

# PERIMETER / UNDERSLAB



## Expanded Polystyrene Insulation.

R-Shield® expanded polystyrene insulation is a cost-effective, durable, and energy efficient solution for below grade insulation applications. It is an ideal material to stop energy loss at the foundation or slab. R-Shield insulation with termite treatment is a proven material with built in protection against the destructive force of termites. R-Shield insulation is available in thicknesses to meet your local R-5, R-7.5, and R-10 insulation requirements.

- R-value that never changes and is stable over time
- Range of compressive strengths available
- Closed cell insulation with superior moisture resistance
- High drying potential to rapidly release absorbed moisture
- Meets code requirements for continuous insulation

## Strength/R-value.

R-SHIELD RIGID INSULATION	Compressive Strength <sup>1</sup> , psi	R-value/inch <sup>2</sup>	
		75°F <sup>3</sup>	40°F <sup>4</sup>
150	15	4.2	4.6
250	25	4.4	4.8
400	40	4.4	4.8
600	60	4.5	4.9

<sup>1</sup> Compressive strength @ 10% deformation.

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

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

<sup>4</sup> Recommended for design in COLD climates.

R-Shield is available in a wide range of R-values and thicknesses to meet your needs. Product thicknesses are provided in the R-Shield Thickness Selector. Project requirements vary, so R-Shield can be ordered in any R-value thicknesses to meet your needs.

## 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”.



## Stands up to the weather.

When tested in accordance with ASTM C1512, “Standard Test Method for Characterizing the Effect of Exposure to Environmental Cycling on Thermal Performance of Insulation Products”, R-Shield maintains its R-value and strength after severe exposure to freeze-thaw cycles.

## FOAM FACTS: R-Shield outperforms XPS.

- R-Shield provides a stable long-term R-value at a lower cost
- R-Shield uses a blowing agent with 10 x lower global warming potential and 10,000 x lower ozone depletion
- R-Shield meets strength requirements at a lower cost
- R-Shield and XPS have resistance to moisture, but R-Shield has a higher vapor permeance leading to superior drying potential
- R-Shield with termite treatment available to provide termite resistance



## **Performance Value.**

When you consider all performance characteristics and cost, R-Shield is your best choice for foam insulation.

R-Shield has air in its closed cells and therefore has a stable R-value. Many other insulations use blowing agents that cause R-value loss and are harmful to the environment.

R-Shield has compressive strength to meet specific project requirements.

R-Shield is manufactured to resist moisture absorption in wetting conditions and release absorbed moisture quickly during drying periods, which means R-Shield maintains R-value.

## **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".

## **Recyclable.**

After it's life as a building insulation, R-Shield is 100% recyclable. It can be ground into granules and reincorporated into new R-Shield products or it can be thermally processed into a resin that's used to manufacture other new products.

## **Ready to take control? Start here.**

If you're ready to have R-Shield contribute to your next project, just contact 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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[www.rshieldinsulation.com](http://www.rshieldinsulation.com) | 800-766-3626

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