

# Exterior Sheathing

**FOAM-CONTROL**  
**R-SHIELD**<sup>TM</sup>

## Film-Faced Molded Polystyrene Insulation.

Foam-Control® R-SHIELD® film-faced insulation is a cost-effective, durable, and energy efficient solution for cavity wall applications. It is an ideal material to provide a code compliant air and weather resistant barrier and reduce energy loss in brick faced residential and commercial masonry and framed walls.

- Air Barrier
- Weather Resistive Barrier
- Low water vapor permeability
- R-value that never changes and is stable over time
- Range of compressive strengths available

## Strength/R-value.

FOAM-CONTROL R-SHIELD <sup>TM</sup>	Compressive Strength <sup>1</sup> , psi	R-value/inch <sup>2</sup>	
		75°F <sup>3</sup>	40°F <sup>4</sup>
100	10	3.9	4.2
130	13	3.9	4.3
150	15	4.2	4.6
250	25	4.4	4.8

<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.

<sup>5</sup> Foam-Control R-SHIELD is available with a foil face. A foil face exposed to a cavity wall air space provides approximately an additional R-value of 2.0.

Foam-Control R-SHIELD 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

Product thicknesses for standard boards are provided in the Foam-Control R-SHIELD Thickness Selector. Project requirements vary, so Foam-Control R-SHIELD can be ordered in any R-value thicknesses to meet your needs.

## Proven to meet, or exceed, building codes.

Foam-Control R-SHIELD is manufactured under an industry leading quality control program monitored by UL and further recognized in UL Evaluation Report UL ER11812-01. Foam-Control 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" Foam-Control R-SHIELD maintains its R-value and strength after severe exposure to freeze-thaw cycles.



## FOAM FACTS:

### Foam-Control R-SHIELD outperforms XPS and Polyiso.

- Foam-Control R-SHIELD, XPS, and Polyiso meet weather resistance barrier requirements
- Foam-Control R-SHIELD provides a stable long-term R-value at a lower cost
- Foam-Control R-SHIELD uses a blowing agent with low global warming potential and low ozone depletion
- Foam-Control R-SHIELD meet strength requirements at a lower cost
- Foam-Control R-SHIELD with **GPerform Guard**<sup>®</sup> treatment available to provide termite resistance

## Performance Value.

When you consider all performance characteristics and cost, Foam-Control R-SHIELD is your best choice for weather resistive barrier insulation.

Foam-Control 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.

Foam-Control R-SHIELD has compressive strength to meet specific project requirements.

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

## Termite Resistant - Perform Guard®.

One of the most destructive forces anywhere is termites. Foam-Control R-SHIELD can be manufactured with Perform Guard, a proven and safe additive, that effectively resists termites.

Foam-Control R-SHIELD with Perform Guard meets ICC ES AC239, "Acceptance Criteria for Termite-Resistant Foam Plastics".

## Recyclable.

After its life as a building insulation, Foam-Control R-SHIELD is 100% recyclable. It can be ground into granules and reincorporated into new Foam-Control 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 Foam-Control R-SHIELD contribute to your next project, just contact your nearest Foam-Control manufacturer and Technical Sales Representative. They will be happy to give you design consultation, information about Foam-Control R-SHIELD products, pricing, and answers to all of your questions.

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FOAM TECHNOLOGIES

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**AIR BARRIER &  
WEATHER RESISTIVE  
INSULATION**