



**1. Product Name**

- TITE-LOC™, TITE-LOC HS and TITE-LOC Plus Mechanical Seamed Panels
- SNAP-CLAD™ Standing Seam Panels
- Snap-On and High Snap-On Standing Seam Panels
- Redi-Roof and Redi-Roof Batten Standing Seam Panels
- Integral Standing Seam and Integral Batten Panels
- Flush Panels
- PAC-750 and PAC-850 Soffit Panels
- Exposed Fastener Panels
- Tegola Prestige and Tegola ZT Tiles

**2. Manufacturer**

Petersen Aluminum Corp.  
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**3. Product Description**

**BASIC USE**

Petersen Aluminum produces a wide variety of wall and soffit panels in addition to a complete line of metal roofing panels. All standing seam panels are Herr-Voss corrective leveled. Standing seam, flush, M & R panels and wall and soffit panels are all factory formed in continuous lengths up to 50' (15.3 m). Longer lengths are available. Matching flashing and trim can be factory- or field-formed from PAC-CLAD material.

**MATERIALS & FINISHES**

PAC-CLAD is a versatile prefinished sheet metal coating (Kynar 500® or Hylar 5000®) that is applied to both G90 galvanized steel and 3105-H14 aluminum. Originally developed for use in abrasive environments, PAC-CLAD is also ideally suited for application in roofing, curtain wall, storefront and trim applications.

**TITE-LOC, TITE-LOC HS and TITE-LOC Plus**

- G90 hot-dipped galvanized steel - 24 or 22 gauge
- Aluminum - 0.032 3105-H14 and 0.040 3105-

**H14 (TITE-LOC and TITE-LOC Plus)**

- Widths - 12", 16" and 18" (305, 406 and 457 mm)

**SNAP-CLAD Panels**

- G90 hot-dipped galvanized steel - 24 or 22 gauge
- Aluminum - 0.032 3105-H14 and 0.040 3105-H14
- 16 oz cold-rolled copper

**Snap-On and High Snap-On Panels**

- G90 hot-dipped galvanized steel - 24 gauge
- Aluminum - 0.032 3105-H14

**Redi-Roof and Redi-Roof Batten Panels**

- G90 hot-dipped galvanized steel - 24 or 22 gauge
- Aluminum - 0.032 3105-H14 (or equal)
- 16 oz cold-rolled copper

**Integral Panels**

- G90 hot-dipped galvanized steel - 24 gauge
- Aluminum - 0.032 3105-H14

**Flush Panels**

- G90 hot-dipped galvanized steel - 24 or 22 gauge
- Aluminum - 0.032 3105-H14 and 0.040 3105-H14 or equal

**PAC-750 and PAC-850 Soffit Panels**

- Aluminum - 0.032 3105-H14

**Exposed Fastener Panels**

- G90 hot-dipped galvanized steel - 24 gauge
- Aluminum - 0.032 3105-H14

**TYPES**

**TITE-LOC™, TITE-LOC Plus and TITE-LOC HS Panels**  
 TITE-LOC panels combine structural performance with architectural panel aesthetics. A factory-applied sealant bead offers additional weather resistance. The minimum panel length is 4' (1.2 m). TITE-LOC panels feature a 2" (51 mm) leg height that requires mechanical field seaming after installation. Panels include a concealed fastener floating clip system designed to allow for thermal expansion/contraction.

Both panels carry a UL 90 classification over a wide variety of substrates and assemblies, including 5/8" (15.9 mm) plywood, purlins and rigid insulation in conjunction with bearing plates (UL design numbers 90, 176, 180 238B, 437, 449, 451, 452, 487, 616, and 617).

TITE-LOC and TITE-LOC HS panels are factory formed to lengths and field-seamed to a 90 degree lock, while TITE-LOC Plus panels are designed to be field-seamed to a 180 degree lock.

TITE-LOC panels are designed for application on roof slopes as low as 1/2:12 pitch. As an additional labor saver, the TITE-LOC panels are designed to travel up and down slope during installation. TITE-LOC Plus panels are designed for application over a wide variety of substrates. Additional features include:

- Continuous interlock
- Labor-saving one-piece design
- Striations and factory eave notching
- Smooth and stucco embossed finishes available

**SNAP-CLAD™ Panels**

Offering architectural panel aesthetics, as well as structural panel performance, SNAP-CLAD panels feature a 1 3/4" (44.5 mm) leg height and a continuous interlock for improved structural performance. A factory-applied sealant bead provides additional weather resistance. The minimum panel length is 4' (1.2 m).

