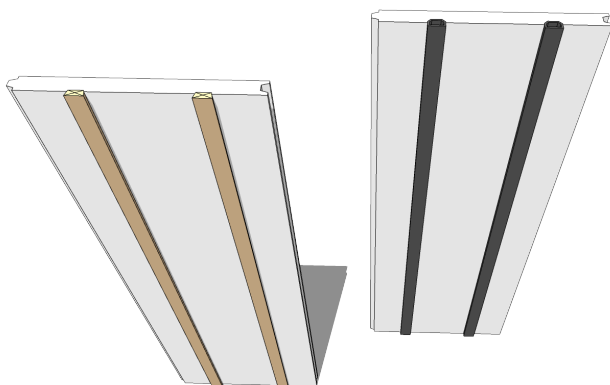**Alleguard**

Envirostrap Rigid Foam Insulation

INTEGRATED STRAPPING

Envirostrap is a non-structural, rigid insulation board made from closed cell Expanded Polystyrene (EPS) with integrated furring strips offering cost effective performance.
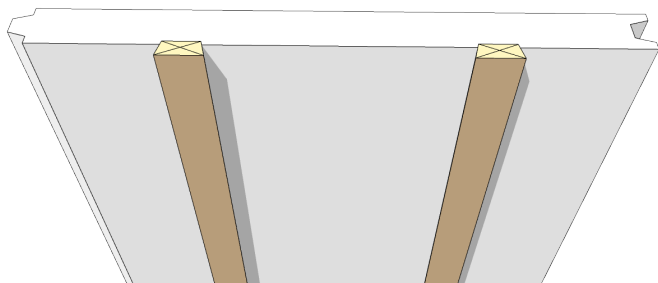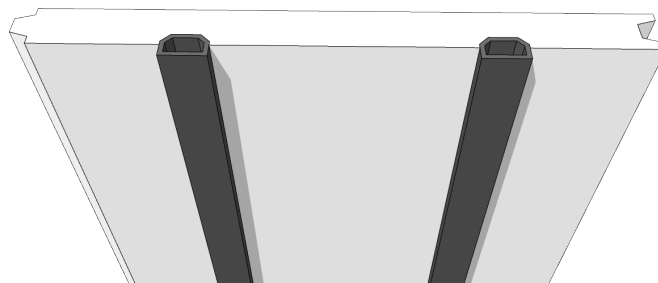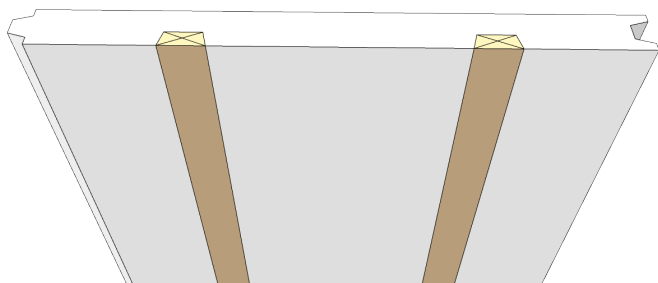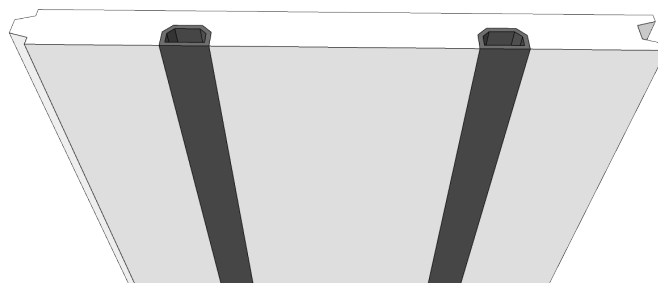
This highly effective combination of materials offers a 2-in-1 solution incorporating insulation and finish attachment surfaces that can be used for both above grade and interior below grade applications.

The furring strips can be either fully recessed inside the foam or can protrude from the surface of the foam by 3/4" (19mm), creating an air gap for a rainscreen exterior cladding installation.

Alleguard Advantage

• Stable Long-Term Thermal Resistance (LTTR) with increased thermal resistance in lower temperatures.

• Furring strips are located every 16" (406mm), are 2.5" (63mm) wide and 1" (25mm) deep.

• High vapor permeance allowing wall assemblies to dry over time.

• No off-gassing and does not contain HFCs, CFCs or HCFCs.

• Each panel is easy to handle due to the low weight and can be easily cut.

• The availability of larger panels help improve job site efficiency and reduce labor costs.

• The tongue and groove interlock along the long sides of the board helps ensure thermal continuity.

Raised Wood Strapping

Raised Plastic Strapping

Flush Wood Strapping

Flush Plastic Strapping

Physical Properties Table

Specification for Rigid Polystyrene Insulation	CAN/ULC-S701	Type 1
	ASTM C578	Type I
Thermal Resistance[1]	ASTM C518 @ 75°F (24°C)	3.9 F.ft^2.hr/Btu (0.69 m^{2}K/W)
Compressive Strength	ASTM D1621	12 psi (83kPa)
Water Absorption (Max.)	ASTM D2842	4.00%
Water Vapor Permeance (Max.)[1]	ASTM E96	5.00 US perm (286 ng/Pa.s.m^2)
Flexural Strength (Min.)	ASTM C203	25 psi (173 kPa)
Dimensional Stability (Max.)	ASTM D2126	1.50%
Limiting Oxygen Index	ASTM D2863	>24.0%
Density		1.0 lb/ft^3 (16 kg/m^3)
Surface Burning Characteristics	ASTM E84[2]	
	Flame Spread Index (FSI)	≤25
	Smoke Developed Index (SDI)	≤450
	CAN/ULC-S102.2[3]	
	Flame Spread Index (FSI)	≤210
	Smoke Developed Index (SDI)	≥500

[1] Measurement per 1" (25mm) of thickness
[2] For thicknesses up to 4"
[3] For thicknesses up to 100mm

Availability

Envirostrap comes in 32" (813mm) width and is available in 8' and 9' lengths (2.4m and 2.7m respectively). Boards come in 2-5/8" (67mm) and 3-1/2" (89mm) thicknesses.

Applications

- Above grade exterior walls
- Part of wall recladding
- Below grade interior walls
- Ceilings

The maximum continuous operating temperature for Envirostrap is 158°F (70°C). EPS exposure to ultra violet (UV) is limited to a thin layer causing slight discoloration and surface dusting. The material underneath remains unaffected maintaining its properties. Prolonged exposure may cause minimal reduction in thickness. To avoid membrane adhesion issues, apply membrane right after board installation or remove the UV affected material by brushing/rasping the surface to expose unaffected EPS (avoid hydrocarbons and petroleum based products).