

Hot Rolled Formable HA1S Steel

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Revision 0, August 2009

This literature supersedes all previous issues.

GENERAL DESCRIPTION

HA1S Steel, Skinpassed, Hot-rolled low carbon steel suitable for simple forming, bending and welding operations.

TYPICAL USES

Shelving, light structural members, tanks, distributor stock.

APPLICABLE STANDARDS

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

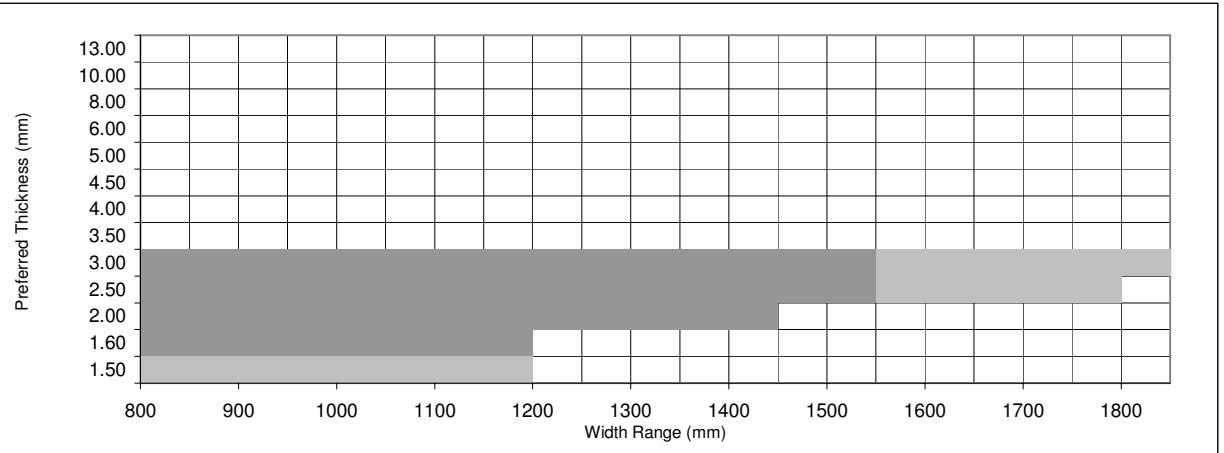
PROPERTIES OF STEEL BASE

MECHANICAL PROPERTIES	GUARANTEED
Transverse Tensile	
Yield Strength (MPa)	-
-	-
Tensile Strength (MPa)	-
Elongation %	-
<= 3.0mm, 80mm GL	-
> 3.0mm, 80mm GL	-
>3.0mm, 200mm GL	-
180° Transverse Bend (L axis)	
<= 3.0 mm	1 t
> 3.0 mm	1 t
	-

CHEMICAL PROPERTIES	GUARANTEED %	TYPICAL %
	Maximum	<1.9mm
Carbon - C	0.13	0.04-0.07
Phosphorus - P	0.04	0.01-0.02
Manganese - Mn	0.50	0.20-0.30
Silicon - Si	0.03	0.005-0.010
Sulphur - S	0.03	0.01-0.02
Aluminium Tot' - Al	0.10	0.03-0.05
Titanium - Ti	0.04	-
Nb + V	0.03	0.003-0.006
Nitrogen - N	-	0.001-0.005
Nb + V + Ti	-	-
Niobium - Nb	-	-
Vanadium - V	-	-
Boron Total - B	-	-

Note: * (Nb) - 0.010% max, (V) - 0.010% max

DIMENSIONAL CAPABILITIES



Note: Widths in the range 50 to 865mm are available by negotiation only

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 Skin-passed	Pickled & Oiled Pickled Not Oiled
Edge Condition	Mill Edge	Trimmed Edge
Tolerance Class		
- Thickness	AT	-
- Width	AW	-
- Length	AL	-
- Flatness	AF	-
Oiling	Not Oiled	Oiled
Branding	Not Branded	-

Optional supply conditions may be subject to dimensional restrictions

FABRICATING PERFORMANCE

Method	Rating
Bending	4
Drawing	3*
Pressing	3*
Roll Forming	3
Welding	5
Painting (Pretreatment)	5
Galvanizing	5

* Surface scale adversely affects performance of this product.
Pickling is recommended.

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.



