

# Cold Rolled CR Carbon C CA1010H-E steel

Revision 6, November 2003

This literature supersedes all previous issues

## GENERAL DESCRIPTION

CA1010H-E cold rolled steel, supplied in the as rolled full-hard condition with a double sided exposed surface standard.

## TYPICAL USES

Bearings, hardened washers, & bushes.

## AUSTRALIAN STANDARD

AS/NZS 1365

## GUARANTEED PROPERTIES OF STEEL BASE

MECHANICAL PROPERTIES	GUARANTEED %
Transverse tensile	
Yield strength, MPa	–
Tensile strength, MPa	–
Elong on 80 mm, %	–
Hardness, HRB	–
180° transverse bend (L axis)	2t

CHEMICAL PROPERTIES	GUARANTEED MAXIMUM %	TYPICAL %
Carbon (C)	0.08 - 0.13	0.08 - 0.13
Silicon (Si)	0.03 max	0.005 - 0.010
Manganese (Mn)	0.30 - 0.60	0.35 - 0.50
Phosphorus (P)	0.03 max	0.01 - 0.02
Sulphur (S)	0.02 max	0.010 - 0.015
Aluminium (Al)	0.01 - 0.08	0.02 - 0.05
Titanium (Ti)	–	–
Nitrogen (N)	–	0.001 - 0.004

## DIMENSIONAL CAPABILITIES

Preferred thickness mm	Width range mm		Sheet length mm
	Strip	Sheet	
0.70	910 - 960	–	–
0.80, 1.1, 1.2	910 - 960	–	–
1.3, 1.4, 1.5, 1.6, 1.7, 1.8	910 - 960	–	–
1.9, 2.0, 2.2, 2.5, 2.8, 3.0, 3.2	910 - 960	–	–

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 <sup>#</sup>
Surface finish	As cold-rolled	–
Tolerance class		
Thickness	AT	–
Width	AW	–
Flatness	AF	–
Oiling	Oiled	Not Oiled
Branding	Not Branded	–
Edge Condition	Mill Edge	Trimmed Edge

<sup>#</sup>Optional supply conditions may be subject to dimensional restrictions.

## FABRICATING PERFORMANCE

Method	Rating
Bending	1
Drawing	NR
Pressing	NR
Roll-forming	NR
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.

BlueScope is a trade mark of BlueScope Steel Limited.

Please ensure you have the current data sheet for this product as displayed at [www.bluescopesteel.com.au](http://www.bluescopesteel.com.au)

## BlueScope Steel Limited

BlueScope Steel Limited ABN 16 000 011 058  
BlueScope Steel (AIS) Pty Ltd ABN 19 000 019 625

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Produced by Artimprint (02) 9984 8586



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**CR  
C**

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## TYPICAL PROPERTY RANGES (FOR NORMAL SUPPLY PRODUCT)

Thickness mm	Tensile Strength MPa																									
	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	
0.70 - 1.99																										
2.00 - 3.20																										

Thickness mm	Total Elongation (%)				
	1	2	3	4	5
0.70 - 1.99					
2.00 - 3.20					

Note: Typical properties from 80mm gauge length test piece in the transverse direction.

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