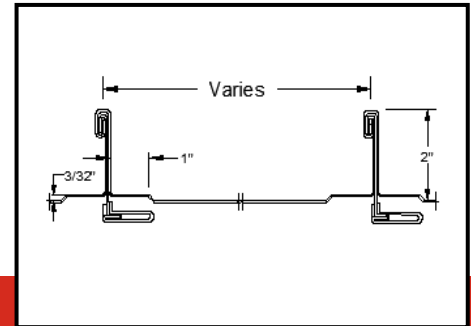


TECHNICAL INFORMATION SHEET

UNA-CLAD™ UC-6

Item Description

Standing Seam Panel For Architectural Metal Roofing



Product Information

Description:

Firestone UNA-CLAD UC-6 Double-Lock Standing Seam roofing panel utilizes the proven seaming process of Pittsburgh Locking in conjunction with the floating action of a concealed clip assembly. This design allows for expansion & contraction caused by natural elements, providing a virtually leak proof roof with exceptional wind uplift ratings. An optional thermally-applied pre-assembly in-seam sealant is available. The minimum slope requirement for a Firestone Red Shield Warranty is 3:12. For warranty requirements for slopes between 3:12 and 1:12, please contact your Roof System Advisor.

Method of Application:

1. Firestone UC-6 panels must be installed in a sequential order.
 2. Application of a Firestone underlayment prior to panel installation is recommended when installed over a solid substrate.
 3. Panels must be locked in the field by a mechanical seamer.
- NOTE: *Install assembly according to Firestone Metal Design and Application Guides found on the Firestone website. Follow approved installation details.*

Storage:

- Firestone metal panels should be stored in a well ventilated, dry place where no moisture can contact them. Moisture (From rain, snow, condensation, etc.) trapped between layers of material may cause water stains or white rust, which can affect the service life of the material and will detract for the appearance.
- If outdoor storage cannot be avoided, protect the panels with a ventilated canvas or waterproof paper cover. Do not use plastic, which can cause condensation. Keep the material off the ground in an inclined position with an insulator such as wood. Protective film may degrade or become brittle with long term exposure to direct sunlight.

Precautions:

- Oil canning is not a cause for rejection. Heavier gauges, narrower widths, striations, and embossing minimize oil canning.
- Ensure the mechanical seamer is properly adjusted prior to field seaming to reduce the risk of seam damage.
- Firestone recommends a minimum bend radius of 2T. Anything less than a 2T bend radius can cause crazing to the material.
- Sealant for end laps and lap joints shall be non-drying, non-toxic, and non-shrinking with a serviceable temperature of -60 to 212 °F (-51 to 100 °C).
- Quality, long-life butyl sealants work best as a gasket sandwiched between two pieces of metal. Non-acetic cured silicone color matching sealants are recommended when voids must be filled. Sealants are not a substitute for proper assembly and workmanship.
- Exercise caution when lifting, moving, transporting, storing or handling Firestone metal to avoid possible physical damage.
- Refer to Safety Data Sheets (SDS) for safety information.
- Immediately remove protective film after installation.

TECHNICAL INFORMATION SHEET

UNA-CLAD™ UC-6

Manufacturing Location:
Anoka, MN



Product Data

| | |
|-------------------------|--|
| Tapered Panels: | No |
| Radius Panels: | Yes* 8' (2438 mm) minimum, Convex Only* |
| Stiffening Ribs: | Optional* |
| Striations: | Optional* |
| Sealant: | Optional In-Seam, Thermally Applied |
| Standard Panel Surface: | Smooth |
| Optional Panel Surface: | Stucco Embossed |
| Clip: | UC-6 Low-Float Clip, UC-6 Super Clip & UC-6 Fixed Clip |

Product Size

| | |
|-----------------------|--------------------------------|
| Panel Width: | 8" (203.2 mm) – 24" (609.6 mm) |
| Optimal Panel Width: | 18" (457.2 mm) |
| Seam Height: | 2" (50.8 mm) |
| Minimum Panel Length: | 36" (914.4 mm) |
| Maximum Panel Length: | 600" (15.24 m) |

