

Interior Furniture & Shelving Pre-Painted steel

Revision 11 December 2013

This literature supersedes all previous issues



Prepainted - PP

GENERAL DESCRIPTION

Interior Furniture & Shelving pre-painted steel has been specifically designed by BlueScope Steel Limited for interior manufactured articles having good formability at moderate cost.

TYPICAL USES

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

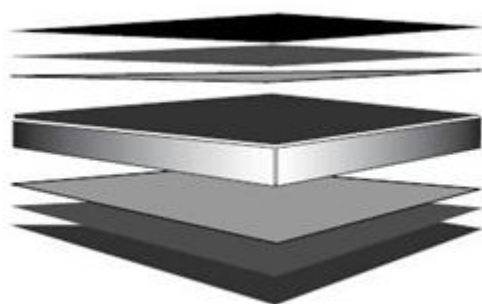
AUSTRALIAN STANDARDS

Substrate- AS 1397

PREFERRED SUBSTRATES

ZINCALUME® G300S AM100 steel with Activate™ technology {Refer Note 6}

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



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

- ← Finish Coat (Finish Coat + Primer = nominal 18µm) {Refer Notes 1, 3 & 4}
- ← Universal Corrosion Inhibitive Primer
- ← Conversion Coating
- ← ZINCALUME®- Zinc/Aluminium alloy coated steel with Activate™ technology Substrate
- ← Conversion Coating
- ← Universal Corrosion Inhibitive Primer
- ← Backing Coat (Backing Coat + Primer = nominal 18µm total){Refer Note 5}

ATTRIBUTES TESTED DURING MANUFACTURE

Property	Test & Evaluation Method(s)	Results
Adhesion		
Reverse Impact	AS/NZS 2728 (App. E)	≥10 joules
T-bend	AS/NZS 2728 (App. F)	Maximum 6T. Refer Note 6.
Hardness		
Pencil	AS1580.405.1	HB or harder
Specular gloss		
60° meter	AS/NZS 1580 602.2; ASTM D523 (test & eval)	Nominal ± 10 units

Australia 1800 800 789

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PRODUCT ATTRIBUTES

Property	Test & Evaluation Method(s)	Results
Flexibility		
T-bend	ASTM D4145	Maximum 8T (no cracking). Refer Note 6.
Resistance to abrasion		
Scratch	AS/NZS 2331.4.7 (test & eval)	Typically 2000g
Resistance to humidity		
Cleveland (500 hours)	ASTM D4585; AS/NZS 1580.481.1.9 (Blisters); AS/NZS 1580.408.4 (Adhesion)	Blister density: ≤ 3 . Blister size: $\leq S2$. No loss of adhesion or corrosion. (Hot-dipped metallic coated substrates only).
Resistance to Solvents		
Exposure	ASTM D1308 (3.1.1); ASTM D2244 (Colour); AS/NZS 1580.481.1.9 (Blisters)	No discolouration or blistering. Refer Notes 8 & 9.
Resistance to acids		
Exposure	ASTM D1308 (3.1.1); ASTM D2244 (Colour); AS/NZS 1580.481.1.9 (Blisters)	No discolouration or blistering. Refer Notes 8 & 9.
Resistance to alkalis		
Exposure	ASTM D1308 (3.1.1); ASTM D2244 (Colour); AS/NZS 1580.481.1.9 (Blisters)	No discolouration or blistering. Refer Notes 8 & 9.
Resistance to fire		
Exposure	AS/NZS 1530.3 (test & eval.)	Ignitability index: 0 rating in scale of 0-20 Spread of flame index: 0 rating in scale of 1-10 Heat evolved index: 0 rating in scale of 0-10 Smoke evolved index: 0-1 rating in scale of 0-10.
Resistance to heat		
Exposure 100°C continuous (500 hrs)	ASTM D2244 (Colour)	Colour change: ΔE 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 Appendix L, and also Technical Bulletin TB7). Contact Steel Direct to obtain advice on appropriate rollforming lubricants.
- 9 Interior Furniture & Shelving Pre-Painted 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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