

Data Sheet

MILD STEEL LIGHT PLATE G250

NZ STANDARD

- AS/NZS 1594:2002
- AS/NZS 1365:1996

INTERNATIONAL STANDARDS

- JISG 3101- SS400
- ASTM A 1011 SS Grade 40
- EN 10025-2-S235JR
- DIN 17100 St44-2

PRODUCT DESCRIPTION

- Hot rolled structural product with yield strength of 250MPa, good ductility and good weldability.

SUPPLY CONDITIONS

- Thickness Range 1.6mm—12mm
- Tolerances AS1365 or equivalent
- Flatness Class A

TYPICAL USES

- Structural members
- Roll forming applications
- Press brake forming applications
- General fabrication

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CHEMICAL COMPOSITION

Element	Guaranteed Maximum	Typical %/ Thickness (mm)		
		$2 \leq t < 2.5$	$2.5 \leq t < 6.0$	$6.0 \leq t < 12.0$
Carbon	0.20	0.15	0.075	0.170
Silicon	0.03	0.007	0.008	0.008
Manganese	1.20	0.60	0.60	0.60
Phosphorus	0.040	0.014	0.016	0.016
Sulphur	0.030	0.018	0.018	0.018

MECHANICAL PROPERTIES

Typical Properties (Transverse)		Thickness Range (mm)		
		$2 < t \leq 3.0$	$3.0 < t \leq 6.0$	$6.0 < t \leq 12$
Guaranteed Min.	Yield Strength (MPa)	250	250	250
	Tensile Strength (MPa)	350	350	350
Typical	Yield Strength (MPa)	280	300	290
	Tensile Strength (MPa)	390	410	450

FABRICATING PERFORMANCE

1 = Limited 5 = Excellent

METHOD	RATING
Drawing	2
Pressing	3
Bending	4
Roll forming	4
Welding	5

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