


# NAILBASE

## A one-step insulation and nailable surface.

R-Shield® Nailbase consists of 7/16" Exposure I rated Oriented Strand Board (OSB) and UL Classified R-Shield rigid insulation. It is an ideal insulation and nailable surface for structural roof decks and walls. Stability and traffic resistance make R-Shield Nailbase perfect for both residential/commercial roof decks and walls.

- Saves labor with one-step installation
- Large size panels available
- Saves energy - no thermal breaks
- Outside installation - construction can occur without disruption of inside living areas


## Thickness/R-value.

 <b>Thickness</b>	Walls	
	R-value <sup>1</sup>	
	75°F <sup>2</sup>	40°F <sup>3</sup>
<b>1 5/16</b>	4.0	4.2
<b>1 11/16</b>	5.4	5.7
<b>2 3/8</b>	8.1	8.6
<b>3</b>	10.4	11.5

<sup>1</sup> R-value units are °F-ft<sup>2</sup>-h/Btu.

<sup>2</sup> Recommended for design in WARM climates.

<sup>3</sup> Recommended for design in COLD climates.

 <b>Thickness</b>	Roofs	
	R-value <sup>1</sup>	
	75°F <sup>2</sup>	40°F <sup>3</sup>
<b>2</b>	6.6	7.0
<b>4</b>	14.2	15.4
<b>6</b>	22.0	23.7
<b>7 3/4</b>	28.8	31.0
<b>9 3/4</b>	36.5	39.3
<b>11 3/4</b>	44.2	47.7

<sup>1</sup> R-value units are °F-ft<sup>2</sup>-h/Btu.

<sup>2</sup> Recommended for design in WARM climates.

<sup>3</sup> Recommended for design in COLD climates.

## Proven to meet, or exceed, building codes.

R-Shield is manufactured under an industry leading quality control program monitored by UL and further recognized in UL Evaluation Report UL ER40361-01 and ICC ESR-4743. R-Shield meets ASTM C578, "Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation".



## FOAM FACTS:

### R-Shield Nailbase outperforms other Nailbase products.

- R-Shield can easily vary thickness to meet project R-values
- R-Shield is less-expensive than XPS and ISO products
- No long-term R-value loss or thermal drift
- R-Shield with termite treatment available to provide termite resistance

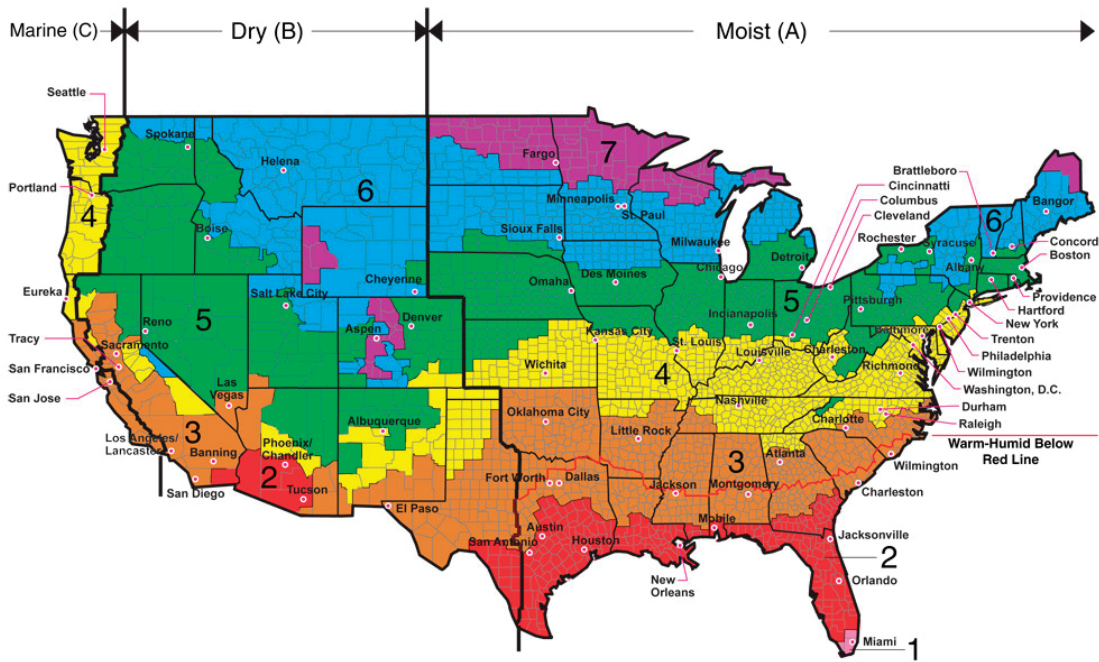
## Energy Code Ci Requirements.

