

Description

Johns Manville (JM) Nailboard is a rigid roof insulation board composed of a closed cell polyisocyanurate foam core bonded in the foaming process to either 7/16" (1.11 cm) or 5/8" (1.59 cm) oriented strand board (OSB) on one side and a universal fiber glass-reinforced facer on the other.

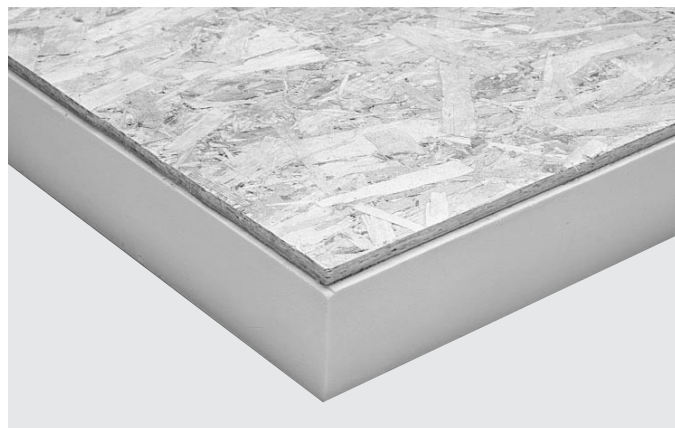
Nailboard meets the physical property requirements of ASTM C 1289, Type V, and Federal Specification HH-I-1972/Gen and HH-I-1972/2.

Use

Nailboard is designed for use as an insulation/nailbase underlayment for a variety of roofing systems. Nailboard can be used in new construction and re-roofing projects on commercial, industrial and residential buildings.

Nailboard made with 7/16" (1.11 cm) OSB is used in metal roof systems. Nailboard with 5/8" (1.59 cm) OSB is used for tile and slate roof systems.

FM Global® approved roof insulation screws (with 2" [5.08 cm] plates for UL 90 wind uplift rated systems) are used to secure Nailboard to the roof deck. Fastener type and size are determined by the type of roof deck. Nailboard is approved for Class 1-60 and 1-90 assemblies with BUR and single ply membrane systems. Nailboard is classified for use in specific Underwriters Laboratories Inc. Class A constructions, Roof/Ceiling hourly fire-rated assemblies and insulated metal deck assemblies. Nailboard is also classified by Underwriters' Laboratories of Canada.



Advantages

- High-thermal efficiency.
- Strong nailable base.
- Nailboard incorporates APA Rated Exposure 1 OSB.
- Every Nailboard incorporates a seamless sheet of OSB, which eliminates potential splitting of the panel during roof loading or handling.
- The OSB incorporated in Nailboard is factory routed 1/8" (3.18 mm) on all four sides to allow for required spacing of the OSB sheathing while maintaining the integrity of the insulation system.
- 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.
- Nonrouted OSB is also available upon request.

Typical Physical Properties

	Values	Test Method
Water Absorption, % by Volume – 2 hours.....	1.0 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
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 - 200°F (-73°C - 93°C)	

*Also available in 25 psi (172 kPa). **Foam core only.

For Use over Metal Decks

The minimum thickness of Nailboard insulation over metal decks is as follows:

Width of Rib Opening	Up to 4 5/8" (Max.) (11.75 cm)
Thickness of Insulation (Minimum)	1.5" (3.81 cm)

Sizes

Nailboard is available in standard 47 1/2" x 95 1/2" (1.21 m x 2.43 m) panels and in thicknesses of 1.5" (3.81 cm) to 4" (10.16 cm).

Thermal Performance

Product Thickness (nom.) (in.) (cm)	LTTR*-Value		Weight with 7/16" (1.11 cm) OSB		Weight with 5/8" (1.59 cm) OSB		Total Recycled Content (%)	
	(hr•ft²•°F)/BTU	(m²•°C)/W	lb/ft²	kg/m²	lb/ft²	kg/m²		
1.5	3.81	6.6	1.2	1.75	8.54	2.25	10.97	5.9
2	5.08	9.6	1.7	1.8	8.78	2.3	11.22	6.3
2.5	6.35	12.7	1.5	1.85	9.03	2.35	11.47	6.6
3	7.62	15.9	2.8	1.9	9.27	2.4	11.72	7
3.5	8.89	19.1	3.4	1.95	9.51	2.45	11.97	7.3
4	10.16	22.3	3.9	2	9.76	2.5	12.22	7.6
4.5	11.43	25.6	4.5	2.05	10.01	2.55	12.45	7.9

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

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