

MULTI-VENT NAILABLE BASE-3 INSULATION FOR ABOVE THE DECK

PRODUCT DESCRIPTION

Rmax Multi-Vent Nailable Base-3 is an energy efficient thermal insulation board bonded to superior solid vent blocks (not EPS foam spacers) and a nailing panel. It comes standard with Multi-Max[®] FA-3 as the insulation layer and 7/16" APA rated OSB as the nailing panel. Alternate nailing surfaces are available upon request, see table below. Nailing surfaces that include a radiant barrier are also an acceptable alternative upon request. For all FSC[®] Chain of Custody orders (or upon request), Multi-Vent Nailable Base-3 can also be made with Ultra-Max[®] as the insulation layer (FSC[®]C101940).

The venting pattern includes solid wood blocks to provide multi-directional venting with the following ventilation specifications:

- Minimum of 92% Free Air Movement
- 50% Open Space for Lateral Ventilation
- Blocks Spaced Less Than 12" Apart in Either Direction

The desired thickness of blocks or venting space shall be specified upon ordering. Recommended vent spacing can be determined, based on the roof design, through online tools such as www.metalera.com. Below is a table of various thicknesses and corresponding calculations for net free area per lineal foot.

APA NAILABLE OPTIONS

DESCRIPTION (NOMINAL THICKNESS)	ACTUAL THICKNESS
7/16" OSB (default)	7/16" (default)
15/32" OSB	15/32"
1/2" OSB	1/2"
5/8" OSB	5/8"
3/4" OSB	3/4"
1/2" Plywood	31/64"
5/8" Plywood	19/32"
3/4" Plywood	23/32"

VENTING PATTERNS

VENT BLOCKS/ TRUE SPACING HEIGHT	NET FREE AREA PER LINEAL FOOT (SQFT)
3/4"	7.7
1"	10.3
1 1/2"	15.5

COMPLIANCES

- ASTM C1289 Type V
- International Building Code (ICC) Chapter 26 Section 2603, Foam Plastic
- ASHRAE 90.1
- California Code of Regulations, Title 24 (BHFTI License T1523)
- CFC-, HCFC- and HFC-free blowing agent that has zero ODP and negligible GWP

NOTE: For details, requirements and/or limitations, refer to Third-Party Evaluation Reports

APPLICATIONS

Asphalt shingles; concrete, slate and clay roofing tiles; wood shakes; metal panels

THERMAL PROPERTIES / PRODUCT DATA

"R" means resistance to heat flow. The higher the R-value, the greater the insulating power.

NOMINAL THICKNESS ¹		LONG TERM THERMAL RESISTANCE ²	WEIGHT PER SQ. (LBS)	BUNDLE DATA ³ (48" X 96")		TRUCKLOAD DATA (48" X 96")	
INCHES	FOAM			PIECES	SQ. FT.	PIECES	SQ. FT.
2.50	1.00	5.7	197	19	608	456	14,592
3.00	1.50	8.6	205	16	512	384	12,288
3.50	2.00	11.4	214	13	416	312	9,984
4.00	2.50	14.4	222	12	384	288	9,216
4.50	3.00	17.4	230	10	320	240	7,680
5.00	3.50	20.5	239	9	288	216	6,912
5.50	4.00	23.6	247	8	256	192	6,144
6.00	4.50	26.8	247	8	256	192	6,144

¹Includes 7/16" OSB nailing surface and 1" airspace (blocks).

²LTR values are determined in accordance with CAN/ULC-S770. LTR predicts a 15-year, time-weighted average. The values shown are for the foam portion only.

³Multi-Vent Nailable Base-3 is shipped in bundles that are approximately 48" high and wrapped in plastic for easy handling.

TYPICAL PHYSICAL PROPERTIES

Physical properties shown are for the polyiso insulation layer only, are based on data obtained under controlled conditions and are subject to normal manufacturing tolerances.

PROPERTY	TEST METHOD	RESULTS
Density, Overall, Nominal	ASTM D1622	2.0 pcf
Compressive Strength ¹	ASTM D1621	20 psi
Flame Spread, Core ²	ASTM E84	25 - 60
Smoke Developed, Core ²	ASTM E84	75 - 160
Water Vapor Transmission	ASTM E96	< 1.5 perm
Water Absorption	ASTM C209	< 1% Vol.
Dimensional Stability Length and Width	ASTM D2126	< 2% Linear Change
Service Temperatures		250°F max

¹Also available in Grade 3 (25 psi) upon request.

