

# TRIBUILT® FOIL SHEATHING

## DESCRIPTION

TRI-BUILT® Foil Sheathing is a high-performance rigid insulation consisting of a superior closed-cell, lightweight and resilient expanded polystyrene (EPS) with advanced polymeric laminate facers. It is available with a factory adhered metallic-reflective facers, a grid lined polymeric facer or a combination of the two. The core of the sheathing meets or exceeds the requirements of ASTM C578, Type I, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation. In addition, the sheathing has excellent dimensional stability, compressive strength and water-resistant properties.

## USES

TRI-BUILT® Foil Sheathing has been used successfully for numerous commercial, industrial and residential applications. The following are examples of the many uses:

- Basement Walls
- Cavity Walls
- Crawl Spaces
- Interior Walls
- Waterproofing Protection Board
- Radiant-Heated Floors
- Siding Underlayment
- Stucco Underlayment
- Concrete Slabs
- Wall Sheathing
- Below Grade Insulation

## Warranty Information

TRI-BUILT® MATERIALS GROUP, LLC Foil Sheathing products are warranted only as follows: The seller will replace, without charge, products proved to have manufacturing defects within 6 months of the date of delivery thereof and provided Seller has been given an opportunity to inspect the product alleged to be defective and the installation of use thereof. NO WARRANTY IS INCLUDED AGAINST ANY EXPENSE FOR REMOVAL, REINSTALLATION OR OTHER CONSEQUENTIAL DAMAGES ARISING FROM ANY DEFECT. THE WARRANTIES SET OUT ABOVE ARE THE ONLY WARRANTIES MADE BY SELLER AND ARE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

## ADVANTAGES

### Environmentally Friendly

Contains no dyes, may contain recycled material and the foam core is 100% recyclable.

### Insect and Mold Resistant

Manufactured with an inert additive that deters termites and carpenter ants.

### Water-Resistant

Facers provide a surface that is virtually impervious to moisture.

### Jobsite Durability

With a polymeric facer on either side, it is an extremely flexible and durable insulation.

### Stable R-Value

Has no thermal drift. Designers are well served knowing the thermal properties will remain stable over its entire service life.

### Cost-Effective

Less expensive than other comparable insulation products.

### Proven Performance

The same fundamental chemistry has been in use since the mid-1950s, so the actual performance of the product is well known.

### Enhanced R-Values

In certain applications, increased R-Values can be obtained by placing the metallic reflective side of the sheathing towards a dead air space. R-Value gain is dependent on the amount of dead air space between the sheathing and outer surface. R-Value gains are based on the ASHRAE Handbook of Fundamentals. See the attached Effective R-Value chart.

**SIZES**

TRI-BUILT® Sheathing is available in 4' x 8' sheets with thicknesses of 3/4" and 1 1/2".

All sheathing products are available with metallic reflective and polymeric clear facers. In addition, custom sizes and densities are available upon request with little or no impact on lead time.

**R VALUES**

Property	Type I	Test Method
<b>Nominal Density</b> (pcf)	1.0	ASTM C303
<b>C-Value (Conductance)</b> BTU/(hr·ft <sup>2</sup> ·°F) @ 25° F (per inch) @ 40° F @ 75° F	.23 .24 .26	ASTM C518 or ASTM C177
<b>R-Value (Thermal Resistance)</b> (hr·ft <sup>2</sup> ·°F)/BTU @ 25° F (per inch) @ 40° F @ 75° F	4.35 4.17 3.85	ASTM C518 or ASTM C177
<b>Compressive Strength</b> (psi, 10% deformation)	13	ASTM D1621
<b>Flexural Strength</b> (psi)	33	ASTM C203
<b>Dimensional Stability</b> (maximum %)	< 2%	ASTM D2126
<b>Water Vapor Transmission</b> (perms)	< 1.0	ASTM E96
<b>Absorption</b> (% vol.)	< 1.0	ASTM C272
<b>Capillarity</b>	none	—
<b>Flame Spread</b>	< 20	ASTM E84
<b>Smoke Developed</b>	150 - 300	ASTM E84