



Data Sheet

HA 250

Hot-Rolled - Structural

Revision: 10/05/2022

HR

GENERAL DESCRIPTION

Hot Rolled HA250 steel is a structural steel with a guaranteed minimum yield strength of 250MPa with good ductility.

APPLICATIONS

- Structural members
- Brake press forming applications
- General fabrication
- Galvanising

STANDARDS

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

	2.0 – 2.89mm	2.9 – 6.0mm	6.1 – 12.0mm	2.0 – 2.89mm	2.9 – 6.0mm	6.1 – 12.0mm
CHEMICAL COMPOSITION	TYPICAL (wt %)			EXPECTED MAXIMUM (wt %)^[1]		
Carbon (C)	0.050	0.075	0.170	0.100	0.100	0.200
Silicon (Si)	0.007	0.008	0.008	0.030	0.030	0.030
Manganese (Mn)	0.200	0.600	0.600	0.700	0.700	1.20
Sulphur (S)	0.018	0.018	0.018	0.030	0.030	0.030
Phosphorus (P)	0.014	0.016	0.016	0.030	0.030	0.040

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

	2.0 – 2.9mm	3.0 – 6.0mm	6.1 – 12.0mm	2.0 – 3.0mm	3.1 – 12.0mm
MECHANICAL PROPERTIES	TYPICAL			EXPECTED MINIMUM	
Yield strength, MPa	280	300	290	250	250
Tensile strength, MPa	390	410	450	350	350
Elongation, % on L ₀ = 200mm	32	30	27	16	17

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)
2.00 – 2.44	730 – 1290
2.45 – 2.60	730 – 1260
2.61 – 12.00	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.

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

STANDARD PLATE SIZES
1220 x 2400
1520 x 3600

FABRICATING PERFORMANCE	
1 = Limited 5 = Excellent	
METHOD	RATING
Drawing	2
Pressing	3
Bending	4
Roll-forming	4
Welding	5

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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