



Industrial Insulation Group, LLC

A Calsilite/Johns Manville Joint Venture

MINERAL WOOL INSULATIONS COMMERCIAL

MinWool® Curtainwall SOUND AND FIRE CONTROL INSULATION

DESCRIPTION

IIG MinWool Curtainwall Insulation is made of inorganic fibers derived from basalt, a volcanic rock, with a thermosetting resin binder. Advanced manufacturing technology ensures consistent product quality, with high fiber density and low shot content, for excellent performance. Curtainwall insulation is available plain or faced with a (FSP) Scrim Reinforced Foil Facing vapor retarder on one face. MinWool Curtainwall is inorganic, non combustible, moisture resistant, non deteriorating and will not mildew or support corrosion.

MinWool Curtainwall is **GREENGUARD Indoor Air Quality Certified®** for low chemical emissions.

ADVANTAGES

Excellent Thermal Performance. With the range of R-Values and thicknesses available, MinWool Curtainwall Insulation can meet the most strict energy saving specs.

Acoustical Performance. These lightweight, flexible insulation batts are excellent sound absorbers, efficiently reducing sound transmission.

Fire Safety. MinWool Curtainwall Insulation has a melting point in excess of 2000°F (1093°C) and is classified as noncombustible by the model building codes. Is a component in two and three hour fire rated assemblies when tested in accordance with ASTM E119 (UL 263, NFPA 251) and ASTM E2307, NFPA 285, UBC 26-9. See UL Fire Resistance Directory-Perimeter Fire Containment Section for more details on IIG Systems.

Low Smoke & Flame Spread. When tested in accordance with ASTM E84, UL 723, CAN/ULC-S102-M, the unfaced insulation has a flame spread rating of 5 and a smoke developed rating of 0. The faced insulation has a flame spread rating of 25 and a smoke developed rating of 5.

Noncombustible. Unfaced CW is rated as noncombustible in accordance with ASTM E136 and CAN4-S114-M as defined by NFPA Standards 220.

Quick Installation. MinWool Curtainwall Insulation is easy to install. It is easily cut with a utility knife for convenient job site fabrication. A wide range of thicknesses facilitates optimum material usage. MinWool Curtainwall Insulation is packaged in poly shrink wrap.

Mold Resistant. IIG MinWool does not support growth of fungi.

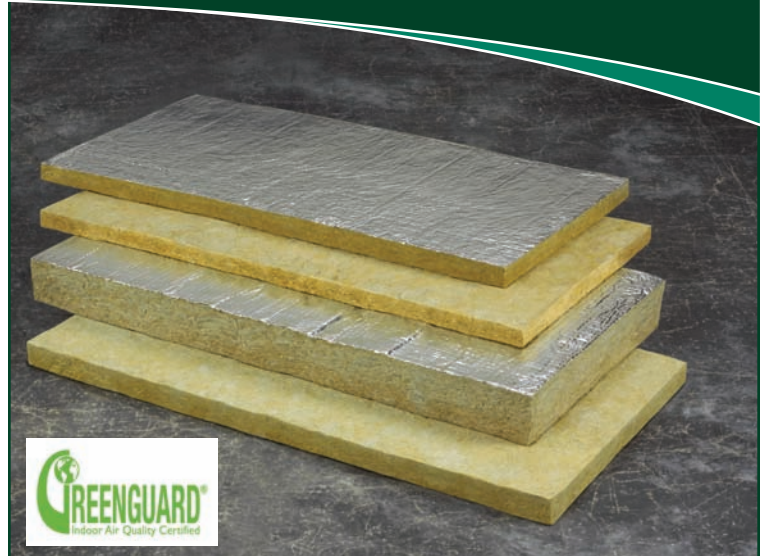
Does not sustain vermin.

APPLICATIONS

MinWool Curtainwall Insulation is designed to provide superior fire resistance and thermal properties in glass, metal, and masonry curtainwall spandrel systems. The board can be placed between or over framing members, and held in place with mechanical fasteners.

DESIGN RECOMMENDATIONS

MinWool Curtainwall Insulation may also be used in fire resistance rated wall assemblies as required by the building code. A fire suppression system may also be needed in conjunction with good construction practices to provide adequate fire protection for the building. The need for and the placement of a vapor retarder in commercial construction depends on many factors. The architect or specifier should evaluate the requirements for each project. Two hour and three hour fire rated assemblies listed in the UL Fire Resistance Directory.



MinWool® Curtainwall

AVAILABLE TYPES

MinWool Curtainwall Insulation is available in a standard size of 24" X 48" (610 mm x 1219 mm). It can also be furnished pre-cut in some non-standard lengths and widths. Made to Order, minimum order quantity may apply.

