

Data Sheet

MEDIUM STRENGTH PLATE G350

NZ STANDARD

- AS/NZS3678:350

INTERNATIONAL STANDARDS

- JIS G3106– SS490
- ASTM A572-345
- ISO 630-E355B
- EN 10025-2-S355JR

PRODUCT DESCRIPTION

A high strength structural steel product with nominal yield strength of 350MPa.

SUPPLY CONDITIONS

- Thickness Range 5mm—100mm
- Tolerances AS1365 or equivalent
- Ultrasonic Inspection AS1710 available on request

TYPICAL USES

- General fabrication
- Structural members
- High-rise buildings
- Bridges
- Storage tanks

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CHEMICAL COMPOSITION					
Element	Guaranteed Maximum	Typical %/ Thickness (mm)			
		5 ≤ t	5 ≤ t < 8	8 ≤ t < 25	25 ≤ t < 80
Carbon	0.22	0.155	0.14	0.15	0.09
Silicon	0.55	0.15	0.20	0.30	0.35
Manganese	1.70	0.65	1.10	1.20	1.50
Phosphorus	0.040	0.020	0.020	0.020	0.020
Sulphur	0.030	0.010	0.010	0.010	0.010
Aluminium	0.100	0.030	0.035	0.025	0.035
Titanium	0.040	-	0.018	0.018	0.018
CEQ (IIW)	0.48	0.27	0.33	0.36	0.35

MECHANICAL PROPERTIES						
Typical Properties (Transverse)		Thickness Range (mm)				
		5 ≤ t	8 < t ≤ 12	12 < t ≤ 20	20 < t ≤ 25	25 < t ≤ 80
Guaranteed Min.	Yield Strength (MPa)	360	360	350	340	340
	Tensile Strength (MPa)	450	450	450	450	450
Typical	Yield Strength (MPa)	410-540	380-440	360-420	350-440	350-420
	Tensile Strength (MPa)	480-590	470-550	470-560	470-550	460-530

WELDABILITY					
		Typical Group/ Thickness (mm)			
		5 ≤ t	5 ≤ t < 8	8 ≤ t < 25	25 < t ≤ 80
Group 5	5	1	2	3	3

FORMABILITY (recommended min inside radii)		
t ≤ 20mm	Long 3.0T	Trans 2.0T
20mm < t ≤ 25mm	Long 3.75T	Trans 2.5T
t > 25mm	Hot form	

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