

INSULFOAM®

R-TECH® ROOF INSULATION

PREMIUM ROOFING UNDERLAYMENT

Description

R-Tech (Panels) is an engineered rigid insulation consisting of a superior closed-cell, lightweight and resilient expanded polystyrene (EPS) with advanced polymeric laminate facers. R-Tech is available with factory-adhered metallic-reflective facers, white facers or a combination of the two. The core of R-Tech is the same high-quality EPS as our InsulFoam insulations and meets or exceeds the requirements of ASTM C578, Type I, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation. In addition, R-Tech has excellent dimensional stability, compressive strength and water resistance properties. R-Tech can contribute toward LEED® credits.

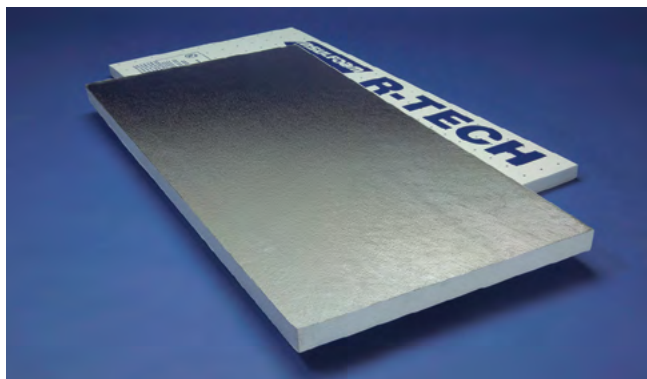
Uses

R-Tech has been used successfully for numerous commercial, industrial and residential roofing recover applications. It is well-suited for single-ply roof applications that employ mechanically fastened or ballasted TPO, PVC, EPDM and CSPE membranes. It is available in compressive strengths up to 60 psi. Consult local building codes and membrane manufacturers for system requirements.

Advantages

- **Environmentally Friendly.** R-Tech does not contain any dyes, may contain recycled material and the foam core is 100% recyclable.
- **User Friendly.** R-Tech can be ordered with the InsulSnap™ feature which scores the product longitudinally at any preordered interval (commonly 16" or 24" o.c.). The InsulSnap feature minimizes labor by enabling the installer to cleanly break the product at the desired width while also minimizing product breakage and waste.
- **Water Resistance.** R-Tech facers provide a surface that is virtually impervious to moisture.
- **Jobsite Durability.** With a polymeric facer on either side of it, R-Tech is extremely flexible and durable.
- **Stable R-value.** The product's thermal properties will remain stable over its entire service life. There is no thermal drift, so the product is eligible for an Insulfoam 20-Year Thermal Performance Warranty.
- **Cost Effective.** R-Tech is typically less expensive than other comparable insulation products.
- **Proven Performance.** The same fundamental chemistry has been in use since the mid-1950s, providing proven performance.

PREDICTABLY CONSISTENT VALUE.



Sizes

R-Tech is available in 4' x 8' sheets with thicknesses from R-Tech Roofing underlayment is available in thicknesses of 3/8, 1/2, 3/4 or 1". R-Tech is available with metallic reflective and InsulFoam white facers. In addition, custom sizes and densities are available upon request with little or no impact on lead time.

Typical Physical Properties*

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

*Properties are based on data provided by resin manufacturers, independent test agencies and Insulfoam.

INSULATION ENGINEERED TO MAKE A DIFFERENCE.