

SPECIFICATION DATA

Standing Seam Metal Roofing Panels 07 41 13



This specification data sheet supplied by Drexel Metals Inc. as a point of reference for our Pre-Finished Steel and Aluminum Sheet and Coil.

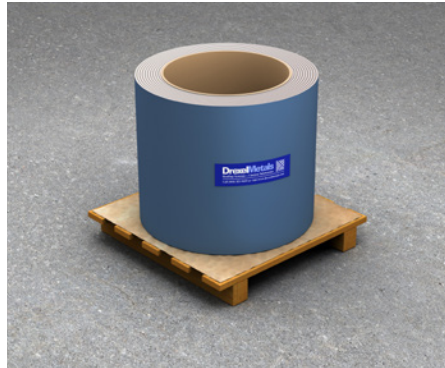
DESCRIPTION

Drexel Metals offers two types of pre-painted substrates:

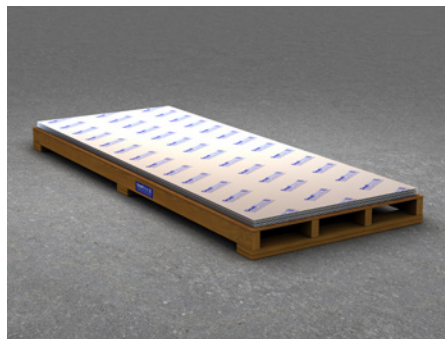
- Our steel products are made of Galvalume®, an Aluminum / Zinc coated carbon steel and is extra smooth, minimum spangle, tension leveled.
- Our aluminum are made of prime grade aluminum, typically with an alloy of 3003 or 3105 and a temper of H14 or H24 depending on the application.
- Drexel Metals uses full strength Hylar 5000™/Kynar 500® (contains a minimum of 70% Hylar /Kynar polyvinylidene fluoride (PVDF) resins) manufactured by Valspar. Our premium Fluoropon fluoropolymer 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) and our 0.5 dry film thickness polyester stenciled backer to complete traceability.

Drexel Metals PVDF Coated Galvalume® Steel and Aluminum Architectural Sheet & Coil is for general sheet metal use in building applications and can be utilized for fascia panels, soffits, gravel stops, copings, and roofing such as flat seam, standing seam, batten seam, and mansards.

DREXEL METALS COIL PRODUCT



DREXEL METALS FLAT SHEET



MANUFACTURER

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PRODUCT DESCRIPTION

Since 1985, Drexel Metals has provided a full range of superior quality engineered metal roofing systems, equipment and custom fabrication services for commercial, governmental, industrial, historical and architectural customers worldwide. Headquartered in Louisville, KY, the company operates several sales, fabrication and distribution locations, in addition to its extended family of Regional

Manufacturers (DM-ARM) network of certified contractors and distributors who further market Drexel Metals proven-brand products, all fully backed and site-certified by Drexel Metals' industry-leading warranty programs.

Manufacturer Memberships and Affiliations:

- MCA - Metal Construction Assoc.
- CSI - Construction Specifiers Institute
- AIA - American Institute of Architects
- NRCA - National Roofing Contractors Association
- FRSA - Florida Roofing and Sheet Metals Association.
- NERCA - New England Roofing Contractors Association
- USGBC - United States Green Build Council.
- Energy Star Partner
- US DOE EEB Hub Platform Member - Energy Efficient Buildings Hub.
- CMRC - Cool Metal Roof Council.
- UL Environmental
- ATI - Architectural Testing QA

TECHNICAL DATA

- ASTM A755M - Standard Specification for Steel Sheet, Metallic Coated by the Hot-Dip Process and Prepainted by the Coil-Coating Process for Exterior Exposed Building Products
- ASTM A792-96 - Standard Specification for Steel Sheet, 50% or 55% Aluminum-Zinc Alloy Coated by a hot dipping process.
- ASTM B-209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate
- ASTM D 2244 - Standard Practice for Calculation of Color Tolerance and Color Differences.
- ASTM D 968 - Abrasion Resistance
- AAMA 2605 - High Performance Specification for PVDF Coated Aluminum

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METHODS OF APPLICATION

- I. Install in accordance with recognized sheet metal practices and Drexel Metals details.
- II. Drexel Metals Products can be cut, formed and fastened using conventional hand, sheet metal tools and power tools.
- III. For best results cutting tools should be kept sharp, clean and in good working condition.
- IV. If the use of strippable film is used, all film should be removed from areas of concealed or joined pieces.
- V. Be aware of how tight the radius of your bends are. It is recommended $\frac{1}{64}$ " radius when fabricating hemmed components.

SURFACE FINISH

- PVDF (Kynar500® or Hylar5000®) manufactured by Valspar.
- Drexel Metals Standard and Premium Colors Available.
- Polyester, SMP and Custom

APPLICATION CHARACTERISTICS

- Film Thickness
 - Topside finish:
 - Primer (dry) = 0.20 - 0.30 mils;
 - Topcoat (dry) = 0.70 - 0.80 mils;
 - Reverse side finish:
 - Primer (dry) = 0.15 - 0.25 mils;
 - Pigmented backer (dry) = 0.30 - 0.40 mils.
- Total DFT for system = 0.90 - 1.10 mils. All measurements per ASTM D 5796.
- Topside Color: Controlled to the Master Standard by an approved Color Difference Meter or Spectrophotometer, and by visual match under daylight and horizon light of a Macbeth Daylight Booth per ASTM D 1729.

