

ENGINEERING MATERIAL SPECIFICATION

Material Name

Specification Number

FIBERBOARD, LAMINATED - ALUMINUM FOIL LINED – INSULATOR

Ñ ESB-M3E79-A

Ñ ESB-M3E79-B

1. SCOPE

The material defined by these specifications is a laminated, aluminum foil lined, kraft fiberboard of good quality and uniform construction.

2. APPLICATION

These specifications were released originally for the following materials:

▽ ESB-M3E79-A as a thermal barrier and insulator under carpeting and/or other floor cover materials.

▽ ESB-M3E79-B as a replacement for asbestos/resin - bonded seat belt anchor insulator ▽ ESB-M8G145-A.

3. REQUIREMENTS

3.1 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

Material suppliers and part producers must conform to the Company's Standard Requirements For Production Materials (WSS-M99P1111-A).

3.2 CONSTRUCTION

Shall be constructed of a laminated core of kraft and reclaimed fiber plies, sized to reduce water absorption. Laminated to each side of the core shall be an outer liner of 0.00030 in (8 µm) No. 1145-0 grade reflective aluminum foil which is mounted on hard sized kraft paper using casein/neoprene adhesive or equivalent. The aluminum foil liner shall cover both sides of the finished board.

3.3 FINISH

(FLTM BI 109-01)

Shall be equal to or better than that of the sample approved for production by the Textile Engineering Section, Body Materials Engineering Department.

Date	Action	Revisions
2002 09 17	Revised	Updated and renumbered
1980 02 14		Released ▽ ESB-M3E79-B CAK1-DR583043-1
1974 07 17		Released ▽ ESB-M3E79-A AE1-6000-39

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3.4	THICKNESS, nominal (ASTM D 645, METHOD "A")	<u>Ñ ESB-M3E79-A</u>	<u>Ñ ESB-M3E79-B</u>
		0.110 in(2.79 mm) or as specified on engineering drawing	0.055 in(1.40 mm) or as specified on engineering drawing
3.5	WEIGHT (ASTM D 646)		
		Nominal lb/100 ft ² (g/m ²)	40.5 (989)
		Minimum lb/100 ft ² (g/m ²)	38.5 (940)
3.6	BURSTING STRENGTH, min (ASTM D 2529, 3 bursts on each side)	4.3 lb/0.001 in (753 N/mm) of thickness f	
3.7	MOISTURE CONTENT , based on original weight, max (ASTM D 644, 4 x 4 in (100 x 100 mm) sample, split)	12.0 %	
3.8	TENSILE STRENGTH, min (ASTM D 828 at 12 in (300 mm)/min)		
		WMD lb/in (KN/m) of width	500 (88)
		AMD lb/in (KN/m) of width	250 (44)
3.9	WATER ABSORPTION,max (FLTM BS 4-1, Method "A", sample size 12 x 12 in (300 x 300 mm), 24 h immersion)	20 %	
3.10	WARP, max (FLTM BS 2-1, 24 h water immersion)		
		WMD	4.0 %
		AMD	4.0 %
3.11	DIMENSIONAL STABILITY (FLTM BS 3-1, Part "B")	Expansion, % max	Contraction, % max
		WMD	0.7 %
		AMD	1.0 %