



Data Sheet

HA 300

Hot-Rolled

Revision: 31/1/2012

GENERAL DESCRIPTION

Hot Rolled HA300 steel is a structural steel with a guaranteed minimum yield strength of 300MPa with good ductility.

APPLICATIONS

- Structural members

STANDARDS

- AS/NZS 1594:2002
- AS/NZS 1365:1996

	3.1 – 4.9mm	4.9 – 13.0mm	3.1 – 4.9mm	4.9 – 13.0mm
CHEMICAL COMPOSITION	TYPICAL (wt %)		EXPECTED MAXIMUM (wt %)^[1]	
Carbon (C)	0.17	0.17	0.20	0.20
Silicon (Si)	0.007	0.01	0.03	0.03
Manganese (Mn)	0.60	1.60	1.00	1.60
Sulphur (S)	0.017	0.017	0.030	0.030
Phosphorus (P)	0.016	0.014	0.040	0.040

^[1] Values shown refer to relevant Australian/ New Zealand standard unless tighter internal limits are applied.

	3.1 – 4.9mm	4.9 – 13.0mm	3.1 – 4.9mm	4.9 – 13.0mm
MECHANICAL PROPERTIES	TYPICAL		EXPECTED MINIMUM	
Yield strength, MPa	340	350	300	300
Tensile strength, MPa	480	490	400	400
Elongation, % on L ₀ = 200mm	28	25	16	16

Material should be used promptly (within 6 months) to avoid the possibility of storage related corrosion and degradation.

Mechanical properties are guaranteed at ambient/room temperatures. Please consult technical representatives at New Zealand Steel for high/low temperature use.

DIMENSION CAPABILITIES	
THICKNESS (mm)	WIDTH (mm)
3.10 – 3.23	730 – 1000
3.24 – 3.99	730 – 1260
4.00 – 4.90	730 – 1540
4.91 – 13.00	730 – 1540

These dimensions are a reflection of technical capability to produce. Supply conditions may be subject to dimensional restrictions and is subject to New Zealand Steel Marketing confirmation. Other dimensional combinations may be available by enquiry. Not all sizes available for coil plate

FABRICATING PERFORMANCE 1 = Limited 5 = Excellent	
METHOD	RATING
Drawing	2
Pressing	2
Bending	4
Roll-forming	4
Welding	5

STANDARD PLATE SIZES
1220 x 2400
1520 x 3600

AVAILABLE FORMS	
DRY	PICKLED & OILED
Mill edge coil	N.A
Coil-Plate	

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