

Data Sheet

MILD STEEL PLATE G250

NZ STANDARD

- AS/NZS 3678:250

INTERNATIONAL STANDARDS

- JIS G3101 - SS400
- JIS G3101 - SS400A
- ASTM A36
- REN 10025-2-S235JR

PRODUCT DESCRIPTION

A medium strength structural steel product with nominal yield strength of 250MPa.

SUPPLY CONDITIONS

- Thickness Range 5mm—200mm
- 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)			
		5 < t < 32	32 < t < 50	50 < t < 115	115 < t < 150
Carbon	0.22	0.155	0.14	0.15	0.16
Silicon	0.55	0.15	0.20	0.30	0.35
Manganese	1.70	0.65	1.10	1.20	1.35
Phosphorus	0.040	0.020	0.020	0.020	0.020
Sulphur	0.030	0.010	0.010	0.010	0.003
Aluminium	0.100	0.025	0.035	0.025	0.035
Titanium	0.040	-	0.018	0.018	0.018
CEQ (IIW)	0.43	0.27	0.32	0.36	0.35

MECHANICAL PROPERTIES

Typical Properties (Transverse)		Thickness Range (mm)					
		5<t<8.0	8<t<12	12<t<50	50<t<80	80<t<115	115<t<150
Guaranteed Min.	Yield Strength (MPa)	280	280	250	240	230	230
	Tensile Strength (MPa)	410	410	410	410	410	410
Typical	Yield Strength (MPa)	290-480	280-400	280-370	240-320	230-310	230-310
	Tensile Strength (MPa)	420-540	420-500	420-500	430-490	430-480	430-480

WELDABILITY

		Typical Group/ Thickness (mm)		
		5 < t < 32	32 < t < 50	50 < t < 150
Group 4	4	1	2	3

FORMABILITY (recommended min inside radii)

t < 6mm	Long 1.5T	Trans 1.0T
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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