Johns Manville
A Berkshire Hathaway Company

HVAC INSULATION

SPIRAL SG®

FIBERGLASS DOUBLE-WALL INSULATION

DATA SHEET

DESCRIPTION

Spiral SG® Double Wall Insulation is a thermal and acoustical insulation designed for use in double wall spiral HVAC ducts. Spiral SG is made from rotary-process glass fibers bonded with a thermosetting resin.

ADVANTAGES

Spiral SG is offered in a range of densities and thicknesses to optimize thermal and acoustical performance. It is made from rotary-process glass fibers bonded with a thermosetting resin, improving tensile strength and flexibility. The resilient fiber glass blanket is resistant to damage during transportation and fabrication.

USES

Spiral SG offers improved tensile strength and flexibility that make it ideal for insulating double wall HVAC Ducts.

STORAGE

Spiral SG should be kept clean and dry during storage, transport, fabrication, installation, and system operation.

THERMAL CONDUCTIVITY

Type	Density		K Value 75°F (24°C) Mean Temp	
	PCF	KG/M^3	BTU•in/(hr•ft^2•°F)	W/M•°C
75	0.75	12	0.30	0.043
85	0.85	14	0.27	0.039
100	1.04	17	0.26	0.037
125	1.20	19	0.25	0.036
150	1.56	25	0.24	0.035

SUSTAINABLE BUILDING ATTRIBUTES

CERTIFIED RECYCLED CONTENT SCS GLOBAL SERVICES

AVERAGE 13% RECYCLED CONTENT POST-CONSUMER

CLASSIFIED UL

Duct liner is UL Classified for E84
Duct Liner UL file: R3711



SPECIFICATION COMPLIANCE

ASTM	E 84	**NFPA**	90A and 90B
CAN/ULC	S102	**UL**	723

PERFORMANCE SPECIFICATIONS

Service Temp Max	350°F (177°C)
Corrosivity (ASTM C665)	Does not accelerate
Fire Hazard Classification	25/50 - Labels supplied when requested on order
Surface Burning Characteristics	Max Flame Spread 25 Max Smoke Developed Index 50
Water Sorption (ASTM C1104)	<5% by weight

AVAILABLE SIZES

Type "A" Mounting Sound Absorption Coefficients*

Type	Thickness		Frequency (Hz)						
	IN.	**MM.**	**125**	**250**	**500**	**1000**	**2000**	**4000**	**NRC****
85	1	25	0.11	0.31	0.60	0.80	0.90	0.93	0.65
	2	51	0.16	0.60	0.92	0.98	0.97	1.01	0.85
100	1	25	0.09	0.30	0.60	0.77	0.89	0.93	0.65
	2	51	0.18	0.64	0.99	1.02	1.01	1.04	0.90
150	1	25	0.10	0.28	0.62	0.84	0.95	0.97	0.65
	2	51	0.22	0.71	1.03	1.08	1.05	1.02	0.95

*Tested in accordance with ASTM C423 and ASTM E795

**Noise reduction coefficient

Johns Manville

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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 Spiral SG 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.

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