

# INSULWALL II

## FIRE-RATED INSULATION

### Description

InsulWall II (InsulFoam II) is an engineered insulation consisting of a superior closed-cell, lightweight and resilient expanded polystyrene (EPS). InsulWall II meets or exceeds the requirements of ASTM C578, Type II, *Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation*. InsulWall II has a nominal density of 1.5 lb/ft<sup>3</sup>. In addition, InsulWall II offers a long-term, stable R-value and has excellent dimensional stability, compressive strength and water resistance properties.

### Uses

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

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

### Advantages

- **Environmentally Friendly.** InsulWall II 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's thermal properties will remain stable over the 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 II 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. Please contact your local Insulfoam representative for details



### Sizes

InsulWall II is available in 4' x 4' and 4' x 8' standard sizes with thickness from 1/4" 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.

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## Typical Tested Physical Properties\*

| Property                                                         | Test Method                  | Value                   |
|------------------------------------------------------------------|------------------------------|-------------------------|
| Density (nom. pcf)                                               | ASTM C303                    | 1.50                    |
| C-Value (Conductance) - per inch<br>BTU/(hr•ft <sup>2</sup> •°F) | ASTM C518<br>or<br>ASTM C177 | 0.210<br>0.220<br>0.240 |
| R-value (Resistance) - per inch<br>(hr•ft <sup>2</sup> •°F)/BTU  | ASTM C518<br>or<br>ASTM C177 | 4.76<br>4.55<br>4.17    |
| Compressive Strength<br>(psi, 10% deformation)                   | ASTM D1621                   | 15-21                   |
| Flexural Strength (min. psi)                                     | ASTM C203                    | 35                      |
| Dimensional Stability<br>(maximum %)                             | ASTM D2126                   | 2.0                     |
| Water Vapor Permeance<br>(max. perm., 1 inch)                    | ASTM E96                     | 3.5                     |
| Water Absorption (max. % vol.)                                   | ASTM C272                    | 3.0                     |
| 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.