



Data Sheet

HR

350, 350L0, 350L15

Hot-Rolled - Plate

Revision: 31/1/2012

GENERAL DESCRIPTION

Hot rolled structural steel with a nominal minimum yield strength as specified in the table below, with good ductility. Impact grade available if required.

APPLICATIONS

- Welded steel beams
- Structural applications

STANDARDS

- AS/NZS 3678:2011
- AS/NZS 1365:1996

CHEMICAL COMPOSITION	TYPICAL (wt %)	EXPECTED MAXIMUM (wt %) ^[1]
Carbon (C)	0.14	0.22
Silicon (Si)	0.27	0.30
Manganese (Mn)	1.45	1.70
Sulphur (S)	0.016	0.030
Phosphorus (P)	0.016	0.040
Vanadium (V)	0.075	0.10

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

MECHANICAL PROPERTIES	10 – 12mm	12 – 20mm	20 – 32mm	10 – 12mm	12 – 20mm	20 – 32mm
	TYPICAL			EXPECTED MINIMUM		
Yield strength, MPa	420	400	380	360	350	340
Tensile strength, MPa	550	504	530	450	450	450
Elongation % on L ₀ =5.65mm√S ₀	25	24	23	20	20	20

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	4

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

DIMENSION CAPABILITIES	
AS/NZS 3678 - 350	
THICKNESS (mm)	WIDTH (mm)
10.0 – 32.0	730 – 1540

AS/NZS 3678 – 350L15	
THICKNESS (mm)	WIDTH (mm)
10.0 – 32.0	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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