**UNA-CLAD™ UC-500**

**Item Description**
Flush Panel

**Product Information**

**Description:**
Firestone UNA-CLAD UC-500 Flush Panel is a factory-formed, interlocking, architectural metal panel designed for soffit and fascia applications. The UC-500 Flush Panel offers the design professional a flush or flat appearance by utilizing an interlocking leg and concealed fastening system. The panel is available in a wide variety of materials and finishes including Kynar™ coated Galvanized Steel, Galvalume® Steel and Aluminum, Copper, and Zinc.

**Method of Application:**
1. A smooth, solid substrate of plywood or OSB, or a substructure of min. 22 ga (0.79 mm), ⅛" (22 mm) hat channels is recommended for the Firestone UC-500 metal flush panel.
2. The application of a Firestone approved underlayment prior to panel installation is recommended.
3. Firestone UC-500 panels must be installed in a sequential order.

**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:**
- Aluminum is recommended for soffit applications.
- 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 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.
LEED® Information:
Post Consumer Recycled Content: 0%
Post Industrial Recycled Content: 0%
Manufacturing Location: Anoka, MN
*NOTE: LEED® is a registered trademark of the U.S. Green Building Council.

Product Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Panel Type</td>
<td>Flush</td>
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<tr>
<td>Panel Interlock</td>
<td>Interlocking Joint</td>
</tr>
<tr>
<td>Tapered Panels</td>
<td>No</td>
</tr>
<tr>
<td>Net Free Area</td>
<td>2.75” sq per LF on 12” wide UC-500V panels</td>
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<tr>
<td>Radiused</td>
<td>No</td>
</tr>
<tr>
<td>Stiffening Ribs</td>
<td>Optional* - Flat ribs or pencil ribs</td>
</tr>
<tr>
<td>Striations</td>
<td>Optional as UC-500V</td>
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<tr>
<td>Standard Panel Surface</td>
<td>Smooth</td>
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<tr>
<td>Optional Panel Surface</td>
<td>Stucco Embossed (MN Only)</td>
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<tr>
<td>Substrate</td>
<td>Solid Substrate or Hat Channels</td>
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<tr>
<td>Panel Width</td>
<td>8” - 20” (203.2 mm - 508 mm)</td>
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<tr>
<td>Optimal Panel Width</td>
<td>18” &amp; 12” (457.2 mm &amp; 304.8 mm)</td>
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<tr>
<td></td>
<td>16” &amp; 20” (406.4 mm &amp; 508 mm)</td>
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<tr>
<td>Panel Depth</td>
<td>1” (25.4 mm)</td>
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<tr>
<td>Seam Height</td>
<td>1.143” (29 mm)</td>
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<tr>
<td>Minimum Panel Length</td>
<td>36” (914.4 mm)</td>
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<tr>
<td>Maximum Panel Length</td>
<td>576” (14.63 m)</td>
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Technical Information

<table>
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<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Air Infiltration</td>
<td>ASTM E283</td>
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<tr>
<td>Structural Performance</td>
<td>ASTM E330</td>
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<tr>
<td>Water Penetration</td>
<td>ASTM E331</td>
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<tr>
<td>Fire Rating</td>
<td>UL Class A Rated Assemblies, UL 263, UL 790</td>
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<tr>
<td>Hail Impact Rating</td>
<td>Class 4, UL 2218</td>
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<tr>
<td>Florida Building Code</td>
<td>Approval</td>
</tr>
</tbody>
</table>

*Contact your Firestone Building Systems Advisor for special consideration on panels over 180” (4570 mm).

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.
## UNA-CLAD™ UC-500

### OPTIONAL VENTING PATTERN

![Diagram of optional venting pattern]

### 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 x 10^-6 in/in/ °F (22.2 m/m.K x 10^-6)  
Mod. Of Elasticity: 10.0 x 10^3 x KSI (68.9 MPa) | Anodized Kynar 500®/Hylar 5000®

**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 x 10^-6 in/in/ °F (13.9 m/m.K x 10^-6)  
Mod. Of Elasticity: 29.0 x 10^6 x 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 x 10^-6 in/in/ °F (13.9 m/m.K x 10^-6)  
Mod. Of Elasticity: 29.0 x 10^6 x KSI (200 GPa) | Kynar 500®/Hylar 5000® Unpainted G90

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Minimum Yield: 50 KSI (345 MPa)  
Thermal Expansion: 06.7 x 10^-6 in/in/ °F (13.9 m/m.K x 10^-6)  
Mod. Of Elasticity: 29.0 x 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 x 10^-6 in/in/ °F (16.5 m/m.K x 10^-6)  
AGSC copper meets and/ or exceeds ASTM B370 specification. | Natural Patriot Green™ Freedom Gray™

**ZINC**
0.028” (0.7 mm)  
0.032” (0.8 mm)  
0.040” (1.0 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" x 10^-6 in/in/ °F) | Shiny  
Pre-weathered Blue-Gray  
Pre-weathered Graphite Gray

### NOTE:
- Consult current UNA-CLAD Color Selection Guide.
- Custom color services available upon request.
- 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.

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