

## Cold Rolled - CR

## Structural - S

### GENERAL DESCRIPTION

CW300-G is a cold rolled and temper rolled, weathering and structural steel with minimum guaranteed yield strength of 300 MPa, suitable for general fabrication.

### AUSTRALIAN STANDARDS

AS/NZS 1595: 1998

AS/NZS 1365: 1996

### TYPICAL USES

- Power station heat exchangers
- Architectural panels
- Truck bodies
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### FEATURES & BENEFITS

- Enhanced weather resistance
- Guaranteed mechanical properties

### WARNINGS

- This material should be used in conjunction with the appropriate design and welding standards.
- An untrimmed (Mill) edge may contain minor surface discontinuities as a result of the rolling process. It is recommended that customers satisfy themselves that the edge is suitable for the application.
- Weathering steels are not recommended without further protection for buried or submerged situations or for applications exposed to concentrated industrial fumes or severe marine environments.
- Refer to BlueScope Steel's Technical Bulletin No. 26 for more information regarding the use of this material.

### NORMAL / OPTIONAL SUPPLY CONDITIONS

	Normal	Optional
Thickness Range	1.0 – 2.0 mm	
Width Range*	1150 – 1230 mm	
Surface Finish	Cold Rolled and Temper Rolled	
Edge Condition	Untrimmed (Mill Edge)	Trimmed
Tolerances	AS/NZS 1365: 1996	
Flatness	Class A	
Certification	BlueScope Steel – Analysis and Mechanical tests	

Optional supply conditions may be subject to dimensional restrictions.

\*Not all width/thickness combinations available, please discuss with Customer Services.

Australia 1800 800 789

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**Cold Rolled - CR****Structural - S****CHEMICAL COMPOSITION**

Element	Guaranteed Maximum %	Typical %
		1.0 – 2.0 mm
Carbon	0.15	0.09 – 0.10
Silicon	0.15 – 0.75	0.30-0.50
Manganese	1.6	0.70-0.90
Phosphorus	0.055 – 0.160	0.08 – 0.10
Sulfur	0.04	0.008 - 0.015
Aluminium	0.10	0.025 - 0.050

All values shown refer to the relevant Australian Standard unless otherwise stated.

**MECHANICAL PROPERTIES**

Tensile Properties (Longitudinal)	Guaranteed Minimum	Typical %
		1.0 – 2.0 mm
Yield Strength (MPa)	300	310-345
Tensile Strength (MPa)	450	490 - 530
Elong. (%) on 80mm	20	23 - 28
180° Bend (Longitudinal axis)	2t	

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