

## CFR INSULATED STANDING SEAM PANEL

### DESCRIPTION:

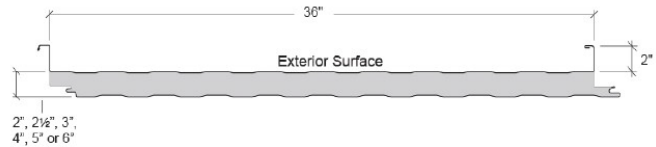
The CFR Insulated Standing Seam Panel is the newest innovation in all-in-one composite roof panel design, combining durable interior and exterior faces with an unmatched polyurethane core. The CFR Insulated Standing Seam Panel is a truly unique answer to many deficiencies common with more traditional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

### FEATURES:

- The CFR roof panel is ideal for architectural, commercial, industrial and institutional applications.
- Requires very little field reworking and can be easily and quickly installed.

### SPECIFICATIONS

- Applications: Roof
- Length: 9'-6" to 53'-0"
- Coverage Widths: 42" (standard); 30", 36" (optional)
- 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)



### U-Factors and R-Values\*

| U-factor (BTU·h·ft <sup>2</sup> ·° F) |        | R-Value (h·ft <sup>2</sup> ·° F/BTU) |       |
|---------------------------------------|--------|--------------------------------------|-------|
| PANEL WIDTH: 42"                      |        | PANEL WIDTH: 42"                     |       |
|                                       | 75°    |                                      | 75°   |
| 2"                                    | 0.0600 | 2"                                   | 16.67 |
| 2½"                                   | 0.0490 | 2½"                                  | 20.41 |
| 3"                                    | 0.0414 | 3"                                   | 24.15 |
| 4"                                    | 0.0318 | 4"                                   | 31.45 |
| 5"                                    | 0.0257 | 5"                                   | 38.91 |
| 6"                                    | 0.0217 | 6"                                   | 46.08 |

\* Based on ASTM C518, ASTM C1363 and thermal modeling, 75° F core mean temp.

\*\* Available only from Metl-Span's Texas plant

*Product samples, detail sheets, color chips, and color chart are available for your submittal package. For assistance with questions or submittals, contact your local Sale Representative or call Duro-Last.*

| Category                   | Test Method      | Purpose  | Result  |
|----------------------------|------------------|--|---|
| <b>FIRE US</b>             | ASTM E84         | Surface Burning Characteristics of Building Materials  | Flame spread <25, smoke developed <450  |
|                            | ASTM E108        | Standard Test Methods for Fire Tests of Roof Coverings   | Varies up to R-8.515/inch of panel thickness at 40° F mean temperature  |
|                            | FM 4880          | Class 1 Fire Rating of Insulated Wall, Ceiling and Roof Panels                                     | Product approved<br>Exterior roof requires FM 4471 approval   |
|                            | NFPA 286         | Fire Tests for Evaluating Contribution of Wall and Ceiling Finish to Roof Fire Growth              | Test specimen met the criteria of the IBC Section 803.1.2.1   |
| <b>FIRE CANADA</b>         | CAN/ULC S102     | Surface Burning Characteristics of Building Materials and Assemblies                               | Meets the National Building Code of Canada requirements   |
|                            | CAN/ULC S107     | Methods of Fire Tests of Roof Coverings  | Passed Class A  |
|                            | CAN/ULC S126     | Fire Spread Under Roof-Deck Assemblies   | Met the criteria of the standard  |
| <b>STRUCTURAL</b>          | ASTM E72         | Strength tests of panels for building Construction   | See Load Chart  |
|                            | ASTM E1592       | Structural Performance of Metal Roof and Siding Systems by Uniform Static Air Pressure Differences | See Load Chart  |
|                            | FM 4471          | Class 1 Exterior Roof Structural Performance   | See FM Roof Load Chart  |
|                            | UL 580           | Uplift Resistance of Roof Assemblies   | UL Class 90 Uplift at 5' and 7'   |
|                            | UL 1897          | Uplift Tests for Roof Covering Systems   | Uplift Resistance of 166 psf at 5'<br>Uplift Resistance of 140 psf at 7'  |
| <b>THERMAL PERFORMANCE</b> | ASTM C518        | Steady-State Thermal Transmission Properties by Means of the Heat-Flow Meter Apparatus             | K-Factor of 0.126 BTU.in/hr.ft <sup>2</sup> °F at 40° F mean core<br>K-Factor of 0.14 BTU.in/hr.ft <sup>2</sup> °F at 75° F mean core |
|                            | ASTM C1363       | Thermal Performance of Building Materials and Envelope Assemblies                                  | See Thermal Performance Guide   |
| <b>AIR INFILTRATION</b>    | ASTM E1680       | Rate of Air Leakage Through Exterior Metal Roof Panel Systems                                      | <0.023 cfm/ft <sup>2</sup> at 12 psf  |
| <b>WATER INFILTRATION</b>  | ASTM E1646       | Water Penetration of Exterior Walls by Uniform Static Air Pressure Differences                     | No uncontrolled leakage when tested to a static pressure of 12 psf<br>Vertical or horizontal installation                             |
| <b>SPECIAL APPROVAL</b>    | Miami-Dade NOA   | Product Approval for City of Miami and Dade County   | Product has City of Miami and Dade County Notice of Acceptance  |
|                            | State of Florida | Product Approval for the State of Florida  | Product has State of Florida approval   |