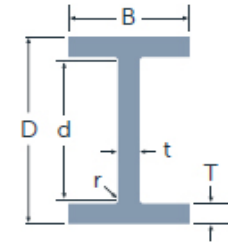




[Download Data Sheet in pdf format](#)

IPE BEAM



## Physical Properties

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
			mm	mm	mm	mm	mm	mm	mm	mm	mm
100 x 55	8.1	± 2.5%	100	± 2.0	55	± 2.0	4.1	± 0.50	5.7	± 1.0	7
100 x 55 AA	6.72	± 2.5%	97.6	± 2.0	55	± 2.0	3.6	± 0.40	4.5	± 0.80	7
120 x 64	10.37	± 2.5%	120	± 2.0	64	± 2.0	4.4	± 0.50	6.3	± 1.0	7
120 x 64 AA	8.35	± 2.5%	117	± 2.0	64	± 2.0	3.8	± 0.40	4.8	± 0.80	7
140 x 73	12.894	± 2.5%	140	- 2 + 3	73	- 2 + 3	4.7	± 0.75	6.9	± 1.5	7
140 x 73 AA	10.054	± 2.5%	136.6	- 2 + 3	73	- 2 + 3	3.8	± 0.60	5.2	± 1.2	7

## Mechanical Properties

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



## Chemical Properties

Chemical Element	CQ (Typical Values)	S355 JR
<b>Carbon (C) %</b>	< 0.300	< 0.270
<b>Silicon (Si) %</b>	< 0.600	< 0.600
<b>Manganese (Mn) %</b>	< 1.70	< 1.70
<b>Phosphorus (P)%</b>	< 0.045	< 0.045
<b>Sulphur (S) %</b>	< 0.045	< 0.045
<b>Chrome (Cr) %</b>		< 0.350
<b>Nickel (Ni) %</b>	< 0.014	< 0.040
<b>Copper (Cu) %</b>		< 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:

All the IPE's are produced in S355Jr Grades

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

### Length:

#### -Standard lengths:

IPE's are produced in standard lengths of 6mts, 9mts 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%.

**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.