



UNA-CLAD UC-4

STANDING SEAM PANEL FOR ARCHITECTURAL
METAL ROOFING

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 panel is available in a wide variety of materials and finishes including Kynar® coated G-90 Galvanized steel, AZ-50 Galvalume® steel, and Aluminum, as well as Copper. The 1 1/2" 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.

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 pattern.
3. Application of a Firestone approved underlayment prior to panel installation is recommended.
4. Panel installation with Firestone fasteners that contain a nylon washer allows for thermal movement and minimizes oil canning.

Note: Install assembly according to Firestone Metal Design and Application Guides found on the Firestone website. Follow approved installation details.

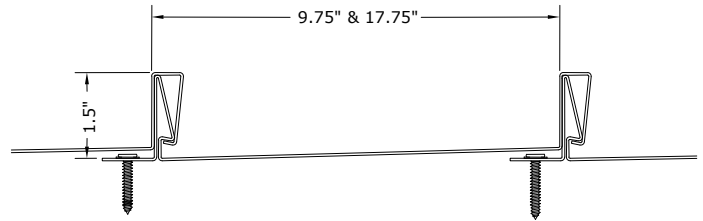
STORAGE:

1. 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 from its appearance.
2. 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:

1. Oil canning is not a cause for rejection.
2. Heavier gauges, narrower widths, striations, stiffening ribs and embossing minimize oil canning.
3. 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).
4. 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.
5. Exercise caution when lifting, moving, transporting, storing or handling Firestone metal to avoid possible physical damage.
6. Refer to Material Safety Data Sheets (MSDS) for safety information.
7. Immediately remove protective film after installation.

FIRESTONE RED SHIELD & MEDALLION WARRANTY AVAILABLE†



PRODUCT DATA

Panel Type:	Standing Seam
Panel Interlock:	Integral Snap Lock
Tapered Panels:	No
Minimum Slope:	3:12
Radiused:	No
Stiffening Ribs:	Optional
Striations:	Optional
Sealant:	Optional In-Seam, Thermally Applied †
Standard Panel Surface:	Smooth
Optional panel Surface:	Stucco Embossed
Clip:	NO CLIP REQUIRED
Substrate:	Solid Substrate

PANEL SIZE

Panel Width:	9.75" - 17.75" (247.6 mm - 450.8 mm)
Optimal Panel Width:	9.75" & 17.75" (247.6 mm & 450.8 mm)
Seam Height:	1.5" (38.1 mm)
Min. Panel Length:	24" (609.6 mm)
Max. Panel Length:	600" (15,240 mm)

TECHNICAL INFORMATION

Uplift Resistance:	UL 580 Class 90
Air Infiltration:	ASTM E283 & E1680-95
Water Penetration:	ASTM E331 & E1646-95
Structural Performance:	ASTM E330 & E1592
Fire Rating:	UL Class A Rated Assemblies UL 263, UL 790
Hail Rating:	Class 4, UL 2218
Miami-Dade County & Florida Building Code:	Approved

†See the Firestone Metal Roof System Design Guide for **Red Shield Warranty** requirements.

Note: Testing not applicable for all substrates, materials, and dimensions. All systems with test listings must be installed in accordance with the assembly tested. Refer to Firestone Website for available code listings.

TECHNICAL INFORMATION SHEET

2004
3/11/2010

Firestone
BUILDING PRODUCTS COMPANY

UNA-CLAD UC-4

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METAL ROOFING

MATERIAL & 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: 12.6×10^{-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
GALVANIZED STEEL 26 ga. (0.48 mm) 24 ga. (0.64 mm) 22 ga. (0.79 mm)	Base Metal: AISA-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®
GALVALUME® STEEL 24 ga. (0.64 mm)	Base Metal: AZ-50 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)	Kynar 500®/Hylar 5000® Unpainted G90
GALVALUME STEEL 26 ga. (0.48mm) 24 ga. (0.64mm) 22 ga. (0.79mm)	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
COPPER 16 oz (0.56 mm) 20 oz (0.69 mm)	AGSC minimum copper content of 99.9% copper, silver counting as copper, cold rolled from ingots of 122 alloy. Thermal Expansion: 9.3×10^{-6} in/in/F° ($16.5 \text{ m/m.K} \times 10^{-6}$) AGSC copper meets and/ or exceeds ASTM B370 specification.	Natural Patriot Green™ Freedom Gray™

*Note: Consult current UNA-CLAD Color Selection Guide
 Custom color services available upon request
 Consult current base metal Coil & Flatsheet T.I.S. for additional information on the base metal and coating.
 Not all materials and thicknesses are available from all locations. Contact Firestone Roof Solutions for additional information.*

Manufacturing Locations: Anoka MN
 College Park, GA
 Jackson, MS
 Miramar, FL
 Morrisville, PA
 Reno, NV
 Warren, MI



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