

**Data Sheet** 

# 350, 350L0, 350L15

## Hot-Rolled - Plate

Revision: 10/05/2022

#### **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 3678:2016
- AS/NZS 1365:1996

CHEMICAL COMPOSITION	TYPICAL (wt %)	EXPECTED MAXIMUM (wt %) <sup>[1]</sup>
Carbon (C)	0.14	0.22
Silicon (Si)	0.14	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

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

	10 – 12mm	12 – 20mm	20 – 50mm	10 – 12mm	12 – 20mm	20 – 25mm	25 – 50mm
MECHANICAL PROPERTIES	TYPICAL		EXPECTED MINIMUM				
Yield strength, MPa	420	400	380	360	350	340	340
Tensile strength, MPa	550	540	530	450	450	450	450
Elongation % on L₀=5.65mm√So	25	24	23	20	20	20	18*

<sup>\*</sup>For test piece cross-sectional area >1000mm², minimum elongation is reduced by 2% from AS/NZS3678 value.

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		
THICKNESS (mm)	WIDTH (mm)	
10.0 – 50.0	730 - 1540	

Other dimensional combinations may be available by enquiry and there is minimum order quantity for any dimension outside of standard plate sizes.

IMPACT PROPERTIES (AS/NZS 3678 L0 L15)		
GUARANTEED MINIMUM (average 3 tests)	AT TEMPERATURE	
27 Joules	0°C , - 15°C	

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