



Data Sheet

HA350

Hot-Rolled

Revision: 31/1/2012

HR

GENERAL DESCRIPTION

Hot Rolled HA350 steel is a structural steel with a guaranteed minimum yield strength of 350MPa with good ductility.

APPLICATIONS

- Building frame work and structural applications
- Rigging & scaffolding.
- Brackets

STANDARDS

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

	3.21 – 3.60mm	3.61 - 4.90mm	4.91 - 8.99mm	9.00 -13.00mm	3.21 – 3.60mm	3.61 - 4.90mm	4.91 - 8.99mm	9.00 -13.00mm
CHEMICAL COMPOSITION	TYPICAL (wt %)				EXPECTED MAXIMUM (wt %)^[1]			
Carbon (C)	0.170	0.170	0.150	0.110	0.195	0.195	0.170	0.135
Silicon (Si)	0.012	0.013	0.250	0.15	0.030	0.030	0.350	0.25
Manganese (Mn)	1.05	1.05	1.300	1.300	1.200	1.200	1.450	1.450
Sulphur (S)	0.0165	0.0169	0.0146	0.0142	0.030	0.030	0.030	0.030
Phosphorus (P)	0.011	0.0156	0.0143	0.0142	0.030	0.030	0.030	0.030
Vanadium (V)	0.01	0.01	0.035	0.075	0.030	0.030	0.045	0.090

^[1] Values shown refer to relevant Australian/ New Zealand standard unless stated otherwise

MECHANICAL PROPERTIES	TYPICAL	EXPECTED MINIMUM
Yield strength, MPa	389	350 min
Tensile strength, MPa	523	430 min
Elongation, % on L ₀ = 200mm	23	15.0 min

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)
3.21 – 3.60	730 - 900
3.61 - 4.90	730 - 1290
4.91 - 8.99	730 - 1540
9.00 -13.00	730 - 1540

These dimensions are a reflection of technical capability to produce. Supply conditions may be subject to dimensional and available from 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.

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

STANDARD PLATE SIZE (mm)
1220 x 2400
1520 x 3600

FABRICATING PERFORMANCE 1 = Limited 5 = Excellent	
METHOD	RATING
Drawing	2
Pressing	2
Bending	3
Roll-forming	3
Welding	5
Galvanising	3

New Zealand Steel Limited

Auckland
Tel. +64 9 375 8999
Fax. +64 9 375 8213
A BlueScope Steel Company

www.nzsteel.co.nz
nzsteel@bluescopesteel.com
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