

# Direct-To-Deck

## Molded Polystyrene Insulation.

Tru-R molded polystyrene Direct-to-Deck insulation is a cost-effective, durable and energy efficient solution for roof insulation. Molded polystyrene insulation can be applied directly over steel roof decks 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.

Tru-R is manufactured under an industry leading quality control program monitored by UL and further recognized in UL Evaluation Report UL ER40266-01. Tru-R meets ASTM C578, "Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation".



## Recognition.

UL Evaluation Report UL ER40266-01 and UL Roof Deck Construction No. 458 recognize Tru-R insulation up to 10" (Type I) being installed directly over steel roof decks along with a Class A, B or C roof covering of 80 mils or less.

## Direct-To-Deck Assemblies.

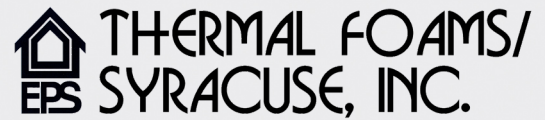
**Steel Deck:** Minimum 22 gauge, 1/2" deep, non-perforated, and maximum 6" flutes.

**Molded Polystyrene Thickness:** Refer to ESR-1006 or UL Roof Deck Construction No. 458 for various thickness and Types.

**Accepted Membranes:** Approved EPDM or thermoplastic single-ply that are Ballasted, Mechanically Attached and Fully-Adhered.

**Cover Board (when required):** Refer UL Roof Deck Construction No. 458 for various cover board options.

For complete assembly information, refer to UL Roof Deck Construction No. 458 or ICC-ES Evaluation Report ESR-1006.



## FOAM FACTS: Tru-R outperforms XPS.

- Tru-R provides a stable long-term R-value at a lower cost
- Tru-R uses a blowing agent with 10 x lower global warming potential and 10,000 x lower ozone depletion
- Tru-R meets strength requirements at a lower cost
- Tru-R and XPS have resistance to moisture, but Tru-R has a higher vapor permeance leading to superior drying potential

### **Performance Value.**

When you consider all performance characteristics and cost, Tru-R is your best choice for foam insulation.

Tru-R 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.

Tru-R has compressive strength to meet specific project requirements.

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

### **Termite Resistant.**

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

Tru-R with borate meets ICC ES AC239, "Acceptance Criteria for Termite-Resistant Foam Plastics".

### **Recyclable.**

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



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