

INSULGRADE VIII

15 PSI MOISTURE-RESISTANT INSULATION

Description

InsulGrade VIII (InsulFoam VIII) is a premium insulation consisting of a superior closed-cell, lightweight and resilient expanded polystyrene (EPS). InsulGrade VIII meets or exceeds the requirements of ASTM C578, Type VIII, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation. InsulGrade VIII has a nominal density of 1.25 lb/ft³. In addition, InsulGrade VIII offers a long-term, stable R-value and has excellent dimensional stability, compressive strength and water resistance properties.

Uses

InsulGrade VIII is a premium EPS product and is used in numerous building construction applications.

Roof Systems: InsulGrade VIII is well-suited for single-ply 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. Please consult local building codes and membrane manufacturers for system requirements.

Other Construction Applications: InsulGrade VIII is used in assorted building applications, including pre-stressed and pre-cast structural concrete panels, metal roof flute-fill, siding backer board, building sheathing, roads and bridge fill, below-slab and perimeter insulation, and numerous other geofoam applications.

Advantages

- **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 EPS chemistry since the mid-1950s, providing proven performance.



- **Water Resistance.** InsulGrade VIII does not readily absorb moisture from the environment.
- **Code Approvals.** Insulfoam insulations are recognized by 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.

Sizes

InsulGrade VIII is available in 4' x 4' and 4' x 8' standard sizes with thicknesses from 1/4" to 40", and is readily available in custom lengths and widths with little to no impact on lead time. It is also available in tapered panels.

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Typical Tested Physical Properties*

Property	Test Method	Value
Density (nom. pcf)	ASTM C303	1.25
C-Value (Conductance) - per inch BTU/(hr•ft ² •°F) @ 25 °F @ 40 °F @ 75 °F	ASTM C518	0.220
	or	
	ASTM C177	0.235 0.255
R-value (Resistance) - per inch (hr•ft ² •°F)/BTU @ 25 °F @ 40 °F @ 75 °F	ASTM C518	4.55
	or	4.25
	ASTM C177	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

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