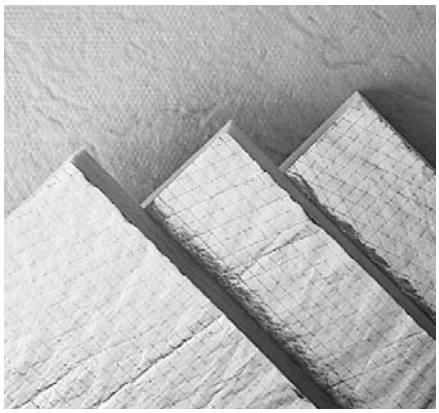
OWENS CORNING ®
INNOVATIONS FOR LIVING™

Curtainwall Insulation

Product Data Sheet



☐ **Unfaced**
☐ **Faced (FRK)**

Description

Curtainwall Insulation/CW 225 is a semi-rigid, fiberglass board-like product, made in R-values from 4.3 to 17.4. Curtainwall Insulation/CW 225 is available plain, or faced with an FRK (foil-reinforced-kraft) vapor retarder. The product is manufactured in thicknesses from 1" to 4".

Uses

Curtainwall Insulation/CW 225 is designed to provide excellent thermal properties in glass, metal and masonry curtainwall spandral systems. The semi-rigid, light-weight boards can be placed between or over framing members, and held in place with mechanical fasteners or other systems.

Product Attributes

Excellent Thermal Performance

With the range of R-values and thicknesses available, Curtainwall Insulation/CW 225 can meet most thermal specifications with ease.

Improves Acoustical Performance

Curtainwall Insulation/CW 225 also improves acoustical performance by increasing the Noise Reduction Coefficient (NRC) rating. A 2" thickness provides an NRC of up to 1.00.

Dimensional Stability

The dimensional stability of CW 225 assures long term in-place performance. It will not decay or slump within the wall cavity, and its inorganic fibers will not shrink or warp.

Size Availability

CW 225 is available in a standard size of 24" X 48". CW 225 can also be furnished pre-cut in non-standard lengths and widths to eliminate the need for job site fabrication and speed installation.

Easy Installation

Lightweight and resilient, Curtainwall Insulation/CW 225 is easy to handle and install. CW 225 is easily cut with a utility knife for convenient job site fabrication. A wide range of thicknesses facilitates optimum material usage. CW 225, in standard size, is compression packaged for improved shipping, storage and handling.

Design Considerations

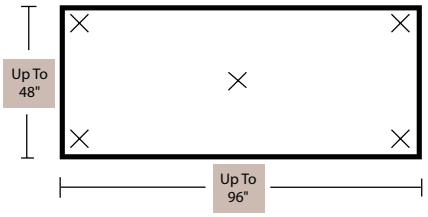
Curtainwall Insulation/CW 225 should be installed in fire resistance rated wall assemblies as required by the building code. Buildings utilizing curtainwall construction may also be equipped with a sprinkler system to provide adequate fire protection. Check local building code requirements.

The need for and placement of a vapor retarder in commercial construction depends on many factors. The architect or specifier should evaluate the requirements of each project.

Installation

Curtainwall Insulation/CW 225 can be easily cut with a knife and fit neatly into irregularly shaped areas. Curtainwall Insulation/CW 225 can be applied using impaling pins, friction-fit between furring members, or installed with adhesives appropriate for lightweight board insulation.

When using adhesives, follow adhesive manufacturer's recommendations for surface preparation and adhesive pattern.



Recommended impailing pin patterns. Pins should be located 3-8" from the edge(s) of the board.

When using impaling pins, follow pin manufacturer's recommendations for surface preparation. Lengths should be selected to ensure tight fit. Protect pin tips where subject to contact. Pins should be located 3-8" from the edge(s) of the board. Follow curtainwall manufacturer's instructions for clearance.

Maintaining the integrity of the vapor retarder is critical for effective moisture/humidity control. Repair any punctures or tears in the facing by taping with a pressure sensitive foil tape.

If joints are to be taped, all insulation facing edges should be sealed with a pressure sensitive foil tape that is compatible with the foil facing. Follow the tape manufacturer's application recommendations.

Product should be kept dry during shipping, storage and installation.

