

ARCHITECTURAL SHAPES



Expanded Polystyrene Insulation.

R-Shield® expanded polystyrene insulation includes an ingredient you won't find in other expanded polystyrene products. Control. R-Shield insulation gives you control over the design of your project. You determine the shape and specs of the expanded polystyrene components you need, then your R-Shield expanded polystyrene supplier works with you to deliver them on time and within budget.

- 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
- Preferred component for architectural shapes

Strength/R-value.

| R-SHIELD® RIGID INSULATION | Compressive Strength ¹ , psi | R-value/inch ² | |
|-------------------------------|---|---------------------------|-------------------|
| | | 75°F ³ | 40°F ⁴ |
| 100 | 10 | 3.9 | 4.2 |
| 130 | 13 | 3.9 | 4.3 |
| 150 | 15 | 4.2 | 4.6 |
| 250 | 25 | 4.4 | 4.8 |

¹ Compressive strength @ 10% deformation.

² R-value units are °F·ft²·h/Btu.

³ Recommended for design in WARM climates.

⁴ 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" and ASTM E2430, "Standard Specification for Expanded Polystyrene (EPS) Thermal Insulation Boards for Use in Exterior Insulation and Finish Systems ("EIFS")."



Custom Fabrication.

R-Shield insulation shapes are custom fabricated by hot wire cutting with computer aided design, and if necessary, assembled together to provide a solution specific to your needs.



FOAM FACTS: R-Shield Architectural Shapes.

- R-Shield Architectural Shapes can create effective 3-D architectural shapes
- R-Shield Architectural Shapes meet strength requirements at a lower cost and are available in a range of densities/types
- R-Shield Architectural Shapes are well suited for lower volume items and are compatible with exterior finish coatings

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 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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