Technical Information

| | |
|--|--|
| Up lift Resistance: | UL 580 Class 90 |
| Air Infiltration: | ASTM E 1680 |
| Uniform Static Air Pressure : | ASTM E 1592 |
| Water Penetration: | ASTM E 1646 |
| Fire Rating: | UL Class A Rated Assemblies, UL 263 and UL 790 |
| Hail Impact Rating: | Class 4, UL 2218 |
| Miami-Dade County & Florida Building Code: | Approved |

NOTE: * Not Manufactured at all Facilities.

Testing is not applicable for all combinations of substrates, materials, and dimensions. All construction assemblies must be installed in accordance with the tested assembly. Please refer to the Metal Code Approval Guide on the Firestone website for tested assemblies and code listings.

Please contact your Building Systems Advisor for warranty requirements and additional information.

UNA-CLAD™ UC-6

Typical Properties

| Material and Thickness | Metal Specification: | Available Finishes: |
|--------------------------------------|--|---|
| Aluminum | Base Metal: Aluminum Minimum Yield: 21 KSI (145 MPa) Thermal Expansion: 12.6×10^{-6} in/in/ °F ($22.2 \text{ m/m.K} \times 10^{-6}$) Mod. Of Elasticity: 10.0×10^3 x KSI (68.9 MPa) | Anodized Kynar 500®/Hylar 5000® Unpainted/Mill Finish |
| 0.032" (0.81 mm) | | |
| Galvanized Steel | Base Metal: AISI-G90 Galvanized steel Minimum Yield: 33 to 45 KSI (227 to 310 MPa) Thermal Expansion: 06.7×10^{-6} in/in/ °F ($13.9 \text{ m/m.K} \times 10^{-6}$) Mod. Of Elasticity: 29.0×10^6 x KSI (200 GPa) | Kynar 500®/Hylar 5000® Unpainted G90 |
| 26 ga. (0.48 mm) | | |
| 24 ga. (0.64 mm) 22 ga. (0.79 mm) | | |
| Galvalume® Steel | Base Metal: AZ-55 Hot Dipped Galvalume Minimum Yield: 50 KSI (345 MPa) Thermal Expansion: 06.7×10^{-6} in/in/ °F ($13.9 \text{ m/m.K} \times 10^{-6}$) Mod. Of Elasticity: 29.0×10^6 x KSI (200 GPa) | Acrylume® – Clear Acrylic Coated Kynar 500®/Hylar 5000® |
| 26 ga. (0.48 mm) | | |
| 24 ga. (0.64 mm) 22 ga. (0.79 mm) | | |
| Copper | AGSC minimum copper content of 99.9% copper, silver counting as copper, cold rolled from ingots of 122 alloy. Thermal Expansion: 9.3×10^{-6} in/in/ °F ($16.5 \text{ m/m.K} \times 10^{-6}$) AGSC copper meets and/ or exceeds ASTM B370 specification. | Natural |
| 16 ga. (0.56 mm) 20 ga. (0.69 mm) | | |
| Zinc | RHEINZINK®: Electrolytic high-grade, 99.9% pure, fine zinc (DIN EN 1179) titanium copper alloy. Certified according to DIN ISO 9001: 1994 Thermal Expansion: 2.2 mm/m x 100K ($16.5" \times 10^{-6}$ in/in/ °F) | Shiny Pre-weathered Blue-Gray Pre-weathered Graphite Gray |
| 0.028" (0.7 mm) 0.032" (0.8 mm) | | |

NOTE: For standard color selection, consult the current UNA-CLAD Color Selection Guide. Custom color services are available upon request. Consult the current base metal Sheet & Coil TIS for additional information on the base metal and coating. Not all materials and thicknesses are available from all locations.

Please contact Quality Building Services Technical Department at 1-800-428-4511 for further information.

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