



REDCOR®

weathering steel

AS/NZS 1595 – CW300A

General description

CW300A is a high phosphorous structural weathering steel with a minimum yield strength of 300MPa.

Typical uses

- Building facade
- Architectural features
- Heat exchanger elements

Features & benefits

- Reduced atmospheric corrosion when used in the correct environments
- Guaranteed minimum strength levels
- Good formability

Warnings

- This material should be used in conjunction with the appropriate structural design and welding standards
- The weathering properties of this material is due to the formation of an impervious oxide layer through the use of alloy additions. Damage to this

layer, or environmental conditions affecting the development of this layer, will impact on the effectiveness of the corrosion resistance.

- Colour retention across welds can be achieved by appropriate electrode selection. Welds may be susceptible to hot cracking
- Weathering steels are not recommended without further protection for buried or submerged situations or for applications exposed to concentrated industrial fumes or severe marine conditions
- Oxide staining of surrounding areas may occur due to run-off from this material
- Refer to BlueScope Technical Bulletin No. 26 for more information regarding the use of this material

Australian and International standards

AS/NZS 1595:1998 (R2016)

AS/NZS 1365:1996 (R2016)

ISO 9001:2015 Quality System certified

Supply conditions

	Normal
Thickness Range	0.7 – 2.5 mm
Width Range	1155 – 1250 mm
Surface Finish	Cold Rolled, Matte Finish, Light Oil or Un-Oiled
Edge Condition	Untrimmed (Mill Edge) / Trimmed Edge
Flatness	Class A (Sheet and Plate)
Certification	BlueScope

Chemical composition

Element	Guaranteed %
Carbon	0.15 max
Silicon	0.15 – 0.75
Manganese	1.60 max
Phosphorus	0.055 - 0.16
Sulfur	0.04 max
Chromium	0.35 - 1.05
Nickel	0.55 max
Copper	0.15 - 0.50

Mechanical properties

Tensile Properties (Transverse)		Thickness (mm)
		0.7 ≤ t ≤ 2.5
Yield Strength (MPa)	Guaranteed Min	300
Tensile Strength (MPa)	Guaranteed Min	450
Elong. On 80mm (%)	Guaranteed Min	20

Fire hazard properties

Test & Evaluation Method	Result
Combustibility test for materials (AS 1530.1-1994 (R2016))	Not deemed combustible

RedCor®

steel.com.au/redcor

To learn more about this product

1800 024 402

steeldirect@bluescopesteel.com

For more information contact Steel Direct



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