

Firestone
BUILDING PRODUCTS COMPANY

UNA-CLAD UC-1

STANDING SEAM PANEL FOR ARCHITECTURAL
METAL ROOFING

DESCRIPTION:

Firestone UNA-CLAD UC-1 Roofing Panel is a factory formed, snap-on batten, architectural standing seam metal roof panel. The UC-1 roofing panel offers the designer a thin-line appearance along with concealed fasteners and hold down clips to allow for freedom of thermal movement. The panel is available in a wide variety of materials and finishes including Kynar™ coated G-90 Galvanized Steel and Aluminum, Copper and Zinc.

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-1 metal roof panel.
2. Firestone UC-1 panels may be installed in a non-sequential order.
3. Application of a Firestone approved underlayment prior to panel installation is recommended.

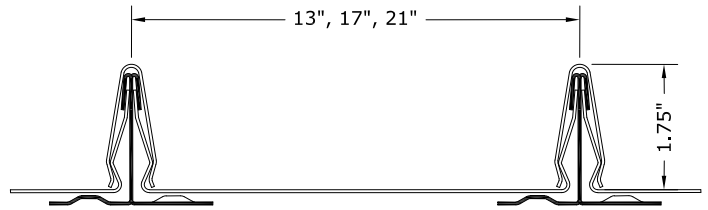
Note: Install assembly according to Firestone Metal Design and Application Guides found on the Firestone website. Follow approved installation details.

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, 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.



PRODUCT DATA

Panel Type:	Standing Seam
Panel Interlock:	Snap-On Batten
Tapered Panels:	No
Minimum Slope:	3:12
Radiused:	No
Stiffening Ribs:	Optional
Striations:	No
Standard Panel Surface:	Smooth
Optional panel Surface:	Stucco Embossed
Clip:	UC-1 Clip
Substrate:	Solid Substrate

PANEL SIZE

Panel Width:	12" - 21" (304.8 mm - 533.4 mm)
Optimal Panel Width:	13", 17", 21" (330.2 mm, 431.8 mm, & 508.0 mm)
Seam Height:	1-3/4" (44.5 mm)
Min. Panel Length:	36" (914.4 mm)
Max. Panel Length:	600" (15,240 mm)

TECHNICAL INFORMATION

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

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

2001
3/11/2010



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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® 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 PatriotGreen™, FreedomGray™
ZINC 0.028" (0.7 mm) 0.032" (0.8 mm)	RHEINZINK®: Electrolytic high-grade, 99.995% 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 Preweathered Blue-Gray Graphite 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 Location: Anoka, MN



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