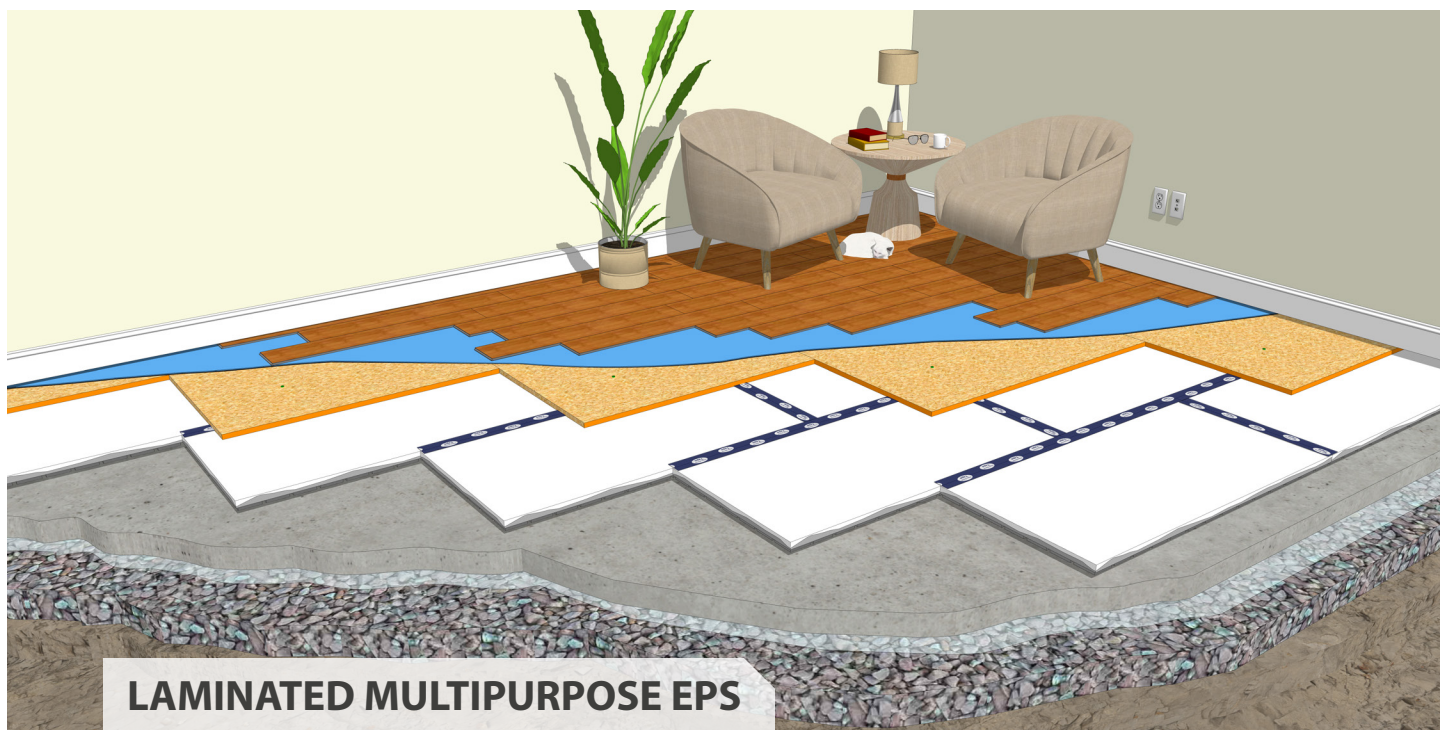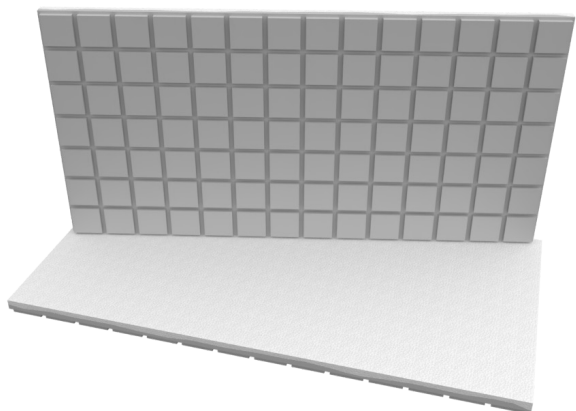# Amdry Eco Rigid Insulation Panels