A concealed fastener clip system has been designed to allow for thermal expansion/contraction while providing extraordinary hold-down strength. Two clips are available: a standard clip for most mansard and fascia applications and a high-performance clip for roofing application and UL 90 rated assemblies.

SNAP-CLAD panels carry a UL 90 classification over a wide variety of substrates and assemblies, including 5/8" (15.9 mm) plywood, purlins and rigid insulation in conjunction with bearing plates (UL design numbers 254, 255, 261, 303, 343, 508, 508A, and 614). A minimum slope of 3:12 pitch is recommended on most applications.

Additional features include:

- Continuous interlock
- Labor-saving one-piece design
- Striations and factory eave notching
- Stiffener beads
- Smooth and stucco embossed finishes available
- Galvalume® Plus available

**Snap-On and High Snap-On Panels**

These panels are designed for use in roofing, mansard and fascia applications and should be installed over a waterproofed solid substrate with a minimum 3:12 roof pitch. Factory roll formed in continuous lengths, Snap-On panels are ideal for specification on applications where roof transitions are required. The simplicity of the pan design, combined with in-line tension leveling, provides superior flatness and allows for greater workability onsite.

Both panels carry a UL 90 rating for wind uplift when fastened on an underlayment

assembly, including 5/8" (15.9 mm) plywood or OSB laminated to rigid insulation (UL design numbers 351 and 352). This is one of the few UL 90 systems that does not require sealant between plywood boards.

The 1" (25.4 mm) Snap-On standing seam panel can now be curved to a concave or convex radius, with a minimum radius of 9' (2.7 m). This panel is ideal for barrel vaults and entranceways. Curved panels must be installed over a waterproofed solid substrate. The High Snap-On profile features a 1 1/2" (38.1 mm) standing seam. Unlike the Snap-On panel, this panel cannot be curved. Additional features include:

- Stiffener beads available
- Smooth and stucco embossed finishes available
- Galvalume Plus available

**Redi-Roof and Redi-Roof Batten Panels**

This architectural metal roofing system, which is available exclusively from Petersen Aluminum, may be specified in either batten or standing seam profile and is intended for application over a solid substrate with a minimum 3:12 roof pitch. Typical underlayments include plywood, nailboard insulation or equal. The minimum panel length is 4' (1.2 m).

Steel Redi-Roof panels carry a UL 90 rating for wind uplift when fastened on an underlayment assembly, including 5/8" (15.9 mm) plywood or OSB laminated to rigid insulation (UL design numbers 350, 353 and 615). Additional features include:

- Labor-saving one-piece design
- Factory eave notching
- Stiffener beads
- Smooth and stucco embossed finishes available
- Galvalume Plus available

**Integral Standing Seam and Integral Batten Panels**

PAC-CLAD Integral panels are designed for roofing applications, mansards, canopies and fascia. The one-piece design of the Integral panels minimizes labor and allows for quick and easy installation. The minimum panel length is 4' (1.2 m).

Steel PAC-CLAD Integral panels carry a UL 90 classification for wind uplift when fastened to an underlayment assembly, including 5/8" (15.9 mm) plywood or OSB laminated to rigid insulation (UL design numbers 346 and 347). Additional features include:

- Smooth and stucco embossed finishes available

- Galvalume Plus available

**Flush Panels**

PAC-CLAD Flush panels are designed for use as vertical wall panels, fascia and soffit applications where a flush or flat appearance is desired. A rounded interlock leg and concealed fastening system improve the flush appearance while providing additional strength.

These panels are not intended for use in roofing or mansard applications. Panels are factory-formed to length to minimize field cutting. The minimum panel length is 4' (1.2 m).

The Flush panels are available with optional stiffening beads, which are recommended for longer panel lengths. One, 2 or 3 beads are available. Flush panels may also be specified for use as soffit panels. The soffit version of this panel is not available vented. Additional features include:

- Rounded interlock leg providing improved flush fit
- Galvalume Plus available

**PAC-750 and PAC-850 Soffit Panels**

PAC-750 preformed soffit panels are suitable for both commercial and residential use. PAC-850 soffit panels utilize an innovative hook-and-grab interlock. Both panels are roll-formed of 0.032 gauge aluminum, and both panels are 12" (305 mm) wide with a "vee" groove every 6" (152 mm) center-to-center. They are furnished in continuous lengths up to 20' (6.1 m). Steel is not available in either profile.

