

Data Sheet

WEATHER RESISTANT PLATE

NZ STANDARD

- AS/NZS1594:HW350

INTERNATIONAL STANDARDS

- JISG 3125-SPA-H
- ASTM A242 Type 1
- CORTEN A
- EN 10025-5-S355JOWP

PRODUCT DESCRIPTION

- Hot rolled structural steel product with minimum yield strength of 340MPa, good ductility and good weldability.
- Addition of Copper as one of the key elements offers improved weather resistance.

SUPPLY CONDITIONS

- Thickness Range 3mm - 8mm
- Tolerances AS1365 or equivalent
- Flatness Class A

TYPICAL USES

- Railway rolling stock and storage hoppers/ bins
- Transport trailer decks
- Shipping containers
- Architectural features

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CHEMICAL COMPOSITION

Element	Maximum- Values differ depending on mill	Typical %/ Thickness (mm)
		3 < t < 8
Carbon	0.15 max	0.09
Silicon	0.15—0.75	0.45
Manganese	1.60 max	0.80
Phosphorus	0.055—0.180	0.090
Sulphur	0.030 max	0.010
Aluminium	0.10 max	0.030
Nickel	0.55 max	0.20
Chromium	0.35—1.05	0.70
Copper	0.15—0.50	0.25
CEQ (IIW)	0.48 max	0.39

MECHANICAL PROPERTIES

Typical Properties (Transverse)		Thickness Range (mm)
		3mm—8mm
Guaranteed Min.	Yield Strength (MPa)	340
	Tensile Strength (MPa)	450
Typical	Yield Strength (MPa)	380-450
	Tensile Strength (MPa)	530-580

FABRICATING PERFORMANCE

Bending	Good
Welding	WTIA Group 5

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