

## 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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# WEATHER RESISTANT PLATE

CHEMICAL COMPOSITION		
Element	Guaranteed Maximum	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 (Longitudinal)		Typical
		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