

# Cold Rolled Structural CM350-G® Steel

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Revision 5, July 2008.  
This literature supersedes all previous issues.

<p><b>GENERAL DESCRIPTION</b></p> <p>CM350-G® - cold rolled, high strength, low alloy steel combining high yield strength (guaranteed 350 MPa minimum) with good formability.</p>
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<p><b>TYPICAL USES</b></p> <p>Automotive components, seat parts, tubing.</p>
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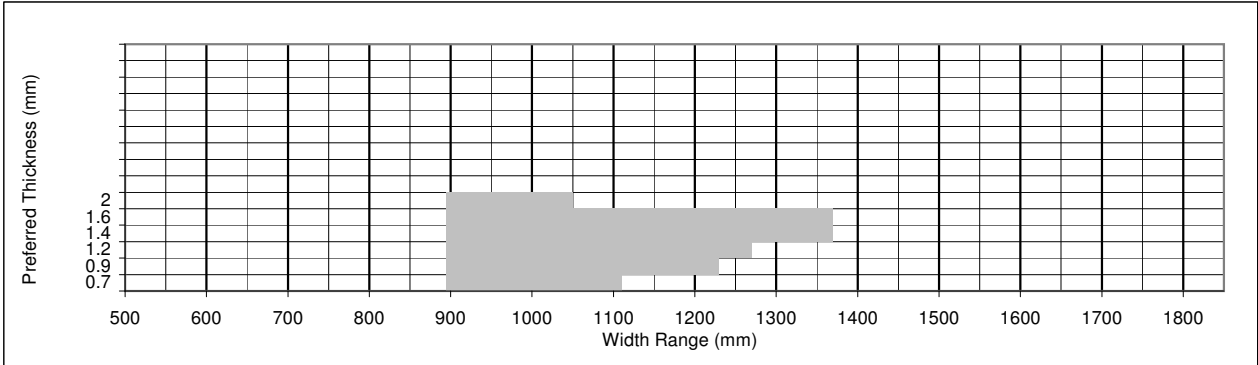
<p><b>APPLICABLE STANDARDS</b></p> <p>N/A</p>
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**GUARANTEED PROPERTIES OF STEEL BASE**

MECHANICAL PROPERTIES	GUARANTEED
Longitudinal Tensile Yield Point, MPa All	350 min
Tensile Strength, MPa	430 min
Elongation 80mm, % >= 0.7 mm	22 min
Hardness, HRB	-
HR30T	-
180° transverse bend (L axis)	0 t
Uniform Elongation %	-
Plastic Strain Ratio	r0 r90 r45 r bar

CHEMICAL PROPERTIES	GUARANTEED %	TYPICAL %
	Maximum	
Carbon - C	0.11	0.07-0.09
Phosphorus - P	0.025	0.007-0.015
Manganese - Mn	1.60	0.75-0.85
Silicon - Si	-	0.005-0.010
Sulphur - S	0.015	0.002-0.008
Aluminium - Al	-	0.02-0.05
Titanium - Ti	-	0.017-0.027
Nitrogen - N	-	0.002-0.005
Niobium - Nb	-	0.02-0.03

**DIMENSIONAL CAPABILITIES**



**Note:** Where maximum widths are less than 1200mm, any width between half maximum and 610mm 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	-
Edge Condition	Mill Edge	Trimmed Edge
Tolerance Class		
Thickness	AT	BT
Width	AW	BW
Flatness	AF	BF(Sheet only)
Oiling	Oiled	Not Oiled
Branding	Not Branded	-

FABRICATING PERFORMANCE	
Method	Rating
Bending	5
Drawing	3
Pressing	3
Roll Forming	5
Painting (Pre-treatment)	5
Welding	5

Note: - Welding design must allow for some strength reduction near welds.

