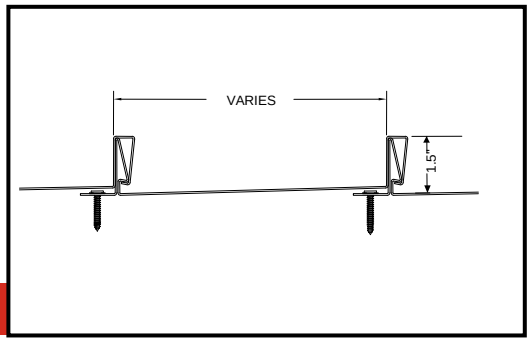
UNA-CLAD™ UC-4



Item Description
Standing Seam Panel For Architectural Metal Roofing

Product Information

Description:

Firestone UNA-CLAD UC-4 Roofing Panel is a patented self-locking, architectural standing seam metal roof panel that completely eliminates the need for clips. The 1½" high panel seams snap together for easy installation. No mechanical seaming tools or clips required. 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. A smooth, solid substrate of plywood, OSB, or a rigid insulation board mechanically attached to a steel deck is recommended for the Firestone UC-4 metal roof panel.
2. Firestone UC-4 panels must be installed in a sequential order.
3. Application of a Firestone approved underlayment prior to panel installation is recommended.
4. Use Firestone fasteners that contain a nylon washer to allow for thermal movement and to minimize oil canning.
   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.
- 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.

UNA-CLAD™ UC-4

Manufacturing Location:

Anoka, MN

Product Data

Tapered Panels:	No
Radius Panels:	No
Stiffening Ribs: Striations: Sealant:	Optional Optional Optional In-Seam, Thermally Applied
Standard Panel Surface: Optional Panel Surface: Clip:	Smooth Stucco Embossed No Clip Required

Product Size

Panel Width: Optimal Panel Width:	8" (203.2 mm) – 24" (609.6 mm) 9.75" (247.7 mm) & 17.75" (450.8 mm)
Seam Height: Minimum Panel Length: Maximum Panel Length:	1.5" (38.1 mm) 36" (914.4 mm) 600" (15.24 m)

Technical Information

Uplift Resistance: Air Infiltration: Structural Performance:	UL 580 Class 90 ASTM E 283 & E 1680 ASTM E 330 & E 1592
Water Penetration: Fire Rating: Hail Impact Rating: Miami-Dade County & Florida Building Code:	ASTM E 331 & E 1646-95 UL Class A Rated Assemblies, UL 263 and UL 790 Class 4, UL 2218 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.

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Typical Properties

Material and Thickness	Metal Specification:	Available Finishes:
Aluminum 0.032" (0.81 mm) 0.040" (1.02 mm)	Base Metal: Aluminum Minimum Yield: 21 KSI (145 MPa) Thermal Expansion: 12.6 x 10^{-6} in/in/ °F (22.2 m/m.K x 10^{-6}) Mod. Of Elasticity: 10.0 x 10^{3} x KSI (68.9 MPa)	Anodized Kynar 500®/Hylar 5000® Unpainted/Mill Finish
Galvanized Steel 26 ga. (0.48 mm) 24 ga. (0.64 mm) 22 ga. (0.79 mm)	Base Metal: AISI-G90 Galvanized steel Minimum Yield: 33 to 45 KSI (227 to 310 MPa) Thermal Expansion: 06.7 x 10^{-6} in/in/ °F (13.9 m/m.K x 10^{-6}) Mod. Of Elasticity: 29.0 x 10^{6} x KSI (200 GPa)	Kynar 500®/Hylar 5000® Unpainted G90
Galvalume® Steel 26 ga. (0.48 mm) 24 ga. (0.64 mm) 22 ga. (0.79 mm)	Base Metal: AZ-55 Hot Dipped Galvalume Minimum Yield: 50 KSI (345 MPa) Thermal Expansion: 06.7 x 10^{-6} in/in/ °F (13.9 m/m.K x 10^{-6}) Mod. Of Elasticity: 29.0 x 10^{6} x KSI (200 GPa)	Acrylume® – Clear Acrylic Coated
Copper 16 ga. (0.56 mm) 20 ga. (0.69 mm)	AGSC minimum copper content of 99.9% copper, silver counting as copper, cold rolled from ingots of 122 alloy. Thermal Expansion: 9.3 x 10^{-6} in/in/ °F (16.5 m/m.K x 10^{-6}) AGSC copper meets and/ or exceeds ASTM B370 specification.	Natural

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.