



AK BOARD™ is a rigid, lightweight board produced from flame attenuated glass fibres. The extremely fine, long glass fibres are bonded with a thermosetting binder. AK BOARD™ has excellent thermal and acoustical characteristics. It is available in yellow or black; plain, or with a smooth and rigid glass mat surface (HD).

USES

AK BOARD™ is used for thermal and acoustical insulation on flat or rectangular surfaces and large diameter vessels. Some typical applications include ducts, flues, air-handling equipment, power generation systems, process vessels, and tanks.

AVAILABILITY

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

THICKNESS		WIDTH		LENGTH	
1"	25 mm	24"	610 mm	48"	1219 mm
1½"	38 mm	24"	610 mm	48"	1219 mm
2"	51 mm	24"	610 mm	48"	1219 mm
3"	76 mm	24"	610 mm	48"	1219 mm

PRODUCT FEATURES

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

ALKALINITY AND pH
(CGSB-51-GP-10M) Maximum alkalinity 0.5% (Na₂O), pH maximum: 12

CORROSIVITY (In accordance with ASTM C665) Will not cause corrosion

STRESS CORROSION
AK BOARD™ exceeds the requirements of ASTM C692 and hence will not promote stress corrosion cracking of austenitic stainless steel.

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

HOT SURFACE PERFORMANCE Rated to 450°F (232°C), ASTM C411

LINEAR SHRINKAGE
Less than 0.10% after 6 hours at 400°F (205°C)
Less than 0.5%, ASTM C356 at 650°F (343°C)

CONTRACTOR:

JOB NAME:

DATE:

Manson Insulation Inc.

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www.isolationmanson.com



AK BOARD™

Fiberglass Board Insulation

Temp Limit: 450°F (232°C)



SPECIFICATION COMPLIANCE

CGSB 51-GP-10M
Canadian Specification for mineral fibre board insulation.

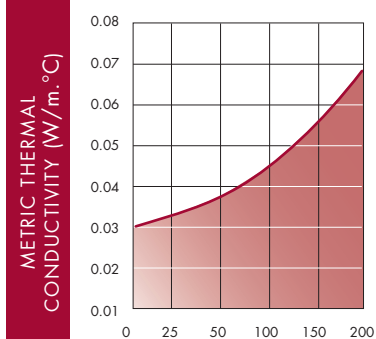
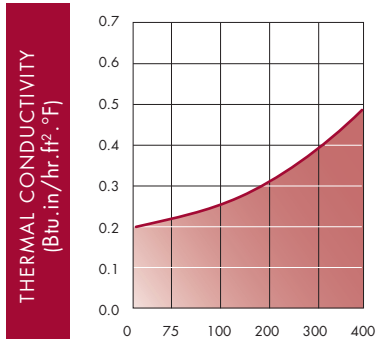
ASTM C612
Standard specification for mineral fibre board insulation

AK BOARD™ 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

FIRE HAZARD CLASSIFICATION
(UL 723, CAN/ULC-S102M, ASTM E84, NFPA255)
Flame Spread Index not exceeding 25 and Smoke Developed Index not exceeding 50

ACOUSTICAL PERFORMANCE (ASTM C423 • A Mounting)	THICKNESS		FREQUENCY (Hz)						
	in	mm	125	250	500	1000	2000	4000	NRC
	1"	25	0.09	0.28	0.66	0.89	0.93	0.81	0.70
	1½"	38	0.18	0.47	0.92	1.00	1.02	0.81	0.85
	2"	51	0.25	0.76	1.09	1.07	1.03	0.83	1.00
	3"	76	0.50	1.12	1.23	1.13	1.08	0.89	1.15



THERMAL PERFORMANCE CONDUCTIVITY (ASTM C1177)

MEAN TEMPERATURE		THERMAL CONDUCTIVITY	
°F	°C	Btu.in./hr.ft².°F	W/(m.°C)
0	0	0.200	0.0307
75	24	0.234	0.0337
100	50	0.247	0.0375
200	100	0.312	0.0462
300	150	0.393	0.0569
400	200	0.491	0.0696

INSTALLATION

Manson AK BOARD™ 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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