

COLORBOND® XMA steel for roofing & walling

General description

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

Typical uses

Roofing and accessories, wall cladding, rainwater goods.

Australian and International standards

Substrate - AS 1397:2021

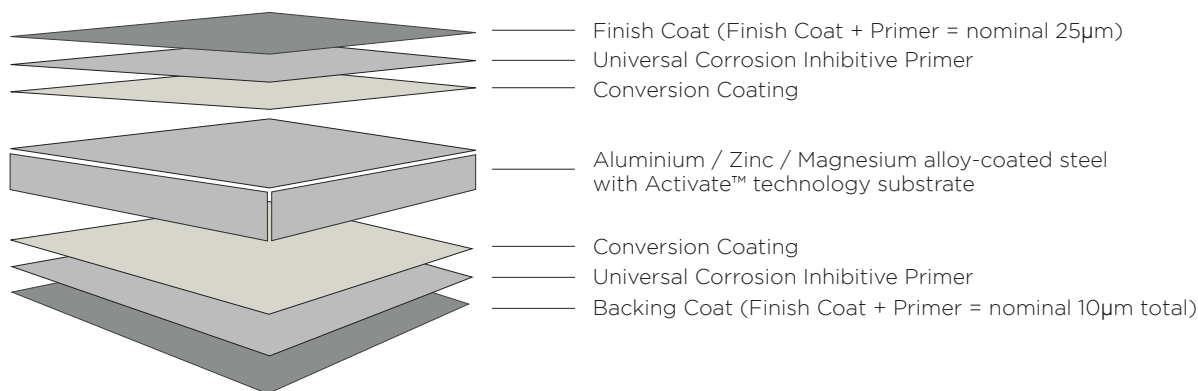
Paint Coating - AS/NZS 2728:2013 Type 3

ISO 9001:2015 Quality System certified

Preferred substrates

AM100 G550 steel with Activate™ technology. AM100 G300 steel with Activate™ technology.

For substrate properties please refer to AS 1397:2021.



Attributes tested during manufacture

Property	Test & Evaluation Method(s)	Results
Adhesion		
Reverse impact	AS/NZS 2728:2013 (App. E)	≥10 joules
T-bend	AS/NZS 2728:2013 (App. F)	Maximum 6T
Specular gloss		
60° meter	AS/NZS 1580.602.2:1995 (R2013); ASTM D523-14 (2018)	Classic finish nominal ± 10 units

Product attributes

Property	Test & Evaluation Method(s)	Results
Flexibility		
T-bend	ASTM D4145-10 (2018)	Maximum 10T (no cracking)
Resistance to abrasion		
Scratch	AS 2331.4.7-2006 (R2017)	Typically 2000g
Hardness		
Pencil	AS/NZS 1580.405.1:1996 (R2013)	HB or harder
Adhesion		
Natural well washed exposure (10 years)	AS/NZS 1580.457.1:1996 (R2013) AS/NZS 1580.481.1.10:1998 (R2013)	No flaking or peeling
Resistance to humidity		
Cleveland (500 hours)	ASTM D4585/D4585M-18; AS/NZS 1580.481.1.9:1998 (R2013) (Blisters); AS 1580.408.4-2004 (R2019) (Adhesion)	Blister density: ≤ 3 . Blister size: $\leq S2$. Undercut from score: ≤ 2 mm. No loss of adhesion or corrosion of base metal
Resistance to corrosion		
QFog (2000 hours)	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: $\leq S2$. Undercut from score: ≤ 1 mm. No loss of adhesion or corrosion of base metal
Resistance to colour change		
Natural well washed exposure (10 years)	AS/NZS 1580.457.1:1996 (R2013) & ASTM D2244-21 (Colour)	ΔE CIEDE2000: Light colour: ≤ 4 units; Intermediate colour: ≤ 6 units; Dark colour ≤ 10 units
QUV (2000 hours)	ASTM G154-16 & ASTM D2244-21 (Colour)	ΔE CIEDE2000: Intermediate colour ≤ 5 units
Resistance to chalking		
Natural well washed exposure (10 years)	AS/NZS 1580.457.1:1996 (R2013) & AS/NZS 1580.481.1.11:1998 (R2013) (Chalk Method B)	Chalk rating: ≤ 4
QUV (2000 hours)	ASTM G154-16 & AS/NZS 1580.481.1.11:1998 (R2013) (Chalk Method B)	Chalk rating: ≤ 4

For more information about COLORBOND® steel email info@colorbondpacific.com or visit colorbondpacific.com

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