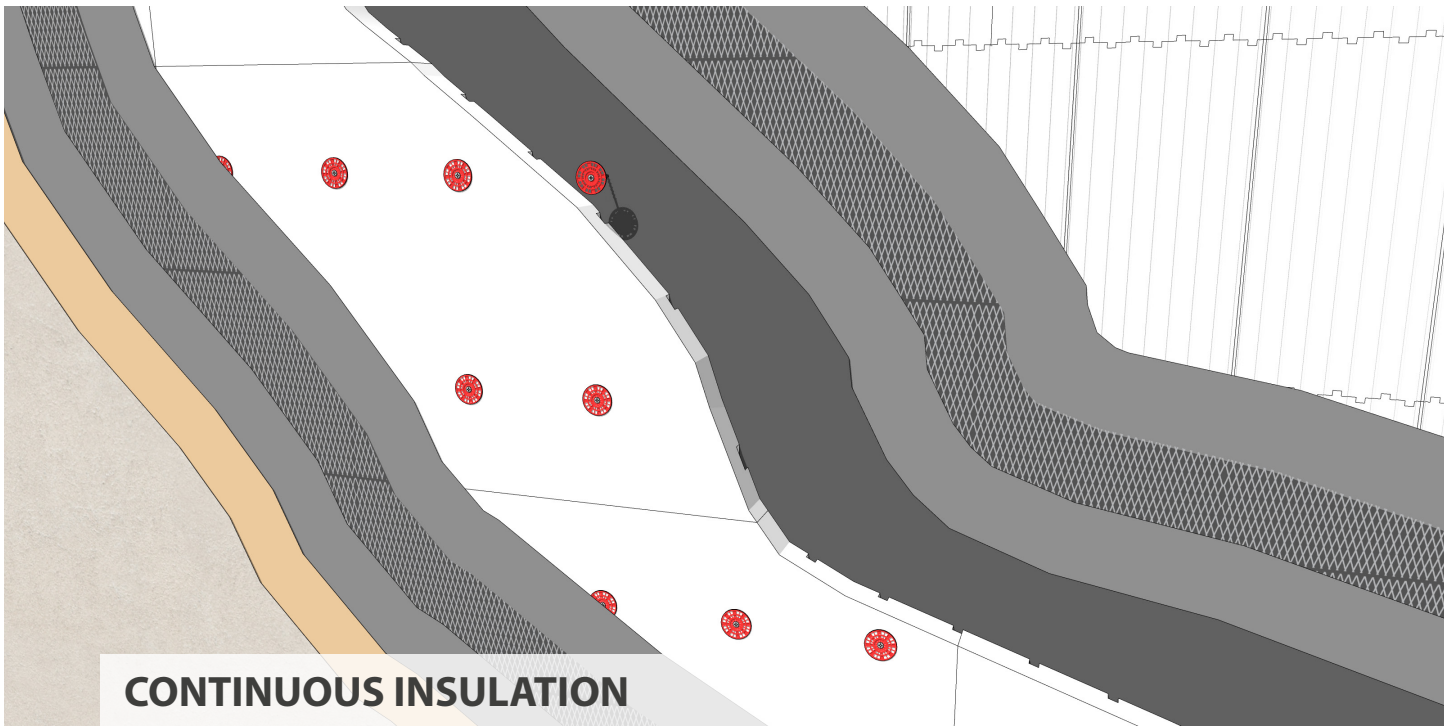


# EPS Insulation for EIFS and Stucco

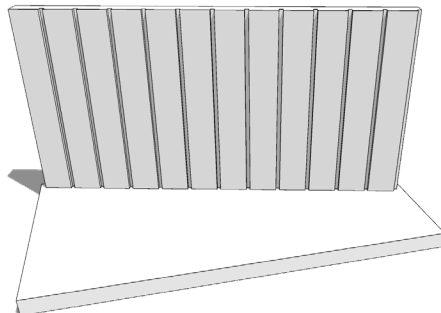


## CONTINUOUS INSULATION

Amvic's EPS is non-structural, rigid insulation boards made from 100% virgin, closed cell, Expanded Polystyrene (EPS). Board are either aged in ambient air for five weeks or kiln-dried.