Applicable Standards

Curtainwall Insulation/CW 225 complies with ASTM C 612, Type 1A and 1B. Federal Specification HH-I-558B has been canceled and is replaced by ASTM C 612.

The thermal resistance values for Curtainwall Insulation/CW 225 were tested in accordance with ASTM C 518; R-value listed is for insulation only.

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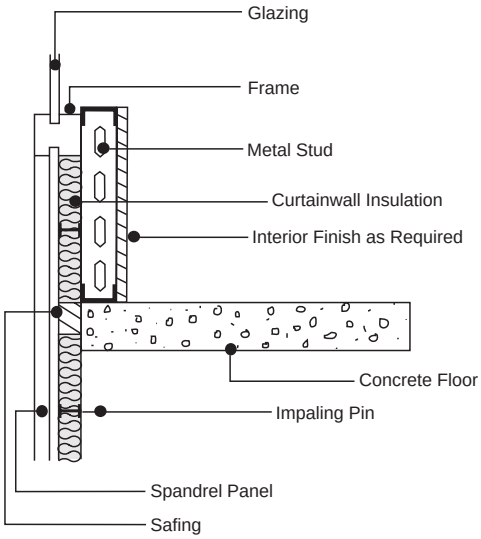
The surface burning characteristics of Curtainwall Insulation/CW 225 were derived from products tested in accordance with ASTM E 84. This standard is used solely to measure and describe properties of products in response to heat and flame under controlled laboratory conditions, and should not be used to describe or approve the fire hazard of materials under actual fire conditions. However, the results of these tests may be used as elements of a fire risk assessment that takes into account all of the factors pertinent to an assessment of the fire hazard of a particular end use. Values are reported to the nearest five rating.

The vapor retarder permeance of the FRK facing on Curtainwall Insulation/CW 225 was developed from tests conducted in accordance with ASTM E 96, desiccant method and the MEA 87-84 requirements of New York City.

The noise reduction coefficients of Curtainwall Insulation/CW 225 were derived from tests conducted in accordance with ASTM C 423.



Curtainwall Insulation/CW 225 Technical Data

	Width	Length	Thickness	R-value*
Density 2.25 pcf K-value .23	24" 609mm	48" 1219mm	4" 102mm	17.4
	24" 609mm	48" 1219mm	3.5" 89mm	15.2
	24" 609mm	48" 1219mm	3" 76mm	13.0
	24" 609mm	48" 1219mm	2.5" 64mm	10.9
	24" 609mm	48" 1219mm	2" 51mm	8.7
	24" 609mm	48" 1219mm	1.5" 38mm	6.5
	24" 609mm	48" 1219mm	1" 25mm	4.3

*CW 225 FRK-faced is not available in 1" thicknesses. Contact your Owens Corning sales representative for complete details on size availablility and minimum order quantities.

Surface Burning Characteristics/Building Code Construction Classification

Products	Flame Spread	Smoke Developed	ICBO	BOCA	SBCCI	ICC
Unfaced	20	20	All Types	All Types	All Types	All Types
FRK-faced	25	50	All Types	All Types	All Types	All Types

Curtainwall Insulation/MW complies with ICBO (Uniform Building Code), BOCA (National Building Code), SBCCI (Standard Building Code) and ICC (International Building Code) model code requirements for building construction types listed above.

Available Vapor Retarder Facings	FRK
Perms Maximum*	0.10

Water Absorption	
Maximum by Volume	Less than 0.05%

Dimensional Stability	
Linear Shrinkage	Less than 0.1%

Noise Reduction Coefficient		NRC
Unfaced	2" / 51mm	1.00
FRK-faced	2" / 51mm	0.80

Tested in accordance with ASTM C 423 on a Type E-405 mounting.

* Products are tested in accordance:

R-value	ASTM C 518
Surface Burning Characteristics	ASTM E 84
Perm Rating	ASTM E 96
Noise Reduction Coefficient	ASTM C 423

R-values differ. Find out why in the sellers fact sheet on R-values. Higher R-values mean greater insulating power.

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OWENS CORNING INSULATING SYSTEMS, LLC
ONE OWENS CORNING PARKWAY
TOLEDO, OHIO, USA 43659

1-800-GET-PINK™
www.owenscorning.com

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