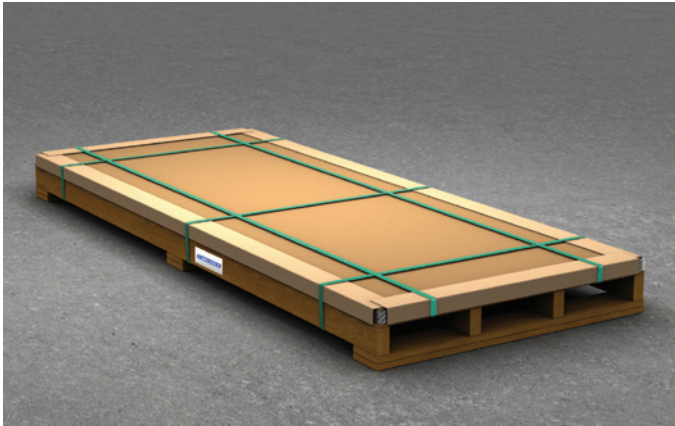


Kynar Coated Galvalume® Steel and Aluminum Architectural Flat Sheet



Overview

Carlisle's Kynar (PVDF) Coated Galvalume Steel and Aluminum Architectural Flat Sheet is for general sheet metal use in building applications and can be utilized for fascia panels, soffits, gravel stops, and copings.

Features and Benefits

- » Steel products are made of Galvalume, an Aluminum/Zinc coated carbon steel and is extra smooth, minimum spangle, tension leveled.
- » Aluminum is made of prime grade aluminum, typically with an alloy of 3003 or 3105 and a temper of H14 or H24.
- » Uses full strength Hylar 5000™/ Kynar 500® (contains a minimum of 70% Hylar/Kynar polyvinylidene fluoride (PVDF) resins) manufacturer by Valspar.
- » Coating system consists of a 1.0 (±0.1) mil total dry film thickness on the topside (0.2 mils to 0.3 mils primer and 0.7 mils to 0.8 mils topcoat).
- » Utilizes 0.5 mil dry film thickness polyester stenciled backer for complete traceability.

Installation

1. Install in accordance with recognized sheet metal practices and Carlisle's specifications and details.
2. This material can be cut, formed, and fastened using conventional hand tools, sheet metal tools, and power tools.
3. For best results, cutting tools should be kept sharp, clean, and in good working condition.
4. If strippable film is used, all film should be removed from areas of concealed or joined pieces. Remove strippable film immediately after installation.

Review Carlisle specifications and details for complete installation information.

Testing Data

- » **Humidity Resistance:** No field blistering after 2,000 hours (Galvalume) or 3,000 hours (Aluminum) of exposure to 100% humidity at 100°F ± 5°F, per ASTM D2247.
- » **Cleveland Condensing:** No field blistering after 1,000 hours (Galvalume or Aluminum) of exposure at 120°F, per ASTM B117.
- » **Salt Spray Resistance:** No field blistering after 1,000 hours (Galvalume) or 3,000 hours (Aluminum), per ASTM B117, and creep from scribe no greater than 1/16".
- » **Chemical Resistance:** No significant color change after 24 hours exposure to 10% solutions of hydrochloric and sulfuric acids, per ASTM D1308, Procedure 7.2 (spot test).
- » **Accelerated Weathering:** Per ASTM D4587 and G154 (QUV-A), 5 Hunter Delta E maximum color change (ASTM D2244) Chalk rating of 6 after 5,000 hours exposure, per ASTM D4214, Method A.
- » **Exterior Weathering:** South Florida exposure (45° South), 5 Hunter Delta E maximum color change, per ASTM D2244, and at least #6 chalk rating, per ASTM D4214, Method A, after 20 years real-time exposure.
- » **Abrasion Resistance:** Per ASTM D968, Method A, passes -80 +/- 5 liters minimum of falling sand.
- » **Flame Spread Rating:** Displays a flame spread classification of A (Class 1) when tested in accordance with ASTM E84.

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Ratings and Specifications

- » ASTM A792-96 - Standard Specification for Steel Sheet, 50% or 55% Aluminum-Zinc Alloy Coated by a hot dipping process
- » ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate
- » ASTM D2244 - Standard Practice for Calculation of Color Tolerance and Color Differences
- » ASTM D968 - Abrasion Resistance
- » AAMA 2605-20

Typical Properties and Characteristics

- » **Specular Gloss:** 30% ± 5%. Determined per ASTM D523 at a glossmeter angle of 60° or less.
- » **Pencil Hardness:** Minimum pencil hardness "HB", per ASTM D3363.
- » **Solvent Resistance:** Passes minimum of 100 double rubs of a MEK soaked cloth, per ASTM D5402.
- » **Cross-Hatch Adhesion:** No loss of adhesion per ASTM D3359.
- » **Reverse Impact Resistance:** Per ASTM D2794, no loss of adhesion or cracking, and 2x metal thickness inch-pounds (Galvalume) and 1.5x metal thickness inch-pounds (Aluminum).
- » **T-Bend Adhesion:** Per ASTM D4145, no loss of adhesion.

Typical Properties and Characteristics

Property	Value
Color	Visit www.carlisesyntec.com for a full listing of available colors.
Top Finish Film Thickness	Low to Medium Gloss Primer (dry) = .20 - .30 mils Topcoat (dry) = .70 - .80 mils
Bottom Finish Film Thickness	Polyester with Stencil Primer (dry) = .15 - .25 mils Topcoat (dry) = .30 - .40 mils
Overall Thickness	Total DFT for System = .90 - 1.1 mils Per ASTM D5796
Weight - Steel	GAUGE 0.022 1.18 (± 5%) LBS./SF GAUGE 0.024.9380 (± 5%) LBS./SF GAUGE 0.026.7410 (± 5%) LBS./SF
Weight - Steel	GAUGE 0.032.461 (± 5%) LBS./SF GAUGE 0.04.576 (± 5%) LBS./SF GAUGE 0.05.716 (± 5%) LBS./SF GAUGE 0.063.920 (± 5%) LBS./SF
Sheet Lengths	Standard: 10' (120")
Sheet Widths	Standard - 4'(48")
Recycled Content	Carlisle Architectural Metal Products contribute to LEED programs. Recycle content is updated often. Check with your local Manufacturer's Representative for current information.

*All materials may not be available in all colors, gauges, or widths. Contact Carlisle SynTec Systems for additional information.

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