

Cold Rolled CR Structural S CA250T-G steel

Revision 3, November 2003

This literature supersedes all previous issues

GENERAL DESCRIPTION

CA250T-G cold rolled and temper-rolled structural steel with a guaranteed minimum yield strength of 250MPa suitable for general fabrication and welding.

TYPICAL USES

Guard rails, structural sections.

AUSTRALIAN STANDARD

AS/NZS 1365

GUARANTEED PROPERTIES OF STEEL BASE

MECHANICAL PROPERTIES	GUARANTEED %	TYPICAL* (Basis: 1.0 mm thick)
Longitudinal tensile		
Yield strength, MPa	250 min	250 - 350
Tensile strength, MPa	–	370 - 440
Elong on 80 mm, %	25 min	30 - 36
Hardness, HRB	75 max	60 - 75
180° transverse bend (L axis)	2t	1t

* Typical mechanical properties are based on aggregation of \bar{X} and 2SD performance.

CHEMICAL PROPERTIES	GUARANTEED MAXIMUM %	TYPICAL %
Carbon (C)	0.20	0.14 - 0.16
Phosphorus (P)	0.04	0.01 - 0.02
Manganese (Mn)	0.90	0.70 - 0.80
Silicon (Si)	0.04	0.005 - 0.010
Sulphur (S)	0.04	0.007 - 0.020
Aluminium (Al)	0.10	0.02 - 0.06

DIMENSIONAL CAPABILITIES

Preferred thickness mm	Width range mm Strip	Sheet length mm Sheet
0.7, 0.8, 0.9, 1.0, 1.2, 1.5, 1.6, 1.7, 1.8, 1.9	900 - 1550	–
2.0, 2.2, 2.5, 2.8, 3.0	900 - 1550	–

NOTE: Where maximum widths are less than 1200 mm, any width between half maximum and 610 mm is available by negotiation only. Availability applies only to product supplied direct from Western Port and may change if supplied from BlueScope Steel Service Centres.

Slitting and shearing available on request from BlueScope Steel sales offices.

These dimensions are a reflection of technical capability to produce. Supply conditions may be subject to dimensional restrictions and is subject to BlueScope Steel Sales and Marketing confirmation.

NORMAL/OPTIONAL SUPPLY CONDITIONS

	Normal	Optional [#]
Surface finish	Matt	–
Tolerance class		
Thickness	AT	BT
Width	AW	BW, ME
Length AL	AL	BL
Flatness	AF	–
Oiling	Oiled	Not Oiled
Branding	Not Branded	–

[#]Optional supply conditions may be subject to dimensional restrictions.

FABRICATING PERFORMANCE

Method	Rating
Bending	4
Drawing	2
Pressing	2
Roll-forming	5
Welding	5
Painting (pretreatment)	5

where 1 = limited to 5 = excellent, or NR = not recommended

Note: It is recommended that customers use product promptly to avoid the possibility of rusting during storage. Oiling improves corrosion resistance but oiled product should be used within three months.

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Please ensure you have the current data sheet for this product as displayed at www.bluescopesteel.com.au

BlueScope Steel Limited

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