

High-Density layer meets the requirements of ASTM C 1289, Type II, Class 4, Grade 1

Standard-Density layer meets the requirements of ASTM C 1289, Type II, Class 2

Currently no ASTM designation for this composite.

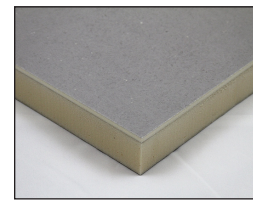
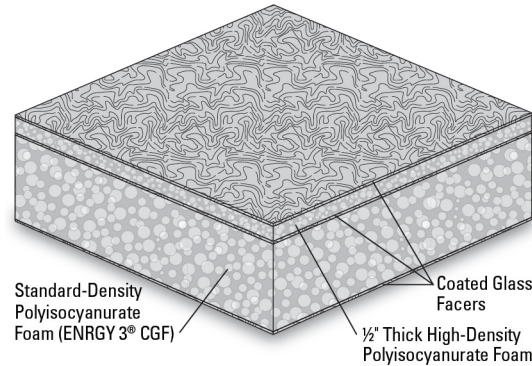
Features and Components

High-Density Protector HD: Provides a high compressive strength protective layer for insulation while working with the membrane above to ensure maximum performance and longevity.

Standard-Density Foam (ENRGY 3 CGF): Closed cell polyisocyanurate foam manufactured inline to create a homogeneous board with Protector HD and coated glass facers.

Inorganic Coated Glass Facers: (With no cellulose) Provide improved resistance to mold growth, as well as a smooth surface that performs well with self-adhering systems, and efficient adhesive application in fully adhered single ply systems.

Cost Savings: Installation labor savings by combining cover board and insulation into a single board. Eliminates adhesive cost to adhere cover board to insulation.



Component

I
Insulation

Multi-Ply
Single Ply

Type

HT
High Thermal

CP
Composite

HD
High Density

System Compatibility This product may be used as a component in the following systems. Please reference product application for specific installation methods and information.

Multi-Ply	BUR		APP		SBS			
	HA	CA	HW	HA	CA	HW	SA	MF
<i>Compatible with the selected multi-ply systems above</i>								

Single Ply	TPO				PVC			EPDM		
	MF	AD	SA	IW	MF	AD	IW	MF	AD	BA
<i>Compatible with the selected single ply systems above</i>										

Key: HA = Hot Applied CA = Cold Applied HW = Heat Weldable SA = Self Adhered MF = Mechanically Fastened IW = Induction Weld BA = Ballasted AD = Adhered

Energy and the Environment

LEED®	Recycled Content	Varies with thickness, see <i>Product Data and Packaging</i> table on back page.
Produced with environmentally compliant pentane blowing agent with zero ozone depletion (conforms to the Montreal Protocol of 1987).		

Peak Advantage® Guarantee Information

Systems
For use in approved JM Peak Advantage Roofing Guarantees

Codes and Approvals



- FM® Standards 4450/4470 Approvals (refer to FM RoofNav™)
- UL® Standard 790, 263 and 1256 (refer to UL Roofing Materials system directory)
- Third-party certification with the PIMA Quality Mark™ for Long-Term Thermal Resistance (LTTR) values

Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The Safety Data Sheet is available by calling (800) 922-5922 or on the web at www.jm.com/roofing. The physical and chemical properties of the product listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Check with the regional sales representative nearest you for current information.

Installation/Application



Refer to the insulation application instructions guidelines for proper utilization of this product.

Packaging and Dimensions

Standard Sizes ¹	48" x 48" (1.22 m x 1.22 m)
Pallet per Truck ²	48
Producing Locations ³	Bremen, IN Hazleton, PA

1. For available thicknesses, see *Product Data and Packaging* table on back side of this data sheet. Contact your JM Sales Representative for details.
2. This product requires a min. half truckload order quantity.
3. This product is only available as a made-to-order item and as such, a minimum of a two week lead time should be anticipated.

All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on other Johns Manville roofing products and systems, visit www.jm.com/terms-conditions.

Typical Physical Properties

Test		ASTM	Values
Strength	Tensile Strength	C 209	500 psf (24 kPa) (<i>min</i>)
	Compressive Strength (top), psi (kPa)	D 1621	Grade 1 - 109 psi (751 kPa) (<i>max</i>)
	Compressive Strength, (bottom) @ 10% Deformation	C 1621	20 psi (138 kPa) (<i>min</i>)
	Dimensional Stability, % Linear Change, (<i>nom</i>)	D 2126	0.5%
Moisture	Moisture Vapor Permeance, perm (ng/(Pa*s*m ²)), (<i>max</i>)	E 96	<1 perm, 57.5 ng/(Pa*s*m ²)
	Water Absorption, % by vol	C 209	1.0 (<i>max</i>)
	Resistance to Mold	D 3273	Pass (10)
Installation	Service Temperature	D 1623	-100°F to 250°F (-73°C to 121°C)
	Flame Spread each layer, (<i>foam core</i>)	E 84	20 - 30 (<i>nom</i>)
	Smoke Developed, (<i>foam core</i>)	E 84	55 - 250 (<i>nom</i>)

Product Data and Packaging

Thickness		Long-Term Thermal Resistance (LTTR) Values ¹ (hr•ft ² •°F)/BTU	Total Recycled Content ² (all pre-consumer)	Boards/Pallet	Square Feet/Pallet	Pallets/Truck ³
in.	mm			4x4	4x4	4x4
2.0	50.8	11.1	6.87%	24	384	48
2.5	63.5	13.9	7.57%	19	304	
3.0	76.2	16.9	8.09%	16	256	
3.5	88.9	19.9	8.62%	13	208	
4.0	101.6	23.0	8.99%	12	192	
4.5	114.3	26.1	9.29%	10	160	

1. The Long-Term Thermal Resistance (LTTR) values were determined in accordance with CAN/ULC S770 at 75°F (24°C). The ultimate R-Value of these products will depend on individual installation circumstances. 2. Value represents average results. 3. Assumes 48' flatbed truck.

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