

250, 250L0, 250L15

Hot-Rolled - Plate

Revision: 20/07/2016

GENERAL DESCRIPTION

Hot Rolled 250 steel is a structural steel with a nominal minimum yield strength as specified in the table below, with good ductility.

APPLICATIONS

- Structural applications

STANDARDS

- AS/NZ 3678:2016
- AS/NZS 1365:1996

	≤20.0mm	>20 (or all Charpy Grades)	≤20.0mm	>20 (or all Charpy Grades)
CHEMICAL COMPOSITION	TYPICAL (wt %)		EXPECTED MAXIMUM (wt %)^[1]	
Carbon (C)	0.18	0.12	0.22	0.22
Silicon (Si)	0.012	0.24	0.03	0.35
Manganese (Mn)	1.00	1.30	1.70	1.70
Sulphur (S)	0.017	0.017	0.030	0.030
Phosphorus (P)	0.014	0.014	0.040	0.040

^[1] Values shown refer to relevant Australian/ New Zealand standard unless stated otherwise

	10 – 12mm	12 – 20mm	20 – 52mm	10 – 12mm	12 – 20mm	20 – 52mm
MECHANICAL PROPERTIES	TYPICAL			EXPECTED MINIMUM		
Yield strength, MPa	310	300	300	260	250	250
Tensile strength, MPa	470	465	465	410	410	410
Elongation % on L ₀ =5.65mm√S ₀	32	31	31	22	22	22

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.

FABRICATING PERFORMANCE 1 = Limited 5 = Excellent	
METHOD	RATING
Bending	3
Welding	5

STANDARD PLATE SIZE	
WIDTH (mm)	LENGTH (mm)
1220 – 1250	2400 3600
1510 - 1550	6000 12000

DIMENSION CAPABILITIES	
AS/NZS 3678 - 250	
THICKNESS (mm)	WIDTH (mm)
10.00 – 52.00	730 – 1540

AS/NZS 3678 – 250L15	
THICKNESS (mm)	WIDTH (mm)
20.00 – 25.00	730 - 1540

Other dimensional combinations may be available by enquiry.

IMPACT PROPERTIES (AS/NZS 3678 L15)	
GUARANTEED MINIMUM (average 3 tests)	AT TEMPERATURE
27 Joules	- 15°C

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