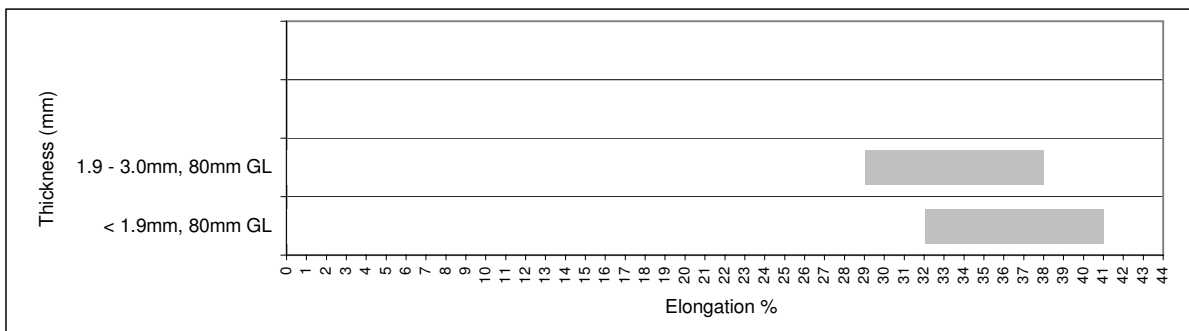
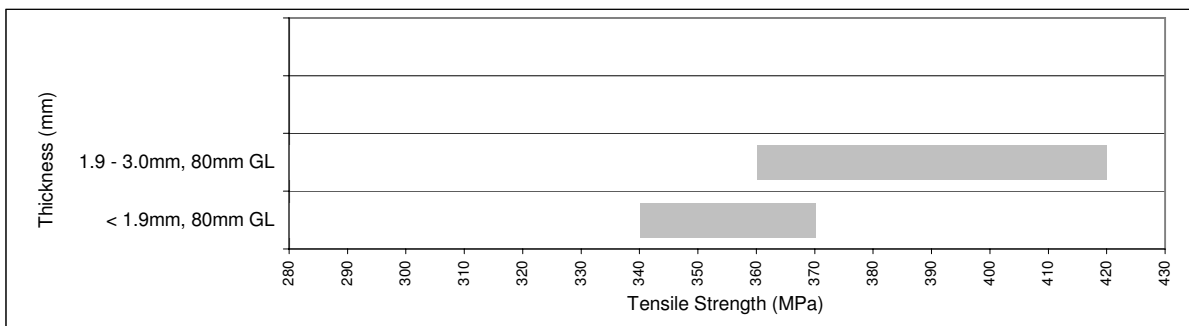
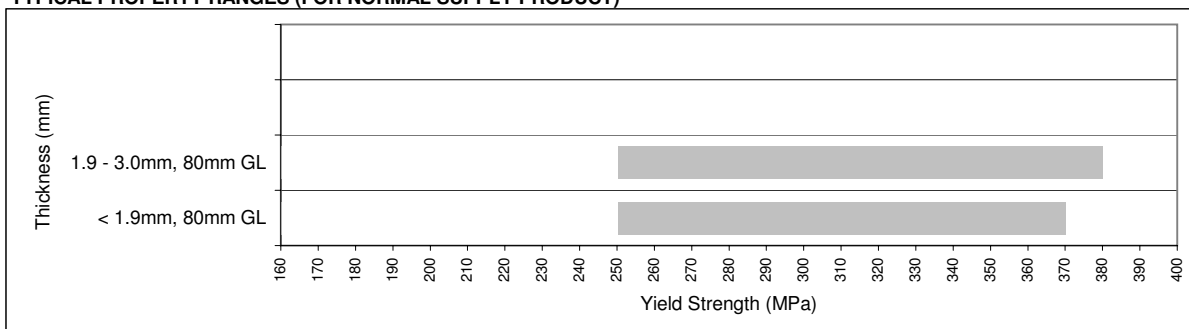
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TYPICAL PROPERTY RANGES (FOR NORMAL SUPPLY PRODUCT)



Note: Typical mechanical properties are based on aggregation of mean and 2 SD performance

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

BlueScope Steel Limited

BlueScope Steel Limited ABN 16 000 011 058

BlueScope Steel (AIS) Pty Ltd ABN 19 000 019 625

SYDNEY (02) 9319 9000 MELBOURNE (03) 9586 2222 BRISBANE (07) 3845 9300 ADELAIDE (08) 8243 7333 PERTH (08) 9365 6666

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