

Description

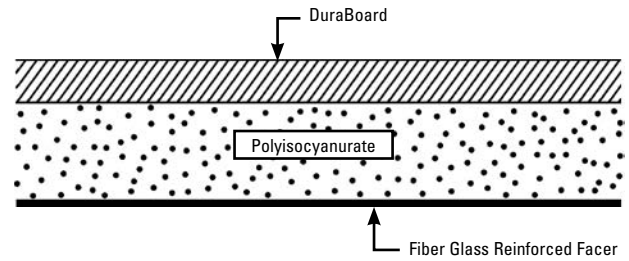
Johns Manville (JM) DuraFoam is a high-thermal rigid roof insulation board composed of a closed cell polyisocyanurate foam core bonded in the foaming process to DuraBoard™, an expanded perlite mineral aggregate board.

The top surface of DuraFoam is sealed with a special polymerized asphalt emulsion coating to allow for the direct application of SBS or APP membranes utilizing heat-weld application techniques.

Use

DuraFoam is designed primarily for use as a roof insulation board in new and recover applications over metal, nailable and non-nailable roof decks in SBS and APP heat-weld applied membrane systems. It can also be applied in BUR, modified bitumen and certain single ply roofing systems using hot asphalt, cold adhesive, or mechanical fasteners.

JM 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

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

Advantages

- High thermal efficiency
- 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 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	ASTM E 96
	57.5 ng/(Pa•s•m²)	
Flame Spread*.....	25 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 DuraFoam Roof Insulation over metal decks is as follows:

Width of Rib Opening	Up to 4⅝" (Max.) (11.75 cm)
Thickness of Insulation (Minimum)	1.5" (3.81 cm)

Sizes

DuraFoam 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). DuraFoam 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.)	LTTR*	Recycled Content				
		Post Ind.	Post Cons.	Total		
(in.)	(mm)	R-Value	C-Value	(%)	(%)	(%)
1.5	38	7.20	0.139	5	34	39
1.8	46	9.00	0.111	5	31	36
2.0	51	10.20	0.098	6	30	36
2.3	58	12.10	0.083	7	29	35
2.5	64	13.30	0.075	7	28	35
2.6	66	14.00	0.071	7	28	34
2.8	71	15.20	0.066	7	26	33
3.0	76	16.50	0.061	8	25	33
3.5	89	19.70	0.051	8	23	31
3.7	94	21.00	0.048	9	22	31
4.0	102	22.90	0.044	9	20	29

* 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.