

Cold Rolled Hardness CA85T-G steel

CR H

Revision 7, November 2003

This literature supersedes all previous issues

GENERAL DESCRIPTION

CA85T-G cold rolled steel with a guaranteed minimum hardness of 85 HRB suitable for flat blanking.

TYPICAL USES

Seals, washers, brackets, hinges.

AUSTRALIAN STANDARD

AS/NZS 1595

GUARANTEED PROPERTIES OF STEEL BASE

MECHANICAL PROPERTIES	GUARANTEED %	TYPICAL* (Basis: 1.0 mm thick)
Transverse tensile		
Yield strength, MPa	–	–
Tensile strength, MPa	–	750 - 890
Elong on 80 mm, %	–	1 - 4
Hardness, HRB	85 min	90 - 98
HR30T	73 min	79 - 83

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

CHEMICAL PROPERTIES	GUARANTEED MAXIMUM %	TYPICAL %
Carbon (C)	0.15	0.04 - 0.07
Phosphorus (P)	0.04	0.005 - 0.020
Manganese (Mn)	0.60	0.18 - 0.23
Sulphur (S)	0.04	0.01 - 0.02
Silicon (Si)	–	0.005 - 0.010
Aluminium (Al)	–	0.03 - 0.05
Nitrogen (N)	–	0.001 - 0.005

DIMENSIONAL CAPABILITIES

Preferred thickness mm	Width range mm		Sheet length mm
	Strip	Sheet	
0.40	890 - 1300	610 - 1300	762 - 4570
0.45	890 - 1500	610 - 1500	762 - 4570
0.50	890 - 1550	610 - 1550	1085 - 4870
0.70	890 - 1750	610 - 1750	1085 - 4870
0.80, 0.90, 1.0, 1.1, 1.2	890 - 1825	610 - 1825	1085 - 4870
1.6, 2.0, 2.5	890 - 1825	610 - 1825	1085 - 4870
3.0	890 - 1650	610 - 1650	1085 - 4870
3.2	890 - 1575	610 - 1575	1085 - 4870

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	As cold-rolled	–
Tolerance class		
Thickness	AT	–
Width	AW	BW
Length	AL	BL
Flatness	AF	–
Oiling	Oiled	Not Oiled
Branding	Not Branded	–
Edge Condition	Mill Edge	Trimmed Edge

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

FABRICATING PERFORMANCE

Method	Rating
Bending	1
Drawing	NR
Pressing	NR
Roll-forming	1
Welding (design must allow for some strength reduction near welds)	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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