The use of continuous insulation is mandated by the 2021 International Energy Conservation Code (IECC). The IECC provides a prescriptive path for roof/ceiling insulation that includes the use of continuous insulation.

Zone	IECC-2021 Prescriptive Ci R-value		
	Residential	Commercial	
	Ceiling	Roof Above Deck	
		All other	Group R
0 and 1	R-30	R-20ci	R-25ci
2	R-49	R-25ci	R-25ci
3	R-49	R-25ci	R-25ci
4 except Marine	R-60	R-30ci	R-30ci
5 and 4 Marine	R-60	R-30ci	R-30ci
6	R-60	R-30ci	R-30ci
7	R-60	R-35ci	R-35ci
8	R-60	R-35ci	R-35ci

Zone	Walls, above grade		
	IECC-2021 Prescriptive Ci R-value		
	Residential	Commercial	
	Wood-Framed Wall	Wood-Framed	
		All other	Group R
0-1	None	R-3.8 <sup>1</sup>	R-3.8 <sup>1</sup>
2	None	R-3.8 <sup>1</sup>	R-3.8 <sup>1</sup>
3	R-5 <sup>1</sup>	R-3.8 <sup>1</sup>	R-3.8 <sup>1</sup>
4 except Marine	R-5 <sup>2</sup> R-10 <sup>1</sup>	R-3.8 <sup>1</sup>	R-3.8 <sup>1</sup>
5 and 4 Marine	R-5 <sup>1</sup>	R-3.8 <sup>2</sup> R-7.5 <sup>1</sup>	R-3.8 <sup>2</sup> R-7.5 <sup>1</sup>
6	R-5 <sup>2</sup> R-10 <sup>1</sup>	R-3.8 <sup>2</sup> R-7.5 <sup>1</sup>	R-3.8 <sup>2</sup> R-7.5 <sup>1</sup>
7	R-5 <sup>2</sup> R-10 <sup>1</sup>	R-3.8 <sup>2</sup> R-7.5 <sup>1</sup>	R-3.8 <sup>2</sup> R-7.5 <sup>1</sup>
8	R-5 <sup>2</sup> R-10 <sup>1</sup>	R-18.8 <sup>1</sup>	R-18.8 <sup>1</sup>

<sup>1</sup> For use with R-13 cavity insulation  
<sup>2</sup> For use with R-20 cavity insulation



All of Alaska in Zone 7 except for the following Boroughs in Zone 8: Bethel, Dellingham, Fairbanks, N. Star, Nome North Slope, Northwest Arctic, Southeast Fairbanks, Wade Hampton, and Yukon-Koyukuk

Zone 1 includes: Hawaii, Guam, Puerto Rico, and the Virgin Islands

## Installation.

Installation shall be in strict accordance with published instructions, details, and drawings that are part of the contract documents for the project.

1. R-Shield Nailbase must be installed over a structurally sound roof deck.

2. Apply vapor retarder as specified by a qualified design professional prior to the installation of the R-Shield Nailbase.

Note: Climate conditions, code requirements, and building science dictate the use and position of vapor retarders within roof assemblies. Consult with local code officials and building science professional concerning the use of vapor retarders.

3. Install R-Shield Nailbase and mechanically fasten with R-Shield Screws as specified.

4. Install continuous wood blocking at perimeters, ridges, hips, and openings as specified.

5. Install roof cladding materials per manufacturer's specifications and recommendations.

## Product Protection.

R-Shield can be damaged by prolonged direct sunlight exposure or by reflected sunlight. R-Shield must be protected during storage, transportation, and at the project with a light colored opaque material. Please refer to the R-Shield Handling Instructions.

## Termite Resistant.

One of the most destructive forces anywhere is termites. R-Shield can be manufactured with a proven and safe additive, that effectively resists termites.

R-Shield is treated to meet ICC ES AC239, "Acceptance Criteria for Termite-Resistant Foam Plastics".

## Ready to take control? Start here.

If you're ready to have R-Shield contribute to your next project, just contact your Premier Building Systems Technical Sales Representative. They will be happy to give you design consultation, information about R-Shield products, pricing, and answers to all of your questions.

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