

DuraCore™
HVAC Equipment Insulation

Description

DuraCore Fiber Glass Insulation is a lightweight, highly resilient, blanket-type insulation made from borosilicate glass fibers. The insulation blanket is fiber glass bonded with a thermosetting phenolic resin and is designed to provide this product with excellent core strength.

DuraCore is an excellent choice for HVAC equipment applications because it provides high acoustical values in the high and low frequency ranges normally encountered in HVAC equipment.

JM DuraCore is manufactured with solid, consistent fiber and binder distribution to produce a stronger insulation with enhanced core strength that makes it stiffer and less susceptible to delamination.

State-of-the-art glass technology produces a lower thermal conductivity ("k") value to meet all your thermal performance requirements, in an easier-handling blanket.

Equipment Applications

The glass fibers in DuraCore insulation are noncombustible, non-hygroscopic, and do not support fungi or vermin.

DuraCore meets typical industry standards for core and tensile strength, which makes the product more resistant to damage during lamination and installation. Because of its resiliency and flexibility, DuraCore resists settling, breakdown, sagging from vibration, and damage from impact. DuraCore insulation conforms easily around corners and curved surfaces and is readily cut in die presses or with a knife.

Applications

HVAC Equipment

- Fan coils
- Furnaces
- Air conditioners
- Air handlers

Advantages

- **Higher core strength** to resist delamination and allow easier, quicker fabrication for greater productivity
- **Lower thermal conductivity** for better thermal performance
- **Less dust** for comfortable handling

Available Forms

DuraCore is available in 1.8 pcf (28.8 kg/m³) and 2.0 pcf (32.0 kg/m³), ½", ¾" and 1" thick blankets, and several standard widths. You can order other widths to fit your specific requirements on a special order basis. See DuraCore Purchase Guide, DC-IS-390 for more detailed information.

Custom Fabrications

The Johns Manville nationwide network of Approved Fabricators specializes in secondary processing to supply custom parts to meet specific customer requirements. Die-cutting, laminating, special packaging and just-in-time delivery are just a few of the multiple capabilities our fabricators can provide.



Specifications

Temperature Limit	350°F (177°C) (unfaced)
Meets Requirements of ASTM C 1071, Type I, Rolls (with the exception of air erosion resistance)	
Fire Hazard Classification (FHC)	25/50 Flame Spread/Smoke Developed Ratings (per ASTM E 84, UL 723, and CAN/ULC S102-M88). Labels supplied when requested on order. Meets NFPA 90A and 90B.

Green Building Attributes

Recycled Content*	
Post-consumer Glass	20% minimum
Pre-consumer Glass	5%

* North American plant-wide average

Green Building Certifications

Recycled Content	SCS Certified
LEED® Credits	See JM.com/buildgreen JM LEED Credit Guide HIG-1231



DuraCore contains 20% post-consumer recycled glass

DuraCore™

HVAC Equipment Insulation

Thermal Conductivity (k) per ASTM C 618

Mean Temp. @ 75°F (24°C)

Btu•in/(hr•ft ² •°F)	W/m•°C
0.24	0.035

Acoustical Performance

Sound Absorption Coefficients* Type "A" Mounting

Thickness		Frequency (Hz)							NRC**
in.	mm	125	250	500	1000	2000	4000		
½	13	0.03	0.11	0.33	0.56	0.72	0.85	0.40	
¾	19	0.06	0.16	0.42	0.68	0.83	0.95	0.50	
1	25	0.05	0.24	0.59	0.82	0.94	1.05	0.65	

* Tested in accordance with ASTM C 423 and ASTM E 795.

** Noise Reduction Coefficient

Note: Values above are for both 1.8 pcf and 2.0 pcf blankets.



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Technical Information

(800) 458-7198

The physical and chemical properties of DuraCore™ HVAC Equipment Insulation 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 insulations and systems, call (800) 654-3103.**

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