

**Description**

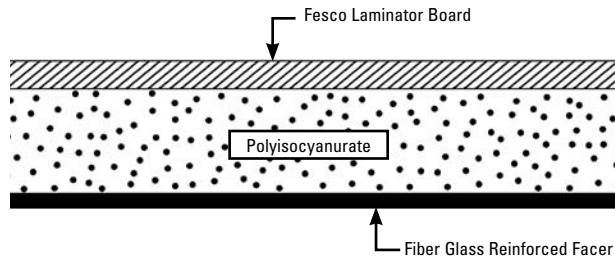
Johns Manville (JM) Fesco Foam is a rigid roof insulation board composed of a closed cell polyisocyanurate foam core bonded in the foaming process to Fesco Laminator Board on one side and a fiber glass reinforced facer on the other. Fesco Laminator Board is an expanded perlite mineral aggregate board.

Fesco Foam meets the physical property requirements of ASTM C 1289, Type III. Tapered Fesco Foam is also available.

**Use**

Fesco Foam is designed for use as a high thermal roof insulation board over metal, nailable, and non-nailable roof decks in BUR, modified bitumen and certain single ply roofing systems. It can be installed using hot asphalt, cold adhesives or mechanical fasteners. Fesco Foam has been rated in numerous FM Global® 1A-60 and 1A-90 fire and wind-resistant systems, is classified by Underwriters Laboratories Inc. as an approved roof insulation in specific Class A constructions and Roof/Ceiling hourly fire-rated assemblies, and is classified by Underwriters Laboratories Canada.

JM also supports NRCA Bulletin #9 in recommending that a cover board of Fesco® Board or ½" (1.27 cm) Retro-Fit™ Board be installed over foam insulations in hot membrane systems.



**Energy and the Environment**

<b>LEED®</b>	<b>Recycled Content</b>		
	Postconsumer:	See chart below	
	Postindustrial:	See chart below	
	<b>Producing Locations</b>		
	Bremen, IN Fernley, NV	Jacksonville, FL Cornwall, ONT	Hazleton, PA

**Advantages**

- High thermal efficiency
- Excellent mopping surface
- Resists indentation and crushing
- Easy to handle
- Complies with EPA requirements and meets Clean Air Act Amendments of 1990
- Third-party certification with the PIMA Quality Mark™ for Long-Term Thermal Resistance (LTTR) values.

**Typical Physical Properties**

	<b>Values</b>	<b>Test Method</b>
Water Absorption, % by Volume – 2 hours	1.5 max.	ASTM C 209
Dimensional Stability Change 7 days @ 158°F (70°C), 90-100% RH		
Lengthwise	<2%	ASTM D 2126
Crosswise	<2%	
Compression Resistance* 10% Consolidation–psi (kPa)	20 (138) nom.	ASTM D 1621
Laminar Tensile Strength psi (kPa)	4 (28)	ASTM C 209
Moisture Vapor Transmission*	<1 perm 57.5 ng/(Pa•s•m²)	ASTM E 96
Flame Spread*	35 max.	ASTM E 84
Service Temperature	-100°F - 250°F (-73°C - 121°C)	

\*Foam core only.

**For Use over Metal Decks**

The minimum thickness of Fesco Foam Roof Insulation over metal decks is as follows:

<b>Width of Rib Opening</b>	<b>Up to 4¾" (Max.) (11.75 cm)</b>
Thickness of Insulation (Minimum)	1.5" (3.81 cm)

**Sizes**

Fesco Foam is available in 4' x 4' (1.22 m x 1.22 m) or 4' x 8' (1.22 m x 2.44 m) boards and thicknesses of 1½" (3.81 cm) to 4.0" (10.16 cm). Fesco Foam is available with ½" (1.27 cm) perlite. It is also available with ¾" (1.91 cm) perlite as a special product request.

**Thermal Performance**

Thickness (nom.) (in.) (cm)	LTTR* R-Value	C-Value	Recycled Content			
			Post Ind. (%)	Post Cons. (%)	Total (%)	
1.5	3.81	7.4	0.135	4	31	34
1.8	4.57	9.2	0.109	5	28	33
2.0	5.08	10.4	0.096	5	27	33
2.3	5.84	12.3	0.081	6	26	32
2.5	6.35	13.5	0.074	6	25	31
2.6	6.60	14.2	0.070	6	25	31
2.8	7.11	15.4	0.065	7	23	30
3.0	7.62	16.7	0.060	7	23	30
3.5	8.89	19.9	0.050	8	21	28
3.7	9.40	21.2	0.047	8	20	28
4.0	10.16	23.1	0.043	9	18	27

\* The Long-Term Thermal Resistance (LTTR) values were determined in accordance with CAN/ULC S770.

The ultimate R-Value of these products will depend on individual installation circumstances.

Refer to the Material Safety Data Sheet and product label prior to using this product.