COLORBOND® XRW

Exterior Roofing and Walling

1085 - 4880

Revision 2, February 1995
This literature supersedes all previous issues.

GENERAL DESCRIPTION

TYPICAL USES

Roofing and accessories, wall cladding, rainwater goods.

COLORBOND XRW prepainted steel has been developed by BHP SCPD to provide a high durability, cost effective cladding and roofing material for general exterior use.

AUSTRALIAN STANDARD:

Substrate - AS 1397 Paint Coating - AS 2728 Category 3

PREFERRED SUBSTRATES:

ZINCALUME® G550 AZ150

ZINCALUME G300 AZ150 ①

DIMENSIONS: ZINCALUME G550 AZ150

For normal supply product Preferred thickness, mm

0.30

 0.32
 380 - 540, 610 - 1100

 0.35, 0.38
 250 - 1220

 0.40, 0.50, 0.55, 0.60
 120 - 1240

 0.65, 0.70, 0.75, 0.80
 450 - 1240

 0.85, 0.90, 0.95, 1.0
 450 - 1220

DIMENSIONS: ZINCALUME G300 AZ150

For normal supply product Preferred thickness, mm

Width range, mm Sheet length, mm
Strip Sheet

		201000
0.30	150 - 520, 610 - 1100	300 - 1100
0.32,	150 - 540, 610 - 1100	300 - 1100
0.35	150 - 1220	300 - 1220
0.38	150 - 1235	300 - 1235
0.40, 0.42, 0.45, 0.48, 0.50, 0.55	150 - 1240	300 - 1240
0.60, 0.65, 0.70, 0.75, 0.80	150 - 1240	300 - 1240
0.85, 0.90, 0.95, 1.0	150 - 1235	300 - 1235
1.1, 1.2	150 - 1220	300 - 1235

For maximum width less than 1200 mm, any width between half maximum and 610 mm is available by negotiation only. Availability applies only to product supplied direct from Western Port and Port Kembla, and may change if supplied from SCPD Steel Service Centres.

PRETREATMENT:

Corrosion resistant proprietary conversion coating.

PRIMER COAT:

Universal 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 12 standard specially selected colours. Other specially required

rinish coat is available in 12 standard specially selected colours. Other specially required colours may be available on request. The finish coat can, if required be applied to both sides to provide double-sided product.

BACKING COAT:

GLOSS:

Custom formulated Shadow Grey. Nominal film thickness 5 μ m.

Nominal 25% (60°). Other gloss levels may be available upon request.

PROTECTIVE FILM:

COLORBOND XRW can be supplied with CORSTRIP $^{\otimes}$, a specially designed protective polyethylene strippable film, on the top side. The polyethylene film should be removed

from the painted steel strip within 12 months of delivery from BHP SCPD.

EXPECTED PRODUCT SERVICE PERFORMANCE

Property	Measured After	Test Method	Ref. Standard	Results
Resistance to colour change ②	QUV (2000 hours)	ASTM G 53	37	Δ E Hunterlab: Intermediate colour
				≤5 units, eg, Wheat
	Naturai well ASTM D 2244 AS 2: washed exposure (15 years)	AS 2728	Δ E Hunterlab: Light colour: ≤6 units Int. colour: ≤9 units Dark colour: ≤15 units	
Resistance to chalking	QUV (2000 hours)	ASTM G 53 AS 1580 481.1	AS 2728	Rating range: 1-2
	Natural well washed exposure (10 years)	AS 1580 481.1	AS 2728 (App H1)	Chalk rating; ≤2



EXPECTED PRODUCT SERVICE PERFORMANCE (Cont)

Property	Measured After	Test Method	Ref. Standard	Results
Resistance to corrosion	Sait spray [1000 hours]	ASTM B 117 AS 2331.3.1 NCCA III - 2	AS 2728 (App H2)	Blister density: ≤1 Blister size: ≤S2 Undercut from a score: ≤2 mm
			AS 2728 (App H)	No loss of adhesion
	Kesternich (SO ₂) (50 cycles)	DIN 50018	53	Edge creep: <4 mm
Resistance to humidity	Cleveland (1000 hours)	NCCA II - 6	AS 2728	Blister density: ≤1 Blister size:≤S2 No loss of adhesion
Resistance to acids ③	Exposure	ASTM D 1308 (3.1.1)	_	No discolouration No blistering
Resistance to alkalis ③	Exposure	ASTM D 1308 (3.1.1)	-	No discolouration No blistering
Resistance to solvents ③	Exposure	ASTM D 1308 (3.1.1)	=	No discolouration No blistering
Adhesion ②	Natural well washed exposure (15 years)	**		No flaking or peeling
Resistance to heat	Exposure 100°C continuous	ASTM D 2244	⊕a.	Colour change ∆ E Hunterlab: ≤3 units
Resistance to fire	Exposure	AS 1530 Pt 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 II - 19	:=:	7T or less (no cracking)
10	Taper Abraser- 1000g CS 10 wheels	AS 2105 (App D) NCCA II - 12	-	≤20 mg per 100 cycles
	Scratch	AS 1580 403.1	AS 2728	≥2000 q

GUARANTEED PAINT PROPERTIES

Property	Measured By	Test Method	Ref. Standard	Results
Hardness	Pencil	AS 1580 405.1 NCCA II - 12	AS 2728	HB or harder
Adhesion	ion Reverse impact AS 2728 (App E) AS 272 NCCA II - 6	AS 2728	≥10 joules	
Cross hatch ASTM NCC/	T-bend	AS 2728 (App F) NCCA II - 19	AS 2728	5T or less
	ASTM D3359 (B) NCCA II - 5 AS 1580 408.4	Ψ.	No paint removal 0 rating (no removal)	
Specular gloss	60° meter	AS 1580 602.2 ASTM D 523	-	15 – 35%

NOTE

- O 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.
- Values quoted are for standard COLORBOND XRW colours under normal well washed conditions of exposure.
 - If it is intended to use COLORBOND XRW in an exterior application within 1 km of salt marine locations, severe industrial or abnormally corrosive environments, or in areas not washed by rain for in applications where it will be wholly or partly buried in the groundl, please contact your nearest SCPD 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).
- © COLORBOND XRW 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 spillages should be immediately removed by water washing and drying.

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Please ensure you have the current data sheet for this product.

Sheet & Coil Products Division - BHP Steel

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