L' are equal in size. Equal angles are known as angle irons, or L-brackets.

Production application

Angles are typically used as reinforcement, especially on surface edges, to help surfaces hold their shape, which helps curb damage or weather erosion to structures. Angles also offer support where structures would otherwise not be strong enough able to handle the weight placed on them.

Mild steel (commercial quality) – Mass per metre (kg/m)

| Dimensions | 2mm | 2.5mm | 3mm | 4mm | 5mm | 6mm | 8mm |
|------------|-------|-------|-------|-------|-------|-------|-------|
| 25 x 25 | 0.777 | 0.954 | 1.114 | | 1.773 | | |
| 30 x 30 | 0.953 | 1.171 | 1.363 | | 2.180 | | |
| 40 x 40 | 1.285 | 1.582 | 1.874 | 2.417 | 2.974 | 3.516 | |
| 45 x 45 | | | 2.131 | 2.742 | 3.378 | 3.998 | |
| 50 x 50 | | | 2.367 | 3.056 | 3.770 | 4.469 | 5.819 |

SANS 50025/EN 10025 Grade S355JR – Mass per metre (kg/m)

| Dimensions | 4mm | 5mm | 6mm | 8mm | 10mm | 12mm | 15mm | 16mm | 18mm | 20mm | 24mm |
|------------|-------|-------|-------|--------|--------|--------|---------|--------|--------|--------|--------|
| 60 x 60 | 3.696 | 4.568 | 5.423 | 7.088 | 8.689 | | | | | | |
| 70 x 70 | | | 6.380 | 8.358 | 10.273 | | | | | | |
| 80 x 80 | | | 7.338 | 9.630 | 11.859 | 14.026 | | | | | |
| 90 x 90 | | | 8.297 | 10.904 | 13.447 | 15.928 | | | | | |
| 100 x 100 | | | | 12.179 | 15.036 | 17.831 | 21.905* | | | | |
| 120 x 120 | | | | 14.712 | 18.197 | 21.620 | 26.636* | | | | |
| 150 x 150 | | | | | 22.981 | 27.345 | 33.774 | | 40.062 | | |
| 200 x 200 | | | | | | | | 48.500 | 54.200 | 59.900 | 71.100 |

* Please confirm availability with your local Macsteel Trading branch as some items may not be readily available.