

COLORBOND® Insulation Panel steel

Designed for: Coolroom Panels

Revision 6, November 2003
This literature supersedes all previous issues

GENERAL DESCRIPTION

COLORBOND® Insulation Panel steel, designed by BlueScope Steel Limited, specifically for the manufacture of sandwich panels for coolrooms. The product offers excellent formability coupled with good durability.

TYPICAL USES

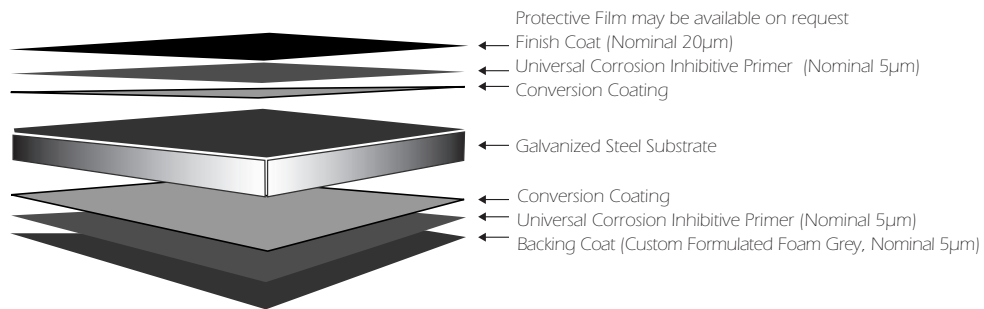
Coolroom panels.

AUSTRALIAN STANDARD

Substrate – AS 1397
Paint Coating – AS/NZS 2728:1997 Type 3

PREFERRED SUBSTRATES ZINCFORM® G300 Z275 BFC steel

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



Only light colours are available. Colour in the 'L' scale is greater than 50. The product is supplied with a nominal 25% (60°) gloss.

Protective film (CORSTRIP®) should be removed from the painted steel strip immediately on installation. Sunlight can increase the adhesion of the protective film to the painted surface if left uncovered outside. Refer to brochure 'The smart way to design, install and maintain COLORBOND® steel'.

LINE TESTED PROPERTIES

Property	Measured By	Test Method	Results
Hardness	Pencil	AS/NZS 1580 405.1 NCCA Tech. Bull. 4.2.5	HB or harder
Adhesion	Reverse Impact	AS/NZS 2728 (App. E) NCCA Tech. Bull. 4.2.6	≥10 joules
	T-bend	AS/NZS 2728 (App. F) NCCA Tech. Bull. 4.2.8	Maximum 6T
Specular gloss	60° meter	AS/NZS 1580 602.2 ASTM D523	15 - 35%

EXPECTED PRODUCT SERVICE PERFORMANCE

Property	Measured After	Test Method	Results
Resistance to colour change	QUV (2000 hours)	ASTM G53	Δ E Hunterlab: Light colour: ≤6 units
	Natural well washed exposure (10 years)	ASTM D2244	Δ E Hunterlab: Light colour: ≤6 units
Resistance to chalking	QUV (1000 hours)	ASTM G53 AS/NZS 1580 481.1.11 (Method B)	Rating: ≤4
	Natural well washed exposure (10 years)	AS/NZS 1580 481.1.11 (Method B)	Chalk rating: ≤4
Resistance to corrosion	Salt spray (500 hours)	ASTM B117 AS 2331.3.1 NCCA Tech. Bull. 5.4.6 AS/NZ 2728 (App. H3)	Blister density: ≤2 Blister size: ≤S2 Undercut from a score: ≤2mm No loss of adhesion
	Kesternich (SO ₂) (50 cycles)	DIN 50018	Edge creep: <4mm Blisters: nil
Resistance to humidity	Cleveland (1000 hours)	NCCA Tech. Bull. 5.4.5	Blister density: ≤2 Blister size: ≤S2 No loss of adhesion
Resistance to acids	Exposure	ASTM D1308 (3.1.1)	No discolouration No blistering

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Continued

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EXPECTED PRODUCT SERVICE PERFORMANCE (Cont.)

Property	Measured After	Test Method	Results
Resistance to solvents	Exposure	ASTM D1308 (3.1.1)	No discolouration No blistering
Adhesion	Natural well washed exposure (10 years)	–	No flaking or peeling
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	Maximum 8T (no cracking)
Resistance to abrasion	Taber Abraser – 1000g CS 10 wheels	AS/NZS 1580 403.2 NCCA Tech. Bull. 4.2.5	≤20mg per 100 cycles
	Scratch	AS/NZS 1580	Typically 2000g

NOTE

- ① Values quoted are for standard colours of COLORBOND® Insulation Panel steel under normal well washed conditions of exposure.
- ② Product may not be suitable if it is intended to use COLORBOND® Insulation Panel steel in an exterior application within 1 km of salt marine locations, severe industrial or abnormally corrosive environments, areas not washed by rain, or in applications where it will be wholly or partly buried in the ground. Before purchase, you should check on suitability through contacting your nearest BlueScope Steel Limited Sales office for advice.
- ③ COLORBOND® Insulation Panel steel 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.
- ④ 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.
- ⑤ 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/NZS 2728 Appendix K).
- ⑥ Customers should use product promptly (within 6 months) to avoid the possibility of storage related corrosion and a phenomena of galvanized coatings termed intergranular corrosion.

COLORBOND®, ZINCALUME® and CORSTRIP® are registered trade marks of BlueScope Steel Limited.

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Please ensure you have the current data sheet for this product as displayed at www.bluescopesteel.com.au

BlueScope Steel Limited

BlueScope Steel Limited ABN 16 000 011 058
BlueScope Steel (AIS) Pty Ltd ABN 19 000 019 625

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SYDNEY: (02) 9795 6700 **MELBOURNE:** (03) 9586 2222 **BRISBANE:** (07) 3845 9300 **ADELAIDE:** (08) 8243 7333 **PERTH:** (09) 9330 0666

Produced by Artimprint (02) 9984 8586

