

GENERAL DESCRIPTION

Clean COLORBOND® XPD prepainted steel has been developed by BlueScope Steel Limited to provide premium durability, excellent weatherability and high formability for exterior applications

TYPICAL USES

Applications requiring excellent colour and gloss retention such as roofing

AUSTRALIAN STANDARD

Substrate - AS 1397
Paint Coating - AS 2728 Category 3

PREFERRED SUBSTRATES :

ZINCALUME® steel G550 AZ150 Skinpsssed

ZINCALUME® steel G300 AZ150⁽¹⁾ Skinpsssed

- PRETREATMENT** : Corrosion resistant proprietary conversion coating.
PRIMER COAT : Corrosion inhibitive primer. Nominal thickness 5 µm each side.
FINISH COAT : Custom formulated system. Nominal thickness 20 µm on the top or weather side.
The finish coat is available in 6 standard specially selected colours. Other specially required colours and finishes may be available on request. The finish coat can, if required be applied to both sides to provide a double-sided product.
BACKING COAT : Custom formulated Snowgum Green. Nominal film thickness 5 µm
GLOSS : Nominal 25% (60°). Other gloss levels may be available upon request
DIMENSIONS : (for normal supply product)

G550S Grade

Base metal thickness (mm.)	Width range (mm.)	G300S Grade Base metal thickness (mm.)	Width range (mm.)
0.30 - 0.60	711 - 1250	0.25 - 0.30	710 - 1220
0.61 - 0.80	711 - 1200	0.31 - 0.60	710 - 1260
0.81 - 1.00	711 - 940	0.61 - 0.80	710 - 1200
		0.81 - 1.00	710 - 940

EXPECTED PRODUCT SERVICE PERFORMANCE

Property	Measured After	Test Method	Ref. Standard	Results
Resistance to colour change (2)	QUV (2000 hours)	ASTM G53	-	Δ E Hunterlab : Intermediate colour ≤ 1 unit, eg. Bookara
	Natural well washed exposure (20years)	ASTM D2244	AS 2728	Δ E Hunterlab : Light colour ≤ 6 units Int. colour ≤ 7 units Dark colour < 10 units
	Emmaqua (1 x 10 ⁶ Langley's)	-	-	Δ E Hunterlab : < 1 unit
Resistance to Chalking	QUV (2000 hours)	ASTM G53	AS 2728	Rating range : 0-1
	Natural well washed exposure (20years)	AS/NZS 1580 481.1	AS 2728 (App H1)	Chalk rating ≤ 2
Resistance to corrosion	Salt spray (1000 hours)	ASTM B117	AS 2728 (App H2)	Blister density : ≤ 1 Blister size : ≤ S2 Undercut from a score ≤ 2 mm No loss of adhesion
		AS 2331.3.1 NCCA Tech.Bull.4.5.6 AS/NZS 2728 (App H)		
	kestemich (SO ₂) (50 cycles)	DIN 50018	-	Edge creep < 4 mm
Resistance to humidity	Cleveland (1000 hours)	NCCA Tech.Bull.5.4.5	AS 2728	Blister density : ≤ 1 Blister size : ≤ S2 No loss of adhesion
Resistance to acids (3)	Exposure	ASTM D1308 (3.1.1)	-	No discolouration, No blistering
Resistance to alkalis (3)	Exposure	ASTM D1308 (3.1.1)	-	No discolouration, No blistering
Resistance to solvents (3)	Exposure	ASTM D1308 (3.1.1)	-	No discolouration, No blistering
Adhesion (2)	Natural well washed exposure (20years)	-	-	No flaking or peeling
Resistance to heat	Exposure 100° C continuous	ASTM D2244	-	Colour change Δ E Hunterlab ≤ 3 units
Resistance to fire	Exposure	AS/NZS 1530.3	-	Ignitability index : 0 rating in scale of 0-20
				Spread of flame index : 0 rating in scale of 0-10
				Heat evolved index : 0 rating in scale of 0-10
				Smoke evolved index : 0-1 rating in scale of 0-10
Flexibility	T-bend	AS 2935 (App E) NCCA Tech.Bull.4.2.8	-	7T or less (no cracking)
Resistance to abrasion	Taber Abraser - 1000 g	AS/NZS 1580 403.2	-	20 mg per 100 cycles
	CS 10 wheels	NCCA Tech.Bull.4.2.5	-	
	Falling sand	ASTM D968	-	60 litres/25 µm
	Scratch	AS/NZS 1580 403.1	AS 2728	≥ 2000 g

GUARANTEED PAINT PROPERTIES

Property	Measured By	Test Method	Ref. Standard	Results
Hardness	Pencil	AS/NZS 1580 405.1, NCCA Tech.Bull.4.2.5	AS 2728	HB or harder
Adhesion	Reverse impact	AS/NZS 2728 (App E), NCCA Tech.Bull.4.2.6	AS 2728	10 joules
	T-bend	AS/NZS 2728 (App F), NCCA Tech.Bull.4.2.8	AS 2728	5T or less
	Cross hatch	ASTM D3359 (B), NCCA II-5	-	No paint removal
		AS 1580 408.4	-	0 rating (no removal)
Specular gloss	60° meter	AS/NZS 1580 602.2, ASTM D523	-	15-35%

Note :

- For most products, the metallurgical aging 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
- Values quoted are for standard Clean COLORBOND® XPD colours under normal well washed conditions of exposure. If it is intended to use Clean COLORBOND® XPD in an exterior application within 1 km of salt marine locations, SEVERE industrial or abnormally corrosive environments, or in areas not washed by rain (or in applications where it will be wholly or partly buried in the ground), please contact your nearest BlueScope Steel Sales Office for advice. If it is intended to use Clean COLORBOND® XPD for exterior walling or cladding please contact your nearest BlueScope Steel Sales Office for advice. Improper storage or the use of non-approved roll-forming lubricants may adversely affect colour. Material which becomes wet while in stacks or bundles must be separated and dried (refer AS 2728 Appendix A3)
- Clean COLORBOND® XPD has good resistance to accidental spillage of solvents such as methylated spirits, white spirit, mineral turpentine, toluene, trichlorethylene and dilute mineral acids and alkalis. However, all spillage should be immediately removed by water washing and drying.

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