



### Diffuser Board

#### Fiber Glass Insulation Board

#### Description

Diffuser Board is a 4 pcf density board made from strong, resilient glass fibers bonded with a thermosetting resin. The airstream surface of the Diffuser Board features a black coated surface that minimizes visibility of the board at the diffuser and register boxes. Diffuser Board is available plain or with an FSK (foil-scrim-kraft) facing laminated to the exterior surface of the board.

#### Uses

Diffuser Board provides thermal performance, acoustical performance and a vapor barrier in one product for easy fabrication. It is specifically designed for use in fabricating air diffusers and register boxes.

#### Facing Information

FSK Aluminum Foil

Reinforced with fiber glass scrim laminated to UL rated kraft.

Permeance: .02 perms\*

*\* Per ASTM E 96, Procedure A for facing material prior to lamination. After lamination, permeance values may be higher.*

#### General Properties

Operating temperature (max.)	ASTM C411	250°F (121°C)
Air velocity (max.) –	ASTM C1071	2000 fpm (10.2 m/sec)

#### Standard Thicknesses and Packaging

Diffuser Board is available palletized. Available sizes are follows:

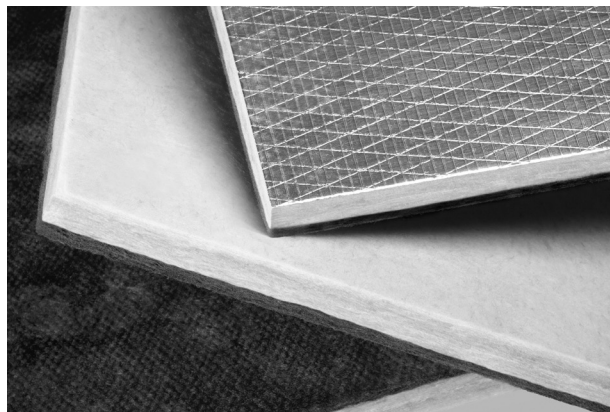
Size		Thickness	
in	mm	in	mm
48 x 96	1219 x 2438	1", 1 3/8"	25, 35
44 x 104	1118 x 2642	1", 1 3/8"	25, 35
52 x 104	1321 x 2642	1", 1 3/8"	25, 35

#### Surface Burning Characteristics

Diffuser Board meets the Surface Burning Characteristics and Limited Combustibility of the following standards:

Standard/Test Method

• ASTM E 84	Maximum Flame Spread Index	25
• UL 723	Maximum Smoke Developed Index	50



#### Thermal Performance

Thickness		R-value		Conductance	
in	mm	(hr•ft <sup>2</sup> •°F)/Btu	m <sup>2</sup> •°C/W	Btu/(hr•ft <sup>2</sup> •°F)	W/m <sup>2</sup> •°C
1	25	4.3	0.76	0.23	1.31
1 3/8	34	6.0	1.04	0.17	0.96

*R-Value and Conductance are calculated from the material thermal conductivity tested in accordance with ASTM C 518 at 75°F (24°C) mean temperature.*

#### Sound Absorption Coefficients (Type "A" Mounting)

Thickness		Sound Absorption Coefficient at Frequency (Cycles per Second) of						
in	mm	125	250	500	1000	2000	4000	NRC
1	25	0.05	0.20	0.68	0.92	0.94	1.03	0.70
1 3/8	34	0.09	0.32	0.86	0.98	0.97	1.00	0.80

*Coefficients were tested in accordance with ASTM C 423 and ASTM E 795.*

#### ISO 9000 Certification

Johns Manville mechanical insulation products are designed, manufactured and tested in our own facilities, which are certified and registered to stringent ISO 9000 (ANSI/ASQC 90) series quality standards. This certification, along with regular independent third-party auditing for compliance, is your assurance that Johns Manville products deliver consistent high quality.



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The physical and chemical properties of the Diffuser Board listed 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 Regional Sales Office nearest you to assure current information. **All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, including Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions, Limited Warranty and Limitation of Remedy, and information on other Johns Manville thermal insulation and systems, call (800) 654-3103.**

♻️ Printed on recycled paper.

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