

# INSULROOF<sup>SP</sup>

FIRE-RATED GLASS-FACED INSULATION

## Description

InsulRoof SP (InsulFoam SP) is an engineered insulation consisting of a superior closed-cell, lightweight and resilient expanded polystyrene (EPS) with a durable and stable, factory-laminated coated glass facer. InsulRoof SP is available in a nominal density of 1lb/ft<sup>3</sup> or 1.25lb/ft<sup>3</sup>, and meets or exceeds the requirements of ASTM C578, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation. In addition, InsulRoof SP offers a long-term, stable R-value and has excellent dimensional stability, compressive strength and water resistance properties.

## Uses

InsulRoof SP is specifically designed for low-sloped roof applications that employ mechanically fastened or ballasted TPO, PVC and EPDM, as well as low-sloped built-up, modified bitumen and fully adhered single-ply roofs that incorporate cover boards or slip sheets. InsulRoof is also designed for use in fully-adhered fleeceback systems with compatible adhesives. Please consult local building codes and membrane manufacturers for system requirements.

## Advantages

- **Labor Savings.** With a factory-laminated facer, InsulRoof SP saves labor time and reduces overall project costs, when incorporated into a roofing system that would otherwise require a slip sheet.
- **Code Approvals.** Insulfoam insulations are recognized in the International Code Council Evaluation Service (ICC-ES), and have numerous Underwriters Laboratory and Factory Mutual Approvals. Please contact your local Insulfoam representative for details.
- **Environmentally Friendly.** It does not contain any ozone-depleting blowing agents, may contain recycled material, and is 100% recyclable if ever removed or replaced.
- **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.
- **Proven Performance.** EPS has been manufactured using the same chemistry since the mid-1950s, providing proven performance.
- **Water Resistance.** InsulRoof SP does not readily absorb moisture from the environment.



## Sizes

InsulRoof SP is available in several standard thicknesses. Non-standard sizes may also be ordered; InsulRoof SP can be made up to a thickness of 6" (R-26), with a minimum thickness of 2" for 1 lb/ft<sup>3</sup> insulation and 1.5" for 1.25 lb/ft<sup>3</sup> insulation.

## Typical Physical Properties\*

Property	Test Method	Value	
<b>Density (nom. pcf)</b>	ASTM C303	1.00	1.25
<b>R-Value (Resistance) - per inch</b> (hr•ft <sup>2</sup> •°F)/BTU	ASTM C518		
	or	4.35	4.55
	ASTM C177	4.17	4.25
		3.85	3.92
<b>C-Value (Conductance) - per inch</b> BTU/(hr•ft <sup>2</sup> •°F)	ASTM C518		
	or	0.230	0.220
	ASTM C177	0.240	0.235
		0.260	0.255
<b>Compressive Strength</b> (psi, 10% deformation)	ASTM D1621	10-14	13-18
<b>Flexural Strength</b> (min. psi)	ASTM C203	25	30
<b>Dimensional Stability</b> (maximum %)	ASTM D2126	2.0	2.0
<b>Water Vapor Permeance</b> (max. perm., 1 inch)	ASTM E96	5.0	3.5
<b>Water Absorption</b> (max. % vol.)	ASTM C272	4.0	3.0

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