



UNA-CLAD 5V Crimp

CORRUGATED PANEL FOR COMMERCIAL-INDUSTRIAL
METAL WALL AND ROOF CLADDING

DESCRIPTION:

Firestone UNA-CLAD 5V Crimp (5VC) Wall Panel is a factory formed corrugated metal wall and roofing panel that provides a traditional metal panel appearance for Commercial & Industrial applications. The 5V Crimp wall panel is mechanically fastened with exposed fasteners. 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:

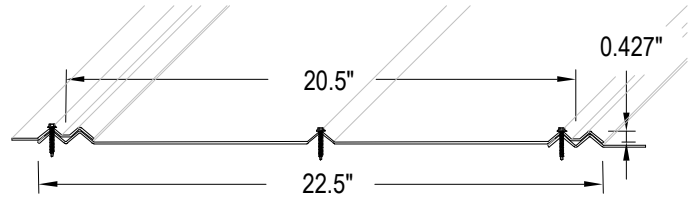
1. Firestone 5V Crimp panels should be installed over a solid substrate, but can also be installed over open framing.
2. Application of a Firestone approved underlayment prior to panel installation over a solid substrate is recommended.

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. Inside and outside foam closures are recommended at panel ends. Sealants are not a substitute for proper assembly and workmanship.
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:	22.5" (571.5 mm) 20.5" (520.7 mm) Net Coverage
Min. Panel Length:	36" (914.4 mm)
Max. Panel Length:	600" (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
Uplift Resistance:	UL 580 Class 90 UL 1897
Fire Rating:	UL Class A Rated Assemblies UL 263, UL 790
Hail Rating:	Class 4, UL 2218
Miami-Dade County:	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.



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MATERIAL & THICKNESS	METAL SPECIFICATION	AVAILABLE FINISHES
ALUMINUM 0.032" (0.81mm)	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. (0.48mm) 24 ga. (0.64mm) 22 ga. (0.79mm)	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 (0.56mm) 20 oz (0.69mm)	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: College Park, GA

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