Hot Rolled Structural

Revision 6, November 2003 This literature supersedes all previous issues

GENERAL DESCRIPTION

HA250 - Hot-rolled Structural steel with a guaranteed minimum yield strength of 250 MPa, with good ductility.

TYPICAL USES

Structural sections, light poles, guard rails and gas cylinders.

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AUSTRALIAN STANDARDS

AS/NZS 1594/2002 AS/NZS 1365/1996

GUARANTEED PROPERTIES OF STEEL BASE

MECHANICAL PROPERTIES	GUARANTEED	-	MICAL ERTIES	GUARANTEED MAXIMUM %	TYPICAL %
Longitudinal tensile Yield strength, MPa Tensile strength, MPa Elong on 80 mm, % ≤ 3 mm > 3 mm 180° transverse bend (L axis) ≤ 5.0 mm > 5.0 mm	250 min 350 min 20 min 24 min 1t 2t	Carbon (Silicon (Si Mangane Phosphor Sulphur (Aluminiur Nitrogen Titanium Niobium	C)) ese (Mn) rus (P) S) m (AI) (N) (Ti)	0.20 0.35 1.20 0.04 0.03 0.10 - 0.04 0.01 0.03	0.09 - 0.17 0.005 - 0.015 0.50 - 0.75 0.005 - 0.025 0.005 - 0.015 0.015 - 0.060 - - - -

DIMENSIONAL CAPABILITIES

Preferred Thickness,		Width Range, mm																
mm	90	0	1000) 1	100	1200)	1300	14	00	15	00	16	00	17	00	18	300
13																		
10																		
8																		
6																		
5																		
4.5																		
4																		
3.5																		
3																		
2.5																		
2																		
1.6																		
1.5																		

Key available black only available pickled

These dimensions are a reflection of technical capability to produce. Supply conditions may be subject to dimensional restrictions and is subject to BlueScope Steel Sales and Marketing confirmation.

NORMAL/OPTIONAL SUPPLY CONDITIONS

	Normal	Optional [#]								
Surface finish	As-rolled	Pickled & Oiled								
Tolerance class										
Thickness	AT	-								
Width	AW	ME								
Length	-	-								
Flatness	AF	-								
Oiling	Not oiled	Oiled								
Branding	Not branded									
# Optional supply conditions may be subject to dimensional restrictions.										

FABRICATING PERFORMANCE

	Method	Rating
	Bending	3
	Drawing	2*
	Pressing	2*
	Roll-forming	4
	Welding	5
	Painting (Pretreatment)	5
	Galvanizing	5
*	Surface scale adversely affects die pe this product, pickled recommended.	rformance of
	where 1 = limited to 5 = excellent, or NR = not recommended	

Note: It is recommended that customers use product promptly to avoid the possibility of rusting during storage. Oiling improves corrosion resistance but oiled product should be used within three months.

BlueScope is a trade mark of BlueScope Steel Limted.

Please ensure you have the current data sheet for this product as displayed at www.bluescopesteel.com.au

BlueScope Steel Limited

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Hot Rolled HR **Structural** HA250 steel

Continued

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TYPICAL PROPERTY RANGES (FOR NORMAL SUPPLY PRODUCT)

Thickness								Yiel	d Str	eng	th & M		sile	Stre	ngth	1						
mm	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460
≤ 3.0																						
≤ 8.0																						

tensile strength

Key yield strength

Total Elongation Thickness (%) mm 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 ≤ 3.0 ≤ 8.0

Note: Typical mechanical properties are based on aggregation of \overline{X} and 2SD performance.

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