

CF FLUTE

INSULATED METAL WALL PANEL

The ribbed profile of the CF Flute insulated metal panel provides bold vertical lines complementary to almost any commercial or industrial buildings. The Flute wall panel is a suitable profile for the exterior of cold storage buildings. The bold vertical lines create a distinctive and visually appealing architectural and industrial image.

LOCK & GROOVE SYSTEM

PANEL

PANEL PROFILE

PRODUCT SPECIFICATIONS

WIDTH	42"
THICKNESS	2", 2½", 2¾", 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	Mesa profile, Light Mesa profile, 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
2¾"	0.0470
3"	0.0424
4"	0.0324
5"	0.0264
6"	0.0224

PANEL WIDTH: 42"

	40°
2"	0.0669
2½"	0.0491
2¾"	0.0446
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
2¾"	21.28
3"	23.58
4"	30.86
5"	37.88
6"	44.64

PANEL WIDTH: 42"

	40°
2"	14.95
2½"	20.37
2¾"	22.42
3"	24.94
4"	32.79
5"	40.32
6"	47.62

*Available only from Nevada plant

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

DESIGN FEATURES & BENEFITS

- Traditional styling and distinctive vertical lines
- Utilizes concealed clips and eliminates thermal short circuits
- Easy and fast installation, with reduced construction labor costs
- Can be used in conjunction with other joint profiles

TESTING: CF FLUTE 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.