PHYSICAL PROPERTIES

- **Specular Gloss:** 10% - 35%. Determined per ASTM D 523 at a glossmeter angle of 60° or 85° (low gloss is 10% @ 85°)
- **Pencil Hardness:** Minimum pencil hardness, per ASTM D 3363, is "HB".
- **Solvent Resistance:** Passes minimum of 100 double rubs of a MEK soaked cloth, per ASTM D 5402.
- **Cross-Hatch Adhesion:** No paint removal with Scotch #610 cellophane tape after cross-scoring with eleven horizontal and eleven vertical lines 1 mm apart, per ASTM D 3359.
- **Impact Resistance:** No visible paint removal with Scotch #610 cellophane tape after direct and reverse impact of 80-inch pounds, using $\frac{5}{8}$ " steel ball on a Gardner Impact Tester, per ASTM D 2794.
- **T-Bend Adhesion:** Per ASTM D 4145, no loss of adhesion when taped with Scotch #610 cellophane tape when subjected to a 2T-Bend.

TESTING DATA

- **Humidity Resistance:** No blistering, cracking, peeling, loss of gloss or softening of the finish after 2000 hours (HDG, Galvalume) or 3000 hours (Aluminum) of exposure to 100% humidity at 100°F ± 5°F, per ASTM D 2247.
- **Cleveland Condensing:** No blistering, rusting or loss of adhesion of the finish after 1500 hours (Galvalume) or 3000 hours (Aluminum) of exposure at 120°F, per ASTM D 4585.
- **Water Immersion Resistance:** Samples immersed in distilled water at 100°F per ASTM D 870 will exhibit no loss of gloss, blistering, cracking or color change after 500 hours.

- **Salt Spray Resistance:** Samples diagonally scored and subjected to 5% neutral salt spray for 1000 hours (HDG, Galvalume) or 3000 hours (Aluminum), per ASTM B 117, then taped 1 hour after removal from the test cabinet with Scotch #610 cellophane tape, exhibit no blistering, no loss of adhesion and scribe creep no greater than $\frac{1}{8}$ ".
- **Chemical Resistance:** No significant color change after 24 hours exposure to 10% solutions of hydrochloric and sulfuric acids, per ASTM D 1308, Procedure 7.2 (spot test).
- **Kesternich Test:** No significant color change after 10 cycles in a SO2 chamber, per ASTM G 87.
- **Accelerated Weathering:** 5 Hunter ΔE maximum color change, and at least #8 chalk rating after 10,000 hours exposure, per ASTM G 151 and G 154 using UVA-340 bulbs.
- **Exterior Weathering:** Florida exposure (45° South), 5 Hunter ΔE maximum color change, per ASTM D 2244, and at least #8 chalk rating, per ASTM D 4214, Method A, after 20 years real-time exposure.
- **Abrasion Resistance:** Per ASTM D 968, Method A, Fluoropon passes 65 +/- 5 liters minimum of falling sand.
- **Flame Spread Rating:** Fluoropon displays a flame spread classification of A (Class 1) when tested in accordance with ASTM E 84.

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PRODUCT DATA

COLOR	31 Standard Colors (*) 10 Standard Low Gloss Colors (*)
TOP FINISH	Low to Medium Gloss
BOTTOM FINISH	Polyester with Drexel Metals Stencil
GAUGE: 24 Gauge	LBS./SF: .9380 (± 5%)
GAUGE: 22 Gauge	LBS./SF: 1.18 (± 5%)
GAUGE: 26 Gauge	LBS./SF: .7410 (± 5%)
GAUGE: 0.032	LBS./SF: .461 (± 5%)
GAUGE: 0.040	LBS./SF: .576 (± 5%)
GAUGE: 0.050	LBS./SF: .716 (± 5%)
GAUGE: 0.063	LBS./SF: .920 (± 5%)

PRODUCT DIMENSIONS

GAUGE: 24 Gauge	Master Coil: 40.375" / 44.375" / 48.375" (*)
GAUGE: 22 Gauge	Master Coil: 48.375" (*)
GAUGE: 26 Gauge	Master Coil: 48.375" (*)
GAUGE: 0.025	Master Coil: 48.000" (*)
GAUGE: 0.032	Master Coil: 40.500" and 48.000" (*)
GAUGE: 0.040	Master Coil: 48.000" (*)
GAUGE: 0.050	Master Coil: 48.000" (*)
GAUGE: 0.063	Master Coil: 48.000" (*)

* All colors may not be available in all colors, gauges, or widths. Call Drexel Metals for additional information.

RECYCLED CONTENT

- 6.6% Post- Industrial
- 24.6% Post Consumer
- Our products contributes to LEED credit:MR 4.1



This sheet is meant only to highlight Drexel Metals products and specifications. Information is subject to change without notice. Drexel Metals takes responsibility for furnishing quality materials, which meet Drexel Metals product specification. If questions arise as to the soundness of a structure, or its ability to support a planned installation properly, the Owner should obtain opinions of competent structural engineers before proceeding. Drexel Metals accepts no liability for any structural failure or for resultant damages, and no Drexel Metals Representative is authorized to vary this disclaimer.

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