

General Description

COLORBOND® Metallic steel - pre-painted steel for premium durable roofing, wall cladding, rain water goods and accessories with an aesthetically distinctive "Metallic Effect". It is an ideal choice for exterior application in prestigious architectural projects.

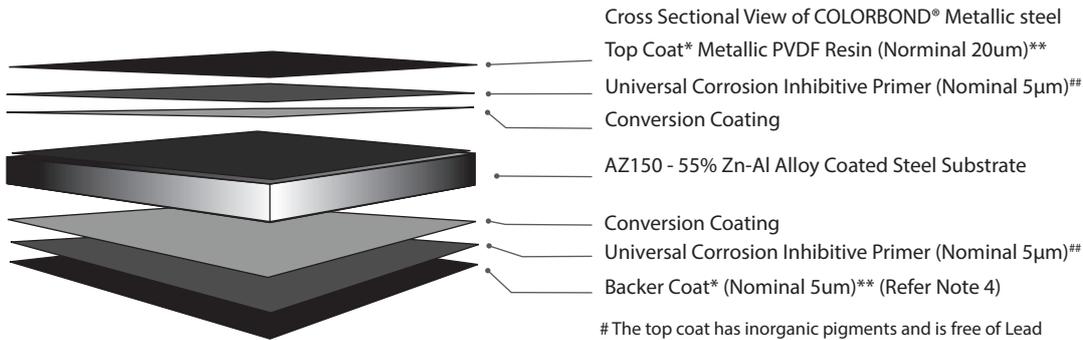
Standard

Paint Coating: AS/NZS 2728 Type 3*

Substrate: AS 1397**

*COLORBOND® Metallic steel is possible against other standards also

**Substrate: AZ150 steel G550 or 340 Class 2 or G300 AZ150



The top coat has inorganic pigments and is free of Lead
Triple spot minimum coat thickness - 80% of nominal value.

Properties of Steel Base (other steel base possible on agreement)

Chemical Element	Guaranteed Maximum (%)		
	G550 ^a	G300 ^a	340
Carbon (C)	0.35	0.35	0.25
Manganese (Mn)	4.0	4.0	1.35
Phosphorus (P)	0.05	0.05	0.20
Sulphur (S)	0.035	0.035	0.04

Note: ^aAS 1397, ^{**}ASTM A792M, #IS 15961

Mechanical Property	Guaranteed Minimum		
	G550 ^a	G300 ^a 340	
Yield Strength, MPa	550	300	340
Tensile Strength, MPa	550	340	-
Elongation on 80 mm GL (≥ 0.60 mm), %	2	18	12
Transverse Bend Test (180° Bend)	2t	t	-

Note: - Tensile test in longitudinal direction
- Mechanical properties are guaranteed at ambient/room temperature

i) As per AS 1397 ii) Class 2 Grade as per ASTM A 792M

Where t = the diameter of mandrel in terms of thickness of product

Dimension Range & Tolerances

Range	Base Metal Thickness (mm)	
	Tolerance	
	Width ≤ 1200	Width > 1200
0.30 - 0.50	± 0.03	± 0.04
0.51 - 0.80	± 0.04	± 0.05
0.81 - 1.2	± 0.05	± 0.06
> 1.20	± 0.06	± 0.07

Width (mm)	
Range	Tolerance
< 900 (in slit edge)	+1 / -0
914 - 1000	+4 / -0
1001 - 1220	+5 / -0

a) Specific requirement is possible on agreement

b) Other dimension & shape tolerances as per AS 1365/ ASTM A568M / ASTM 924M

Attributes Tested During Manufacture

Property	Test	Evaluation Method(s)	Results
Adhesion	Reverse Impact	AS/NZS 2728 (App.E)	≥ 10 Joule
	T - Bend	AS/NZS 2728 (App.F)	Maximum 5T
Specular Gloss	60° meter	AS/NZS 1580.602.2 / ASTM D 523	Nominal +/-10 unit

