

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) or CDX Plywood 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.

Use

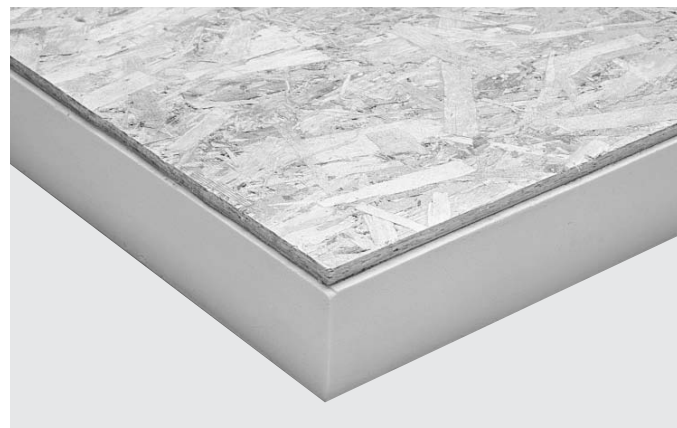
Use as an insulation/nailbase underlayment for a variety of roofing systems in new construction and re-roofing projects on commercial, industrial and residential buildings. 7/16" (1.11 cm) is used in metal roof systems. 5/8" (1.59 cm) is used for tile and slate roof systems.

Use FM Global® approved roof insulation screws (with 2" [5.08 cm] plates for UL 90 wind uplift rated systems) 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. It is classified for use in specific Underwriters Laboratories Inc. Class A constructions, Roof/Ceiling hourly fire-rated assemblies and insulated metal deck assemblies as well as Underwriters' Laboratories of Canada. Fire-rated OSB and CDX boards may be available upon request.

Energy and the Environment

LEED®	Recycled Content		
	Total:	See chart below	
	Producing Locations		
	Bremen, IN Fernley, NV	Jacksonville, FL	Hazleton, PA



Advantages

- High-thermal efficiency.
- Strong nailable base.
- Incorporates APA Rated Exposure 1 OSB.
- Incorporates a seamless sheet of OSB or CDX Plywood, eliminating potential splitting of the panel during roof loading or handling.
- OSB and CDX Plywood is factory-routed up to 1/4" (6.35 mm) on all four sides to allow for required spacing 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.

Typical Physical Properties- Foam Core Only

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

	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•m ²)	
Flame Spread**	50 max.	ASTM E 84
Service Temperature	-100°F - 200°F (-73°C - 93°C)	

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

Sizes

47 1/2" x 95 1/2" (1.21 m x 2.43 m) standard boards
2" to 4.5" (5.08 cm to 11.43 cm) thicknesses

Thermal Performance

Product Thickness (nom.) (in.) (cm)	LTTR*-Value (hr•ft ² •°F)/BTU (m ² •°C)/W	Weight with 7/16" (1.11 cm) OSB		Weight with 5/8" (1.59 cm) OSB		Total Recycled Content (%)
		lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	
2	9.6	1.8	8.78	2.3	11.22	6.3
2.5	12.7	1.85	9.03	2.35	11.47	6.6
3	15.9	1.9	9.27	2.4	11.72	7
3.5	19.1	1.95	9.51	2.45	11.97	7.3
4	22.3	2	9.76	2.5	12.22	7.6
4.5	25.6	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.

For Use over Metal Decks

Required minimum thickness of Nailboard over metal decks:

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

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