



ALLEY WRAP FSK™ is a lightweight, highly resilient thermal insulation blanket faced with an FSK (foil, scrim, kraft) facing. Manufactured from high quality flame attenuated glass fibres, ALLEY WRAP FSK™ has excellent thermal and acoustical properties. The extremely fine, long glass fibres are bonded with a thermosetting binder.

USES

ALLEY WRAP FSK™ is used to insulate round or irregular shaped ductwork and equipment. Both the thermal and acoustical properties of this insulation make it ideal for use in any application that requires sound attention.

AVAILABILITY

Manufactured dimensions are listed below. Please check with your market manager for information on other thicknesses, widths, and lengths.

DENSITY pcf (kg/m ³)		THICKNESS		WIDTH		ROLL LENGTH	
.75	12	1", 1½"	25.4 mm, 38 mm	48"	1219 mm	100'	30.5 m
.75	12	2"	51 mm	48"	1219 mm	75'	22.9 m
1.0	16	1½"	38 mm	48"	1219 mm	100'	30.5 m
1.0	16	2"	51 mm	48"	1219 mm	50'	15.2 m
1.5	24	1½"	38 mm	48"	1219 mm	50'	15.2 m

PRODUCT FEATURES

WATER ABSORPTION (ASTM C1104)
Less than 1% by volume

CORROSIVITY (ASTM C665)
Does not cause corrosion

BACTERIA FUNGI RESISTANCE (ASTM 665)
Does not breed or promote growth

ODOUR EMISSION (ASTM C1304)
Absence of any detectable odour

LINEAR SHRINKAGE (ASTM C356)
Less than 1.5%

CONTRACTOR:

JOB NAME:

DATE:

Manson Insulation Inc.

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ALLEY WRAP FSK™

Thermal Blanket Insulation
Temperature Limit: 250°F (121°C)



SPECIFICATION COMPLIANCE

ALLEY WRAP FSK™ insulation complies with the property requirements of the following specifications for thermal and acoustical insulations:

CGSB 51-GP-11M
Canadian specification for mineral fibre blanket insulation

ASTM C553 Mineral fibre blanket thermal insulation for commercial and industrial applications

FIRE HAZARD CLASSIFICATION
(UL 723, CAN/ULC-S102M, ASTM E84)
Flame Spread not exceeding 25 and Smoke Developed not exceeding 50

ALLEY WRAP FSK™ insulation is approved by the Canadian Coast Guard for use in Canadian registered ships

ALLEY WRAP FSK™ facing complies with the property requirements of the following specifications for thermal and acoustical insulations:

CGSB 51-GP-52M

ASTM C1136

SMOKE OPACITY AND FLAME SPREAD
(ASTM E662, ASTM E162) Exceeds requirement for optical opacity of smoke generated and flame spread as per Department on Transportation, Urban Mass Transit Division

NFPA 90A
Standard for the Installation of Air-Conditioning and Ventilating Systems

NFPA 90B
Standard for the Installation of Warm Air Heating and Air-Conditioning Systems

ACOUSTICAL PERFORMANCE (ASTM C423 • A Mounting)		0.75 pcf (12 kg/m ³) ASTM C423 (A MOUNTING)							
		THICKNESS		FREQUENCY (Hz)					
in	mm	125	250	500	1000	2000	4000		
1"	25	0.11	0.31	0.59	0.75	0.85	0.85	0.60	
1½"	38	0.15	0.51	0.77	0.90	0.97	0.94	0.80	
2"	51	0.23	0.72	0.97	1.00	1.02	1.08	0.95	

THERMAL CONDUCTIVITY (ASTM C518)		DENSITY		THICKNESS		K-VALUE		R-VALUE	
		pcf	kg/m ³	in	mm	Btu.in/hr ft ² .°F	W/m ² .°C	Btu.in/hr ft ² .°F	m ² .°C/W
0.75	12	1"	25.4	0.270	0.039	3.7	0.65		
		1½"	38	0.270	0.039	5.5	0.98		
		2"	51	0.270	0.039	7.4	1.30		
1	16	1½"	38	0.270	0.039	5.5	0.98		
		2"	51	0.270	0.039	7.4	1.30		
1.5	24	1½"	38	0.236	0.034	6.4	1.12		
		2"	51	0.236	0.034	8.5	1.49		

Tested in accordance with ASTM C518 at 75°F (24°C) mean temperature.

INSTALLATION

Manson ALLEY WRAP FSK™ is usually installed in accordance with the procedure in the publication "Commercial & Industrial Standards" by the National Insulation Association (NIA).

Manson Insulation Inc. has no control over installation design, installation workmanship, accessory materials, or conditions of application. Manson does not warrant the performance or results of any installation containing their products. This warranty disclaimer includes all implied warranties, including the warranties of merchantability and fitness for a particular purpose.



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