SuperDyma® CRP Antistatic

July 2022
This literature supersedes all previous issues

Prepainted - PP

GENERAL DESCRIPTION

SuperDyma® CRP Anti-static prepainted steel, with Elextro-Conductive™ Technology and Zilicon-Shield™ Technology. specifically designed by BlueScope for the manufacture of sandwich panel for sensitive areas such as semiconductor fabrication cleanroom. The product offers excellent formability coupled with good durability and electrostatic discharge protection.

TYPICAL USES

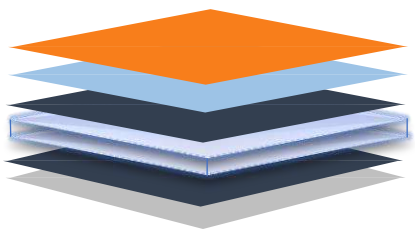
Clean rooms applications such as Panel and Ceiling in Electronic manufacturing /assembly. Control rooms special health care areas (tomography, magnetic resonance, endoscopy etc.) General use laboratories (chemistry, biology, electronics etc.)

AUSTRALIAN STANDARD

Substrate - AS 1397
Paint Coating - AS/NZS 2728 Type 3

PRODUCT INFORMATION

PREFERRED SUBSTRATE	Zinc-11% Al-3% Mg G300 ZM180 steel (Zinc/Aluminium/Magnesium alloy-coated steel)
PRETREATMENT	Corrosion-resistant proprietary conversion coating
PRIMER COAT	Anti-static Polyester Primer. Nominal dry film thickness 5µm for top side.
FINISH COAT	Custom formulated polyester with Elextro-Conductive™ Technology and Zilicon-Shield™ Technology additive paint system with high performance pigments. Nominal dry film thickness 20µm on the top or weather side.
BACKING COAT	Epoxy backer Foam grey EX. Nominal dry film thickness 5 µm.
COLOR	Top color only available in the color CR White and CR Alpine. The product is supplied with a nominal 25% (60°) gloss Backer coat color only available Foam grey EX.



← Anti-static Polyester Finish Coat (Nominal 20 µm)
← Anti-static Polyester Primer (Nominal 5 µm)
← Conversion Coating
← **Zinc-11% Aluminium-3% Magnesium Alloy Coated Steel Substrate ZM180**
← Conversion Coating
←Backing Coat Foam grey EX (Nominal 5 µm)

DIMENSIONAL CAPABILITIES

Zn-11% Al-3% Mg G300 ZM180 STEEL	
PREFERED BASE METAL THICKNESS(mm)	**MAXIMUM WIDTH (mm)**
0.30 – 0.70	1265

Note:
- These dimensions are a reflection of technical capability to produce. Any other sizes may be available on request
- The dimensional tolerances for thickness, width flatness and camber shall be in accordance with the requirements of AS/NS1365
- Supply conditions may be subject to dimensional restrictions and is subject to BlueScope Sales and Marketing confirmation.
- Slitting and shearing available on request from BlueScope Sales Offices. For requirements outside product range please contact your local Sales Office.

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ATTRIBUTES TESTED DURING MANUFACTURE

PROPERTY	TEST & EVALUATION METHORD (S)	RESULTS
Resistivity		
Surface Resistivity or ESD	ASTM D-257	$10^6 – 10^{12}$ Ω/ square at Test Voltage 100 V
Specular Gloss		
60° meter	AS/NZS 1580.602.2; ASTM D523	Nominal 25 ± 10 units
Adhesion		
Reverse Impact	AS/NZS 2728 (Appendix E)	≥ 10 joules
T-bend	AS/NZS 2728 (Appendix F)	Maximum 5T. Refer Note 7
Hardness		
Pencil	AS 1580.405.1	HB or harder

IMPORTANT INFORMATION

1. All warranties for a product, if any, are subject to eligibility. Terms and conditions apply. Nothing in this document is intended by BlueScope to extend, modify or otherwise affect any stated product warranty. To find out more, please contact your nearest BlueScope sales office.
2. Customers should use product promptly (within 6 months) to avoid the possibility of storage related corrosion.
3. The product is supplied with a nominal 25 unit (60°) gloss Finish Coat.
4. The minimum internal bend diameters for forming processes to achieve no paint cracking (visible using x 10 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.
5. For most products, the metallurgical g 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.
6. Improper storage or use of non-approved roll-forming lubricants may cause brand transfer and paint blushing and may adversely affect color 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/NZS2728 Appendix L, and also Technical Bulletin TB7). Contact nearest BlueScope sales office on appropriate roll-forming lubricants.
7. Values quoted are for panels exposed in accordance with AS/NZS2728. Variations for in-situ performance may occur due to complexity of building design and location.
8. Anti-static additive is incorporated into the topcoat during the paint manufacturing process to provide antistatic properties for the life of product.

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