

Data Sheet

MEDIUM STRENGTH PLATE G350 L15

NZ STANDARD

- AS/NZS3678:350 L15

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.
Charpy Impact tested at minus 15 deg celsius

SUPPLY CONDITIONS

- Thickness Range 6mm—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)			
		$5 \leq t$	$5 < t < 8$	$8 \leq t < 25$	$25 \leq t < 80$
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)				
		$5 \leq t$	$8 < t \leq 12$	$12 < t \leq 20$	$20 < t \leq 25$	$25 < t \leq 80$
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)			
		$5 \leq t$	$5 < t < 8$	$8 \leq t < 25$	$25 < t \leq 80$
Group 4	5	1	2	3	3

MINIMUM ABSORBED ENERGY

10 X 10 test piece		
Test temperature	Average of 3 test	Individuals test
-15	27 j	20 j

FORMABILITY (recommended min inside radii)

$t \leq 20\text{mm}$	Long 3.0T	Trans 2.0T
$20\text{mm} < t \leq 25\text{mm}$	Long 3.75T	Trans 2.5T
$t > 25\text{mm}$	Hot form	

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