# ANGLES

## PRODUCT PACKAGING

- Packaged in unfolded /straight bundles weighing up to 2 MT
- Bundles containing a standard number of angles per the size are securely tied with wire ties at every 2.4 Mtr interval (5 ties).
- Each bundle is identified with a metal label indicating Trade Name, Date of Production, Batch No / Heat No, Size of the angles, Number of Pieces, and Weight of the Bundle.

## CHEMICAL PROPERTIES

| STANDARD | | % C | % Mn | % S | % P | % Cu | % CE |
|---|---|---|---|---|---|---|---|
| **SANS 50025-1-2-3:2009** | S275JR | 0.24 Max | 1.60 Max | 0.045 Max | 0.045 Max | 0.60 Max | 0.40 Max |
| **SANS 50025-1-2-3:2009** | S355JR | 0.27 Max | 1.70 Max | 0.045 Max | 0.045 Max | 0.60 Max | 0.45 Max |
| **UMCIL** | S275JR | 0.20 Max | 1.60 Max | 0.040 Max | 0.040 Max | 0.50 Max | 0.40 Max |
| **UMCIL** | S355JR | 0.24 Max | 1.60 Max | 0.040 Max | 0.040 Max | 0.50 Max | 0.45 Max |

## MECHANICAL PROPERTIES

| Specification | Grade | Yield Strength (Min.) [MPa] | Tensile Strength (min.) [MPa] | Elongation (min. [%] |
|---|---|---|---|---|
| SANS 50025-1-2-3:2009 | S275JR | 275 | 410/560 | 23 |
| SANS 50025-1-2-3:2009 | S355JR | 355 | 470/630 | 22 |
| UMCIL | S275JR | 275 | 410/560 | 23 |
| UMCIL | S355JR | 355 | 470/630 | 22 |

## WEIGHT CHART

| Standard Size | Standard Weight/m | 13 Meter Pieces/ 2 Ton | 12 Meter Pieces/2 Ton | 6 Meter Pieces/2 Ton |
|---|---|---|---|---|
| A40X40X3 | 1.84 | 83 | 90 | 180 |
| A40X40X4 | 2.42 | 64 | 70 | 140 |
| A40X40X5 | 2.97 | 52 | 57 | 114 |
| A40X40X6 | 3.52 | 44 | 48 | 96 |
| A50X50X3 | 2.36 | 65 | 70 | 140 |
| A50X50X4 | 3.06 | 50 | 55 | 110 |
| A50X50X5 | 3.77 | 41 | 45 | 90 |
| A50X50X6 | 4.47 | 35 | 38 | 76 |
| A60X60X5 | 4.57 | 34 | 37 | 74 |
| A60X60X6 | 5.42 | 29 | 31 | 62 |
| A60X60X8 | 7.09 | 22 | 24 | 48 |
| A70X70X5 | 5.38 | 29 | 31 | 62 |
| A70X70X6 | 6.38 | 24 | 26 | 52 |
| A70X70X8 | 8.36 | 18 | 20 | 40 |
| A80X80X6 | 7.34 | 21 | 23 | 46 |
| A80X80X8 | 9.63 | 16 | 18 | 36 |