CFR is an insulated metal roof standing seam roof panel and is the newest innovation in all-in-one composite roof panel design, combining durable interior and exterior faces with an unmatched polyurethane core. The CFR insulated metal standing seam roof panel is a truly unique answer to many deficiencies common with more traditional roofing materials of the past.

Features and Benefits:
• The CFR roof panel is ideal for architectural, commercial, industrial and institutional applications.
• Due to their careful design features, this roof system requires very little field reworking and can be easily and quickly installed.

Product Specifications

- **Applications**: Roof
- **Length**: 9'-6" to 53'-0"
- **Coverage Widths**: 42" (standard); 30"**, 36" (optional)
- **Thicknesses**: 2", 2½", 3", 4", 5", 6"
- **Panel Attachment**: Concealed fastening system
- **Gauges**: Exterior: 24, 22; Interior: 26, 24, 22
- **Finishes**: Exterior: Galvalume Plus®, Stucco-embossed; Interior: Stucco-embossed
- **Coatings**: Exterior: Signature® 200, Signature® 300; Interior: Igloo White (standard)

<table>
<thead>
<tr>
<th>U-Factors and R-Values*</th>
<th><strong>R-Value (h·ft²·°F/BTU)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PANEL WIDTH: 42</strong></td>
<td><strong>PANEL WIDTH: 42</strong></td>
</tr>
<tr>
<td>75°</td>
<td>75°</td>
</tr>
<tr>
<td>2&quot;</td>
<td>0.0600</td>
</tr>
<tr>
<td>2½&quot;</td>
<td>0.0490</td>
</tr>
<tr>
<td>3&quot;</td>
<td>0.0414</td>
</tr>
<tr>
<td>4&quot;</td>
<td>0.0318</td>
</tr>
<tr>
<td>5&quot;</td>
<td>0.0257</td>
</tr>
<tr>
<td>6&quot;</td>
<td>0.0217</td>
</tr>
</tbody>
</table>

*Based on ASTM C518, ASTM C1363 and thermal modeling, 75° F core mean temp.
**Available only from Metl-Span’s Texas plant.
## Standard Method of Test for Surface Burning

 Determines the behavior of building materials under uniform positive static air pressure difference.

### TEST METHOD
- ASTM E84

### PURPOSE
- Provides comparative measurements of surface flame spread and smoke density measurements relative to that of select grade red oak and fiber-cement board surfaces under specific fire exposure conditions.

### RESULT
- Flame Spread index of 20
- Smoke Developed index of 350

## Environmental

### CATEGORY
- Thermal Transmission

### CHARACTERISTIC
- ASTM C 518

### TEST METHOD
- Measure the heat transmission coefficient per unit thickness (k-factor)

### PURPOSE
- Determines the behavior of materials under uniform positive static air pressure differences.

### RESULT
- 0.140 BTU·in/hr·ft²·°F (7.14/inch) at 75 °F mean Temperature
- 0.126 BTU·in/hr·ft²·°F (7.94/inch) at 40 °F mean Temperature
- 0.118 BTU·in/hr·ft²·°F (8.47/inch) at 20 °F mean Temperature

### CATEGORY
- Air Leakage Through Roof Panel Joints

### CHARACTERISTIC
- ASTM E1600

### TEST METHOD
- Determines the resistance of exterior metal roof panel systems to air infiltration resulting from either positive or negative air pressure differences.

### PURPOSE
- Varies up to R-8.515/inch of panel thickness at 40 °F mean Temperature

### RESULT
- 0.0023 cfm/ft² at 12 psf static pressure

### CATEGORY
- Water Penetration Through Roof Panel Joints

### CHARACTERISTIC
- ASTM E1646

### TEST METHOD
- Determines the resistance to water penetration of metal roof panels under uniform positive static air pressure difference.

### PURPOSE
- No uncontrolled water penetration through the panel joints at a static pressure of 12 psf.

### RESULT
- 0.0023 cfm/ft² at 12 psf static pressure

## Foam Properties

### CATEGORY
- Foams

### CHARACTERISTIC
- ASTM D1622

### TEST METHOD
- Measure the apparent density of rigid cellular plastics.

### PURPOSE
- Determines the behavior of cellular materials under compressive load.

### RESULT
- 2.3pcf

### CHARACTERISTIC
- ASTM D1621

### TEST METHOD
- Determines the behavior of cellular materials under compressive load.

### PURPOSE
- Measures the tensile strength of the foam from a cored sample.

### RESULT
- 30 psi through-thickness
- 33 psi other directions

### CHARACTERISTIC
- ASTM D1623

### TEST METHOD
- Measures the shear strength of the foam from a cored sample.

### PURPOSE
- Determines the behavior of cellular materials under shear.

### RESULT
- 16 psi lowest in any direction

## Fire Resistance

### CATEGORY
- Room Fire Performance

### CHARACTERISTIC
- ASTM E84

### TEST METHOD
- Determines the behavior of materials under uniform positive static air pressure difference.

### PURPOSE
- Provides a standard procedure to evaluate or confirm the structural performance under uniform static air pressure difference.

