



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.

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

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.

ADVANTAGES

Unique Bio-Soluble Fiber. IIG MinWool has been tested and exceeds the safety requirements for solubility.

Excellent Thermal Performance. With the range of R-Values and thicknesses available, MinWool Curtainwall Insulation can meet most thermal specifications with ease.

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

Superior 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. Two hour and Three hour fire rated assemblies when tested in accordance with ASTM E 119 (UL 263, NFPA 251) and ASTM E 2307, 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 E 84, 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.

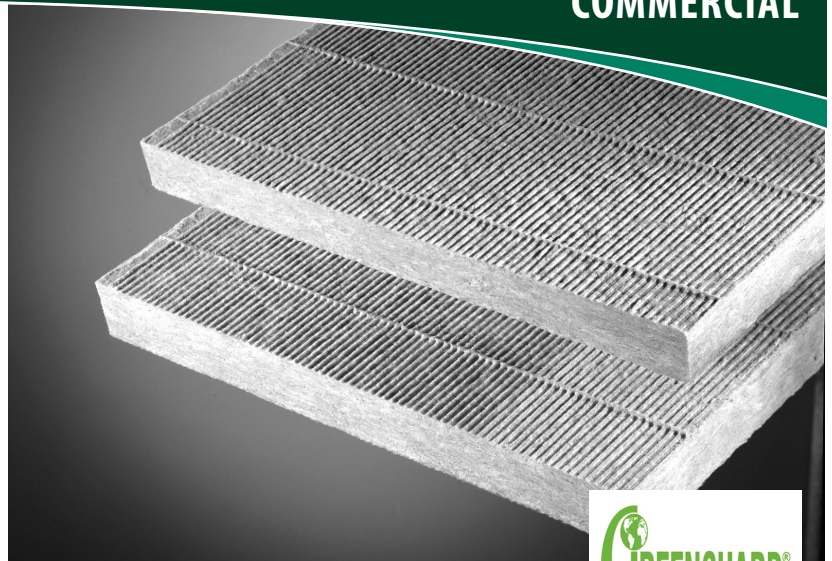
Noncombustible. They are rated as noncombustible in accordance with ASTM E 136 and CAN4-S114-M.

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 polyshrink wrap.

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

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



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hour and three hour fire rated assemblies listed in the UL Fire Resistance Directory.

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 to eliminate the need for job site fabrication and for speed of installation.

**MinWool Curtainwall is available on a made-to-order basis with FSP facing on one side only.*

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 1200 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.

When using impaling pins, follow curtainwall manufacturer's recommendations for surface preparation. Lengths should be selected to ensure tight fit. Protect pin tips where subject to contact. Follow manufacturer's instruction for clearance. Maintaining the integrity of the vapor retarder is critical for effective moisture/humidity control. Pressure-sensitive joint sealing tape should be used to cover all insulation joints. Pins, clips and any punctures or tears in the facing should be covered with vapor-sealing, pressure-sensitive patches to maintain the integrity of the vapor retarder. Follow tape manufacturer's application recommendations and instructions.

Product should not be exposed to weather during shipping, storage or installation. Follow the "Exposure Controls" and "Personal Protection" information in the Material Safety Data Sheet (MSDS) when handling this product.

Wear goggles or safety glasses with side shields while handling or installing MinWool Curtainwall Insulation. This is especially important when installing insulation overhead. A loose-fitting, long-sleeve shirt and long pants are recommended to provide skin protection. Cover shirt cuffs with glove wrist bands. Wear a hat or cap to keep dust particles out of the hair and away from the scalp.

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SPECIFICATION COMPLIANCE

ASTM C 612 (HH-I-558B)	Types 1 - 4
ASTM E 136	Noncombustible
ASTM E 2307	1 - 3 Hours
NFPA 285	1 - 3 Hours
ASTM C 1338	Passes
UBC 26-9	1 - 3 Hours
Flame Spread/Smoke Developed, ASTM E 84, UL 723, CAN/ULC-S102-M	Unfaced 5/0; Faced 25/5
Noise Reduction Coefficient, ASTM C 423 (2" [51 mm], Type "A" Mounting)	1.05
Water Vapor Sorption, ASTM C 1104	<1% By Weight at 120°F (49°C), 95% RH
FSP Facing Permeability, ASTM E 96	0.02 Perms, Maximum
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

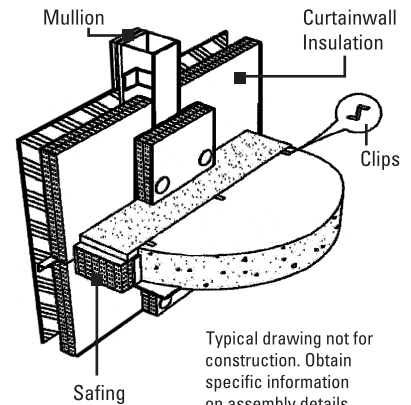
Product	Density		R Value/in.(per 25 mm)		Width		Length		Thickness			
	(pcf)	(kg/m ³)	(hr·ft ² ·°F)/Btu	m ² ·°C/W	(in.)	(mm)	(in.)	(mm)	Unfaced		Faced	
									(in.)	(mm)	(in.)	(mm)
CW4	4	64	4.0	0.70	24	610	48	1219	1-6	25-152	>3	>76
CW6	6	96	4.1	0.72	24	610	48	1219	1.5-6	38-152	2-6	51-152
CW8	8	128	4.2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

Thickness range available in 1/2" (13 mm) increments. Custom lengths, widths, and thicknesses are also available. R-Value determined in accordance with ASTM C 518. The higher the R-Value, the greater the insulating power.

GOVERNMENT 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 price page IIG-CSP-3 for Certification Procedures and Charges. Call customer service for more information.

Typical Perimeter Fire Containment Joint



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



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.

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.



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

CUSTOMER SERVICE,
TECHNICAL & GENERAL INFORMATION

(800) 866-3234

www.iig-llc.com