

CF MESA

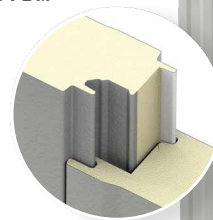
INSULATED METAL WALL PANEL



The CF Mesa insulated metal panel is well suited for exterior and interior walls and ceiling applications. The lightly corrugated profile on both faces creates symmetry on the outside of the building and room to room within. The minor rib provides a flattened appearance. Mesa panels are ideal for cold storage, commercial, institutional and industrial applications.

LOCK & GROOVE SYSTEM

PANEL



PANEL PROFILE



PRODUCT SPECIFICATIONS

WIDTH 30", 36", 42"

THICKNESS 2", 2½", 3", 4", 5", 6"

LENGTH 8'-0" to 53'-0"

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

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

JOINT Offset double tongue-and-groove with extended metal shelf for positive face fastening

U-FACTORS AND R-VALUES*

U-FACTOR (BTU/h-ft²·°F)

PANEL WIDTH: 42"

| | 75° |
|-----|--------|
| 2" | 0.0706 |
| 2½" | 0.0516 |
| 3" | 0.0424 |
| 4" | 0.0324 |
| 5" | 0.0264 |
| 6" | 0.0224 |

PANEL WIDTH: 42"

| | 40° |
|-----|--------|
| 2" | 0.0669 |
| 2½" | 0.0491 |
| 3" | 0.0401 |
| 4" | 0.0305 |
| 5" | 0.0248 |
| 6" | 0.0210 |

R-VALUE (h-ft²·°F/BTU)

PANEL WIDTH: 42"

| | 75° |
|-----|-------|
| 2" | 14.16 |
| 2½" | 19.38 |
| 3" | 23.58 |
| 4" | 30.86 |
| 5" | 37.88 |
| 6" | 44.64 |

PANEL WIDTH: 42"

| | 40° |
|-----|-------|
| 2" | 14.95 |
| 2½" | 20.37 |
| 3" | 24.94 |
| 4" | 32.79 |
| 5" | 40.32 |
| 6" | 47.62 |

*Based on ASTM C518, ASTM C1363 and thermal modeling, 75° F and 40° F core mean temp.

DESIGN FEATURES & BENEFITS

- Consistent high quality with foamed-in-place panel manufacturing
- Easily washable
- Utilizes concealed clips and eliminates thermal short circuits
- Easy and fast installation, with reduced construction labor costs
- Interior and exterior applications

TESTING: CF MESA INSULATED METAL WALL 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 E119 | Fire Tests of Building Construction Materials | One hour non-load bearing rating with two layers of Type X Gypsum Vertical or horizontal installation |
| | FM 4880 | Class 1 Fire Rating of Insulated Wall, Ceiling and Roof Panels | Product approved Exterior wall requires FM 4881 approval |
| | NFPA 259 | Test Method for Potential Heat of Building Materials | Potential heat of foam plastic insulation contained in the assembly tested in accordance with NFPA 285 |
| | NFPA 285 | Evaluation of Fire Propagation Characteristics of Exterior Non-Load Bearing Wall Assemblies | Panel assembly met the requirements of the standard |
| | 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 S101 | Fire Endurance Tests of Building Construction and Materials | One hour non-load bearing fire rating with two layers of Type X Gypsum |
| | CAN/ULC S101 | Fire Endurance Tests of Building Construction and Materials | Meets 15 minute stay-in-place requirements |
| | CAN/ULC S102 | Surface Burning Characteristics of Building Materials and Assemblies | Meets the National Building Code of Canada requirements |
| | CAN/ULC S134 | Fire Test of Exterior Wall Assemblies | Complies with the fire-spread and heat-flux limitations required by the National Building Code of Canada |
| | CAN/ULC S138 | Fire Growth of Insulated Building Panels in a Full-Scale Room Configuration | 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 4881 | Class 1 Exterior Wall Structural Performance | See FM Wall Load Chart |
| 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 E283 | Rate of Air Leakage Through Curtain Walls Under Specified Pressure Differences | <0.01 cfm/ft ² at 20 psf Vertical or horizontal installation |
| Water Infiltration | ASTM E331 | Water Penetration of Exterior Walls by Uniform Static Air Pressure Differences | No uncontrolled leakage when tested to a static pressure of 20 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 |

Descriptions and specifications contained herein were in effect at the time this publication was approved for printing. Application details are for illustration purposes only and may not be appropriate for all environmental conditions, building designs or panel profiles. Projects should be designed to conform to applicable building codes, regulations and accepted industry practices. If there is a conflict between this document and project erection drawings, the erection drawings will take precedence.