Product Attributes

Property	Test	Evaluation Method(s)	Results		
Flexibility	T - Bend	ASTM D 4145	Maximum 10T (no cracking). Refer note 5.		
Resistance to abrasion	Scratch	AS 2331.4.7	Typically 2000 g		
Hardness	Pencil	AS/NZS 1580.405.1 / IS 15965	HB or Harder		
Adhesion	Natural well washed exposure (10 years)	AS/NZS 1580.457.1 AS/NZS 1580.481.1.10:1998 (R2013)	No flaking or peeling. Refer note 9.		
Resistance to humidity AS/NZS 2728	500 hours IS 15965.2012 specifies 1000 hours for Type 3 products	ASTM D 4585, ASTM D 2247 AS/NZS 1580.481.1.9 AS/NZS 1580.408.4 IS 15965 (Annex D)	Blister density: ≤ 3 Blister size: ≤ S2 No loss of adhesion or corrosion		
Resistance to corrosion AS/NZS 2728	Salt Spray (500 hours) IS 15965.2012 specifies 1000 hours for Type 3 products	ASTM B117, ASTM D 1654, AS 2331.3.1 AS/NZS 2728 (App. I) AS/NZS 1580.481.1.9 (Blisters) AS/NZS 1580.408.4 (Adhesion) IIS 15965 (Annex D)	Blister density: ≤ 2 Blister size: ≤ S3 Undercut from a score: ≤ 2 mm No loss of adhesion or corrosion		
Resistance to colour change	QUV (2000 hours)	ASTM G 154 ASTM D 2244	ΔE cielab 2000 - Refer note 9. Intermediate Color: ≤ 1 units		
	Natural well washed exposure (10 years)	ASTM D 2244 - 21 (color) AS/NZS 1580.457.1	ΔE cielab 2000 Light Color: ≤ 3 units Int. Color: ≤ 3.5 units, Dark color: ≤ 5 units		
Resistance to chalking	QUV (2000 hours)	ASTM G 154 AS/NZS 1580.481.1.11 (Method B)	Chalk Rating: ≤ 4		
	Natural well washed exposure (10 years)	AS/NZS 1580.457.1 AS/NZS 1580.481.1.11 (Method B)	Chalk Rating: ≤ 2. Refer note 9.		
Resistance to acids	Exposure	ASTM D 1308 (3.1.1)	No discoloration or blistering. Refer note 6.		
Resistance to alkalis		AS/NZS 1580.481.1.9			
Resistance to Solvents		ASTM D 2244			
Resistance to Heat	Exposure 100° C continuous (500 hours)	ASTM D 2244	Colour Change ΔE cielab 2000: ≤ 3 units		
Resistance to fire	Exposure	AS/NZS 1530.3	Index	Range	Rating
			Ignitability	0-20	0
			Spread of flame	0-10	0
			Heat evolved	0-10	0
			Smoke developed	0-10	0-1

Important Note:

- COLORBOND® Metallic steel I may not be suitable for use in abnormally corrosive environments; in areas not washed by rain, or in applications where it will be wholly or partly buried in the ground. Before purchase, check suitability by contacting Tata Steel Colors sales office.
- Results mentioned are for standard colours of COLORBOND® Metallic steel under normal well washed conditions of exposure away from marine location.
- The product is supplied with a nominal 25 unit (600) gloss Top Coat.
- 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, but for aesthetic reasons it is not recommended for exposure to sunlight. Performance Requirements are generally not applicable to backing coats. The backer coat in specific color and with foam adhesion properties is possible on agreement.
- The minimum internal bend diameter for forming process to achieve no paint cracking (visibility using x10 magnification) and to avoid paint adhesion issues are specified by T-Bend flexibility and T-Bend adhesion results respectively - where 1T equals the Total Painted Thickness (TPT) in mm of the material. These results are based on testing at 20-25°Celsius.
- COLORBOND® Metallic steel has good resistance to accidental spillage of solvents such as methylated spirits, white spirit, mineral turpentine, toluene, trichloroethylene, dilute mineral acids and alkalis. However, all spillages should be immediately removed by water washing and drying.
- 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 qualified.
- Improper storage or the use of un-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 L).
- Values quoted are for panels exposed in accordance with AS/NZS 2728. Variations for in-situ performance may occur due to complexity of building design and location.
- COLORBOND® Metallic steel colours are incorporated with Thermatech® solar reflectance technology. Thermatech® technology lowers surface temperature by absorbing lesser heat from the sun, thereby reducing the heat radiation travelling downwards into the building and thus keeping both the roof and building cooler.

Note:

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