Designed to be installed as part of Exterior Insulation and Finish System (EIFS) or under stucco for commercial and residential applications.

The combination of foam and cementitious coating/s gives great flexibility in shape and color while providing excellent thermal performance by acting as continuous insulation and reducing the impact of thermal bridging.



## Amvic Advantage

- Amvic is an approved component supplier for Exterior Insulation and Finish System (EIFS) manufacturers, meeting the guidelines outlined by the EIFS Council of Canada (ECC).
- Can be manufactured with virtually any drainage pattern or design based on the manufacturer's needs.
- Exceptional Long-Term Thermal Resistance (LTTR).
- Increased thermal resistance in lower temperatures.
- Each panel is easy to handle due to the low weight and can be easily cut.

QAI Listing #B1061-1

**Availability**

Amvic is able to manufacture EPS insulation boards in variety of sizes with the most common one being 2x4' (610x1219mm) with thicknesses ranging from 1.5-5" (38-127mm).

**Applications**

- Commercial and residential EIFS applications
- Low rise residential stucco applications
- Recladding
- Continuous rigid insulation
- Architectural moldings
- Can be used as general purpose insulation for above grade exterior walls or below grade interior only

The maximum continuous operating temperature for Expanded Polystyrene (EPS) is 158°F (70°C). EPS exposure to ultra violet (UV) is limited to a thin layer causing a slight discoloration and surface dusting. The material underneath remains unaffected maintaining its physical properties. This is usually mitigated by applying the first coat of the EIFS system (or stucco base coat) shortly after panel installation, thus limiting UV exposure.

The UV affected material can be removed by brushing/ rasping the surface to expose unaffected EPS followed by typical application of the rest of the components. Avoid hydrocarbons and petroleum based products.

**Physical Properties Table**

	Standard	EPS 1	EPS 2	EPS 3
Specification for Rigid Polystyrene Insulation	CAN/ULC-S701	Type 1	Type 2	Type 3
	ASTM C578	Type I	Type II	Type IX
Thermal Resistance (Minimum)	ASTM C518 @ 75°F (24°C)	3.75 F.ft <sup>2</sup> .hr/Btu (0.65 m <sup>2</sup> K/W)	4.00 F.ft <sup>2</sup> .hr/Btu (0.70 m <sup>2</sup> K/W)	4.20 F.ft <sup>2</sup> .hr/Btu (0.74 m <sup>2</sup> K/W)
Compressive Strength (Minimum)	ASTM D1621 @ 10% Strain	10 psi (70 kPa)	16 psi (110 kPa)	20 psi (140 kPa)
Water Absorption (Max.)	ASTM D2842	4.0%	3.0%	2.0%
Water Vapor Permeance (Maximum)	ASTM E96	5.0 US perm (286 ng/Pa.s.m <sup>2</sup> )	3.0 US perm (172 ng/Pa.s.m <sup>2</sup> )	2.0 US perm (114 ng/Pa.s.m <sup>2</sup> )
Flexural Strength (Minimum)	ASTM C203	25 psi (172 kPa)	35 psi (241 kPa)	50 psi (344 kPa)
Dimensional Stability (Max.)	ASTM D2126	1.5%	1.5%	1.5%
Limiting Oxygen Index (Min.)	ASTM D2863	24%	24%	24%
Density	ASTM D1622	1.0 lb/ft <sup>3</sup> (16 kg/m <sup>3</sup> )	1.5 lb/ft <sup>3</sup> (24 kg/m <sup>3</sup> )	2.0 lb/ft <sup>3</sup> (32 kg/m <sup>3</sup> )
Surface Burning Characteristics	ASTM E84 <sup>1</sup>			
	Flame Spread	≤25	≤25	≤25
	Smoke Developed	≥450	≥450	≥450
	CAN/ULC-S102 <sup>2</sup>			
	Flame Spread	≤210	≤210	≤210
	Smoke Developed	≥500	≥500	≥500

<sup>1</sup> For thicknesses up to and including 4"  
<sup>2</sup> For thicknesses up to and including 100mm

