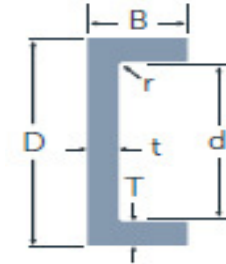




Tapered Flange Channels



[Download Data Sheet in pdf format](#)

Physical Properties as per EN 100279:2000

| Serial Size | Mass per meter | Mass per meter Variance | Depth of the section | Depth of Section Variance | Width of the section | Width of the section Variance | Web Thickness | Web Thickness Variance | Flange Thickness | Flange Thickness Variance | Root Radius |
|----------------|----------------|-------------------------|----------------------|---------------------------|----------------------|-------------------------------|---------------|------------------------|------------------|---------------------------|-------------|
| | | | D | D± | B | B± | t | t± | T | T± | r |
| | Kgs/Mtr | Kgs/Mtr | mm | mm | mm | mm | mm | mm | mm | mm | mm |
| 76 X 38 HEAVY | 6.7 | ± 2.5% | 76 | ± 1.5 | 38 | ± 1.5 | 5.1 | ± 0.5 | 6.8 | ±1.5 | 7.6 |
| 76 X 38 LITE | 5.7 | ± 2.5% | 76 | ± 1.5 | 38 | ± 1.5 | 4 | ± 0.5 | 5.8 | ±1.5 | 7.5 |
| 100 X 50 HEAVY | 10.7 | ± 2.5% | 100 | ± 2.0 | 50 | ± 1.5 | 6 | ± 0.5 | 8.5 | ±0.5 | 8.5 |
| 100 X 50 LITE | 8.88 | ± 2.5% | 100 | ± 2.0 | 50 | ± 1.5 | 5 | ± 0.5 | 7.0 | ±0.5 | 8.5 |
| 120 x 55 STD | 13.55 | ± 2.5% | 120 | ± 2.0 | 55 | ± 2.0 | 7 | ± 0.5 | 9.0 | ±0.5 | 9.0 |
| 127 X 64 STD | 14.93 | ± 2.5% | 127 | ± 2.0 | 64 | ± 2.0 | 6.4 | ± 0.6 | 9.2 | ±1.5 | 10.7 |
| 140 x 60 STD | 16.223 | ± 2.5% | 140 | ± 2.0 | 60 | ± 2.0 | 7 | ± 0.6 | 10.0 | ±0.5 | 10.0 |
| 152 X 76 | 17.91 | ± 2.5% | 152 | ± 2.0 | 76 | ± 2.0 | 6.4 | ± 0.5 | 9.0 | ±1.5 | 12.2 |
| 160 x 65 STD | 19.122 | ± 2.5% | 160 | ± 2.0 | 65 | ± 2.0 | 7.5 | ± 0.5 | 10.5 | ±1.0 | 10.5 |
| 178 X 54 | 14.54 | ± 2.5% | 178 | ± 2.0 | 54 | ± 2.0 | 5.8 | ± 0.6 | 8.3 | ±1.5 | 8.3 |

Mechanical Properties

| Particulars | CQ (Typical Values) | S355 JR |
|--|---------------------|---------|
| Yield Stress (MPA) MINIMUM | 355 | 355 |
| Ultimate Tensile Strength (MPA) | Not Specified | 490-630 |
| Elongation % | 22 | 22 |



Chemical Properties

| Chemical Element | CQ (Typical Values) | S355 JR |
|-------------------------|---------------------|---------|
| Carbon (C) % | < 0.300 | < 0.270 |
| Silicon (Si) % | < 0.600 | < 0.600 |
| Manganese (Mn) % | < 1.70 | < 1.70 |
| Phosphorus (P)% | < 0.045 | < 0.045 |
| Sulphur (S) % | < 0.045 | < 0.045 |
| Chrome (Cr) % | | < 0.350 |
| Nickel (Ni) % | < 0.014 | < 0.040 |
| Copper (Cu) % | | < 0.600 |
| CEV | < 0.51 | < 0.45 |

*CE % (m/m) = $C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15$

* * The Commercial Quality material has only been subjected to the chemical and mechanical properties and as such no assurance is given to any other testing procedures and

Grades:

TFC 100 x 50 LITE is produced in CQ grade.

All other TFC's are produced in S355Jr Grades

The grade needs to be specified at the time of ordering the material. Acceptance of any orders for any grades is at the discretion of Force Steels.

Length:

-Standard lengths:

TFC are produced in standard lengths of 6mts, and 13 Mtrs.

Non Standard Lengths:

Lengths other than Standard Lengths can be produced on request in increments of 1M (Minimum 5.8 Mtrs).

Minimum order qty for non-standard lengths is 15 tons.

There is length tolerance of -0 and +50mm.

Supplied order qty for non standard lengths can be + -20% of the order quantity.

Tolerance: The tolerances are as mentioned under EN 10056-2 standard.

Minimum Order: A minimum order quantity of 1 Bundle (link to bundle size data sheet) per item is applicable.