

NAILBASE 3-Ci

An easy to use 3-in-one bracing, insulation, and weather-resistive/air barrier board.

R-Shield® Nailbase 3-Ci is the ideal three-in-one continuous insulation (Ci) sheathing board. R-Shield Nailbase 3-Ci installs quickly over residential and commercial wood framing members using compatible pneumatic nail guns. Standard wall claddings such as wood, vinyl, stucco, cement boards, etc., can be installed over R-Shield Nailbase 3-Ci. R-Shield Nailbase 3-Ci consists of 7/16" exposure 1 rated Oriented Strand Board (OSB) to provide bracing, R-Shield insulation, and film-facing to resist weather & air penetration

- Saves labor with one step installation
- Braces, insulates, and a weather-resistive/air barrier
- Saves energy - no thermal breaks
- Superior moisture resistance
- No R-value loss or thermal drift
- 4x8, 4x9, 4x10 standard boards available

Strength/R-value.

R-SHIELD® NAILBASE Thickness	R-value ¹	
	75°F ²	40°F ³
1 5/16	4.0	4.2
1 11/16	5.4	5.7
2 3/8	8.1	8.6
3	10.4	11.5

¹ R-value units are °F-ft²-h/Btu.

² Recommended for design in WARM climates.

³ Recommended for design in COLD climates.

Proven to meet, or exceed, building codes.

R-Shield Nailbase 3-Ci is manufactured to Quality Control Program standards monitored by UL LLC and is recognized in UL ER40361-01 and ICC ESR-4743 evaluation reports.



R-Shield Nailbase 3-Ci complies with Building Code requirements for:

- ASTM C578, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation
- ASTM E331, Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
- ASTM E2178, Standard Test Method for Air Permeance of Building Materials



FOAM FACTS:

R-Shield Nailbase 3-Ci outperforms other Nailbase products.

- 3-Ci is bracing and insulation all in one
- Installs in one easy step
- Saves time and money
- No R-value loss or thermal drift
- R-Shield with termite treatment available to provide termite resistance

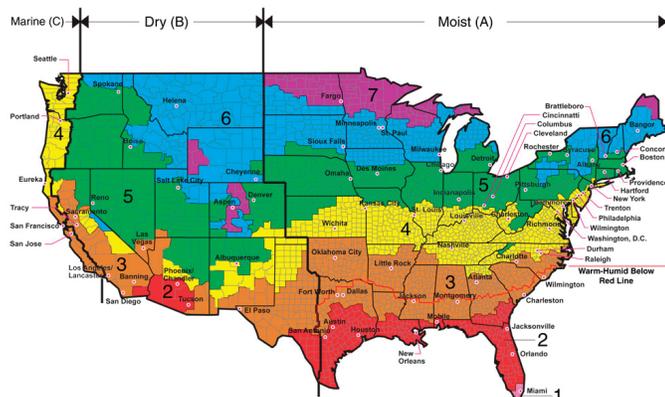
Energy Code Ci Requirements.

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

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

¹ For use with R-13 cavity insulation

² For use with R-20 cavity insulation



All of Alaska in Zone 7 except for the following Boroughs in Zone 8: Bethel, Dillingham, 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 3-Ci must be installed perpendicular to structurally sound wood framing members.
 2. Mechanically fasten the R-Shield Nailbase 3-Ci with the OSB held against the framing members using pneumatic nail guns designed to send nails through the insulation and seat firmly against the OSB.
- Note: Fastener spacing should be in compliance with the International Building Code (IBC) or International Residential Code (IRC) for 7/16" OSB used as bracing over structural wood framing members.
3. Apply R-Shield Tape over fastener heads, board joints, and corners.
 4. Install wall cladding materials per wall cladding manufacturer's specifications and recommendations for installation over continuous insulation.

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

Termite Resistant.

One of the most destructive forces anywhere is termites. R-Shield Nailbase 3-Ci can be manufactured with a proven and safe additive, that effectively resists termites.

R-Shield Nailbase 3-Ci 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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