

EXTERIOR SHEATHING



INSULATION POWERED BY GRAPHITE.


R-Shield® MAX is a next generation insulation product with a maximum R-value powered by graphite. R-Shield MAX is a premium grade insulation manufactured to provide architects, specifiers, distributors, and contractors all the features and benefits inherent in a high quality insulation.

- High R-value that never changes and is stable over time
- High compressive strength of 15 or 25 psi
- Closed cell insulation with superior moisture resistance
- High drying potential to rapidly release absorbed moisture
- Meets code requirements for crawl space use

Powered by Graphite.

R-Shield MAX is comprised of many small pockets of air within a polymer matrix containing graphite. The graphite reflects radiant heat energy like a mirror, increasing the material's resistance to heat flow or R-value.

R-value/Strength.

	R-value ¹		Compressive Strength ² , psi
	75°F	40°F	
150	5.0	5.2	15
250	5.0	5.3	25

¹ R-value units are °F-ft²-h/Btu and are based on 1-1/8" thickness.
² Compressive strength @ 10% deformation.

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

R-5, R-7.5, R-10, R-15, R-20

Product thicknesses for standard boards are provided in the R-Shield MAX Thickness & R-value. Project requirements vary, so R-Shield MAX can be ordered in any R-value thicknesses to meet your needs.

Proven to meet, or exceed, building codes.

R-Shield MAX is manufactured under an industry leading quality control program monitored by UL and further recognized in UL Evaluation Report UL ER40361-01. R-Shield MAX 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 MAX maintains its R-value and strength after severe exposure to freeze-thaw cycles.

FOAM FACTS:

R-Shield MAX outperforms XPS.

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

NEXT GENERATION INSULATION POWERED BY GRAPHITE



Performance Value.

When you consider all performance characteristics and cost, R-Shield MAX Powered by Graphite is your best choice for high R-value next generation insulation.

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

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

Termite Resistant.

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

R-Shield MAX 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 MAX is 100% recyclable. It can be ground into granules and reincorporated into new R-Shield MAX 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 MAX 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 MAX products, pricing, and answers to all of your questions.

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