

Hot Rolled Plate 300

Revision 2, Nov 2010

GENERAL DESCRIPTION

Hot rolled steel plate with a nominal minimum yield strength of 300MPa with good ductility.

TYPICAL USES

Structural Applications

STANDARDS

AS/NZS 3678
AS/NZS 1365

CHEMICAL COMPOSITION (wt%)

Element	Typical	Maximum ⁽¹⁾
Carbon	0.16	0.22
Silicon	0.24	0.35 ⁽²⁾
Manganese	1.30	1.70
Sulphur	0.017	0.030
Phosphorus	0.020	0.040
Vanadium	0.016	0.030

⁽¹⁾Values shown refer to relevant Australian/New Zealand standards unless stated otherwise.

⁽²⁾Values shown refer to New Zealand Steel internal standards where AS/NZS3678 guaranteed maximum is 0.55

MECHANICAL PROPERTIES

	Thickness ≤ 12 mm		Thickness >12 – ≤ 20 mm		Thickness >20 – 32 mm	
	Typical	Minimum	Typical	Minimum	Typical	Minimum
Yield Strength, MPa	350	310	340	300	320	280
Tensile Strength, MPa	510	430	500	430	490	430
Elongation on GL=5.65√So	32	21	28	21	27	21

DIMENSIONAL CAPABILITIES

Thickness (mm)	Width (mm)
10.00 - 32.00	730 - 1540

FABRICATION PERFORMANCE

1 = Limited		5 = Excellent	
Bending		3	
Welding		4	

STANDARD PLATE SIZES

1220 x 6000
1520 x 6000

AVAILABLE FORMS

Dry	Pickled & Oiled
Mill edge plate	Not available

Other dimensional combinations may be available by enquiry.

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