

POLYISO ROOF ASSEMBLIES

Expanded Polystyrene Insulation.

Variable thickness flat stock or fabricated R-Shield® expanded polystyrene insulation can be used in numerous configurations with Polyiso roof insulation (below, between, above) achieving optimum function and cost. R-Shield insulation is cost-effective, durable, energy efficient, and easily fabricated making the production of custom tapers, crickets, saddles, flute filler, and flat stock ideal to use in combination with Polyiso insulation.

- Cost effective roof insulation
- R-value that never changes and is stable over time
- Range of compressive strength available
- Provides economical one-step tapered roof system
- Custom crickets and saddles are fast to install

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.

Strength/R-value.

	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.

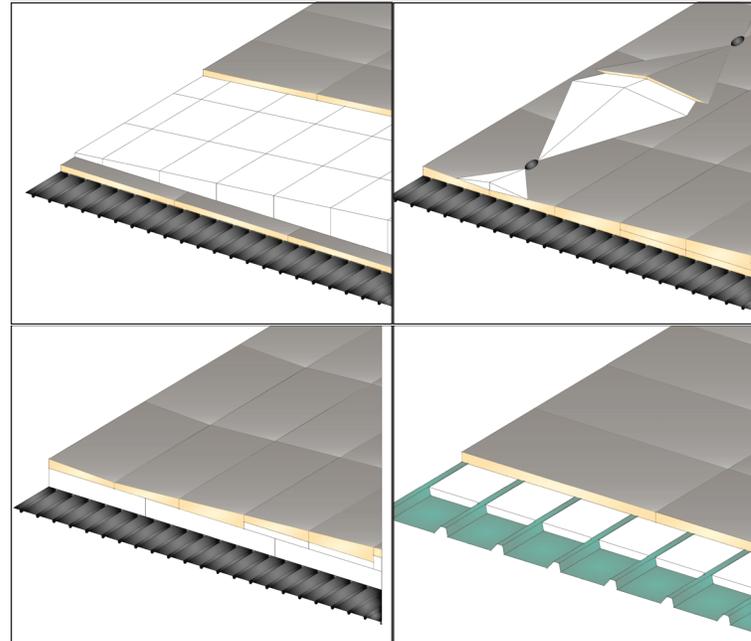
Proven to meet, or exceed, building codes.

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”.



Sizes and Shapes.

- R-Shield insulation flat stock is typically provided in 4' x 8' or 4' x 4' boards with custom thickness from 1/2" to 12".
- Tapered R-Shield insulation is typically provided in 4' x 4' boards with various sloped taper as specified.
- R-Shield insulation crickets and saddles are available custom designed to your project requirements.
- R-Shield insulation flute filler is available custom designed to your deck requirements.



FOAM FACTS: R-Shield for use with Polyiso insulation.

- Expanded polystyrene is compatible with Polyiso insulation
- Expanded polystyrene can easily vary strength, thickness, and size
- Expanded polystyrene can easily be fabricated for tapering
- Expanded polystyrene can easily be fabricated into crickets and saddles
- Expanded polystyrene allows for more design possibilities

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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