

Product Data

FLASHING & SHEET METAL | 07 60 00



PRODUCT NAME

PAC-CLAD prefinished sheet and coil aluminum and steel

MANUFACTURER

Petersen Aluminum Corporation
1005 Tonne Road
Elk Grove Village, IL 60007
P: 800-323-1960
847-228-7150
F: 800-722-7150
pac-clad.com

PRODUCT DESCRIPTION

PAC-CLAD is a pre-finished specification grade aluminum sheet or commercial-quality extra-smooth galvalume steel sheet, primed and coated with Petersen's full-strength fluoropolymer (PVDF) high-performance coating system of 1.0 mil (0.025 mm) total dry film thickness and, on the reverse side, a wash coat of 0.3 -0.4 mil (0.008-0.01 mm) dry film thickness.

BASIC USE: PAC-CLAD is for general sheet metal use in building applications, as well as formed roofing and wall panels produced by Petersen Aluminum. PAC-CLAD is frequently used in the following forms:

- ▶ Roofing and mansard panels
- ▶ Wall panels
- ▶ Fascia and soffit panels
- ▶ Gravel stops and copings
- ▶ Store front components
- ▶ Flashing and trim

MATERIALS AND FINISHES: PAC-CLAD

consists of either Aluminum Association specification ASTM B209 aluminum sheet, temper H14 or H34; hot-dipped ASTM A 653 Grade A structural quality steel sheets, or ASTM A792 Galvalume commercial weight. PAC-CLAD sheets, coil and panels are coated with a 2-coat system using a combination of 70% Kynar 500®/ Hylar 5000® polyvinylidene fluoride (PVDF), acrylic resins, pigments and solvents. The system consists of Fluoropon® top coat applied over a polyester primer. A wash coat is applied to the reverse side for additional protection.

STANDARD SIZES: Aluminum is available in .032" - .063" (0.8 – 1.6 mm) thickness in 48" (1219 mm) widths. Steel is available in 24 and 22 GA in 48" (1219 mm) widths.

COLORS: For standard colors, refer to Table on Page 2. Custom match colors are available in minimum quantities of 5000 lb (4540 kg) for standard gauges.

FINISH: Sheens available – Dull, matte and specular, gloss rating of 25-35% at 60° viewing angle.

TEXTURES AVAILABLE: Smooth

LIMITATIONS: PAC-CLAD performance depends on the integrity of the coating film. PAC-CLAD should not be used in areas of high abrasion or where it will be subject to mechanical damage.

TECHNICAL DATA

APPLICABLE STANDARDS:

- ▶ Aluminum Association Specifications for Aluminum Structures
- ▶ Specifications for Cold Formed Steel Design Manual
- ▶ American Architectural Manufacturers Assoc – AAMA 621-02

AMERICAN SOCIETY FOR TESTING & MATERIALS (ASTM)

- ▶ ASTM A792/A792M Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot Dip Process
- ▶ ASTM A755/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 B209 Standard Specification for Aluminum and Aluminum Alloy Sheet and Plate

PHYSICAL QUALITY

- ▶ ASTM B117-95 – Operating Salt Spray (Fog) Apparatus
- ▶ ASTM D 523 – Standard Test for Specular Gloss
- ▶ ASTM D 968 – Standard Test Methods for Abrasion Resistance for Organic Coatings by Falling Abrasive
- ▶ ASTM D 2244 – Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates
- ▶ ASTM D 2247 – Standard Practice for Testing Water Resistance of Coatings in 100% Relative Humidity

- ▶ ASTM D 2794 – Standard Test Method for Resistance of organic Coatings to the Effects of Rapid Deformation (Impact)
- ▶ ASTM D 4214 – Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films
- ▶ ASTM D 3363 - Standard Test Method for Film Hardness by Pencil Test
- ▶ ASTM D 4145 - Standard Test Method for Coating Flexibility of Prepainted Sheet
- ▶ ASTM D 3359 - Standard Test Methods for Measuring Adhesion by Tape Test
- ▶ ASTM D 1308 - Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes
- ▶ ASTM D 522 - Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings
- ▶ ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials

