

NS BlueScope Material Specification

COLORBOND® Steel



Metal Sheet for Roofing and Siding

Material

1. Using coated steel with hot-dipped zinc-aluminium 55% alloy-coated and coating on the steel sheet on both sides is not less than 150 g/sqm. (AZ150) that is Colorbond steel. Certified by TIS standards 2753-2016 Type 22, comply AS1397.
2. Guaranteed minimum Yield Strength of 550 Mpa for G550 or 300 Mpa for G300 depending on metal sheet profile.
3. Thickness of steel sheet and coating layer as TIS 2753-2016 standards follows.
 - Base Metal Thickness; BMT nominal 0.42 mm. After Paint Thickness; APT nominal 0.51 mm.
 - Base Metal Thickness; BMT nominal 0.45 mm. After Paint Thickness; APT nominal 0.54 mm.
 - Base Metal Thickness; BMT nominal 0.48 mm. After Paint Thickness; APT nominal 0.57 mm.
 - Base Metal Thickness; BMT nominal 0.55 mm. After Paint Thickness; APT nominal 0.64 mm.

4. Coated with a polyester paint system with Clean Technology which resists dirt staining and Thermatech Technology to reflect heat which contains a mixture of inorganic pigment. The thickness of the coating as follows

- Finishing Coat Polyester 20 microns
- Corrosion Inhibitive Primer Polyester 5 microns
- Backing Coat Polyester 5 microns
- Corrosion Inhibitive Primer Polyester 5 microns

For insulation material sandwiched, backing coat with Epoxy 5 microns instead of Polyester.

5. Reference standard
 - TIS. 2753-2559 Type 22 Prepainted Hot-DIP 55% Aluminium/Zinc-Coated Cold-Reduced flat steel
 - AS 1397-2021 Continuous hot-dip metallic coated steel sheet and strip – Coating of zinc and zinc alloyed with aluminium and magnesium.
 - AS/NZS 1365-1996 Tolerances for flat-rolled steel products
 - AS/NZS 2728-2013 Prefinished/ prepainted sheet metal products for interior/exterior building
6. The material should pass Methods of Test For Metallic and Related Coatings Corrosion and Related Property Tests - Wet (Salt Fog)/Dry/Humidity (Cyclic Corrosion Test) in not less than 2,000 hours intended to be a more realistic way to combine traditional exposure to salt spray with a variety of other controlled climates by using cutting tools to make an "X" scribed line on the sample without red rust under the cutting scribed line of more than 1 mm and no corrosion on the base metal in accordance with AS 2331.3.13-2006 Cycle E

7. The material should pass Standard Practice for Operating Salt Spray (Fog) Apparatus (Salt Spray Test) in not less than 3,000 hours by using cutting tools to make "X" scribed line on the sample without red rust under the cutting scribed line of more than 2 mm and no corrosion on the base metal in accordance with ASTM B117-2016
8. The material should pass Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials (QUV accelerated weathering test) using weathering simulator including the QUV A and Humidity, not less than 2000 hours, color difference after test (Delta E-CIE Lab) is not more than 1.00 in accordance with ASTM G154:2016

Exclude the Night Sky color

9. The material should pass the solar reflectance index (SRI) calculation test according to ASTM E1980-1.

The SRI values for each color are as follows.

SRI 91 Thredbo White	SRI 87 Aiyara White	SRI 86 Off White	SRI 75 In Light Grey	SRI 72 Burnt Almond
SRI 62 Desert Wind	SRI 55 Jade Green	SRI 54 Alloy Grey	SRI 53 Custrard Orange	SRI 40 International Brown
SRI 38 Skytone Blue	SRI 36 Bangkok Red	SRI 29 Tobac Brown	SRI 28 Army Green	SRI 28 Ocean Blue
SRI 28 Posh Grey	SRI 27 Carbonic Grey	SRI 24 Forest Green	SRI 20 UK Blue	SRI N/A Night Sky



Product Warranty

Application of Colorbond products for roofing and siding will receive a product warranty according to the terms and conditions of the company as follows.

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| - Shall not perforate by corrosion | 30 years |
| - Shall not Color Peeling and Flake | 15 years |
| - Shall not Color Fading and Chalking | 10 years |
| - Shall not discoloration by Dirt Retention | 5 years |