The PAC-750 and PAC-850 soffit panels can be perforated to allow for airflow and under eave ventilation. Both PAC-750 and PAC-850 can be specified as fully vented, half vented or solid. Petersen Aluminum can provide a soffit "J" channel as trim to match any of their soffit panels. "J" channel is available in lengths up to 12' (3.7 m) in matching colors. Additional features include:

- Perforation available for ventilation (PAC-750 and PAC-850)
- Roll-formed to exact lengths
- Galvalume Plus available

**Exposed Fastener Panels**

These panels are exposed fastener utility panels that are excellent for use on walls, equipment screens and parapet wall applications. An additional 6" (152 mm) of coverage area has been added to improve installation efficiency of the M panel. An additional 5" (127 mm) of coverage area has been added to improve installation efficiency of the R panel.

Additional features include:

- Matching screws and rivets
- Closure strips available
- Precut short lengths - 2' (0.61 m) minimum
- Kynar 500, Galvalume Plus

**Tegola Prestige and Tegola ZT Tiles**

Tegola Prestige is a water-cut tile that is fully clad in copper, including the edges. The Prestige line is available in 3 systems to address a wide range of design requirements: Prestige Elite, Prestige Compact and Prestige Traditional. These high-tech roofing tiles combine the beauty of copper with the stability of fiberglass and bitumen.

Prestige tiles are coated with a 70 micron-thick 99.7% copper foil. Like all copper, when exposed to the atmosphere, Prestige tiles will develop a distinguishing protective green patina. The green patina adds strength and durability, providing a long, maintenance-free life of the roof.

ZT Compact, a zinc-titanium tile, consists of 8 layers of different materials and is 5 mm thick. The large dimension tiles are emphasized by the zinc joint covers. Stagger the ZT Compact tiles to create different patterns to suit any design. When exposed to the elements, zinc-titanium develops a gray/light blue patina to reveal a "satin" finish. Additional features include:

- Exceptional weather resistance
- Long, maintenance-free life
- Lightweight, strong and durable

**SIZES**

**TITE-LOC, TITE-LOC HS and TITE-LOC Plus Panels**

- Widths - 12", 16", 18" - (305, 406, 457 mm)
- Height - 2" (51 mm)

**SNAP-CLAD Standing Seam Panels**

- Widths - 10", 12", 16", 18" - (254, 305, 406, 457 mm)
- Height - 1 3/4" (44.5 mm)

**Snap-On Standing Seam Panels**

- Width - 12", 18", 19", 20" (305, 457, 483, 508 mm)
- Height - 1" (25.4 mm)

**Snap-On Batten Panels**

- Width - 11", 12", 18" (279, 305, 457 mm)
- Height - 1 1/2" (38.1 mm)

**High Snap-On Panels**

- Width - 11", 18", 19" (279, 457, 483 mm)
- Height - 1 1/2" (38.1 mm)

**Redi-Roof Standing Seam Panels**

- Widths - 12", 16", 18" - (305, 406, 457 mm)
- Height - 1 9/16" (40 mm)



**Redi-Roof Batten Panels**

- Width - 12" (305 mm)
- Height - 1 1/4" (32 mm)

**Integral Panels**

- Width - 11", 12", 18" (279, 305, 457 mm)
- Height - 1 1/2" (38.1 mm)

**Flush Panels**

- Width - 7", 11", 18" (178, 279, 457 mm)
- Height - 1" (25.4 mm)

**Flush Panels (Soffit)**

- Width - 7", 11" (178, 279 mm)
- Height - 1" (25.4 mm)

**PAC-750 and PAC-850 Soffit Panels**

- Width - 12" (305 mm)

**M-42 Exposed Fastener Panels**

- Width - 42" (1067 mm)
- Height - 3/4" (19.1 mm)

**M-36 Exposed Fastener Panels**

- Width - 36" (914 mm)
- Height - 1/2" (12.7 mm)

**R-41 Exposed Fastener Panels**

- Width - 41" (1041 mm)
- Height - 1 1/4" (31.8 mm)

**R-36 Exposed Fastener Panels**

- Width - 36" (914 mm)
- Height - 1 1/4" (31.8 mm)

**7.2 Exposed Fastener Panels**

- Width - 36" (914 mm)
- Height - 1 1/2" (38.1 mm)