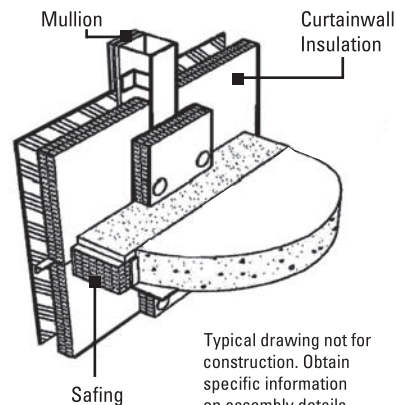
INSTALLATION

MinWool Curtainwall Insulation is easily cut with a knife for quick installation and snug fit, even around obstructions and structural members. Mechanically attach MinWool Curtainwall Insulation to the curtainwall panels or framing members by utilizing welded pins and speed clips, or other mechanically secured impaling pin system. Butt ends and edges of MinWool Curtainwall Insulation closely together and fill all voids with additional insulation.

ADDITIONAL INFORMATION, MSDS AND LEED® CERTIFICATION

Please visit our website at www.iig-llc.com.

Typical Perimeter Fire Containment Joint



Typical drawing not for construction. Obtain specific information on assembly details.

www.iig-llc.com

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IIG SAFETY
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IIG-404 07-10 (REPLACES 10-09)

MinWool® Curtainwall

SOUND AND FIRE CONTROL INSULATION

SPECIFICATION COMPLIANCE	
ASTM C423 Noise Reduction Coefficient (2" [51 mm], Type "A" Mounting)	1.05
ASTM C612 Material Specification (HH-I-558B)	Types 1-4
ASTM C665 Corrosivity to Steel	Passes
ASTM C1104 Water Vapor Sorption,	<1% By Weight: <.02% by Volume at 120°F (49°C), 95% RH
ASTM C1338 Fungi Resistant	Passes
ASTM E84 Flame Spread/Smoke Developed	Unfaced 5/0 or less; Faced 25/5 or less
ASTM E96 FSP Facing Permeability,	0.02 Perms, Maximum
ASTM E136 Noncombustible	Passes
NFPA 285	1-3 Hours
UBC 26-9	1-3 Hours
UL 723, CAN/ULC-5102-M	Unfaced 5/0 or less; Faced 25/5 or less
City of New York	MEA-346-90
ICBO (Uniform Building Code)	All Building Classification Types
BOCA (National Building Code)	All Building Classification Types
SBCCI (Standard Building Code)	All Building Classification Types
ICC (International Building Code)	All Building Classification Types

Product	Density				R Value/in. (RSI Value/25mm) (hr·ft ² ·°F)/Btu m ² ·°C/W	Width		Length		Unfaced		Faced		
	ASTM C612					R Value/in. (RSI Value/25mm) (hr·ft ² ·°F)/Btu m ² ·°C/W	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)
	Nominal (pcf)	(kg/m ³)	Actual (pcf)	(kg/m ³)										
CW4	4	64	3.0	48	4.0	0.70	24	610	48	1219	1-6	25-152	>3	>76
CW6	6	96	4.5	72	4.1	0.72	24	610	48	1219	1.5-6	38-152	2-6	51-152
CW8	8	128	6.0	96	4.2	0.74	24	610	48	1219	1-4.5	25-152	1.5-4.5	38-152

Thickness range available in 1/2" (13mm) increments. Custom lengths, widths, and thicknesses are also available. R-Value is determined in accordance with ASTM C518. The higher the R-value, the greater the insulating power.

PRODUCT CERTIFICATION

When ordering material to comply with any government specification or any other listed specification, a statement of that fact must appear on the purchase order. Government regulations and other listed specifications require specific lot testing, and prohibit the certification of compliance after shipment has been made. There may be additional charges associated with specification compliance testing. Please refer to IIG-CSP-3 for Certification Procedures and Charges. Call customer service for more information.

Industrial Insulation Group, LLC is a Calsilite/Johns Manville joint venture. IIG manufactures MinWool mineral fiber pipe, block and a variety of other insulations; Thermo-12® Gold Calcium Silicate pipe and block insulation; Super Firetemp® fireproofing board; SprouleWR-1200® Perlite pipe and block insulation; high temperature adhesives, and insulating finishing cement.

QUALITY STATEMENT

IIG Products are designed, manufactured and tested to strict quality standards in our own facilities. This along with third party auditing is your assurance that this product delivers consistent high quality.



The physical and chemical properties of the products presented herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Numerical flame spread and smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the Customer Service Office to assure current information. All Industrial Insulation Group products are sold subject to the IIG Limited Warranty and Limitation of Remedy. For a copy of the IIG Limited Warranty and Limitation of Remedy, email - info@iig-llc.com.

The GREENGUARD INDOOR AIR QUALITY CERTIFIED® Mark is a registered certification mark used under license through the GREENGUARD Environmental Institute.



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**CUSTOMER SERVICE,
TECHNICAL & GENERAL INFORMATION**

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