NATIONAL COIL COATERS ASSOCIATION (NCAA)

- ▶ NCAA Procedure No. 11-5
- ▶ NCAA Procedure No. 11-18
- ▶ NCAA Technical Bulletin No. 11-6

SHEET METAL & AIR CONDITIONING CONTRACTORS

NATIONAL ASSOCIATION (SMACNA) - Architectural Sheet Metal Manual

Physical Properties of Fluoropolymer Coating – See PAC-CLAD Chart on Page 2.

INSTALLATION

Methods: Fabricate and install PAC-CLAD sheet metal in accordance with SMACNA sheet metal practices. PAC-CLAD can be cut, formed, nailed, screwed or riveted using conventional hand or power tools. PAC-CLAD coatings must be mechanically removed if soldering or welding is necessary. For best results, cutting edges should be kept sharp, clean, properly dressed and closely aligned.

A strippable vinyl film can be applied for protection during fabrication and installation if necessary. Vinyl film may remain on the coating during fabrication and installation. Vinyl must be removed prior to or immediately after installation.

PAC-CLAD is a finished material; care must be taken during fabrication and erection to avoid damage to the surface. Proper bend radii must be used in fabrication.

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F: 800-722-7150

9060 Junction Drive
Annapolis Junction, MD 20701
P: 800-344-1400
F: 301-953-7627

10551 PAC Road
Tyler, TX 75707
P: 800-441-8661
F: 903-581-8592

102 Northpoint Parkway
Acworth, GA 30102
P: 800-272-4482
F: 770-420-2533

1800 S. 7th Ave., Suite 130
Phoenix, AZ 85007
P: 833-750-1935
F: 602-254-6504

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P: 253-501-2450

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AVAILABILITY & COST

AVAILABILITY: PAC-CLAD sheets are available nationwide and are stocked in standard colors and gauges. Special finishes require additional time for color matching and approvals. **Note:** 5000 pound minimum for non-standard colors. Delivery time and price to be quoted upon inquiry.

COST: Contact the manufacturer for specific cost.

WARRANTY

A 30-year non-prorated warranty covering color, fade, chalking and film integrity is available at no additional cost. Please see our website for sample warranty. Warranty terms vary slightly for Award Blue and Cardinal Red

and metallic finishes. The warranty is issued on a per-project basis upon request. Contact Petersen for specific requirements.

There is no finish warranty available on perforated materials.

MAINTENANCE

Maintenance is not required. The panel finish is a member of the Teflon family and is self-cleaning. If cleaning is desired, panels can be washed with mild soap and water followed by a clean water rinse.

TECHNICAL SERVICES

Technical services are available from Petersen Aluminum Corporation and regional architectural representatives.

STORAGE & PACKAGING

PAC-CLAD sheet and coil should be stored in a clean, dry location. Suitable facilities at the jobsite for storage and protection of the material should be provided and should be well ventilated.

Store material out of traffic areas to prevent dents, bending, abrasion, etc. Materials should be protected with waterproof paper cover – plastic should be avoided to eliminate condensation. Keep the material off the ground in an inclined position.

PAC-CLAD COLOR AVAILABILITY

REFLECTIVITY	EMISSIVITY	3-YEAR EXPOSURE	SRI	STEEL		ALUMINUM			
				24 GA.	22 GA.	.032	.040	.050	.063
0.69 to 0.04	0.89 to 0.14	0.69 to 0.04	-2 to 85	44 colors	17 colors	36 colors	23 colors	28 colors	6 colors

The chart above indicates performance ranges and availability of all PAC-CLAD colors and materials. For complete information visit pac-clad.com.

STANDARD COLORS



* Denotes PAC-CLAD Cool Color

PREMIUM COLORS



NOTE: Colors above are not exact representations of actual PAC-CLAD colors. Ask a PAC representative for a color-chip chart or painted metal samples before making final color selection.

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