

NAILABLE BASE-3 INSULATION FOR ABOVE THE DECK

PRODUCT DESCRIPTION

Rmax Nailable Base-3 is an energy efficient thermal insulation board bonded to a nailing panel. It comes standard with Multi-Max® FA-3 bonded to 7/16" APA rated OSB. Alternate nailing surfaces are available upon request, see table for examples. For all FSC® Chain of Custody orders (or upon request), Nailable Base-3 can also be made with Ultra-Max® as the insulation layer (FSC® C101940).

APA RATED 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"

COMPLIANCES

- ASTM C1289 Type V
- International Building Code (ICC) Chapter 26 Section 2603, Foam Plastic
- ASHRAE 90.1
- RR 25378, City of Los Angeles Research Report
- California Code of Regulations, Title 24 (BHFTI License T1523)
- Factory Mutual – Class 1 roofing insulation per FM Standard 4450/4470 (2.0" minimum thickness). Nailable Base-3 is subject to the conditions of approval as a roof insulation when installed as described in the current edition of the FMRC "Approval Guide". Refer to FM Approvals RoofNav for specific system details.

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

APPLICATIONS

Concrete, slate and clay roofing tiles; wood shakes; metal panel roofing; asphalt shingles (limited)

THERMAL PROPERTIES / PRODUCT DATA

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

NOMINAL INCHES	LONG TERM THERMAL RESISTANCE ³	WEIGHT PER SQ. (LBS)	BUNDLE DATA ⁴ (48" X 96")		TRUCKLOAD DATA (48" X 96")	
			PIECES	SQ. FT.	PIECES	SQ. FT.
1.50	6.3	175	32	1,024	768	24,576
2.10	9.7	185	22	704	528	16,896
2.50	12.0	190	19	608	456	14,592
2.70	13.2	195	17	544	408	13,056
3.00	15.0	200	16	512	384	12,288
3.30	16.8	205	14	448	336	10,752
3.50	18.0	210	13	416	312	9,984
3.80	19.8	215	12	384	288	9,216
4.00	21.1	215	12	384	288	9,216
4.50	24.2	225	10	320	240	7,680
5.00	27.4	241	9	288	216	6,912

¹Includes 7/16" OSB.

²Two inch and thicker products meet requirements for FM Standard 4450.

³LTR values are determined in accordance with CAN/ULC-S770. LTR predicts a 15-year, time-weighted average.

⁴Nailable 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.

APPLICATION / INSTALLATION

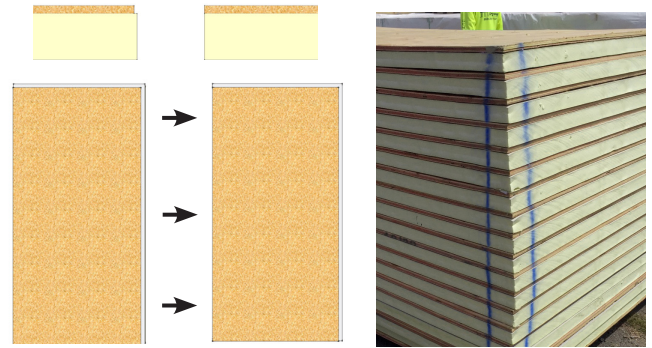
General - Nailable Base-3 is applied to the roof deck in order to provide a continuous layer of thermal insulation and a suitable substrate for the application of many different kinds of roofing systems available in the market today.

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.

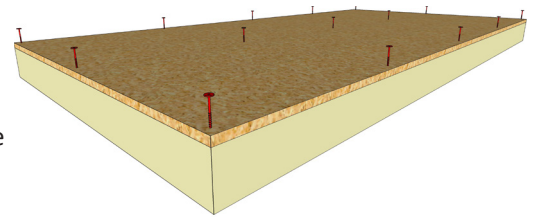
Rmax strongly recommends that the decision to use or not use a vapor retarder in any insulated roofing assembly be guided by the recommendations of the National Roofing Contractors Association (NRCA) in the latest edition of the "NRCA Roofing and Waterproofing Manual."

Designers and installers are referred to Rmax publications "General Notes for Use of Rmax Roofing Insulations," for specifics regarding construction applications utilizing Rmax roof insulation products.

Installation - 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 illustration for 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 here. Before packaging, the bundle is marked down the edge to designate the corner where adjacent sides contain non-flush edges. See image for reference.



Install the 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 Nailable Base-3 at all roof eaves and fascia. Secure the 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 1" longer than the composite thickness of the insulation panel. The fastening pattern for securing the Nailable Base-3 shall be a minimum of 15 fasteners per 4'x8' 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.



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 Nailable Base-3. Joints should be offset between the insulation layers as well as between the insulation and cover board.

LIMITATIONS

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

WARNING

DO NOT leave 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. Requests for Certification Letters and/or special warranty considerations must be submitted

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.



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PRODUCT DATA SHEET
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