

# Coated Steel – Prepainted Data Sheet



July 2019. This literature supersedes all previous issues

## Interior Furniture & Shelving prepainted steel

### General description

Interior Furniture & Shelving prepainted steel has been specifically designed by BlueScope for interior manufactured articles requiring good formability at moderate cost.

### Typical uses

Indoor furniture, office equipment, shelving. For material selection advice, please contact Steel Direct.

### Australian and International standards

Substrate - AS 1397:2011  
ISO 9001:2015 Quality System certified

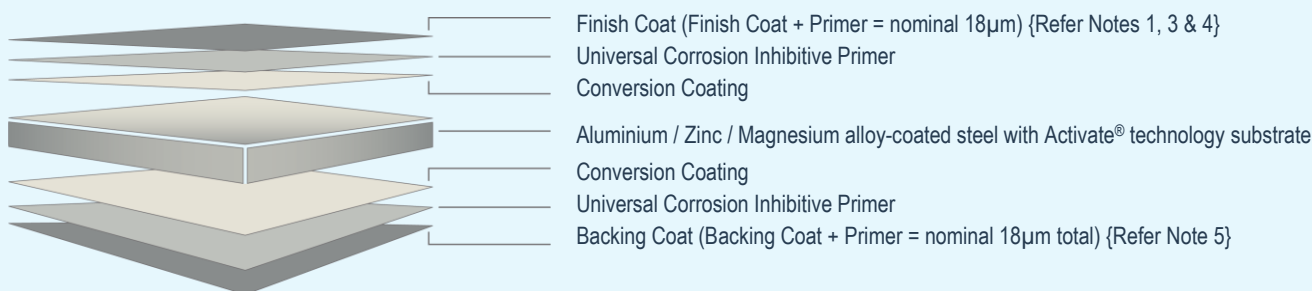
### Preferred substrates

AM100 G300S steel with Activate® technology {Refer Note 7}

For substrate properties please refer to the relevant Metallic (AM) Coated steel datasheet or AS 1397:2011.

Please refer to current price list or BlueScope State Sales Office for availability of colours and dimensions.

CORSTRIP® protective film may be available on request {Refer Note 2}



### Attributes tested during manufacture

Property	Test & Evaluation Method(s)	Results
<b>Adhesion</b>		
Reverse Impact	AS/NZS 2728:2013 (App. E)	≥10 joules
T-bend	AS/NZS 2728:2013 (App. F)	Maximum 6T. Refer Note 6.
<b>Hardness</b>		
Pencil	AS 1580.405.1:1996	HB or harder
<b>Specular gloss</b>		
60° meter	AS/NZS 1580 602.2:1995; ASTM D523-14 (2018) (test & eval)	Nominal ± 10 units

Product Attributes

Property	Test & Evaluation Method(s)	Results
<b>Flexibility</b>		
T-bend	ASTM D4145-10 (2018)	Maximum 10T (no cracking). Refer Note 6.
<b>Resistance to abrasion</b>		
Scratch	AS 2331.4.7-2006 (test & eval)	Typically 2000g
<b>Resistance to humidity</b>		
Cleveland (500 hours)	ASTM D4585/D4585-18; AS/NZS 1580.481.1.9:1998 (Blisters); AS/NZS 1580.408.4-2004 (Adhesion)	Blister density: $\leq 3$ . Blister size: $\leq S2$ . No loss of adhesion or corrosion. (Hot-dipped metallic coated substrates only).
<b>Resistance to solvents, acids, alkalis</b>		
Exposure	ASTM D1308-02 (2013) (3.1.1); ASTM D2244-16 (Colour); AS/NZS 1580.481.1.9:1998 (Blisters)	No discolouration or blistering. Refer Notes 8 & 9.
<b>Fire hazard properties</b>		
Simultaneous determination of ignitability, flame propagation, heat release and smoke release (AS/NZS 1530.3:1999)	Ignitability index (0 – 20)	0
	Spread of flame index (0 – 10)	0
	Heat evolved index (0 – 10)	0
	Smoke developed index (0 – 10)	2
NCC non-combustible material concessions (NCC 2019; AS/NZS 1530.3:1999)	National Construction Code, Building Code of Australia 2019; Volume 1 Part C1.9.e, and Volume 2: Part 3.7.1.1.e	May be used wherever a non-combustible material is required
	AS/NZS 1530.3:1999	
Combustibility test for materials (steel substrate) (AS 1530.1-1994)	AS 1530.1-1994	Not deemed combustible (steel substrate)
<b>Resistance to heat</b>		
Exposure 100°C continuous (500 hrs)	ASTM D2244-16 (Colour)	Colour change: $\Delta E$ CIElab 2000: =3 units.

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## Important notes

1. Interior Furniture & Shelving finishes are available in a limited number of colours by request.
2. The CORSTRIP® protective film should be removed from the painted steel strip immediately on installation. Sunlight can increase adhesion of the protective film to the painted surface if left uncovered outside.
3. Finish Coat - the coating applied to the exposed surface of the prepainted coil which is expected to meet the Performance Requirements.
4. A range of Finish Coat gloss levels between 10 and 80 units (60°) may be available.
5. The finish coat is applied to both sides as standard, to provide a 'double sided' product in existing gloss ranges.
6. The minimum internal bend diameters for forming processes to achieve no paint cracking (visible using x10 magnification) and to avoid paint adhesion issues are specified by the T-bend flexibility and T-bend adhesion results respectively- where 1T equals the total coated thickness (tct) in mm of the material. These results are based on testing at 20-25°C.
7. For most products, the metallurgical ageing process which is inherent in the paint stoving cycle will result in some loss of ductility compared with unpainted product. However, minimum strength levels designated by relevant standards will still be applicable.
8. Improper storage or use of non-approved roll-forming lubricants may cause brand transfer and paint blushing, and may adversely affect colour and long term durability. Product in coil or sheet pack form must be kept dry. If the coil or sheet pack becomes wet, it must be separated and dried (refer AS/NZS 2728:2013 Appendix L, and also Technical Bulletin TB7). Contact Steel Direct to obtain advice on appropriate rollforming lubricants.
9. Interior Furniture & Shelving Prepainted steel has good resistance to accidental spillage of solvents such as methylated spirits, white spirit, mineral turpentine, toluene, trichloroethylene and dilute mineral acids and alkalis. However, all spillages should be immediately removed by water washing and drying.

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For more information contact Steel Direct

