

General Manufactured Articles prepainted steel

Revision 11 December 2013

This literature supersedes all previous issues



Prepainted - PP

GENERAL DESCRIPTION

General Manufactured Articles prepainted steel has been specifically designed by BlueScope Steel Limited to be used for a range of general manufactured articles having good formability at moderate cost.

TYPICAL USES

Various manufactured articles for interior use. For material selection advice, please contact BlueScope Steel Direct.

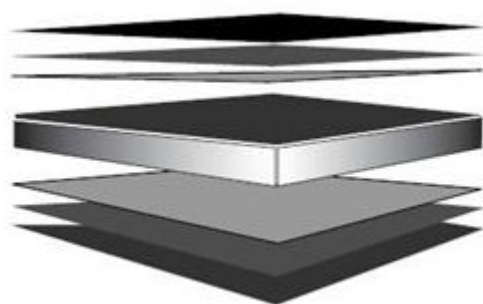
AUSTRALIAN STANDARDS

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 25µm) {Refer Notes 2 & 3}
- ← Universal Corrosion Inhibitive Primer
- ← Conversion Coating
- ← ZINCALUME® - Zinc/Aluminium Alloy Coated steel with Activate™ technology Substrate (can be uncoated or galvanized)
- ← Conversion Coating
- ← Universal Corrosion Inhibitive Primer
- ← Backing Coat (Backing Coat + Primer = nominal 10µm total){Refer Note 4}

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 5.
Hardness		
Pencil	ASTM D3663 (cut)	HB or harder
Specular gloss		
60° meter	AS/NZS 1580.602.2; ASTM D523 (test & eval.)	Nominal ± 10 units for 25 gloss product ≥ 70 units for nominal 80 gloss product

Australia 1800 800 789

COLORBOND®, COLORBOND® Permagard®, COLORBOND® Coolmax®, AQUAPLATE®, CORSTRIP®, WHITEHAVEN™, BRITOWHITE™, DRUMSTOCK® and BlueScope are trade marks of BlueScope Steel Limited ABN 16 000 011 058.

Please ensure you have the current data sheet for this product as displayed at steelproducts.bluescopesteel.com.au



General Manufactured Articles prepainted steel

Revision 11 December 2013

This literature supersedes all previous issues



Prepainted - PP

PRODUCT ATTRIBUTES

Property	Test & Evaluation Method(s)	Results
Flexibility		
T-bend	ASTM D4545	Maximum 10T (no cracking). Refer Note 5.
Resistance to abrasion		
Scratch	AS/NZS 2331.4.7 (test & eval)	Typically 2000g
Resistance to Solvents		
Exposure	ASTM D1308 (3.1.1) & ASTM D2244 (Colour); AS/NZS 1580.481.9 (Blisters)	No discolouration or blistering. Refer Notes 7 & 8.
Resistance to acids		
Exposure	ASTM D1308 (3.1.1) & ASTM D2244 (Colour); AS/NZS 1580.481.9 (Blisters)	No discolouration or blistering. Refer Note 8
Resistance to alkalis		
Exposure	ASTM D1308 (3.1.1) & ASTM D2244 (Colour); AS/NZS 1580.481.9 (Blisters)	No discolouration or blistering. Refer Note 8
Resistance to heat		
Exposure 100°C continuous (500 hrs)	ASTM D2244 (Colour)	Colour change: ΔE cielab 2000: ≤ 3 units.

Australia 1800 800 789

COLORBOND®, COLORBOND® Permagard®, COLORBOND® Coolmax®, AQUAPLATE®, CORSTRIP®, WHITEHAVEN™, BRITWITE™, DRUMSTOCK® and BlueScope are trade marks of BlueScope Steel Limited ABN 16 000 011 058.

Please ensure you have the current data sheet for this product as displayed at steelproducts.bluescopesteel.com.au



Prepainted - PP

IMPORTANT NOTES

- 1 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.
- 2 Finish Coat - the coating applied to the exposed surface of the prepainted coil which is expected to meet the Performance Requirements.
- 3 A range of Finish Coat gloss levels between 10 and 80 units (60°) may be available.
- 4 Backing Coat- a thin coating applied to the reverse surface of the prepainted coil. It also gives additional durability to the reverse surface during the service life of the product, but for aesthetic reasons is not recommended for exposure to sunlight. Performance Requirements are generally not applicable to backing coats. Where specific Performance Requirements are deemed necessary for the reverse surface coating, a "double sided" product should be specified, in which case a topcoat of full nominal thickness will be applied.
- 5 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.
- 6 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.
- 7 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.
- 8 General Manufactured Articles 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.

Australia 1800 800 789

COLORBOND®, COLORBOND® Permagard®, COLORBOND® Coolmax®, AQUAPLATE®, CORSTRIP®, WHITEHAVEN™, BRITEWITE™, DRUMSTOCK® and BlueScope are trade marks of BlueScope Steel Limited ABN 16 000 011 058.

Please ensure you have the current data sheet for this product as displayed at steelproducts.bluescopesteel.com.au

