

R-SHIELD[®]

RIGID INSULATION



**EXPANDED
POLYSTYRENE
INSULATION**

R-SHIELD PERFORMS IN ALL APPLICATIONS

From Frost Line to Roof Line.


R-Shield® is used in a wide range of critical insulation applications: Perimeter, Underslab, Cavity Wall, Wall Sheathing, Precast Concrete Core, Flat/Tapered Roofing, Vegetative Green Roof, Plaza Deck, Drainage Board, and Waterproofing Protection. All of these applications benefit from the exceptional physical properties and wide range of board thicknesses, sizes, and options available with R-Shield.

R-Shield is engineered to give you the greatest possible control over your project application: from design and timelines, to material cost, and ultimately, control over your results.

- Perimeter/Underslab
- Cavity Wall
- Wall Sheathing
- Precast Concrete Core
- Flat/Tapered Roofing
- Plaza Deck/Vegetative Green Roof
- Drainage Board
- Waterproofing Protection

WITH R-SHIELD, YOU'RE IN CONTROL OF YOUR MATERIALS.

Strength/R-value.

	Compressive Strength ¹ , psi	R-value/inch ²	
		75°F	40°F
100	10	3.9	4.2
130	13	3.9	4.3
150	15	4.2	4.6
250	25	4.4	4.8
400	40	4.4	4.8
600	60	4.5	4.9

¹ Compressive strength @ 10% deformation.

² R-value units are °F-ft²-h/Btu.

R-Shield is available in a wide range of R-values and thicknesses to meet your needs. 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".



Sustainability.

R-Shield reduces energy use in buildings, helping protect our environment. Well insulated buildings perform better and improve the environment. Life Cycle Analysis (LCA) has shown significant energy savings and substantial reductions in greenhouse gas emissions with the use of R-Shield.

The use of R-Shield in building construction helps earn credits for green building initiative programs, such as LEED Certification. R-Shield does not use ozone depleting blowing agents and is recyclable.

FIFTY YEAR R-VALUE WARRANTY, REGARDLESS OF THICKNESS OR APPLICATION - THE WARRANTY COVERS IT!



Recyclable.

After its 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.

R-SHIELD

Expanded Polystyrene Insulation.

R-Shield expanded polystyrene insulation is a cost-effective, durable, and energy efficient solution. R-Shield is an insulation manufactured to provide architects, specifiers, distributors, and contractors all the features and benefits inherent in a high quality insulation.

Stable R-value – R-Shield has a R-value that never changes over time.

Strength – R-Shield comes in compressive strengths of 10, 13, 15, 25, 40, and 60 psi.

Moisture Resistance – R-Shield is a closed cell polystyrene insulation and is resistant to moisture gain.

Vapor Permeable – R-Shield allows moisture vapor to move through its structure.

Drying Potential – R-Shield rapidly releases absorbed moisture.

WHEN YOU CONSIDER ALL PERFORMANCE CHARACTERISTICS AND COST, R-SHIELD IS YOUR BEST CHOICE FOR FOAM INSULATION.

Performance Value.

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.

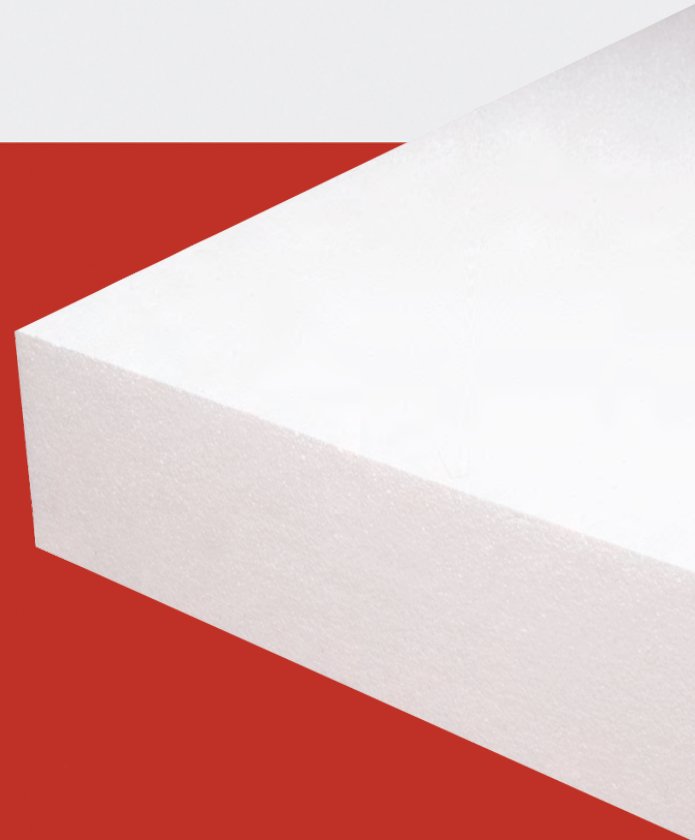
R-Shield has compressive strength to meet specific project requirements.

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".



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

Product Availability and Support.

R-Shield Insulation is supported by a team of experts who work with you to answer your questions, offer solutions, and do everything they can to make sure your project goes smoothly and ends successfully.

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. We 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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