

# Exterior Manufactured Articles prepainted steel

## General description

Exterior Manufactured Articles prepainted steel (XMA), specifically designed by BlueScope to provide a product with outdoor durability and formability.

## Typical uses

Air conditioner panels, garden sheds. For material selection advice, please contact Steel Direct.

## Australian and International standards

Substrate - AS 1397:2021

Paint Coating - AS/NZS 2728:2013 Type 3

ISO 9001:2015 Quality System certified

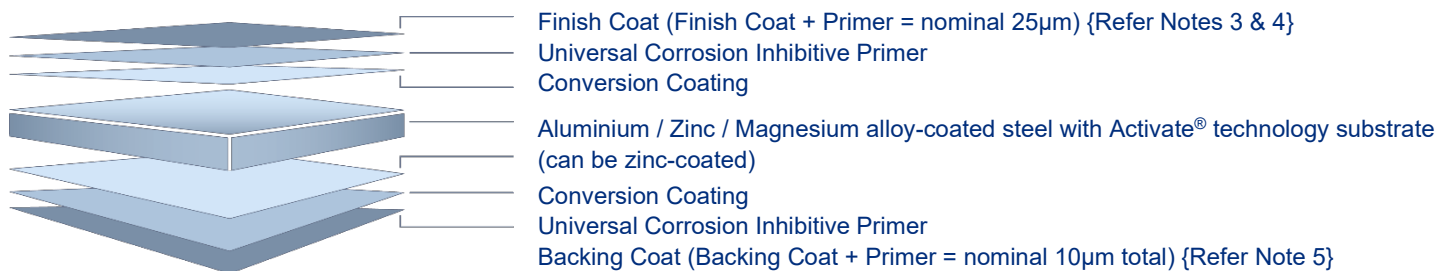
## Preferred substrates

AM100 G550S steel with Activate® technology. AM100 G300S steel with Activate® technology. Z275 G300S steel {Refer Note 7}.

*For substrate properties please refer to the relevant Metallic (AM or Z) Coated steel datasheets or AS 1397:2021.*

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

*CORSTRIP® 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>Specular gloss</b>		
60° meter	AS/NZS 1580.602.2:1995 (R2013); ASTM D523-25	Nominal ± 10 units

## Product attributes

Property	Test & Evaluation Method(s)	Results
<b>Flexibility</b>		
T-bend	ASTM D4145-10 (2022)	Maximum 10T (no cracking). Refer Note 6.
<b>Resistance to abrasion</b>		
Scratch	AS 2331.4.7-2006 (2017)	Typically 2000g
<b>Hardness</b>		
Pencil	AS/NZS 1580.405.1:1996 (R2013)	HB or harder
<b>Resistance to humidity</b>		
Cleveland (500 hours)	ASTM D4585/D4585M-25; AS/NZS 1580.481.1.9:1998 (R2013) (Blisters); AS 1580.408.4-2004 (R2019) (Adhesion)	Blister density: ≤3. Blister size: ≤S2. Undercut from score: ≤2mm. No loss of adhesion or corrosion of base metal.
<b>Resistance to corrosion</b>		
QFog (1000 hours) (AM substrate)	AS/NZS 1580.481.1.9:1998 (R2013) (Blisters); AS 1580.408.4-2004 (R2019) (Adhesion); AS 1580.481.3-2002 (R2013) (Undercutting, Corrosion)	Blister density: ≤2. Blister size: ≤S2. Undercut from score: ≤1mm. No loss of adhesion or corrosion of base metal. Refer Note 3.
Salt Spray (500 hours) (Z substrate)	AS/NZS 1580.481.1.9:1998 (R2013) (Blisters); AS 1580.408.4-2004 (R2019) (Adhesion); AS 1580.481.3-2002 (R2013) (Undercutting, Corrosion)	Blister density: ≤2. Blister size: ≤S3. Undercut from score: ≤2mm. No loss of adhesion or corrosion of base metal. Refer Note 1.
<b>Resistance to colour change</b>		
Natural well washed exposure (10 years)	AS/NZS 1580.457.1:1996 (R2013) & ASTM D2244-25 (Colour)	ΔE CIEDE2000: Light colour: ≤6 units. Intermediate colour: ≤9 units. Dark colour: ≤15 units. Refer Notes 8 & 9.
QUV (2000 hours)	ASTM G154-23 & ASTM D2244-25 (Colour)	ΔE CIEDE2000: Intermediate colour: ≤6 units

Property	Test & Evaluation Method(s)	Results
<b>Resistance to chalking</b>		
<b>Natural well washed exposure (10 years)</b>	AS/NZS 1580.457.1:1996 (R2013) & AS/NZS 1580.481.1.11:1998 (R2013) (Chalk Method B)	Chalk rating: ≤4. Refer Notes 8 & 9.
<b>QUV (1000 hours)</b>	ASTM G154-23 & AS/NZS 1580.481.1.11:1998 (R2013) (Chalk Method B)	Chalk rating: ≤4
<b>Resistance to solvents, acids, alkalis</b>		
<b>Exposure</b>	ASTM D1308-20; ASTM D2244-25 (Colour); AS/NZS 1580.481.1.9:1998 (R2013) (Blisters)	No discolouration or blistering. Refer Notes 1, 8 & 10.
<b>Fire hazard properties</b>		
<b>Simultaneous determination of ignitability, flame propagation, heat release and smoke release (AS/NZS 1530.3:1999 (R2016)) *</b>	Ignitability index (0 – 20)	0
	Spread of flame index (0 – 10)	0
	Heat evolved index (0 – 10)	0
	Smoke developed index (0 – 10)	0 – 1
<b>NCC non-combustible material concessions (NCC 2022; AS/NZS 1530.3:1999 (R2016)) *</b>	National Construction Code, Building Code of Australia 2022; Volume 1 Part C1, C2D10, (5) and (6)(e) and Volume 2: Section H, Part H3, H3D2, (1)(e)	May be used wherever a non-combustible material is required
	AS/NZS 1530.3:1999 (R2016)	

\* The results of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

## Important notes

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1. Product may not be suitable if it is intended to use Exterior Manufactured Articles prepainted steel (XMA) in an exterior application within 1km of salt marine locations, severe industrial or abnormally corrosive environments; in areas not washed by rain, or in applications where it will be wholly or partly buried in the ground. For selection of the most appropriate BlueScope prepainted steel product, please refer to Technical Bulletins TB1a, TB1b, CTB16, CTB21 and CTB22. Before purchase, you should check on suitability by visiting the BlueScope website or by contacting Steel Direct for advice.
2. Note occasionally strippable film may be supplied in lieu of CORSTRIP® film for operational reasons. The CORSTRIP® film/strippable 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. Please contact your relevant waste management provider to discuss requirements for recycling this type of material.
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. 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. For aesthetic reasons the Backing Coat is not recommended for exposure to direct sunlight.
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. Values quoted are for panels exposed in accordance with AS/NZS 2728:2013. Variations for in-situ performance may occur due to complexity of building design and location.
10. Exterior Manufactured Articles prepainted steel (XMA) 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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**steel.com.au**

To learn more about this product

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For more information contact Steel Direct



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