

# INSULWALL XV

## HIGH-PERFORMANCE INSULATION

### Description

InsulWall XV (InsulFoam XV) is an engineered insulation consisting of a superior closed-cell, lightweight and resilient expanded polystyrene (EPS). InsulWall XV meets or exceeds the requirements of ASTM C578, Type XV, *Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation*. InsulWall XV has a nominal density of 3.0 lb/ft<sup>3</sup>. In addition, InsulWall XV offers a long-term stable R-value and has excellent dimensional stability, compressive strength and water resistance properties.

### Uses

InsulWall XV is a high-performance EPS product and is used in numerous applications requiring an insulation or fill material with a high compressive strength.

**Roof Systems:** InsulWall XV is well suited for single-ply roof applications employing mechanically fastened or ballasted TPO, PVC and EPDM, inverted roof membrane assemblies (IRMA), and hot rubber systems. Low-sloped built-up, modified bitumen and fully adhered single-ply roofs incorporating a cover board or slip sheet, are also approved. InsulWall XV can be provided in flat and tapered panels as well as a custom cut flute-fill piece. Please consult local building codes and membrane manufacturers for system requirements.

**Construction Applications:** InsulWall XV is used in below-slab, perimeter and plaza deck applications; road-fill, bridge approaches and numerous other geofom applications; pre-stressed and pre-cast structural concrete panels, siding backer board, building sheathing, and numerous other construction applications.

### Advantages

- **Environmentally Friendly.** InsulWall XV 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 XV does not readily absorb moisture from the environment.



- **Code Approvals.** InsulFoam insulations have numerous Underwriters Laboratory and Factory Mutual Approvals. Please contact your local Insulfoam representative for details.

### Sizes

InsulWall XV is available in 4' x 4' and 4' x 8' standard sizes with thickness from 1/4" to 40" and readily available in custom lengths and widths with little or no impact on lead time.

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## Typical Tested Physical Properties\*

Property	Test Method	Value
Density (nom. pcf)	ASTM C303	3.0
R-value (Resistance) - per inch (hr•ft <sup>2</sup> •°F)/BTU	ASTM C518	
@ 25 °F	or	5.10
@ 40 °F	ASTM C177	5.05
@ 75 °F		4.60
C-Value (Conductance) - per inch BTU/(hr•ft <sup>2</sup> •°F)	ASTM C518	
@ 25 °F	or	0.196
@ 40 °F	ASTM C177	0.198
@ 75 °F		0.217
Compressive Strength (psi, 10% deformation)	ASTM D1621	60
Flexural Strength (min. psi)	ASTM C203	75
Dimensional Stability (maximum %)	ASTM D2126	2.0
Water Vapor Permeance (max. perm., 1 inch)	ASTM E96	2.5
Water Absorption (max. % vol.)	ASTM C272	2.0
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.