**1/2" Corrugated Exposed Fastener Panels**

- Width - 40" (1016 mm)
- Height - 1/2" (12.7 mm)

**7/8" Corrugated Exposed Fastener Panels**

- Width - 34.6" (879 mm)
- Height - 7/8" (22.2 mm)

**Tegola Prestige**

- 39 3/8" x 13 3/8" (1000 x 340 mm)

**Tegola ZT Tiles**

- 39 3/8" x 13 3/8" (1000 x 340 mm)

**FLASHING & TRIM**

All flashing and trim are fabricated by manufacturer or a qualified fabricator. Flashing can be specified as 0.032 - 0.080 gauge PAC-CLAD aluminum or 24 gauge or 22 PAC-CLAD steel.

**COLORS**

TITE-LOC, SNAP-CLAD, Snap-On, Redi-Roof, Flush panels and PAC-750 and PAC-850 soffit systems are available in the following: 36 standard colors (24 gauge steel); 11 standard colors (22 gauge steel); and 34 standard colors (aluminum).

Integral panels are available in 42 standard colors (24 gauge steel) and 37 standard colors (aluminum).

M & R panels are available in 36 standard colors (24 gauge steel) and 34 standard colors (aluminum).

**ACCESSORIES**

Petersen Aluminum fabricates a wide range of roofing accessories. Coping, gravel stops, gutters and downspouts are all formed from 42 standard PAC-CLAD colors. Petersen Aluminum is also a distributor of Follansbee TCS.

**LIMITATIONS**

- Redi-Roof Batten panels cannot be lapped in the field
- M & R panels are not intended for use in the construction of metal buildings or in structural roof applications

**4. Technical Data**

**ASTM International**

- ASTM A653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
- ASTM A792/A792M Standard Specification for Steel Sheet, 55 % Aluminum-Zinc Alloy-Coated by the Hot-Dip Process
- ASTM B209 Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate
- ASTM E283 Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
- ASTM E331 Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
- ASTM E1592 Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference
- ASTM E1646 Standard Test Method for Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference
- ASTM E1680 Standard Test Method for Rate of Air Leakage Through Exterior Metal Roof Panel Systems

**Factory Mutual (FM) - FM Class I-90**

**Underwriters Laboratories, Inc. (UL)**

- UL 263 Fire Tests of Building Construction and Materials

- UL 580 Standard for Tests for Uplift Resistance of Roof Assemblies
- UL 790 Standard Test Methods for Fire Tests of Roof Coverings
- UL 1897 Uplift Tests for Roof Covering Systems
- UL 2218 Standard for Impact Resistance of Prepared Roof Covering Materials

**ENVIRONMENTAL CONSIDERATIONS**

Metal roofing products are generally recyclable upon building demolition.

**PHYSICAL PROPERTIES**

**Air and Water Infiltration**

- TITE-LOC and TITE-LOC Plus - ASTM E283, E331, E1646, E1680
- SNAP-CLAD - ASTM E283, E331, E1646, E1680
- Snap-On and High Snap-On - ASTM E283, E331 (when applied over a solid substrate)
- Redi-Roof and Redi-Roof Batten - ASTM E283, E331 (when applied over a solid substrate)
- Integral Panels - ASTM E283, E331 (when applied over a solid substrate)

Test reports are available to design professionals upon request.

**5. Installation**

**PREPARATORY WORK**

Handle and store product according to manufacturer's recommendations.

Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact. Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

Verify that site conditions are acceptable for installation. Do not proceed with installation until unacceptable conditions are corrected.

**METHODS**

Contact Petersen Aluminum for complete installation information.

**PRECAUTIONS**

In coastal applications, Petersen Aluminum recommends that stainless steel clips be used with prefinished aluminum in lieu of prefinished steel.

**BUILDING CODES**

Current data on building code requirements and product compliance can be obtained from Petersen Aluminum technical support specialists. Installation must comply with the requirements of all applicable local, state and national code jurisdictions.

**6. Availability & Cost****AVAILABILITY**

Contact manufacturer for information on local availability.

**COST**

Budget installed cost information can be obtained from the manufacturer upon request.

**7. Warranty**

A 20 year, non-prorated warranty covering color, fade, chalking and film integrity is available at no additional cost. The warranty is issued on a per project basis upon request.

Contact the manufacturer for complete warranty details.

**8. 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.

**9. Technical Services**

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

**10. Filing Systems**

- SmartBuilding Index
- MANU-SPEC®
- Additional product information is available from the manufacturer upon request.