Where: 1 = Limited to 5 = Excellent or NR = Not Recommended

# Optional supply conditions may be subject to dimensional restrictions

**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.



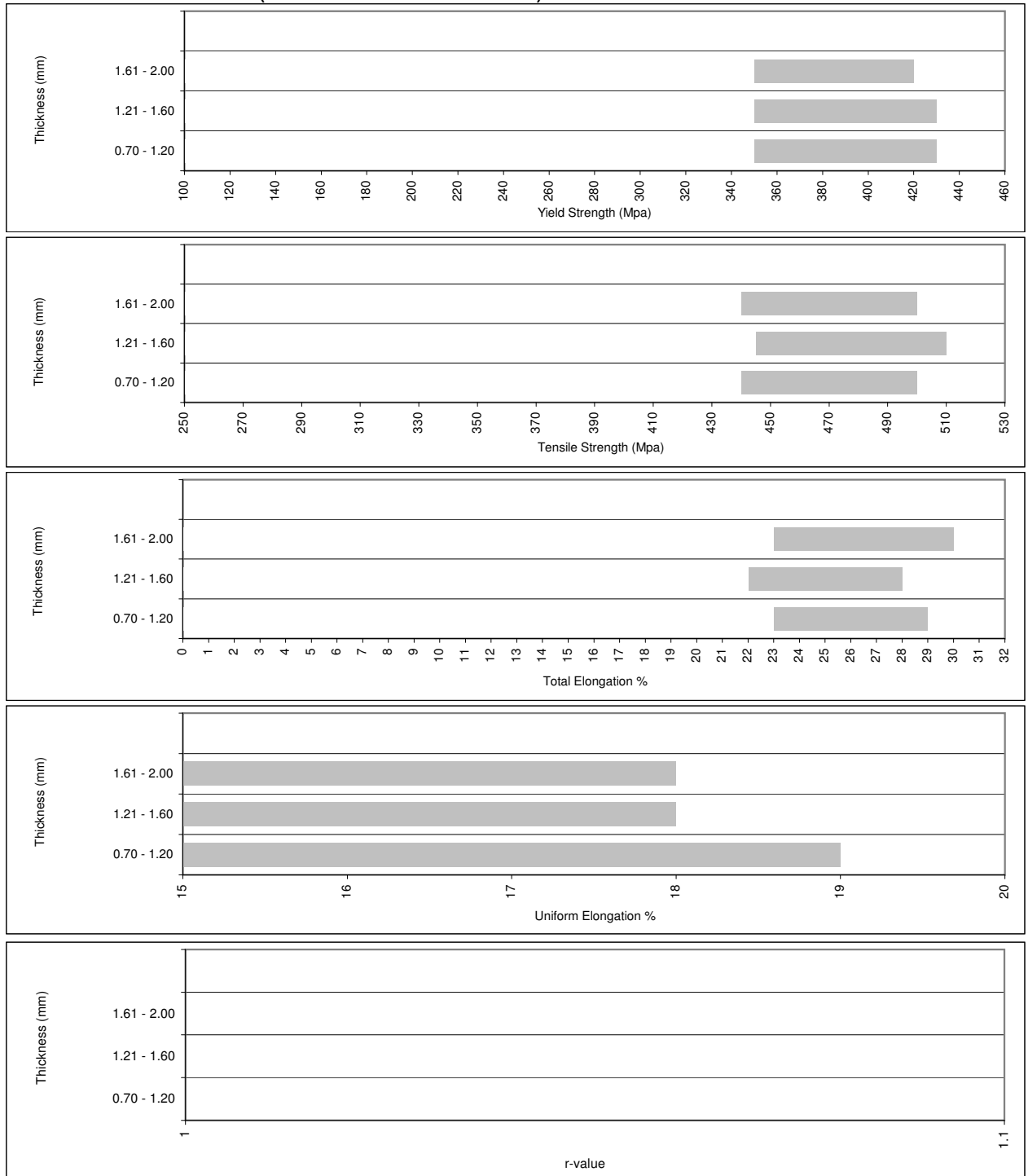
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## TYPICAL PROPERTY RANGES (FOR NORMAL SUPPLY PRODUCT)



**Note:** Typical mechanical properties are based on aggregation of mean and 2 SD performance. Longitudinal Tensile on 80mm gauge length tensile test piece in accordance with AS/NZS 1391:2005

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

### BlueScope Steel Limited

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