



AK BOARD™ is a thermal and acoustical insulation product made from inorganic glass fibers preformed into boards bonded by a thermosetting resin. It is available plain, with a factory applied FSK or All Service Jacket (ASJ) facings.

USES

MANSON AK BOARD™ is a versatile product for thermal and acoustical applications such as: heating and air conditioning ducts, power and process equipment, boiler and stack installations, metal and masonry walls, wall and roof panel systems, curtain wall assemblies and cavity walls.

AVAILABILITY

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

24" X 48" SLEEVE		THICKNESS						
PLAIN	DENSITY	1.0"	1.5"	2.0"	2.5"	3.0"	3.5"	4.0"
	1.60#	n/a	192	144	112	96	80	72
	2.25#	240	160	112	96	80	64	56
	3.00#	160	112	80	64	56	48	40
	6.00#	112	72	56	n/a	n/a	n/a	n/a

24" X 48" CARTON		THICKNESS						
FSK	DENSITY	1.0"	1.5"	2.0"	2.5"	3.0"	3.5"	4.0"
	1.60#	n/a	64	48	40	32	48	24
	2.25#	96	64	48	40	32	48	24
	3.00#	96	64	48	40	32	48	24
	6.00#	96	64	48	n/a	n/a	n/a	n/a

24" X 48" CARTON		THICKNESS						
ASJ	DENSITY	1.0"	1.5"	2.0"	2.5"	3.0"	3.5"	4.0"
	3.00#	96	64	48	n/a	n/a	n/a	n/a
	6.00#	96	64	48	n/a	n/a	n/a	n/a

STOCK ITEM
 MADE TO ORDER ONLY
 CURRENTLY UNAVAILABLE

INSTALLATION

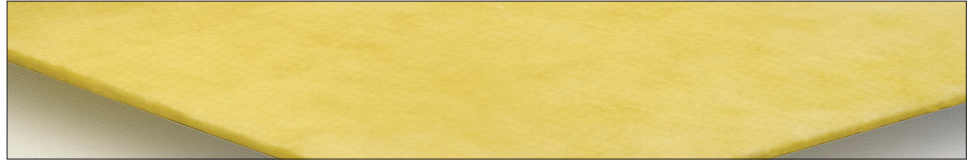
Manson AK BOARD™ is usually installed in accordance with the procedure in the publication "Commercial & Industrial Standards" by the National Insulation Association (NIA).

Manson Insulation Products LTD. 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.

CONTRACTOR:
JOB NAME:
DATE:

AK BOARD™

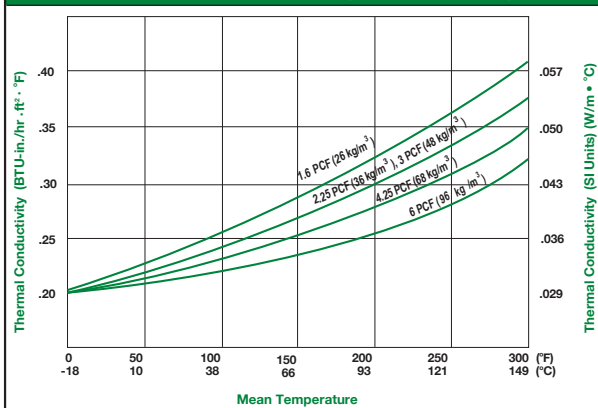
Fiberglass Board Insulation
Temperature Limit: 450°F (232°C)



Sound Absorption Coefficients (ASTM C 423, Type A Mounting)

