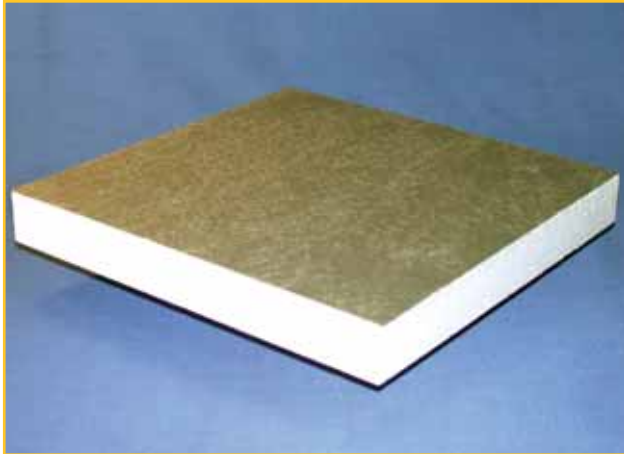


VERSICO'S InsulFoam SP



Overview

InsulFoam SP is an advanced roof insulation consisting of a superior closed-cell, lightweight and resilient expanded polystyrene (EPS) with a durable and stable, factory-laminated fiberglass facer. InsulFoam SP has a nominal density of 1.25 lb/ft³ (pcf), and meets or exceeds the requirements of ASTM C578, Type VIII, *Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation*. In addition, InsulFoam SP offers a long-term, stable R-value and has excellent dimensional stability, compressive strength and water-resistant properties.

InsulFoam SP is manufactured by Insulfoam, a division of Carlisle Construction Materials Incorporated with nine manufacturing facilities in North America.

Features and Benefits

- Premium facer improves fire resistance, moisture resistance and dimensional stability
- Fire-rated slip sheet and thermal barrier not required for many applications
- Recognized in the International Code Council Evaluation Service (ICC-ES)
- Numerous Underwriters Laboratory and Factory Mutual Approvals (see Carlisle rep for details)

- Contains no formaldehyde or ozone-depleting HCFCs
- Features up to 25% recycled material
- 100% recyclable foam core
- Stable R-value qualifies for 20-year thermal performance warranty
- Does not readily absorb moisture

Product Characteristics

InsulFoam SP is available in several standard thicknesses and is made with Type VIII expanded polystyrene with a nominal density of 1.25 pcf. Custom thicknesses are available with little to no impact on lead time.

INSULFOAM SP STANDARD SIZES				
	Thickness	Width	Length	Pieces/Bundle
Re-cover	1.0"	4'	8'	36
R-19	4.5"	4'	8'	8
R-20	4.75"	4'	8'	8
R-25	5.9"	4'	8'	5
R-30	7.0"	4'	8'	5

Applications

InsulFoam SP is specifically designed for low-sloped roof applications that employ fully adhered, mechanically fastened or ballasted TPO, PVC, EPDM and CSPE, as well as low-sloped built-up and modified bitumen roof systems that incorporate cover boards or slip sheets. InsulFoam SP is not compatible with solvent-based adhesives. Please consult Carlisle and local building codes for system requirements.

Installation

Installation Considerations

- Install only as much insulation as can be covered by a roof membrane system, and/or made watertight by the end of each day.
- InsulFoam SP should not be exposed directly to solvent- or petroleum-based adhesives and sealants.

- Allow approximately a ¼" space between insulation and vertical surfaces or roof projections. Do not force or jam product into place.
- Review the layout of all tapered EPS systems before loading and installing panels.
- For re-cover applications, be sure no moisture is trapped in the existing or new roof system.

Loose Laid Installation

Install InsulFoam SP with continuous side joints and end joints, staggered so they are offset by a minimum of 12" from the end joints in adjacent rows. Insulation should abut tightly against adjacent boards. Joints greater than ½" should be filled with the same insulation that is being used in the field of the roof. If insulation is being installed over a thermal barrier, an existing layer of insulation, or under a cover board, all joints must be offset a minimum of 6" between layers. When installing InsulFoam SP directly to a metal deck, the edges of the insulation parallel to the deck ribs must be solidly supported and centered on the ribs. Additionally, for metal decks, ensure that the insulation has a thickness that is adequate to span the rib openings.

** When conditions dictate, in order to prevent wind blow-off or damage during installation, loose-laid insulation should be weighed down or tacked into place with a minimal quantity of mechanical fasteners.*

Mechanically Attached

Install InsulFoam SP with continuous side joints and end joints, staggered so that they are offset by a minimum of 12" from the end joints in adjacent rows. Insulation should abut tightly against adjacent boards. Joints greater than ½" should be filled with the same insulation that is being used in the field of the roof. If insulation is being installed over a thermal barrier, an existing layer of insulation, or under a cover board, all joints must be offset a minimum of 6" between layers. Use an approved mechanical fastener of sufficient length to penetrate into or through the deck by the amount prescribed for the specific fastener. Fasteners should never be closer than 6" from the edges of the insulation board, and should be placed in a pattern that achieves the desired approval. Use appropriate insulation plates with the fasteners. Care must be taken to avoid over-driving or under-driving the fastener and plate assembly. When installing InsulFoam SP directly to a metal deck, the edges of the insulation parallel to the deck ribs must be solidly supported and centered on the ribs. Additionally, for metal decks, ensure that the insulation has a thickness that is adequate to span the rib openings.

INSULFOAM SP TYPICAL PROPERTIES AND CHARACTERISTICS		
Property	Test Method	Value
Density (nom. pcf)	ASTM C303	1.25
C-Value (Conductance) BTU/(hr • ft ² • °F)		
(per inch)	@25°F @40°F @75°F	ASTM C518 or ASTM C177
		0.220 0.235 0.255
R-Value (Thermal Resistance) (hr • ft ² • °F)/BTU		
(per inch)	@25°F @40°F @75°F	ASTM C518 or ASTM C177
		4.55 4.25 3.92
Compressive Strength (psi, 10% deformation)	ASTM D1621	13--18
Flexural Strength (min. psi)	ASTM C203	30
Dimensional Stability (maximum %)	ASTM D2126	2.0
Water Vapor Permeance (max. perm., 1 inch)	ASTM E96	3.5
Water Absorption (max. % vol.)	ASTM C272	3.0
Capillarity	—	None
Flame Spread	ASTM E84	< 20
Smoke Developed	ASTM E84	150–300