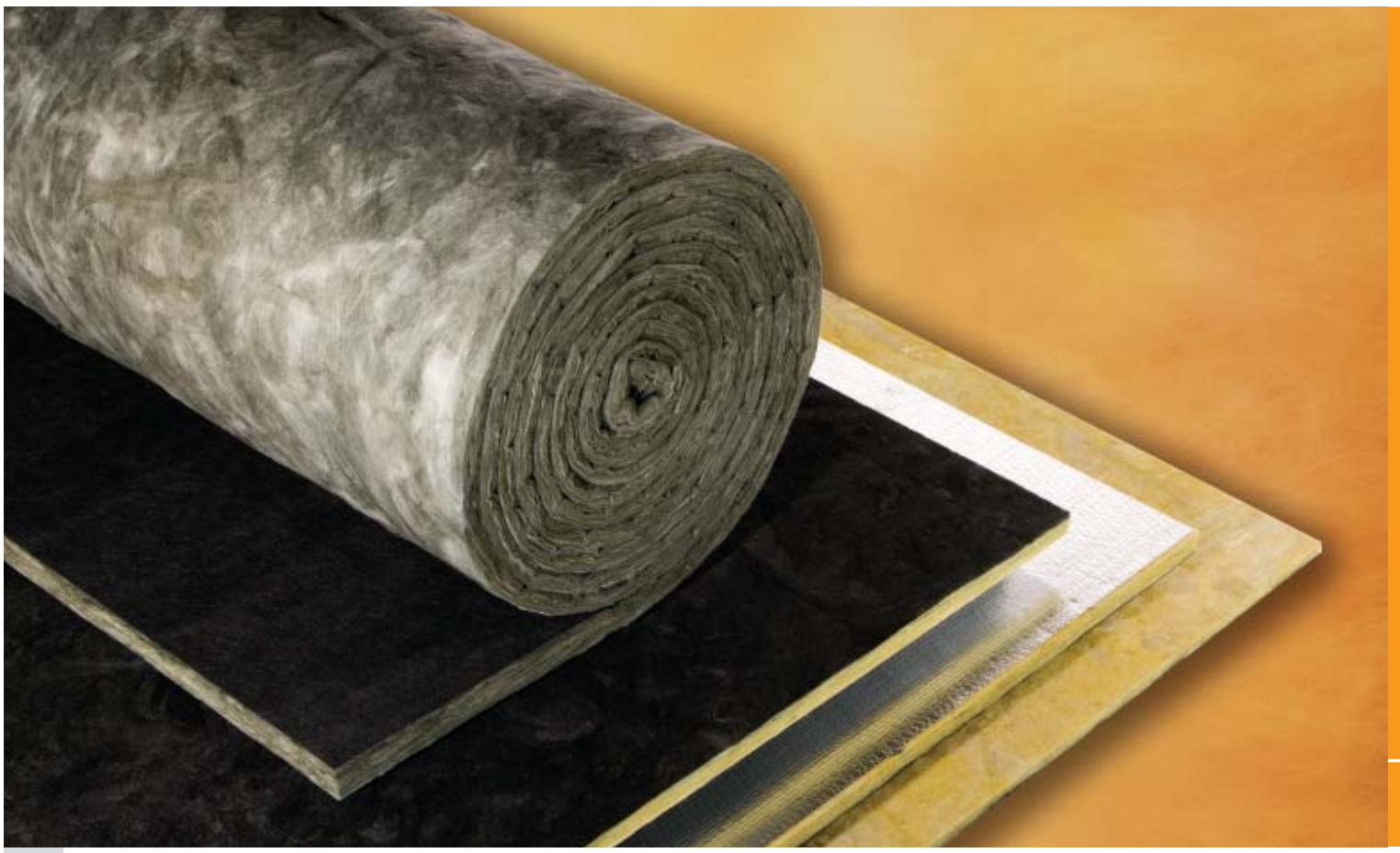
KNAUF INSULATION



Knauf Data Sheet | BI-DS-4 06-06

Theater Insulation

Theater Insulation

Knauf Theater Insulation products provide acoustical as well as thermal insulation to walls and ceilings of theaters, sound studios and auditoriums.

Wall and Ceiling Liner M

Description

Knauf Wall and Ceiling Liner M is a black flexible fiber glass blanket with a black mat facing adhered to one surface. It provides thermal and acoustical insulation while a smooth, tough surface resists damage during installation.

Applications

Knauf Wall and Ceiling Liner M is designed for use as an acoustical and visual barrier for walls and ceilings where a black surface is required. It is primarily used in theaters, sound studios, public concourses and other areas where acoustical treatment is needed. It is intended to be mechanically fastened to walls and can be covered with fabric or draping, or suspended above linear metal and metal pan ceiling systems to serve as both a visual and acoustical treatment.

Technical Data

Surface Burning (UL Classified)

Does not exceed 25 Flame Spread, 50 Smoke Developed when tested in accordance with ASTM E 84 and UL 723.

Black Acoustical Board

Description

Knauf Black Acoustical Board is a heavy density fiber glass board insulation made from inorganic glass fibers bonded by a thermosetting resin. The base board is amber with a black polymer top layer of fiber glass, with a black overspray applied to provide a smooth tough finish.

