

Description

InsulFoam Wall Insulation is an engineered insulation consisting of a superior closed-cell, lightweight and resilient expanded polystyrene (EPS). Insulfoam insulation meets or exceeds the requirements of ASTM C578, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation. Insulfoam Insulation is available in densities randing from 1.0 to 3.0 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
- Exterior Insulating Finish Systems (EIFS)
- Basement Walls
- Retaining Walls
- Stucco Systems
- **Cavity Walls**

- Attics & Crawl Spaces
- Siding Underlayment
- 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. Insulfoam's thermal stability makes it eligible for an Insulfoam 20year 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, and offers exceptional wall system moisture management.
- 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 comply with most environmental certifications, and offer significant points towards environmental credentialing programs.
- Cost Savings, Insulfoam Wall Insulation is typically less expensive than other rigid insulations, 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 Insulation is naturally decay resistant and can be manufactured with an inert additive that deters termites.

THE PROVEN **STANDARD** FOR WALLS.



Sizes

Insulfoam Wall insulation 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, widths and densities with little to no impact on lead time. It is also available in tapered panels.

Installation Recommendations

Please refer to the appropriate Insulfoam application sheets for recommended installation procedures.







Typical Properties of Insulfoam Wall Insulation*

Property		Type I	Type VIII	Type II	Type IX	Type XIV	Type XV	Test Method
Nominal Density (pcf)		1.0	1.25	1.5	2.0	2.50	3.0	ASTM C518 or ASTM C177
C-Value (Conductan	ce)							
BTU/(hr•ft2•°F)	@ 25° F			010				ASTM C518
(per inch)	@ 25° F @ 40° F	.230	.220	.210	.200	0.198	0.196	or
(ber men)	@ 75° F	.240 .260	.235 .255	.220 .240	.210 .230	0.206	0.198	ASTM C177
	6701	.200	.200	.240	.230	0.222	0.217	
R-value (Thermal Resis								
(hr∙ft2•°F)/BTU	@ 25° F			. = 0				ASTM C518
(per inch)	@ 40° F	4.35	4.55	4.76	5.00	5.05	5.10	or
(per men)	@ 75° F	4.2 3.9	4.25 3.92	4.55 4.17	4.76 4.35	4.85	5.05	ASTM C177
	6701	5.9	5.92	4.17	4.55	4.50	4.60	
Compressive Strength (psi, 10% deformation)		10 - 14	13 - 18	15 - 21	25 - 33	40	60	ASTM D1621
Flexural Strength (min. psi)		25	30	35	50	60	75	ASTM C203
Dimensional Stability (maximum %)		2%	2%	2%	2%	2.0	2.0	ASTM D2126
Water Vapor Permeance (max. perm., 1 inch)		5.0	3.5	3.5	2.0	2.5	2.5	ASTM E96
Water Absorption (max. % vol.)		4.0	3.0	3.0	2.0	2.0	2.0	ASTM C272
Capillarity		none	none	none	none	none	none	_
Flame Spread		< 20	< 20	< 20	< 20	< 20	< 20	ASTM E84
Smoke Developed		150 - 300	150 - 300	150 - 300	150 - 300	150-300	150-300	ASTM E84

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