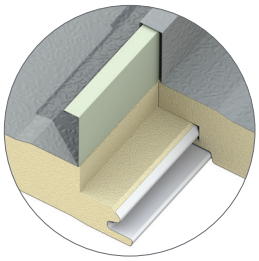
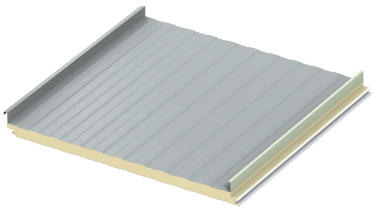
CFR

Insulated Metal Roof Panel

The CFR roof standing seam panels combine durable interior and exterior faces with an unsurpassed energy efficient insulated core. CFR panels can be used on roof slopes as low as ½":12" and are ideal for temperature-controlled buildings. CFR panels come with factory-cut panel ends, factory notching, and factory-swaged ends eliminating field work and erection costs. The CFR panel also has factory-installed backer plates at the endlaps eliminating pre-drilling for fasteners. Trust TrueCore's CFR roof panel, produced using veteran knowledge and experience for the industry's best contractors.

PANEL PROFILE AND CROSS SECTION





EXTERIOR PROFILE & TEXTURE	2" high standing seam with a Mesa profile between the seams, embossed
INTERIOR PROFILE & TEXTURE	Mesa, nominal ⅛", deep embossed or unembossed
EXTERIOR FACINGS	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 FACINGS	G-90 galvanized or AZ-50 aluminum-zinc coated steel in 26, 24 and 22 Ga.
WIDTH	30"†, 36", 42"
LENGTH	NON-DIRECTIONAL EMBOSSED 9'-6" to 53'-0"; standard *Contact TrueCore for information and pricing on longer lengths.*
THICKNESS	2", 2½", 3", 4", 5", 6"
CORE	Foamed-in-place, zero ozone depleting (zero ODP) Class 1 foam
JOINT	Concealed clip mechanically seamed singlelock standing seam at the exterior side joint. The interior side joint is a single tongue-and-groove interlock.
UPLIFT PERFORMANCE	UL 90 rated, FM Approvals Standard 4471, and Florida Building Code approved. Dade County NOA.

U-FACTOR (BTU/H·FT²·°F)*

PANEL WIDTH: 42"

	35°
2"	0.065
2½"	0.052
3"	0.044
4"	0.033
5"	0.027
6"	0.022

R-VALUE (H·FT²·°F/BTU)*

PANEL WIDTH: 42"

	35°
2"	17.5
2½"	21.9
3"	26.2
4"	35.0
5"	43.7
6"	52.5

**R-Value & U-Factor per ASTM C518 & ASTM C1363/Simulation, respectively, based on a mean temperature of 35° F; Thermal values may vary depending on manufacturing location.*

† Available only from Texas Plant.

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TESTING: CFR INSULATED METAL ROOF PANEL

TEST	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	Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room 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	Standard Test Methods of Conducting 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	2" R= 17.5 2½" R= 21.9 3" R= 26.2 4" R= 35.0 5" R= 43.7 6" R= 52.5
	ASTM C1363	Thermal Performance of Building Materials and Envelope Assemblies	35° 2" 0.065 2½" 0.052 3" 0.044 4" 0.033 5" 0.027 6" 0.022
AIR INFILTRATION	ASTM E1680	Rate of Air Leakage Through Exterior Metal Roof Panel Systems	<0.0023 cfm/ft² air infiltration rate at static pressure differential of 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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