### RESULT
- See Load Chart Section

### CHARACTERISTIC
- ASTM E72

### TEST METHOD
- Tests the behavior of segments of wall construction under conditions representative of those encountered in service.

### PURPOSE
- Provides a standard procedure to evaluate or confirm structural performance under uniform static air pressure difference.

### RESULT
- See Load Chart Section

### CHARACTERISTIC
- FM 4471

### TEST METHOD
- Sets performance standards for panel roofs including uplift resistance.

### PURPOSE
- Requires a Class 1 ratings by FM Global 4880 as a prerequisite.

### RESULT
- Class 1-60 to 1-135 depending on panel width and purlin spacing. See FM RoofNav for ratings.

### CHARACTERISTIC
- UL 580

### TEST METHOD
- Determines the uplift resistance of roof assemblies consisting of the roof and roof coverings materials.

### PURPOSE
- Determines the uplift resistance of roof assemblies consisting of the roof and roof coverings materials.

### RESULT
- Class 90 Rating - Construction Number 499 and 500.

### CHARACTERISTIC
- TAS 125

### TEST METHOD
- Florida product approval is the approval of products and systems, which comprise the building envelope and structural frame, for compliance with the structural requirements of the Florida Building Code.

### PURPOSE
- Florida product approval is the approval of products and systems, which comprise the building envelope and structural frame, for compliance with the structural requirements of the Florida Building Code.

### RESULT
- See FL # 7766.1

## Structural

### CATEGORY
- Roof Performance

### CHARACTERISTIC
- TAS 125

### TEST METHOD
- The Product Control Approval System establishes a protocol to evaluate the standards of products used in construction in Miami-Dade County, Miami-Dade County, with its inclusion in the High Velocity Hurricane Zone (HVHZ) has the most stringent code requirements of the Florida Building Code.

### PURPOSE
- All products that comprise the structure's building envelope — doors, shutters, windows, prefabricated buildings and truck plates — require the issuance of an approval in order to be used for construction in Miami-Dade County.

### RESULT
- See NOA # 15-0601.03 for Craftsman SB

## Roof Listings

### CATEGORY
- Roof Performance

### CHARACTERISTIC
- TAS 125

### TEST METHOD
- The Product Control Approval System establishes a protocol to evaluate the standards of products used in construction in Miami-Dade County, Miami-Dade County, with its inclusion in the High Velocity Hurricane Zone (HVHZ) has the most stringent code requirements of the Florida Building Code.

### PURPOSE
- All products that comprise the structure's building envelope — doors, shutters, windows, prefabricated buildings and truck plates — require the issuance of an approval in order to be used for construction in Miami-Dade County.

### RESULT
- See NOA # 15-0601.03 for Craftsman SB

### CHARACTERISTIC
- TAS 100

### TEST METHOD
- The Product Control Approval System establishes a protocol to evaluate the standards of products used in construction in Miami-Dade County, Miami-Dade County, with its inclusion in the High Velocity Hurricane Zone (HVHZ) has the most stringent code requirements of the Florida Building Code.

### PURPOSE
- All products that comprise the structure's building envelope — doors, shutters, windows, prefabricated buildings and truck plates — require the issuance of an approval in order to be used for construction in Miami-Dade County.

### RESULT
- See NOA # 15-0601.03 for Craftsman SB

### CHARACTERISTIC
- TAS 201

### TEST METHOD
- The Product Control Approval System establishes a protocol to evaluate the standards of products used in construction in Miami-Dade County, Miami-Dade County, with its inclusion in the High Velocity Hurricane Zone (HVHZ) has the most stringent code requirements of the Florida Building Code.

### PURPOSE
- All products that comprise the structure's building envelope — doors, shutters, windows, prefabricated buildings and truck plates — require the issuance of an approval in order to be used for construction in Miami-Dade County.

### RESULT
- See NOA # 15-0601.03 for Craftsman SB

### CHARACTERISTIC
- ASTM E 1592

### TEST METHOD
- The Product Control Approval System establishes a protocol to evaluate the standards of products used in construction in Miami-Dade County, Miami-Dade County, with its inclusion in the High Velocity Hurricane Zone (HVHZ) has the most stringent code requirements of the Florida Building Code.

### PURPOSE
- All products that comprise the structure's building envelope — doors, shutters, windows, prefabricated buildings and truck plates — require the issuance of an approval in order to be used for construction in Miami-Dade County.

### RESULT
- See NOA # 15-0601.03 for Craftsman SB