



Data Sheet

# HA 300

Hot-Rolled

Revision: 13/12/2021

HR

## 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 – 12.0mm	3.1 – 4.9mm	4.9 – 12.0mm
<b>CHEMICAL COMPOSITION</b>	<b>TYPICAL (wt %)</b>		<b>EXPECTED MAXIMUM (wt %)<sup>[1]</sup></b>	
Carbon (C)	0.17	0.17	0.20	0.20
Silicon (Si)	0.007	0.01	0.03	0.03
Manganese (Mn)	0.60	1.10	1.00	1.60
Sulphur (S)	0.017	0.017	0.030	0.030
Phosphorus (P)	0.016	0.014	0.040	0.040

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

	3.1 – 4.9mm	4.9 – 12.0mm	3.1 – 4.9mm	4.9 – 12.0mm
<b>MECHANICAL PROPERTIES</b>	<b>TYPICAL</b>		<b>EXPECTED MINIMUM</b>	
Yield strength, MPa	340	330	300	300
Tensile strength, MPa	480	490	400	400
Elongation, % on L <sub>0</sub> = 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.

<b>DIMENSION CAPABILITIES</b>	
<b>THICKNESS (mm)</b>	<b>WIDTH (mm)</b>
3.10 – 3.23	730 – 1000
3.24 – 3.99	730 – 1260
4.00 – 7.89	730 – 1540
7.90 – 12.00	1200 – 1540*

\*The maximum width is 1250mm for 10.01 – 12mm thickness.

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.

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

<b>STANDARD PLATE SIZES</b>
1220 x 2400
1520 x 3600

<b>AVAILABLE FORMS</b>	
<b>DRY</b>	<b>PICKLED &amp; OILED</b>
Mill edge coil	N.A
Coil-Plate	N.A

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