

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 Underswriters 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.



PLUS FORMALDEHYDE FREE
SCIENTIFIC CERTIFICATION SYSTEMS
SCS-IAQ-02088

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Product Recommendation

To meet thermal and performance properties of the finished duct, Johns Manville recommends that flexible ducts produced using Flex-Glas® EQ be packaged at a length compression ratio of 12:1 or less.

Limitation of Liability

Flex-Glas® EQ Flexible Duct Insulation is designed for use in composite flexible duct systems seeking to meet UL 181 material requirements. Although the insulation carries the UL Recognized Component label for use in air ducts, this recognized component labeling does not guarantee that the finished flexible duct composite product will meet UL 181 air duct material requirements for flexible air ducts. Flex-Glas® EQ Insulation for Flexible Duct is just a component of a product, and UL 181 measures the performance of the complete assembly.

North American Sales Offices, Insulation Systems

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Fax: (419) 784-7866

Western Region and Canada

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Denver, CO 80202
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Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The physical and chemical properties of 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. Any references to numerical flame spread or 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 for current information.

All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on other Johns Manville thermal insulation and systems, visit www2.jm.com/terms-conditions or call (800)654-3103.

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