



ALLEY WRAP™

Fiberglass Blanket Insulation
450°F (232°C)



ALLEY WRAP™ is a lightweight, highly resilient blanket insulation. Manufactured from high quality flame attenuated glass fibres, ALLEY WRAP™ has excellent thermal and acoustical properties. The fine, long glass fibres are bonded with a thermosetting binder.

USES

ALLEY WRAP™ is used to insulate round or irregular shaped ductwork and equipment. Besides being an excellent thermal insulation, ALLEY WRAP™ has exceptional acoustic properties that makes it ideal for use in any application that requires sound attenuation.

AVAILABILITY

Manufactured sizes are offered with different thermal and acoustical properties designed to meet the performance requirements and degree of structural integrity required. Please check with your market manager for information on other sizes.

DENSITY		ROLL LENGTHS							
pcf	(kg/m ³)	½"	13 mm	1"	25 mm	1 ½"	38 mm	2"	51 mm
0.75	12			100'	30.5 m	100'	30.5 m	100'	30.5 m
1.0	16	200'	61.0 m	100'	30.5 m	100'	30.5 m	50'	15.2 m
1.5	24	100'	30.5 m	100'	30.5 m	50'	15.2 m	50'	15.2 m

PRODUCT FEATURES

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

CORROSION RESISTANCE (ASTM C665) Will not cause corrosion

ALKALINITY AND pH
(CGSB-51-GP-11M) Maximum alkalinity 0.5% (Na₂O), pH maximum: 12

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%

SPECIFICATION COMPLIANCE

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

ASTM C553 Standard Specifications for Mineral Fibre Blanket
Thermal Insulation for Commercial and Industrial Applications

CGSB 51-GP-11M
Canadian Specification for Mineral Fibre Blanket Insulation.

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

SMOKE OPACITY AND FLAME SPREAD
(ASTM E662, ASTM E162) Exceeds requirements for optical opacity of smoke generated and flame spread, as per Department of 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 Ventilation Systems

CONTRACTOR:

JOB NAME:

DATE:

Manson Insulation Inc.

3000 Matte Blvd Brossard, QC J4Y 2H5 Canada

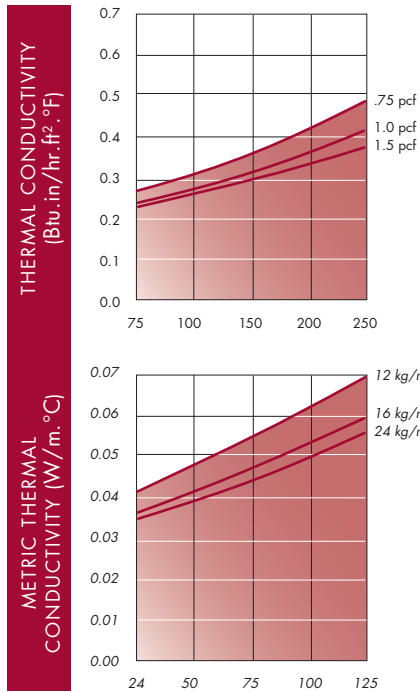
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THERMAL PERFORMANCE CONDUCTIVITY (ASTM C518)

MEAN TEMP		THERMAL CONDUCTIVITY					
°F	°C	Btu.in./hr.ft².°F			W/(m.°C)		
		.75 pcf	1.0 pcf	1.5 pcf	12 kg/m³	16 kg/m³	24 kg/m³
75	24	.28	.25	.24	.041	.036	.035
100	50	.31	.27	.26	.048	.042	.040
150	75	.36	.31	.30	.055	.047	.044
200	100	.42	.36	.34	.062	.054	.050
250	125	.48	.41	.38	.070	.060	.056

0.75 pcf (12 kg/m³) ASTM C423 (A MOUNTING)

ACOUSTICAL PERFORMANCE

THICKNESS		FREQUENCY (Hz)						
in	mm	125	250	500	1000	2000	4000	NRC
½"	13	0.06	0.12	0.27	0.44	0.53	0.61	0.35
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

1.0 pcf (16 kg/m³) ASTM C423 (A MOUNTING)

ACOUSTICAL PERFORMANCE

THICKNESS		FREQUENCY (Hz)						
in	mm	125	250	500	1000	2000	4000	NRC
½"	13	0.04	0.13	0.28	0.51	0.67	0.80	0.40
1"	25	0.14	0.32	0.65	0.86	0.94	0.95	0.70
1½"	38	0.15	0.46	0.86	0.99	1.06	0.99	0.85
2"	51	0.25	0.83	1.06	1.06	1.07	1.07	1.00

1.5 pcf (24 kg/m³) ASTM C423 (A MOUNTING)

ACOUSTICAL PERFORMANCE

THICKNESS		FREQUENCY (Hz)						
in	mm	125	250	500	1000	2000	4000	NRC
½"	13	0.03	0.10	0.27	0.54	0.73	0.88	0.40
1"	25	0.21	0.62	0.70	0.87	0.94	0.98	0.80
1½"	38	0.05	0.46	0.87	1.02	1.07	1.01	0.85
2"	51	0.30	0.95	1.14	1.08	1.04	1.05	1.05

INSTALLATION

Manson Alley Wrap™ 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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