Applications

Knauf Black Acoustical Board is designed for use as acoustical insulation and/or visual barrier on walls and ceilings, where system design requires a rigid product and where additional strength and abuse resistance are required. The black surface provides a visual barrier with an aesthetic appearance, in both wall and ceiling applications. The product is typically used where framing members are not present.

Technical Data

Surface Burning (UL Classified)

Does not exceed 25 Flame Spread, 50 Smoke Developed when tested in accordance with ASTM E 84, NFPA 255 and UL 723.

Insulation Board

Description

Knauf Insulation Board is a thermal and acoustical insulation product made from inorganic glass fibers preformed into boards bonded by a thermosetting resin. The board is available plain, with a factory applied foil-scrim-kraft (FSK) facing, with a factory-applied all service jacket (ASJ) or with a factory applied metalized polypropylene-scrim-kraft jacket (PSK).

Applications

Knauf Insulation Board is a versatile product for use on metal and masonry walls, wall and roof panel systems, curtain wall assemblies and cavity walls.

Technical Data

Surface Burning (UL Classified)

Does not exceed 25 Flame Spread, 50 Smoke Developed when tested in accordance with NFPA 90A and 90B, ASTM E 84, NFPA 255 and UL 723 and CAN/ULC S102-M88.

Wall & Ceiling Liner Noise Reduction Coefficients
(ASTM C 423, Type A Mounting)

Density	Thickness	NRC
1.0 PCF (16 kg/m³)	1" (25 mm)	.60
	1½" (38 mm)	.80
	2" (51 mm)	.85
1.5 PCF (24 kg/m³)	½" (13 mm)	.50
	1" (25 mm)	.70
	1½" (38 mm)	.80
	2" (51 mm)	.90
2.0 PCF (32 kg/m³)	½" (13 mm)	.45
	1" (25 mm)	.70

Available in 48" (1219 mm) wide rolls in lengths of 100' or 50' (30.48 or 15.24 m). Contact your Knauf sales representative for additional information.

Black Acoustical Board Sound Absorption Coefficients
(ASTM C 423, Type A Mounting)

		1/3 Octave Band Center Frequency (cycles/sec.)						
Density	Thickness	125	250	500	1000	2000	4000	NRC
2:25 PCF (36 kg/m³)	2" (51mm)	.26	.62	1.05	1.07	1.04	1.05	.95
3.0 PCF (48 kg/m³)	1" (25 mm)	.13	.24	.56	.83	.92	.98	.65
	1½" (38 mm)	.19	.41	.89	1.02	1.03	1.04	.85
	2" (51 mm)	.33	.67	1.07	1.07	1.03	1.06	.95

Available 24" (610 mm) wide x 48" (1219 mm) long.

Insulation Board Sound Absorption Coefficients
(ASTM C 423, E 795, Type A Mounting)

			1/3 Octave Band Center Frequency (cycles/sec.)						
Type	Surface	Thickness	125	250	500	1000	2000	4000	NRC
2.25 PCF (36 kg/m³)	FSK	1" (25 mm)	.05	.24	.59	.86	.97	1.00	.65
		1½" (38 mm)	.17	.49	.93	1.03	1.03	`.99	.85
		2" (51 mm)	.26	.62	1.05	1.07	1.04	1.05	.95
3.0 PCF (48 kg/m³)	Plain	1" (25 mm)	.08	.23	.62	.88	.96	.99	.65
		1½" (38 mm)	.09	.39	.89	1.03	1.06	1.01	.85
		2" (51 mm)	.29	.65	1.11	1.13	1.06	1.03	1.00
		3" (76 mm)	.54	1.01	1.18	1.07	1.07	1.04	1.10
		4" (102 mm)	.95	1.11	1.17	1.07	1.07	1.06	1.10
	FSK	1" (25 mm)	.21	.63	.84	.93	.51	.22	.75
		1½" (38 mm)	.45	.60	.99	.73	.53	.27	.70
		2" (51 mm)	.67	.77	.93	.74	.47	.28	.75

Available in widths of 24" (610 mm) and 48" (1219 mm) and lengths of 36" (915 mm) to 120" (3048 mm).

- Knauf Wall and Ceiling Liner offers excellent acoustical and thermal values.

- Knauf Black Acoustical Board is rigid and strong for applications where strength and abuse resistance is needed.

- Knauf Insulation Board is versatile for a variety of applications.

KNAUF INSULATION

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Technical Support	(800) 825-4434, ext. 8212
Customer Service	(866) 445-2365
Fax	(317) 398-3675
World Wide Web	www.KnaufInsulation.com

Fiber Glass and Mold

Fiber glass insulation will not sustain mold growth. However, mold can grow on almost any material when it becomes wet and contaminated with organic materials. Carefully inspect any insulation that has been exposed to water. If it shows any sign of mold it must be discarded. If the material is wet but shows no evidence of mold, it should be dried rapidly and thoroughly. If it shows signs of facing degradation from wetting, it should be replaced.

U.S. GREEN BUILDING COUNCIL MEMBER

LEED Eligible Product

Use of this product may help building projects meet green building standards as set by the Leadership in Energy and Environmental Design (LEED) Green Building Rating System.
Credit 4.1 - 4.2 Recycled Content
Credit 5.1 - 5.2 Regional Materials