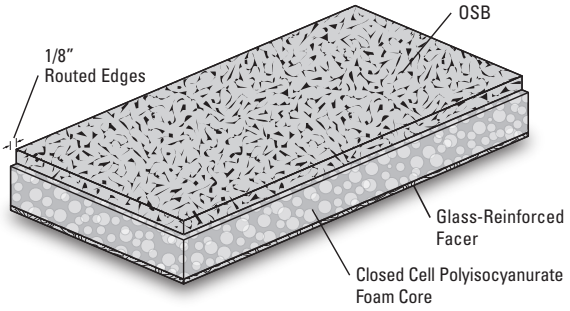
Nailboard®

Polyisocyanurate Nailable Roof Insulation

Meets the requirements of ASTM C 1289, Type V (available with 20 or 25 psi ENRGY 3®)



Component
I Insulation
Multi-Ply
Single Ply

Type
HT High Thermal
CP Composite

Features and Components

Oriented Strand Board (OSB): Provides a strong nailable surface; always install wood side up. Available wood thickness standard 7⁄16" or 5⁄8" thick rated "1 OSB". Wood edges are routed 1⁄8" to allow for expansion and contraction of the wood.

ENRGY 3: Closed cell polyisocyanurate foam core bonded inline to the wood base on one side and a glass-reinforced facer on the other. Nailboard can also be manufactured off-line using an adhesive between the wood and ENRGY 3.

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	CA	HW	HA	CA	HW	SA
	Do not use in Multi-Ply systems							

Single Ply	TPO		PVC		EPDM		
	MF	FA	MF	FA	MF	FA	BA
	Compatible with the selected Single Ply systems above						

Key: **HA** = Hot Applied **CA** = Cold Applied **HW** = Heat Weldable **SA** = Self Adhered **MF** = Mechanically Fastened **FA** = Fully Adhered **BA** = Ballasted

Energy and the Environment

LEED®	Recycled Content	Varies with thickness, see *Product Data and Packaging* table on back page.
Produced with a pentane blowing agent with zero ozone depletion and virtually no global warming potential.		

Peak Advantage® Guarantee Information

Systems
Contact Guarantee Services regarding system warranty availability.

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)
- California Code of Regulations, Title 24, Insulation Quality Standard License #TI-1341
- Third-party certification with the PIMA Quality Mark™ for Long-Term Thermal Resistance (LTTR) values
- Incorporates APA/TECO Rating Sheathing Exposure 1 OSB

Installation/Application

Mechanically Fastened

- All Nailboards must be mechanically attached with JM-approved fasteners Nail-Lok™ SD and Nail-Lok™ WD.
- Install Nailboard wood-side up.
- Foam edges should contact each other to achieve thermal performance.
- Refer to the insulation installation instructions for proper utilization of this product.

Packaging and Dimensions

Foam Size	4′ x 8′ (1.22 m x 2.44 m)
Producing Locations	Bremen, IN

1. For available thicknesses, see *Product Data and Packaging* table on back side of this data sheet. Contact your JM Sales Representative for details.

Refer to the Safe for Use instructions and product label prior to using this product. The Safe for Use instructions are available by calling (800) 922-5922 or on the Web at www.jm.com/roofing.

Note: Technical information on this data sheet is intended to be used as a general guideline only and is subject to change without notice. Contact your JM Sales Representative for further details.

Johns Manville

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Typical Physical Properties (ENRGY 3® Foam Layer Only)

Test		ASTM Values	Nailboard Results
Strength	Tensile Strength	C 209	500 psf (24 kPa) *(min)*
	Compression Resistance 10% Consolidation	D 1621	20 psi (140 kPa) *(min)*, 25 psi (172 kPa) *(min)*
	Dimensional Stability Change, *(length & width)*	D 2126	2% linear *(max)*
Moisture	Water Absorption	C 209	1.0% *(max)*
Installation	Service Temperature	D 1623	-100°F – 250°F (-73°C – 121°C)
	Flame Spread, *(foam core)*	E 84	20 - 30
	Smoke Developed, *(foam core)*	E 84	55 - 250

Product Data and Packaging

Composite Thickness[1]		7/16" (1.11 cm) OSB					5/8" (1.59 cm) OSB					Boards per Pallet	Square Feet per Pallet	Pallets per Truck[4]
		Long-Term Thermal Resistance (LTTR) Values[2]		Weight		Total Recycled Content	Long-Term Thermal Resistance (LTTR) Values[2]		Weight		Total Recycled Content			
in.	mm	(hr•ft²•°F)/ BTU	m²•°C/W	lb/ft²	kg/m²	%	(hr•ft²•°F)/ BTU	m²•°C/W	lb/ft²	kg/m²	%			
2.0	51	9.2	1.61	1.75	8.54	2.8						24	768	24
2.1	53	9.7	1.71	1.76	8.61	2.8	9.2	1.62	2.37	1.07	2.8%	21	672	
2.2	56	10.3	1.81	1.78	8.68	2.8	9.7	1.71	2.38	1.08	2.8%	20	640	
2.3	58	10.9	1.91	1.79	8.74	2.8	10.3	1.81	2.39	1.09	2.8%	20	640	
2.4	61	11.4	2.01	1.80	8.81	2.8	10.9	1.91	2.41	1.09	2.8%	19	608	
2.5	64	12.0	2.11	1.82	8.88	2.9	11.4	2.01	2.42	1.10	2.8%	19	608	
2.6	66	12.6	2.22	1.83	8.94	2.9	12.0	2.11	2.43	1.10	2.8%	18	576	
2.7	69	13.2	2.32	1.85	9.01	2.9	12.6	2.22	2.45	1.11	2.9%	17	544	
2.8	71	13.8	2.43	1.86	9.08	2.9	13.2	2.32	2.46	1.12	2.9%	16	512	
2.9	74	14.4	2.53	1.87	9.15	2.9	13.8	2.43	2.48	1.12	2.9%	16	512	
3.0	76	15.0	2.64	1.89	9.21	2.9	14.4	2.53	2.49	1.13	2.9%	16	512	
3.1	79	15.6	2.74	1.90	9.28	2.9	15.0	2.64	2.50	1.14	2.9%	14	448	
3.2	81	16.2	2.85	1.91	9.35	3.0	15.6	2.74	2.52	1.14	2.9%	14	448	
3.3	84	16.8	2.96	1.93	9.41	3.0	16.2	2.85	2.53	1.15	2.9%	14	448	
3.4	86	17.4	3.06	1.94	9.48	3.0	16.8	2.95	2.54	1.15	2.9%	13	416	
3.5	89	18.0	3.17	1.96	9.55	3.0	17.4	3.06	2.56	1.16	2.9%	13	416	
3.6	91	18.6	3.28	1.97	9.62	3.0	18.0	3.17	2.57	1.17	3.0%	12	384	
3.7	94	19.2	3.39	1.98	9.68	3.0	18.6	3.28	2.59	1.17	3.0%	12	384	
3.8	97	19.8	3.49	2.00	9.75	3.0	19.2	3.38	2.60	1.18	3.0%	12	384	
3.9	99	20.5	3.60	2.01	9.82	3.0	19.8	3.49	2.61	1.19	3.0%	12	384	
4	102	21.1	3.71	2.02	9.88	3.1	20.5	3.61	2.63	1.19	3.0%	12	384	
4.1	104						21.1	3.71	2.64	1.20	3.0%	11	352	

1. Thickness less than 2.0" and more than 4.1" is special order and can only be fulfilled with OSB.
2. 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.
3. Value represents average results.
4. Assumes 48' flatbed truck.

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