

# INSULROOF IX FLAT AND TAPERED RIGID INSULATION

### **Description**

InsulRoof IX (InsulFoam IX) is an engineered insulation consisting of a superior closed-cell, lightweight and resilient expanded polystyrene (EPS). InsulRoof IX meets or exceeds the requirements of ASTM C578, Type IX, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation. InsulRoof IX has a nominal density of 2.0 lb/ft³. In addition, InsulRoof IX offers a long-term, stable R-value and has excellent dimensional stability, compressive strength and water resistance properties.

#### Uses

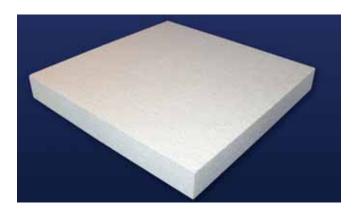
InsulRoof IX is a high-performance roof insulation and is used in numerous roofing applications.

Roof Systems: InsulRoof IX is well suited for single-ply roof applications that employ ballasted, mechanically fastened TPO, PVC and EPDM, as well as low-sloped built-up, modified bitumen and fully adhered single-ply roofs that incorporate cover boards. Please consult local building codes and membrane manufacturers for system requirements.

System Compatibility: InsulRoof insulations are compatible with both light- and dark-colored single-ply membranes, can be applied directly to metal decks, are available in higher compressive strengths, and can be manufactured with fire-rated facers and coverboards. Please contact Insulfoam for more details.

## **Advantages**

- Environmentally Friendly. It does not contain any 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 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. InsulRoof IX 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**

InsulRoof IX is available in 4'  $\times$  4' and 4'  $\times$  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, with thickness from 0 (1/8" actual) to 40", and any slope per foot.

## **Typical Physical Properties**

Property	Test Method	Value
Density (nom. pcf)	ASTM C303	2.00
C-Value (Conductance) - per inch		
BTU/(hr•ft²•°F)	ASTM C518	
<b>@ 25</b> °F	or	0.200
@ 40 °F	ASTM C177	0.210
@ 75 °F		0.230
R-value (Resistance) - per inch		
(hr•ft2•°F)/BTU	ASTM C518	
@ 25 °F	or	5.00
@ 40 °F	ASTM C177	4.76
@ 75 °F		4.35
Compressive Strength (psi, 10% deformation)	ASTM D1621	25-33
Flexural Strength (min. psi)	ASTM C203	50
Dimensional Stability (maximum %)	ASTM D2126	2.0
Water Vapor Permeance (max. perm., 1 inch)	ASTM E96	2.0
Water Absorption (max. % vol.)	ASTM C272	2.0
Capillarity	-	none
Flame Spread	ASTM E84	< 20
Smoke Developed	ASTM E84	150-300

<sup>\*</sup>Properties are based on data provided by resin manufacturers, independent test agencies and Insulfoam