

# Concrete Applications



## Molded Polystyrene Insulation.

Tru-R molded polystyrene insulation is a cost-effective, durable, and energy efficient solution for insulation applications. It is an ideal material to stop energy loss. Tru-R for poured-in place and precast concrete systems reduce the requirement for concrete and overall weight. Tru-R can be used as: concrete sandwich panel cores, block-outs/knock-outs, void fillers, custom pattern forms, and more.

- R-value that never changes and is stable over time
- Range of compressive strengths available
- Closed cell insulation with superior moisture resistance
- High drying potential to rapidly release absorbed moisture
- Excellent adhesion to concrete

## Strength/R-value.

TRU-R	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.

Tru-R is available in a wide range of R-values and thicknesses to meet your needs. Product thicknesses are provided in the Tru-R Thickness Selector. Project requirements vary, so Tru-R can be ordered in any R-value thicknesses to meet your needs.

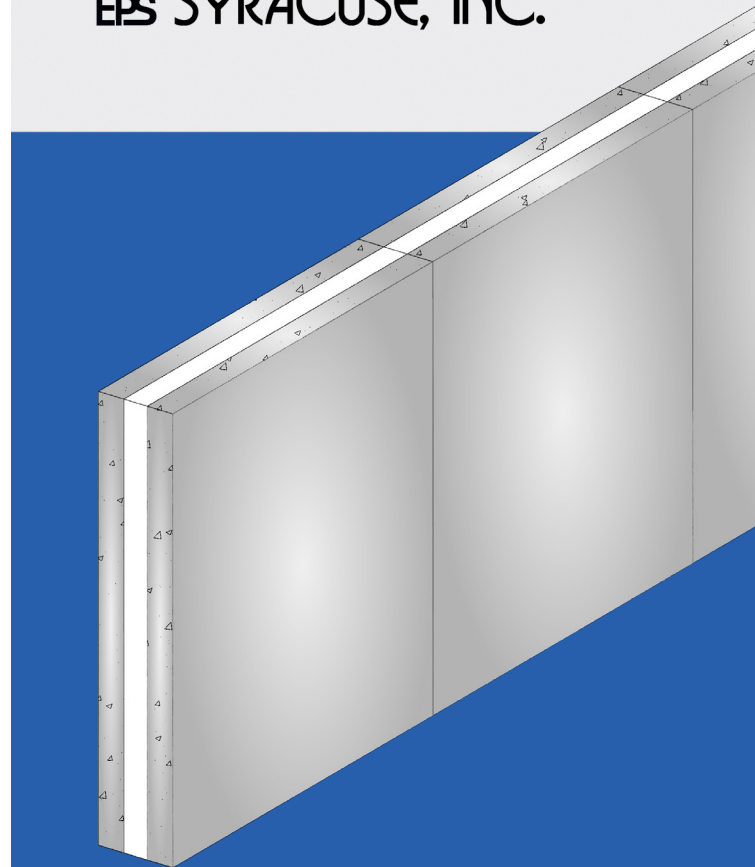
## Proven to meet, or exceed, building codes.

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".



## Sizes and Shapes.

Tru-R insulation can be made in large or small, thick or thin sections. It can be custom cut in sizes ranging from a few square inches up to 3' x 4' x 16'. Patterns for custom projects are easily produced on computer aided cutting equipment.



## 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
- Tru-R with borate treatment available to provide termite resistance

### **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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