

Flex-Glas® EQ

Formaldehyde-free™ Flexible Duct Insulation

Description

Flex-Glas EQ Formaldehyde-free™ insulation is a brown, lightweight, highly resilient, blanket-type thermal material. The insulation blanket is manufactured from rotary-process fiber glass bonded with a special thermosetting formaldehyde-free resin made primarily from renewable plant-based materials. Flex-Glas EQ provides excellent acoustical and thermal performance.

Uses

Flex-Glas EQ is designed for use in the manufacture of insulated flexible ducts for HVAC applications.

General Properties

Operating temperature (max.) – ASTM C411	250°F (121°C)
Water vapor sorption – ASTM C1104	<5% by weight
Corrosivity with steel – ASTM C665	Does not accelerate
Fungi resistance – ASTM C1338	Does not breed or promote

Standard Thicknesses and Packaging

Type	R-value	Thickness		Length	
		in	mm	ft	m
100	4.2	1¼	32	175	53
130	6.0	2	51	150	46
135	8.0	2½	64	125	38

Note: Custom-sized widths are available between 19" (483 mm) and 96" (2438 mm). Contact your Regional Sales Office for availability.



Surface Burning Characteristics

Flex-Glas EQ meets the Surface Burning Characteristics and Limited Combustibility of the following standards:

Standard/Test Method

- ASTM E84
- UL 723
- NFPA 90A and 90B
- UL Guide No. 40 U8.3. Card R3711
- CAN/ULC S102-1188

Maximum Flame Spread Index	25
Maximum Smoke Developed Index	50

The Underwriters Laboratories-recognized component label is printed on the Flex-Glas EQ packaging.

Installed Thickness and Thermal Performance (ASTM C518)

Type	Minimum Installed Thickness		R-value (hr•ft²•°F)/Btu	m²•°C/W	k* Btu•in/(hr•ft²•°F)	W/m•°C
	in	mm				
100	1½	29	4.2	0.74	0.27	0.039
130	1¾	41	6.0	1.06	0.27	0.039
135	2¼	57	8.0	1.41	0.28	0.041

*Conductivity at 75°F (24°C) mean temperature at minimum installed thickness.

Green Building Certifications

Recycled Content	SCS Certified
ES 1350	Meets Requirements
ENERGY STAR®	Yes
LEED® Credits	See JM.com/buildgreen,
LEED®-NC	JM LEED® Credit Guide (HIG-1231)

Recycled Content

15% average post consumer

JM Certified Formaldehyde-free™ Fiber Glass Insulation

JM certified Formaldehyde-free™ fiber glass insulation offers superior thermal and acoustical performance—and it improves indoor air quality because it's made without formaldehyde. Why is that important? Because the U.S. Environmental Protection Agency (U.S. EPA) recommends limiting exposure to formaldehyde as much as possible, and the California Air Resources Board, a division of the California EPA, recommends that builders and architects use building materials and insulation made without formaldehyde.



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Limitation of Liability

Although Flex-Glas EQ displays the UL-recognized component label for air ducts, UL 181 specifies performance requirements for the insulation component as well as the entire duct assembly. JM Flex-Glas EQ meets the fiber glass insulation properties per UL 181, but this DOES NOT guarantee the performance requirements for the entire duct assembly.



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The physical and chemical properties of the Flex-Glas® EQ 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 ensure 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.