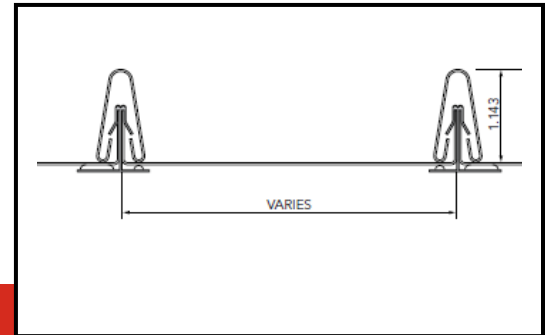


TECHNICAL INFORMATION SHEET

UNA-CLAD™ UC-7

Item Description

Standing Seam Panel



Product Information

Description

Firestone UNA-CLAD UC-7 Roofing Panel is a factory formed, Snap-On Batten, standing seam metal roof panel. The UC-7 roofing panel offers a straightforward installation with the appearance of a thin-line standing seam. 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-7 metal roof panel.
2. Firestone UC-7 panels may be installed in a non-sequential pattern.
3. Application of a Firestone underlayment prior to panel installation is highly recommended.

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 from its 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.
- Sealant for end laps and lap joints shall be non-drying, non-toxic, and non-shrinking with a serviceable temperature of -60 °F 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.

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Manufacturing Location

Anoka, MN

Typical Information

Property	Value
Panel Type	Standing Seam
Panel Interlock	Snap-On Batten
Tapered Panels	Yes
Minimum Slope	3:12
Radiused	5' (2438 mm) min Concave* & Convex*
Stiffening Ribs	Optional* - Flat ribs or pencil ribs
Striations	Optional*
Standard Panel Surface	Smooth
Optional Panel Surface	Stucco Embossed
Clip	UC-7 Hold-Down Clip
Substrate	Solid Substrate
Panel Width	12" - 20" (305 mm -508 mm)
Optimal Panel Width	12" & 20" (305 mm & 508 mm)
Seam Height	1.143" (29 mm)
Minimum Panel Length	36" (914 mm)
Maximum Panel Length	600" (15.2 m)

*Concave & Convex: Anoka, MN min. R36"

NOTE: UC-7 maximum gauge is 0.032" (0.81 mm) aluminum and 24 ga (0.64 mm). steel. If order is for 22 ga (0.79 mm). panels, batten will be 24 ga steel. If order is for 0.040" (1.02 mm) aluminum panels, batten will be 0.032" (0.81 mm) aluminum.

Technical Information

Property	Value
Uplift Resistance	UL 580 Class 90
Structural Performance	ASTM E330
Fire Rating	UL Class A Rated Assemblies, UL 263, UL 790
Hail Rating	Class 4, UL 2218

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

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UNA-CLAD™ UC-7

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: $10.0 \times 10^3 \times \text{KSI}$ (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: 06.7×10^{-6} in/in/ °F ($13.9 \text{ m/m.K} \times 10^{-6}$) Mod. Of Elasticity: $29.0 \times 10^6 \times \text{KSI}$ (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: 06.7×10^{-6} in/in/ °F ($13.9 \text{ m/m.K} \times 10^{-6}$) Mod. Of Elasticity: $29.0 \times 10^6 \times \text{KSI}$ (200 GPa)	Zinalume® Plus – Clear Acrylic Coated Kynar 500®/Hylar 5000®
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™
ZINC 24 ga (0.7 mm) 22 ga (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: $2.2 \text{ mm/m} \times 100\text{K}$ ($16.5" \times 10^{-6}$ in/in/F)	Shiny Pre-weathered Blue-Gray Graphite Gray

NOTE:

Consult current UNA-CLAD Color Selection Guide.

Custom color services available upon request.

Consult current base metal Coil & Flat sheet TIS for additional information on the base metal and coating.

Not all materials and thicknesses are available from all locations. Contact your Firestone Building Systems Advisor for additional information.

Please contact Firestone Technical Services at 1-800-428-4511 for further information.

This sheet is meant to highlight Firestone products and specifications and is subject to change without notice. Firestone takes responsibility for furnishing quality materials which meet published Firestone product specifications or other technical documents, subject to normal roof manufacturing tolerances. Neither Firestone nor its representatives practice architecture. Firestone offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. Firestone accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Firestone representative is authorized to vary this disclaimer.