

# FACED ROOF INSULATION

## Molded Polystyrene Insulation.

R-Shield® faced roof insulation come with a factory applied fiberglass fire resistant facer that replaces the need for coverboards of gypsum, woodfiber and perlite over molded polystyrene in selected Single-Ply Membrane roofing systems. R-Shield faced roof insulation can be applied directly to metal decks providing a one-step insulation and fire resistant facer system without the use of a code specified thermal barrier, resulting in reduced material and labor costs.

- Cost effective roof insulation
- R-value that never changes and is stable over time
- Range of compressive strength available
- Closed cell insulation with superior moisture resistance
- Meets code requirements for direct-to-deck application

## 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".



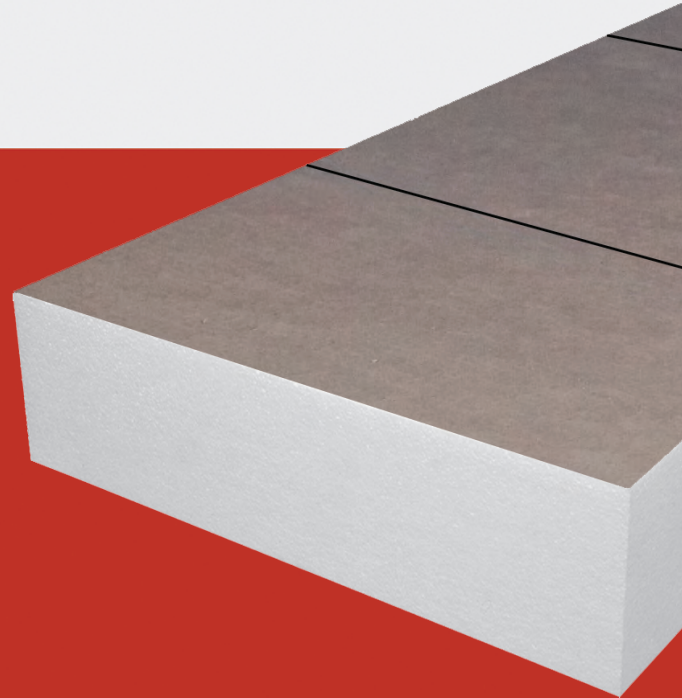
## Direct-To-Deck Assemblies.

UL recognizes R-Shield insulation to be applied directly over steel roof decks along with a Class A, B or C roof covering.

**Steel Deck:** Minimum 22 gauge, 1/2" deep, non-perforated, and maximum 6" flutes.

**Molded Polystyrene Thickness:** Up to 10" (Type I). Refer to UL Roof Deck Construction No. 458 for other thickness and Types.

**Accepted Membranes:** Approved EPDM or thermoplastic single-ply that are ballasted or mechanically attached, maximum 80 mils thickness.



## 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

## **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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