

INSULFOAM I

WALL INSULATION SYSTEMS

TYPE I FIRE RATED RIGID INSULATION

Description

InsulFoam I is an engineered insulation consisting of a superior closed-cell, lightweight and resilient expanded polystyrene (EPS). InsulFoam I insulation meets or exceeds the requirements of ASTM C578, Type I, *Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation*. InsulFoam I has a nominal density of 1.0 lb/ft³, offers a long-term, stable R-value, has excellent dimensional stability, compressive strength and water resistance properties.

Uses

Insulfoam Wall Insulation is successfully used in numerous commercial, industrial and residential applications, including:

- Sheathing
- Interior Walls
- Tongue & Groove Insulation
- Continuous Insulation
- Stucco Systems
- Cavity Walls
- Siding Underlayment
- Exterior Insulating Finish Systems (EIFS)
- Basement Walls
- Retaining Walls
- Attics & Crawl Spaces
- Gable-Ends
- Architectural Shapes

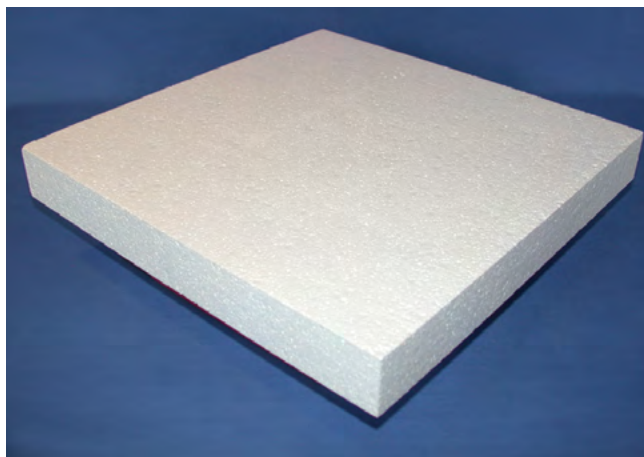
Advantages

- **Environmentally Friendly.** Insulfoam Wall Insulation 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 has no thermal drift, so its thermal properties will remain stable over the entire service life making it 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.** Insulfoam Wall Insulation 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. They also offer Please contact your local Insulfoam representative for details.
- **Cost Savings.** Insulfoam Wall Insulation offers the highest R-Value per dollar over other rigid insulations, and is available in custom lengths and widths to help with installation labor savings.
- **Insect and Mold Resistance.** Insulfoam Below Grade Insulation can be manufactured with an inert additive that deters termites.

Sizes

InsulFoam I is available in 4' x 4' and 4' x 8' standard sizes with thicknesses from ¼" 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.

THE PROVEN STANDARD FOR WALLS.



InsulFoam I Fire-Rated insulation Typical Tested Physical Properties*

Property	Test Method	Value
Density (nom. pcf)	ASTM C303	1.00
C-Value (Conductance) - per inch BTU/(hr•ft ² •°F)	ASTM C518 or ASTM C177	0.230 0.240 0.260
R-value (Resistance) - per inch (hr•ft ² •°F)/BTU	ASTM C518 or ASTM C177	4.35 4.17 3.85
Compressive Strength (psi, 10% deformation)	ASTM D1621	10-14
Flexural Strength (min. psi)	ASTM C203	25
Dimensional Stability (maximum %)	ASTM D2126	2.0
Water Vapor Permeance (max. perm., 1 inch)	ASTM E96	5.0
Water Absorption (max. % vol.)	ASTM C272	4.0
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.