LAMINATED MULTIPURPOSE EPS

Amdry Eco is a non-structural rigid insulation panel made from closed cell, molded Expanded Polystyrene (EPS) with a layer of High Impact Polystyrene (HIPS) film. The laminated side has bi-directional ½" (13mm) wide by ½" (13mm) high channels that can be used for venting or water drainage, depending on the application.

The combination of molded EPS, HIPS film and moisture management pattern offers a highly versatile supplementary component that can be used in floor assemblies.
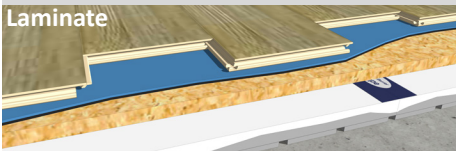

Alleguard Advantage

• Stable long term thermal resistance.

• Increased thermal resistance in lower temperatures.

• Film functions as a vapor barrier when sealed and taped.

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

• Light and manageable panel size reduces waste due to damage on site.

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

• Does not promote growth of mold and mildew.

Application: Floating & Glue-Down
- Underlay recommended
- Plank thickness ¼" (6mm) or thicker required

Laminate

Application: Nail-Down
- Underlay recommended

Engineered Hardwood

Application: Floating & Glue-Down
- Underlay recommended
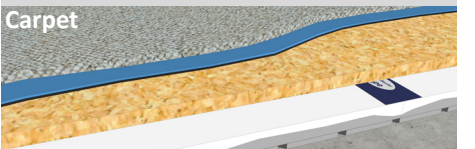- Plank thickness ³⁄₁₆" (4mm) or thicker required

Vinyl Plank

Application: Nail-Down
- Underlay recommended
- Not suitable for below grade applications

Solid Hardwood

Application: Stretch-In & Direct Glue-Down
- Underpad required
- If panels are not flat, install a single concrete screw in the middle of the panel

Carpet

Application: Adhesive Mortar
- Requires use of adhesive mortar (thinset cement), ¾" (19mm) trowel with a minimum clear mortar of ½" (13mm).

Tile

Physical Properties Table

	Standard	Units	AMD150024KIT
Specification for Rigid Polystyrene Insulation	ASTM C578		Type II
	CAN/ULC-S701.1		Type 2
Thermal Resistance[1]	ASTM C518	F.ft^2.hr/Btu	4.2
	@ 75°F (24°C)	(m^{2}K/W)	(0.74)
Compressive Strength	ASTM D1621	psi	20
	@ 10% Strain	(kPa)	(138)
Water Absorption (Max.)	ASTM D2842	%	3.0
Water Vapor Permeance (Max.)[1]	ASTM E96	US perm	1.0
		(ng/Pa.s.m^2)	(57)
Flexural Strength (Min.)	ASTM C203	psi	35
		(kPa)	(242)
Dimensional Stability (Max.)	ASTM D2126	%	1.5
Limiting Oxygen Index (Min.)	ASTM D2863	%	24
Density	ASTM D1622	lb/ft^3	1.50
		(kg/m^3)	(24)
Surface Burning Characteristics	ASTM E84/UL-723[2]		
	Flame Spread Index (FSI)		≤25
	Smoke Developed Index (SDI)		≤450
	CAN/ULC-S102.2[2]		
	Flame Spread Index (FSI)		≤210
	Smoke Developed Index (SDI)		≥500

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

Availability
Amdry Eco panels come as 2x4' (610x1219mm) and are available in 1" (25mm) thickness with ½" (13mm) high channels. Thicker panels are available for special order only.

Applications
- Above concrete slab
- Basement slab
- Bathroom slab
- Floor Retrofit