INSULFOAM®
HIGH PERFORMANCE INSULATION
A CARLISLE COMPANY

Description

InsulFoam is an engineered insulation consisting of a superior closed-cell, lightweight and resilient expanded polystyrene (EPS). InsulFoam meets or exceeds the comprehensive strength, flexural strength, dimensional stability and water absorption requirements of ASTM C578, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation. InsulFoam can be manufactured in a wide range of block and panel sizes, and in a wide assortment of shapes and densities. In addition, the insulation offers a long-term, stable R-Value and has excellent dimensional stability, compressive strength and water resistance properties. InsulFoam can contribute toward environmental credentialing including LEED® credits.

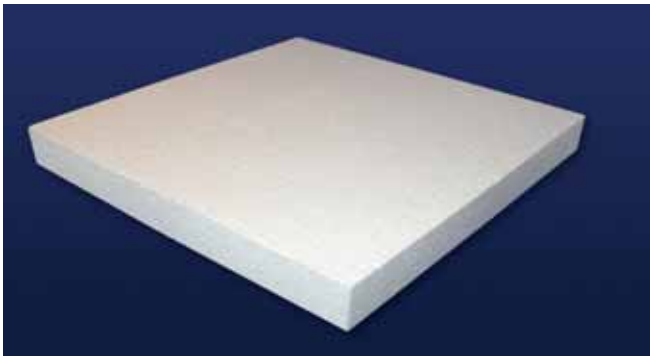
Uses

InsulFoam Insulation is successfully used in numerous commercial, industrial and residential applications. The following are examples of the many applications:

- Interior & Exterior Wall Insulation
- EIFS & Stucco Insulation
- Single-Ply Roof Insulation
- Roof Recover Board
- Continuous Below-Grade Insulation
- Foundation, Perimeter, Slab & Basement Insulation
- Retaining Walls
- Drainage Board
- Waterproofing Protection Board
- Freezers & Cold Storage

Advantages

- Environmentally Friendly. InsulFoam Insulation does not contain any ozone-depleting blowing agents, may contain recycled material and is 100% recyclable.
- Moisture Resistance. InsulFoam Insulation does not readily absorb moisture from the environment.
- Insect and Mold Resistance. InsulFoam Insulation does not sustain mold and mildew growth and can be manufactured with an inert additive that deters termites and carpenter ants.
- Stable R-Value. The product's thermal properties will remain stable over its entire service life.
- Long Term Warranty. With no thermal drift, InsulFoam warrants this product with a 20-year Thermal Performance Warranty.
- Proven Performance. EPS has been manufactured using the same chemistry since the mid-1950s, providing proven performance.
- Varying Compressive Strengths. More available compressive strengths than comparable insulation products.



- Cost Effective. InsulFoam is typically less expensive than comparable insulation products.
- Code Approvals. InsulFoam insulations are recognized by the International Code Council Evaluation Service (ICC-ES), for numerous applications. Please contact your local Insulfoam representative for details.

Sizes

InsulFoam Insulation is offered in an assortment of sizes and shapes and is readily available in custom lengths, widths and densities with little to no impact on lead time.

Installation Recommendations

Please refer to the appropriate InsulFoam installation guidelines for recommended installation procedures, available at www.insulfoam.com or by asking your local representative.

INSULATION ENGINEERED TO MAKE A DIFFERENCE.

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Typical Tested Physical Properties of Insulfoam 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 C303
C-Value (Conductance) BTU/(hr•ft2•°F) (per inch) @ 25° F	.230	.220	.210	.200	0.198	0.196	ASTM C518 or ASTM C177
(per inch) @ 40° F	.240	.235	.220	.210	0.206	0.198	
(per inch) @ 75° F	.260	.255	.240	.230	0.222	0.217	
R-Value (Thermal Resistance) (hr•ft2•°F)/BTU (per inch) @ 25° F	4.35	4.55	4.76	5.00	5.05	5.10	ASTM C518 or ASTM C177
(per inch) @ 40° F	4.2	4.25	4.55	4.76	4.85	5.05	
(per inch) @ 75° F	3.9	3.92	4.17	4.35	4.50	4.60	
Compressive Strength (psi, 10% deformation)	10	15	20	25	40	60	ASTM D1621
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.