

Data Sheet

MILD STEEL PLATE G300

NZ STANDARD

- AS/NZS 3678:300

INTERNATIONAL STANDARDS

- JIS G3101 - SS400
- JIS G3101 - SS400A
- ASTM A36
- REN 10025-2-S275JR

PRODUCT DESCRIPTION

A medium strength structural steel product with nominal yield strength of 300MPa.

SUPPLY CONDITIONS

- Thickness Range 8mm—120mm
- Tolerances AS1365 or equivalent
- Ultrasonic Inspection AS1710 available on request.
- Flatness Class A

TYPICAL USES

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

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CHEMICAL COMPOSITION

Element	Guaranteed Maximum	Typical %/ Thickness (mm)			
		8 < t < 40	40 < t < 50	50 < t < 80	80 < t < 120
Carbon	0.22	0.14	0.15	0.13	0.13
Silicon	0.55	0.60	0.30	0.45	0.55
Manganese	1.70	6.10	1.20	6.50	1.50
Phosphorus	0.040	0.020	0.020	0.020	0.020
Sulphur	0.030	0.010	0.010	0.003	0.003
Aluminium	0.100	0.025	0.025	0.035	0.035
Titanium	0.040	0.018	0.018	0.018	0.018
CEQ (IIW)	0.44	0.33	0.36	0.41	0.41

MECHANICAL PROPERTIES

Typical Properties (Transverse)		Thickness Range (mm)				
		8 < t < 12	12 < t < 20	20 < t < 50	50 < t < 80	80 < t < 120
Guaranteed Min.	Yield Strength (MPa)	310	300	280	270	260
	Tensile Strength (MPa)	430	430	430	430	430
Typical	Yield Strength (MPa)	330-450	230-460	290-410	320-430	320-410
	Tensile Strength (MPa)	450-540	460-530	440-520	510-560	510-561

WELDABILITY

		Typical Group/ Thickness (mm)		
		8 < t < 40	40 < t < 80	50 < t < 150
Group 4	4	2	3	3

FORMABILITY (recommended min inside radii)

6mm < t < 10mm	Long 2.25T	Trans 1.5T
10mm < t < 20mm	Long 3.0T	Trans 2.0T
20mm < t < 50mm	Long 6.0T	Trans 4.0T
t > 50mm	Hot form	

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