

INSULFOAM[®] XIV

WALL INSULATION SYSTEMS

TYPE XIV FIRE RATED RIGID INSULATION

Description

InsulFoam XIV is an engineered insulation consisting of a superior closed-cell, lightweight and resilient expanded polystyrene (EPS). InsulFoam XIV insulation meets or exceeds the requirements of ASTM C578, Type XIV, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation. InsulFoam XIV 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

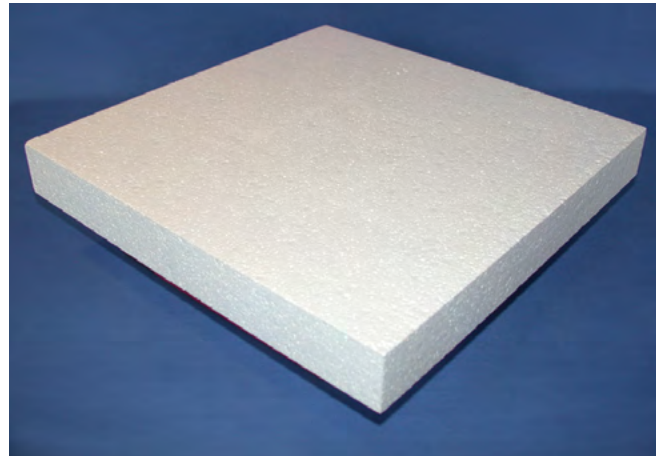
Advantages

- **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 XIV 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 XIV Fire-Rated Insulation Typical Tested Physical Properties*

Property	Test Method	Value
Density (nom. pcf)	ASTM C303	2.50
C-Value (Conductance) - per inch BTU/(hr•ft ² •°F)	ASTM C518 or ASTM C177	0.198 0.206 0.222
R-value (Resistance) - per inch (hr•ft ² •°F)/BTU	ASTM C518 or ASTM C177	5.05 4.85 4.50
Compressive Strength (psi, 10% deformation)	ASTM D1621	40
Flexural Strength (min. psi)	ASTM C203	60
Dimensional Stability (maximum %)	ASTM D2126	2.0
Water Vapor Permeance (max. perm., 1 inch)	ASTM E96	2.5
Water Absorption (max. % vol.)	ASTM C272	2.0
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.