Type	Facing	Thickness	1/3 Octave Band Center Frequency (cycles/sec.)						
			125	250	500	1000	2000	4000	NRC
1.6 PCF (26 kg/m ³)	Plain	1½" (38 mm)	.19	.44	.86	.98	1.00	1.02	.80
		2" (51 mm)	.31	.57	.96	1.04	1.03	1.03	.90
		2½" (64 mm)	.43	.82	1.12	1.07	1.04	1.03	1.00
		3" (76 mm)	.47	.92	1.17	1.06	1.06	1.04	1.05
2.25 PCF (36 kg/m ³)	Plain	1" (25 mm)	.05	.24	.59	.86	.97	1.00	.65
		1½" (38 mm)	.17	.49	.93	1.03	1.03	.99	.85
	FSK	2" (51 mm)	.26	.62	1.05	1.07	1.04	1.05	.95
		1" (25 mm)	.14	.69	.81	.99	.55	.27	.75
3.0 PCF (48 kg/m ³)	Plain	2" (51 mm)	.63	.76	1.11	.75	.42	.22	.75
		1" (25 mm)	.08	.23	.62	.88	.96	.99	.65
		1½" (38 mm)	.09	.39	.89	1.03	1.06	1.01	.85
		2" (51 mm)	.29	.65	1.11	1.13	1.06	1.03	1.00
	FSK	3" (76 mm)	.54	1.01	1.18	1.07	1.07	1.04	1.10
		4" (102 mm)	.95	1.11	1.17	1.07	1.07	1.06	1.10
		1" (25 mm)	.21	.63	.84	.93	.51	.22	.75
		1½" (38 mm)	.45	.60	.99	.73	.53	.27	.70
	ASJ	2" (51 mm)	.67	.77	.93	.74	.47	.28	.75
		1" (25 mm)	.15	.71	.65	.82	.41	.16	.65
		1½" (38 mm)	.42	.55	.91	.69	.40	.23	.65
		2" (51 mm)	.75	.71	.80	.66	.41	.24	.65
6.0 PCF (96 kg/m ³)	Plain	1" (25 mm)	.05	.26	.77	1.04	1.04	1.03	.80
		1½" (38 mm)	.61	.47	.78	.61	.51	.35	.60
		2" (51 mm)	.13	.58	1.01	1.05	1.00	1.01	.90
	FSK	1" (25 mm)	.23	.65	.39	.48	.47	.32	.50
		1½" (38 mm)	.61	.47	.78	.61	.51	.35	.60
	ASJ	2" (51 mm)	.77	.50	.72	.58	.53	.41	.60
		1½" (38 mm)	.60	.46	.62	.48	.47	.31	.50
		2" (51 mm)	.77	.44	.60	.50	.41	.30	.50

THERMAL EFFICIENCY (ASTM C177)



Mean Temperature	1.6 PCF		3.0 PCF		6.0 PCF	
	k	k (SI)	k	k (SI)	k	k (SI)
75°F (24°C)	.24	.035	.23	.033	.22	.032
100°F (38°C)	.25	.036	.24	.035	.23	.033
200°F (93°C)	.33	.048	.29	.042	.27	.039
300°F (149°C)	.42	.061	.37	.053	.34	.049

SPECIFICATION COMPLIANCE

ASTM C612

Standard specification for mineral fibre board insulation
- Type IA (1.6, 2.25, 3.0, 6.0 pcf) (26, 36, 48, 96 kg/m³)
- Type IB (3.0, 6.0 pcf) (48, 96 kg/m³)

ASTM C 795

ASTM C 1136 (facings): FSK: Type II, IV
ASJ: Type I, II, III, IV

California Title 24

Corrosiveness (ASTM C 665)

- Will not accelerate corrosion of aluminum, steel or copper.
- Meets the stress corrosion requirements of ASTM C 795, MIL-I-24244C and NRC 1.36.

Puncture Resistance (TAPPI Test T803) (Beach Units)

- FSK facings: 25
- ASJ facings: 50

Water Vapor Transmission (ASTM E 96, Procedure A)

- FSK & ASJ vapor retarders have a maximum vapor transmission rate of .02 perms.

Water Vapor Sorption (ASTM C 1104)

- Less than 5% by weight when exposed to air at 120°F (49°C) and 95% humidity for 96 hours.

Shrinkage (ASTM C 356)

- Less than 0.3% linear shrinkage.

Microbial Growth (ASTM C 1338, G21, G22)

- Does not promote or support the growth of mold, fungi or bacteria.

CGSB 51-GP-10M

Canadian Specification for mineral fibre board insulation.

FIRE HAZARD CLASSIFICATION (UL 723, CAN/ULC-S102-M-88, ASTM E84, NFP90A & 90B)
Flame Spread Index not exceeding 25 and Smoke Developed Index not exceeding 50