



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. The fibers are bonded and formed into flexible batts. The product is manufactured in thickness from 1" to 6" (appropriate metric also) and comes in standard metal stud widths. Sound Attenuation Fire Batts are not available with a facing.

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

APPLICATIONS

MinWool Sound Attenuation Fire Batt Insulation is designed to deliver noise control in metal stud wall cavities of interior partitions or above suspended ceiling systems.

ADVANTAGES

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

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 10 dB.

Superior Fire Safety. MinWool Sound Attenuation Fire Batt Insulation has a melting point in excess of 2000°F (1093°C) and is classified as noncombustible by the model building codes. When installed in approved wall systems, the insulation provides up to a two-hour fire resistance rating when tested in accordance with ASTM E 119 (UL 263, NFPA 251, ULC-S101). When tested in accordance with ASTM E 84, UL 723, CAN/ULC-S102-M, MinWool Sound Attenuation Batt has a flame spread rating of 5 and a smoke developed rating of 0.

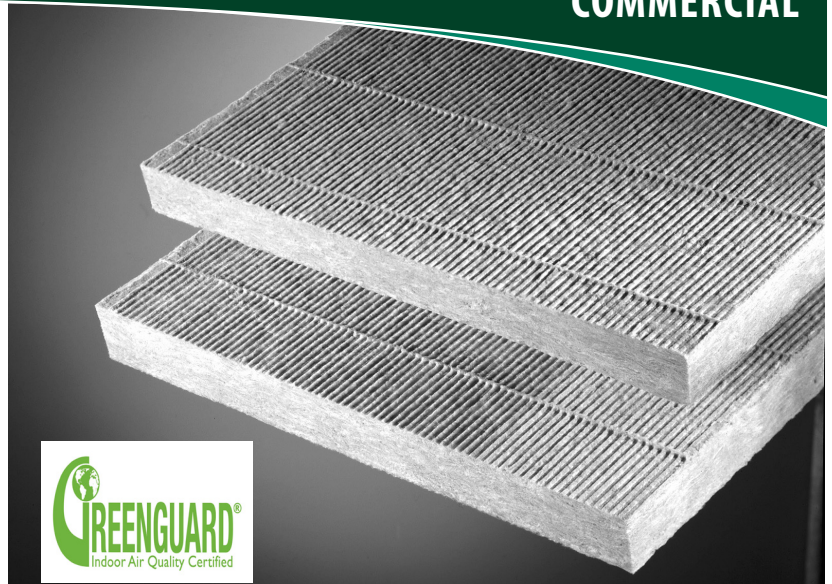
Noncombustible. MinWool Sound Attenuation Fire Batt is rated as noncombustible in accordance with ASTM E 136 and CAN4-S114-M.

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.

Interior Walls: 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.

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. IIG MinWool does not support growth of fungus.



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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.

DESIGN CONSIDERATIONS

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.

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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.

SPECIFICATION COMPLIANCE

ASTM C 665	Type 1
Flame Spread/Smoke Developed, ASTM E 84, UL 723, CAN/ULC-S102-M	Unfaced 5/0
Water Vapor Sorption, ASTM C 1104	<1% By Weight at 120°F (49°C), 95% RH
ASTM E 136	Noncombustible
ASTM C 1338	Passes
ASTM C 423 (Type A Mounting)	Passes
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-588B	Form B, Type 1, Class 6

THERMAL PERFORMANCE

Nominal Density	2.5 pcf (40 kg/m ³)
R-Value, ASTM C 5183.8 per inch (0.67 per 25 mm) of thickness

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.

INSTALLATION CONSIDERATIONS

Do not expose product 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 Sound Attenuation Fire Batts. This is especially important when installing insulation overhead. A loose-fitting, long-sleeved 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.

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

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 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.



Industrial Insulation Group, LLC

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**CUSTOMER SERVICE,
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