²Flame Spread and Smoke Developed Indexes are used to measure and describe the properties of this material in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of this material and other related roofing components under actual fire conditions.

Visit www.rmax.com for a complete list of thicknesses and packaging information.



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APPLICATION / INSTALLATION

General - Multi-Vent Nailable Base-3 is applied to the roof deck in order to provide a continuous layer of thermal insulation and a suitable substrate for a variety of shingles within steep slope applications.

No more insulation shall be laid than can be covered with the completed roofing system by the end of the work for the day. Refer to PIMA Technical Bulletin 109 for storage and handling recommendations.

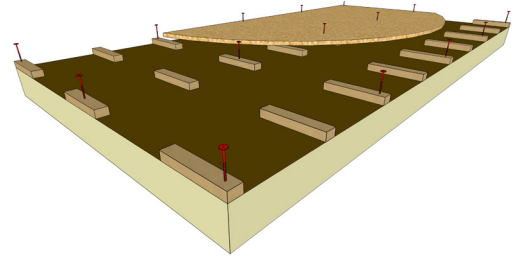
Rmax strongly recommends that the decision to use or not use a vapor retarder in any insulated roofing assembly be guided by the recommendations of the National Roofing Contractors Association (NRCA) in the latest edition of the "NRCA Roofing and Waterproofing Manual." Designers and installers are referred to Rmax publications "General Notes for Use of Rmax Insulations in Steep Slope Roofing Applications", for specifics regarding construction applications utilizing Rmax roof insulation products.

Installation - Multi-Vent Nailable Base-3 is engineered to allow for normal expansion of the wood without gapping the insulation layer. While the composite panel and polyiso layer are a nominal 4' x 8', the wood is slightly under a true 4' x 8'. When manufactured, the wood is bonded to the polyiso layer leaving a 1/16" to 3/16" overhang on two adjacent edges. See below for illustration and proper orientation between boards. When cutting is necessary, make cuts on flush edges to maintain expansion allowance and ensure installation of cut boards is consistent with orientation shown below. Before packaging, the bundle is marked down the edge to designate the corner where adjacent sides contain non-flush edges.



Install the Multi-Vent Nailable Base-3 with the long dimension of the panel perpendicular to the slope of the roof and stagger all joints. Install wood nailers of a thickness equal to the Multi-Vent Nailable Base-3 at all roof eaves and fascia.

Secure the Multi-Vent Nailable Base-3 to the structural roof deck with Rmax Nail Board Fasteners or other FM listed roofing insulation screws or ring-shank nails of a length at least one-inch longer than the composite thickness of the total insulation panel system. The fastening pattern for securing the Multi-Vent Nailable Base-3 shall be a row along each long dimension of the panel edge and one row down the center line of the panel. A minimum of 15 fasteners must be installed per 4' x 8' board, see detail for spacing requirements. Additional fasteners may be required based on roof design (slope, snow load, wind load, building height, etc.), as well as at perimeters and corners. Fasteners should always be installed through the wood blocks to avoid deflection in the nailing surface. Alternatively, additional blocking can be inserted where fasteners are to be located provided the ventilation requirements are still being met.



Multi-Layer Insulation Systems - Rmax recommends two layers of insulation whenever the total insulation requirement exceeds 3.0" to reduce thermal bridging, moisture migration and system movement. Multi-Layer systems utilize Multi-Max® FA-3 or Ultra-Max® as the bottom layer prior to installing the Multi-Vent Nailable Base-3. Joints should be offset between the insulation layers as well as between the insulation and cover board.

LIMITATIONS

Multi-Vent Nailable Base-3 is not recommended nor warranted for use in inverted or protected roofing membrane systems (IRMA).
Multi-Vent Nailable Base-3 is not a structural panel.

WARNING

DO NOT leave Multi-Vent Nailable Base-3 exposed. Polyiso foam is an organic material which will burn when exposed to an ignition source of sufficient heat and intensity and may contribute to flames spreading.

WARRANTY

See Rmax "Sales Policy" for warranty conditions. Rmax does not assume any responsibility or liability for the performance of any products other than those manufactured by Rmax. **NOTE: All Rmax products must be tarped, placed on skids and kept dry before and throughout construction.**

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Proudly Made and
Engineered in the U.S.A.

To help achieve additional LEED credits, the wood components in this product can be ordered to comply with Forest Stewardship Council's® (FSC®) Chain of Custody requirements.



The mark of
responsible forestry

PRODUCT DATA SHEET
MULTI-VENT NAILABLE BASE-3
Revision.04-20-2020



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