

INSULWALL IEG

FIRE-RATED EXTERIOR INSULATION

Description

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

The high thermal value, excellent moisture resistance, dense, easily textured, dimensionally stable, and resistance to physical and environmental abuse makes Insulfoam the leader and preferred exterior insulation used with exterior wall systems.

Uses

InsulWall IEG is successfully used in numerous commercial, industrial and residential applications for Exterior Insulation Finishing Systems (EIFS).

Advantages

- **Environmentally Friendly.** InsulWall IEG does not contain any ozone-depleting blowing agents, and is 100% recyclable.
- **Insect and Mold Resistant.** InsulWall IEG can be manufactured with an inert additive that deters termites and carpenter ants. InsulWall IEG does not sustain mold and mildew growth.
- **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 chemistry since the mid-1950s, providing proven performance.
- **Water Resistance.** InsulWall IEG does not readily absorb moisture from the environment.



- **Cost Effective.** InsulWall IEG 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

InsulWall IEG 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.

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Classification	Type I
Density, min, lb/ft ³ (kg/m ³)	.90 (15)
Thermal resistance of 1.00 in (25.4 mm) thickness, min F•ft ² h/Btu (K•m ² /W) @ 40°F (4.4°C) @ 75°F (23.9°C)	4.17 (0.73) 3.85 (0.67)
Compressive resistance at 10% deformation or yield, whichever occurs first, min, psi (kPa)	10.0 (69)
Tensile strength, min, psi (kPa) (ASTM D1623)	15.0 (103)
Flexural strength, min psi (kPa)	25.0 (173)
Shear modulus, max, psi (kPa) (ASTM C273)	400 (2758)
Water Vapor permeance of 1.00 in (25.4 mm) thickness, max, perm (ng/Pa•s•m)	5.0 (287)
Water absorption by total immersion, max, volume %	4.0
Dimensional stability (change in dimensional), max, %	2.0
Oxygen index, min, volume %	24.0
Flame spread, max (ASTM E84)	25
Smoke developed, max (ASTM E84)	450
Requirements	
Board Thickness, Class PB and PM Maximum Minimum	4" (102 mm) ¾" (19 mm)
Board width, max Class PB Class PM	24" (610 mm) 24" (610 mm)
Board width, max Class PB Class PM	48" (1219 mm) 96" (2438 mm)