

Fesco® Foam

Description

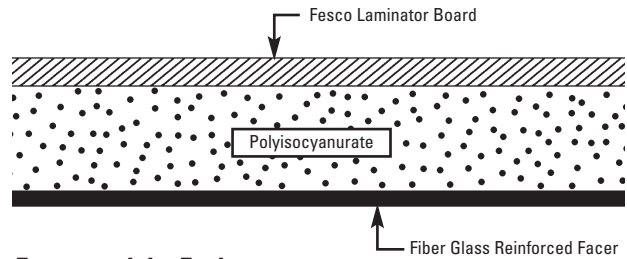
Johns Manville (JM) Fesco Foam is a rigid roof insulation board composed of a closed cell polyisocyanurate foam core bonded in the foaming process to Fesco Laminator Board on one side and a fiber glass reinforced facer on the other. Fesco Laminator Board is an expanded perlite mineral aggregate board.

Fesco Foam meets the physical property requirements of ASTM C 1289-01, Type 3. 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 Factory Mutual Class 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, Fiber Glass™ Roof Insulation or ½" (13 mm) Retro-Fit® Board be installed over foam insulations in hot membrane systems.



Energy and the Environment

LEED	Recycled Content	
	Post Consumer:	See chart below
	Post Industrial:	See chart below
	Producing Locations:	
	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

	Values	Test Method
Water Absorption, % by Volume – 2 hrs.	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° to 250°F (-73° to 121°C)	

*Foam core only.

For Use Over Metal Decks

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

Width of Rib Opening	Up to 4%" (Max.) (117 mm)
Thickness of Insulation (Minimum)	1.5" (38 mm)

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" (38 mm) to 4.0" (102 mm). Fesco Foam is available with ½" (13 mm) perlite. It is also available with ¾" (19 mm) perlite as a special product request.

Thermal Performance

Thickness (nom.) (in.)	(mm)	LTTR* R-Value	C-Value	Recycled Content		
				Post Ind. (%)	Post Cons. (%)	Total (%)
1.5	038	7.4	0.135	4	31	34
1.8	046	9.2	0.109	5	28	33
2.0	051	10.4	0.096	5	27	33
2.3	058	12.3	0.081	6	26	32
2.5	064	13.5	0.074	6	25	31
2.6	066	14.2	0.070	6	25	31
2.8	071	15.4	0.065	7	23	30
3.0	076	16.7	0.060	7	23	30
3.5	089	19.9	0.050	8	21	28
3.7	094	21.2	0.047	8	20	28
4.0	102	23.1	0.043	9	18	27

* The Long Term Thermal Resistance (LTTR) values were determined in accordance with CAN/ULC S 770.

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.