NS BlueScope Material Specification

SuperDyma® CRP Antistatic

Metal Sheet for Sandwich Panel for Server Room and Electric Component Room

Material

1. Sandwich panel of internal walling and ceiling application consists of insulating core sandwiched in between steel sheet which is SuperDyma® CRP Antistatic, or steel sheet coated with zinc, 11% aluminum and 3% magnesium. Coating on the steel sheet on both sides is not less than 180 grams per square meter (ZM180).
2. Minimum Yield Strength must not less than 300 Mpa for G300
3. Thickness of steel sheet and coating layer as AS 1397 - 2021 standard follows
   - Base Metal Thickness; BMT nominal 0.40 mm. After Paint Thickness; APT nominal 0.47 mm.
   - Base Metal Thickness; BMT nominal 0.50 mm. After Paint Thickness; APT nominal 0.57 mm.
   - Base Metal Thickness; BMT nominal 0.55 mm. After Paint Thickness; APT nominal 0.62 mm.
4. Coated with a polyester paint system with certified Food Grade in accordance with USFDA 21 CFP 175.300 (U.S. Food and Drug Administration). Easy clean property coated surface with Zilicon-Shield technology offers water protection and oil repelling qualities on the surface and Elextro-Conductive™ Technology provides a basic layer of electrostatic discharge protection by dissipation of static charges on the product surface. The thickness of the coating as follows
   - Finishing Coat Food Grade (USDA) Polyester 20 microns
   - Corrosion Inhibitive Primer Polyester 5 microns
   - Backing Coat Epoxy 5 microns
5. Reference standard
   - AS 2728: 2013 Prefinished/ prepainted sheet metal products for interior/exterior building
   - AS 1397 - 2021 Continuous hot-dip metallic coated steel sheet and strip
   - TIS 2981 – 2019 Hot-dip zinc-5% to 13% aluminium-2% to 4% magnesium alloy-coated flat steel
   - JIS G3323 Hot-dip zinc-aluminium-magnesium alloy-coated steel sheet and strip
6. The material provides electrostatic discharge protection by Elextro-Conductive™ Technology and contained surface resistivity value in static dissipative (10^6-10^{12} Ω / square at test voltage 100V) comply to ASTM D257 standard test methodology. It is recommended in sensitive areas such as data center/server room, semiconductor fabrication cleanrooms and pharmaceutical manufacturing facilities.

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Reversion : Jan 2024

7. 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
8. The material should pass Standard Practice for Operating Salt Spray (Fog) Apparatus (Salt Spray Test) in not less than 2,000 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

Product Warranty

Application of SuperDyma® CRP Antistatic products for Sandwich panel (Interior) will receive a product warranty according to the terms and conditions of the company as follows.

- Shall not perforate by corrosion 15 years
- Shall not Color Peeling and Flake 5 years

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