



PVC COATED GALVANIZED STEEL COIL FOR ROOF

Description

PVC Coated Galvanized Steel Coil for Roofs is a roofing material made for fabrication into metal roofs, coping, fascia, and flashing typically used for Commercial and Industrial buildings. The polymer coating provides excellent protection against harsh environments, especially corrosion resistance in marine environments and industrial areas with airborne chemicals.

Materials

The steel core is hot-dip galvanized steel, which is coated with a chemical and flame-resistant polymeric resin layer on all sides. The resin is applied through an extrusion molding process and results in a 115 um (4.5 mil) thick layer surrounding the galvanized steel core. An acrylic film layer provides color and weather resistance on the top side. This acrylic layer is 50 um (~2 mil) thick. Steel core thicknesses range from 26, 24, 23, or 20 gauge (0.4, 0.5, 0.6 and 0.8 mm).

Sizes

- Roofing coil widths range from 23.6 inches to 47.2 inches, or 600mm to 1200 mm.
- Standard Roofing coil lengths are 300, 600, 900 and 1200 feet.

Colors

There are six top coat colors, three of which are standard: Light Gray, Gray and Brown. Optional colors are Sea Green, Blue, and Dark Gray. The underside of all the material colors is Beige.

Standards

- Third party tested by a certified testing lab in accordance with these standards: ASTM G155, ASTM B117, ASTM D2247, ASTM D638, ASTM D2843, ASTM D635, ASTM D6110, ASTM D3359, ASTM D1929, ASTM D2794, ASTM D3363, ASTM D968, ASTM C1549, AAMA 621, AAMA 308, Miami Dade Checklist #0445.
- Miami-Dade County Product Control Approved - Product (26 gauge) is approved and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.



Forming and Application of Material

- Industry standard equipment can be used to fabricate PVC Coated Galvanized Steel for Roof material.
- Fabrication equipment should be adjusted to handle the specific material thickness being formed.
- Acetal Copolymer Rollers are recommended for Roof Seaming.
- Stainless steel bolts, screws, rivets should be used for securing.
- Sealant should be applied to all seams to ensure a watertight installation.
- When used as Coping, Product can be heat-welded to PVC membrane roof materials.

Warranty

PVC coated Galvanized steel Coil for Roof carries a limited warranty against perforation (substrate quality) for up to 30 years, and for chalking and fading. Product should be installed at a distance of fifty (50) feet or more from salt water. Material must be handled and implemented per application guidelines.

Specification

General Specification	Standards Met	
Accelerated Weathering, 4,500 hours, Cycle 1	ASTM G155	
5% Salt Spray Corrosion Resistance, 1,000 hours continuous fog at 35oC +/- 3oC	ASTM B117	
High Humidity Corrosion Resistance, 1,000 hours @ 100% RH at 100°F	ASTM 2247	
Checklist #0445	#0445	
Coating Durability	AAMA 621	
Tensile Strength - 23 gauge (0.6mm) steel core	52,000 (psi)	ASTM D638
Smoke Density Rating	40.8	ASTM D2843
Rate of Burn	Class CC1	ASTM D635
Impact Resistance - 0.6 mm steel core material (23 gauge)	184 in-lb. No cracking of coating.	ASTM D2794
Film Hardness (Pencil Hardness)	H - Gouge; 3B - Scratch	ASTM D3363
Falling Sand Abrasion Coefficient	50 L/mils	ASTM D968
Solar Reflectance	Light Gray - 0.482 Brown - 0.069 Gray - 0.203	ASTM C1549
Surface Temperature	Max. 176°F / 80°C for up to 12 hours	-
Minimum Temperature for Forming	23°F / -5°C	-
Storage Temperature	less than 140°F	-

STANDARD COLORS



OPTIONAL COLORS



Manufacturing Certifications

This material is manufactured in facilities that have received and maintain the following certifications:

- ISO 9001 Quality Management Systems
- ISO 14001 Environmental Management Systems



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