MinWool® Sound Attenuation Fire Batts

SOUND AND FIRE CONTROL INSULATION

DESCRIPTION

IIG MinWool Sound Attenuation Fire Batt 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 Sound Attenuation Fire Batt is inorganic, non combustible, moisture resistant, non deteriorating and will not mildew or support corrosion.

MinWool Sound Attenuation Fire Batt is **GREENGUARD Indoor Air Quality Certified®** for low chemical emissions.

ADVANTAGES

Excellent Thermal Performance. With the high R-Value and thicknesses available, MinWool Sound Attenuation Fire Batt Insulation can meet most thermal specifications with ease.

Excellent Acoustical Performance. These lightweight, flexible insulation batts are excellent sound absorbers, efficiently reducing sound transmission. Sound Attenuation Fire Batts improve the Sound Transmission Class (STC) ratings of interior partition walls and suspended ceilings. Batts can improve wall assembly STC ratings by up to 10dB.

Fire Safety. MinWool Sound Attenuation Fire Batt Insulation has a melting point in excess of 2000˚F(1093˚C). When installed in approved wall systems, the insulation provides up to a two-hour fire resistance rating when tested in accordance with ASTM E119 (UL 263, NFPA 251, ULC-S101). When tested in accordance with ASTM E84, UL 723, CAN/ULC-S102-M, MinWool Sound Attenuation Batt has a flame spread rating of 5 and a smoke developed rating of 0.

Noncombustible. MinWool Sound Attenuation Fire Batt is rated as noncombustible in accordance with ASTM E136 and CAN4-S114-M as defined by NFPA Standards 220.

Quick Installation. MinWool Sound Attenuation Fire Batt is easily cut with a knife for quick installation and snug fit, even around obstructions and structural members. Butt ends and edges closely together and fill all voids with additional insulation.

Ceilings: When approved by the ceiling system manufacturer, lay MinWool Sound Attenuation Fire Batts over designated ceiling area so that insulating material is supported by the ceiling suspension system. Grid support is not to exceed 24" (610 mm). Laying batts directly on ceiling panels so that they are the sole support of the insulation is prohibited.

Mold Resistant. MinWool Sound Attenuation Fire Batt does not support growth of fungi.

Does not sustain vermin.

APPLICATIONS

MinWool Sound Attenuation Fire Batt Insulation is designed to deliver noise control in metal stud wall cavities of interior partitions, exterior walls or above suspended ceiling systems. Friction-fit Sound Attenuation Fire Batts between metal or wood wall studs, filling the entire cavity to the full height of the wall. Leave no voids.

AVAILABLE TYPES

Standard Sizes ..... 16" x 48" (406 mm x 1219 mm)
..... 24" x 48" (610 mm x 1219 mm)
Standard Thicknesses: ..... 1", 1½", 2", 2½" and 3"

**Non-Standard Thickness of 3½" through 6" in ½" increments are available. Minimum order quantity will apply. Custom sizes are also available on a made-to-order basis.*

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DESIGN RECOMMENDATIONS

Acoustical performance of interior drywall partitions can be substantially improved by including a number of important design and construction details. Important details include sealing the perimeter of walls, wall intersection construction considerations, and the location and proper installation of electrical outlets, ducts, doors and mechanical equipment.

Perimeter Sealing
Seal walls at both bottom and top plates with a non-hardening, permanently resilient caulking such as a butyl rubber-based compound. Where required, two layers of wallboard properly staggered and joined with tape and sealing compound will effectively seal corners.

Doors
Where optimum noise control is desired, specify solid wood core doors or metal doors. Door tops and sides should be gasketed with a soft weather stripping. Use of threshold closures or air seals at the bottom of the door will reduce sound transmission. Doors opening on hallways should not open across from one another.

Electrical
Place light switches and outlets so that they are not located back-to-back. Electrical distribution panels, telephone outlets and intercom systems should be located on well-insulated interior walls only and never on party or corridor walls.

Plumbing
Design pipe runs with swing arms so expansion and contraction can occur without binding, thus eliminating any unwanted sound. Piping should also be isolated from surrounding structures with resilient mounts. Avoid installing fixtures back-to-back. In all cases, openings made in walls should be caulked to ensure optimum acoustical integrity.

Ducts
Outdoor sounds such as aircraft and traffic noise are easily transmitted into the building interior via air ducts. Give special consideration to duct design when planning the layout of new or retrofit commercial construction. Vertical ducts or ventilation shafts are frequently the cause of noise complaints. Such devices often rattle in windy areas or snap and pop due to thermal expansion and contraction.

Equipment
Whenever possible, isolate furnaces, air conditioners and HVAC equipment away from "quiet" areas. Enclose equipment in a well insulated room and install solid core doors when equipment rooms are accessible from building interiors.

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SPECIFICATION COMPLIANCE	
ASTM C423 (Type A Mounting)	Passes
ASTM C665 Corrosivity to Steel	Passes
ASTM C665 Material Specification	Type 1
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
ASTM E136 Noncombustible	Passes
UL 723, CAN/ULC-S102-M	Unfaced 5/0 or less
CAN4-S114-M	Passes
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
HH-I-558B	Form B, Type 1, Class 6
Nominal Density	2.5 pcf (40 kg/m^3)
R-Value @ 75°F	4.0 per inch of thickness

** R-Value determined in accordance with ASTM C518. The higher the R-Value, the greater the insulating power.*

ACOUSTICAL PERFORMANCE								
Thickness		Sound Absorption Coefficients 1/3 Octave Band Center Frequencies, Hz						
(in)	(mm)	125	250	500	1000	2000	4000	NRC
1½	38	0.23	0.42	0.89	1.03	1.03	1.03	0.85
2	51	0.27	0.55	1.07	1.10	1.10	1.10	0.95
2½	64	0.25	0.77	1.10	1.04	0.98	0.98	1.00
3	76	0.34	0.92	1.16	1.04	0.98	0.98	1.05
3½	89	0.41	1.01	1.20	1.06	1.06	1.05	1.10
4	102	0.97	1.28	1.25	1.10	1.10	1.09	1.20

ADDITIONAL INFORMATION, MSDS AND LEED® CERTIFICATION

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

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.

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.

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.

Industrial Insulation Group, LLC
A Calsilite/Johns Manville Joint Venture
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The physical and chemical properties 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.

CUSTOMER SERVICE,
TECHNICAL & GENERAL INFORMATION
(800) 866-3234

www.iig-llc.com

IIG-405 07-10 (REPLACES 04-08)