



UNA-CLAD

HR-Ultra Omega

CORRUGATED PANEL FOR COMMERCIAL-INDUSTRIAL
METAL WALL AND ROOF CLADDING

DESCRIPTION:

Firestone UNA-CLAD HR-Ultra Omega Wall Panel is a factory formed corrugated commercial-industrial metal wall and roofing panel that provides a traditional metal panel appearance. The HR-Ultra Omega wall panel is mechanically fastened with exposed fasteners and can be installed in a non-sequential pattern. The panel is available in a wide variety of materials and finishes including Kynar 500®/Hylar 5000™ pre-finished G-90 Galvanized Steel and Aluminum, Copper, Anodized and Mill Finish Aluminum, and Acrylume.

METHOD OF APPLICATION:

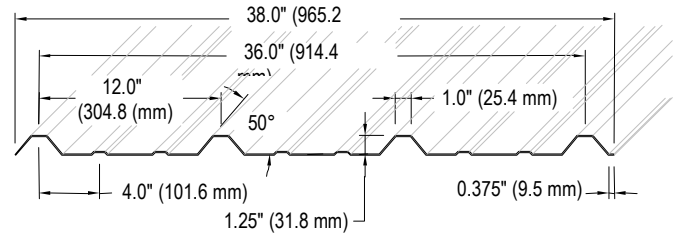
1. Firestone HR-Ultra Omega panels may be installed in a non-sequential pattern over a solid substrate or open framing.
2. Application of a Firestone approved underlayment prior to panel installation over a solid substrate is recommended.

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. 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)
3. 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. Inside and outside foam closures are recommended at panel ends.
4. Exercise caution when lifting, moving, transporting, storing or handling Firestone metal to avoid possible physical damage.
5. Refer to Material Safety Data Sheets (MSDS) for safety information.
6. Immediately remove protective film after installation.



PRODUCT DATA

| | |
|-------------------------|---------------------------------|
| Panel Type: | Commercial-Industrial |
| Joint Design: | Over Lapping |
| Tapered Panels: | No |
| Radiused: | No |
| Standard Panel Surface: | Smooth |
| Optional Panel Surface: | Stucco Embossed |
| Substrate: | Solid Substrate or Open Framing |

PANEL SIZE

| | |
|--------------------|-----------------------------|
| Panel Width: | 38" (965.2 mm) |
| | 36" (914.4 mm) Net Coverage |
| Min. Panel Length: | 60" (1,524 mm) |
| Max. Panel Length: | 480" (mm) |

TECHNICAL INFORMATION

| | |
|----------------------------|---|
| Structural Performance: | ASTM E 330 ASTM E1592 |
| Air Infiltration: | ASTM E 283 ASTM E 1680 |
| Static Water Penetration: | ASTM E 331 ASTM E 1646 |
| Dynamic Water Penetration: | AAMA 501 |
| 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 listings must be installed in accordance with the assembly tested. Refer to Firestone Website for available code listings.



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| MATERIAL & THICKNESS | METAL SPECIFICATION | AVAILABLE FINISHES |
|---|---|--|
| ALUMINUM 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 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 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™ |

*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 Metal Products for additional information.*

Manufacturing Locations: Anoka, MN



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