

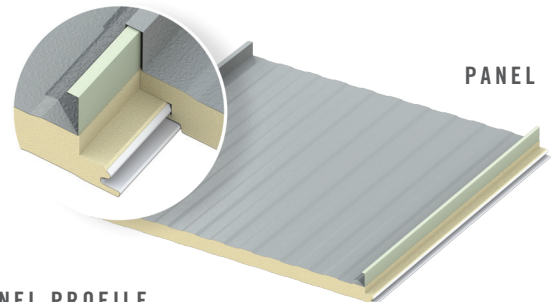


CFR

INSULATED METAL ROOF PANEL

Developed as the preeminent innovation in all-in-one composite panel design, this standing seam roof panel combines durable interior and exterior faces with our unmatched polyurethane core. The CFR roof panel provides an unsurpassed weathertight seal and service life. Ideal for cold storage, commercial, industrial and institutional markets, the panel can be used on roof slopes as low as ½": 12".

LOCK & GROOVE SYSTEM



PANEL PROFILE



PRODUCT SPECIFICATIONS

WIDTH • 30", 36", 42"

THICKNESS • 2", 2 ½", 3", 4", 5", 6"

LENGTH • 9'-6" to 53'-0"; contact Metl-Span for custom length availability

EXTERIOR FACE • Stucco-embossed, G-90 galvanized or AZ-50 aluminum-zinc coated steel in 24 and 22 Ga.; or AZ-55 aluminum-zinc coated steel with a clear acrylic coating in 24 Ga.

INTERIOR FACE • Stucco-embossed, G-90 galvanized or AZ-50 aluminum-zinc coated steel in 26, 24 and 22 Ga.

JOINT • Concealed clip mechanically seamed singlelock standing seam at the exterior side joint. The interior side joint is a single tongue-and-groove interlock.

EXTERIOR PROFILE • 2" high standing seam with a Mesa profile between the seams

INTERIOR PROFILE • Mesa profile, nominal ⅝" deep

UPLIFT PERFORMANCE: • UL 90 rated, FM Approvals Standard 4471, and Florida Building Code approved. Dade County NOA.

U-FACTORS AND R-VALUES*

U-FACTOR (BTU/h-ft²·°F)

PANEL WIDTH: 42"

| | 75° |
|-----|--------|
| 2" | 0.0600 |
| 2½" | 0.0490 |
| 3" | 0.0414 |
| 4" | 0.0318 |
| 5" | 0.0257 |
| 6" | 0.0217 |

R-VALUE (h-ft²·°F/BTU)

PANEL WIDTH: 42"

| | 75° |
|-----|-------|
| 2" | 16.67 |
| 2½" | 20.41 |
| 3" | 24.15 |
| 4" | 31.45 |
| 5" | 38.91 |
| 6" | 46.08 |

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

DESIGN FEATURES & BENEFITS

- Weathertight vertical side seaming and installation savings with fewer side joints to seal
- Factory-cut panel ends, factory notching and factory-swaged ends eliminate field work and erection costs

- Factory-installed backer plates at the endlaps eliminate pre-drilling for special fasteners
- Installed from the top side to provide concealed clips and fasteners

Metl-Span: Performance Redefined
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PART# CFRDS0616

TESTING: CFR INSULATED METAL ROOF PANEL

| TEST/APPROVAL | TEST METHOD | TEST TITLE | RESULTS |
|----------------------------|------------------|--|---|
| Fire US | 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 | Passed Class A |
| | FM 4880 | Class 1 Fire Rating of Insulated Wall, Ceiling and Roof Panels | Product approved 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 |
| Fire Canada | 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 |
| Structural | 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' Uplift Resistance of 140 psf at 7' |
| Thermal Performance | ASTM C518 | Steady-State Thermal Transmission Properties by Means of the Heat-Flow Meter Apparatus | K-Factor of 0.126 BTU.in/hr.ft ² .°F at 40° F mean core K-Factor of 0.14 BTU.in/hr.ft ² .°F at 75° F mean core |
| | ASTM C1363 | Thermal Performance of Building Materials and Envelope Assemblies | See Thermal Performance Guide |
| Air Infiltration | ASTM E1680 | Rate of Air Leakage Through Exterior Metal Roof Panel Systems | <0.023 cfm/ft ² at 12 psf |
| Water Infiltration | ASTM E1646 | Water Penetration of Exterior Metal Roof Panel Systems by Static Air Pressure Differences | No uncontrolled leakage when tested to a static pressure of 12 psf Vertical or horizontal installation |
| Special Approval | 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 |

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