

# Perforated SilverBoard

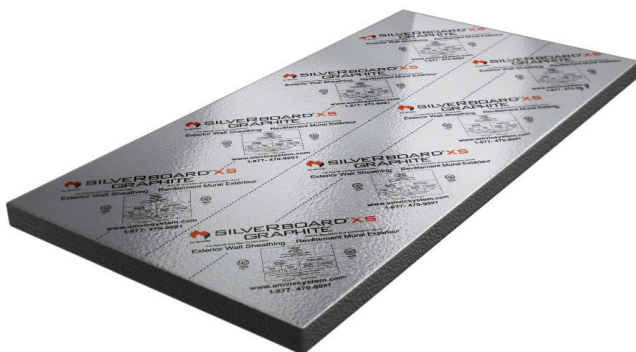


## GRAPHITE INSULATION

SilverBoard Graphite XS is a high performance, non-structural, rigid insulation board made from Expanded Polystyrene (EPS) with a layer of reflective metalized polypropylene film lamination on both sides.

The expanded polystyrene (EPS) core is embedded with graphite particles changing the color from white to dark gray while greatly increasing the thermal resistance.

SilverBoard 35XS is high density variant with conventional EPS core offering high compressive strength and high vapor permeance.



## Amvic Advantage

- Exceptional Long-Term Thermal Resistance (LTTR).
- Increased thermal resistance in lower temperatures.
- Micro perforated film on both sides provides high vapor permeance and allows moisture to dry.
- Does not promote growth of mold and mildew.
- 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 and laminated film help improve job site efficiency and reduce labor costs.

**Physical Properties Table**

	Standard	SBGX5	SB35XS
Evaluation Report	CCMC	14044-R	13524-L
Specification for Rigid Polystyrene Insulation	CAN/ULC-S701		Type 3
	ASTM C578	Type XI	Type IX
Thermal Resistance	ASTM C518 @ 75°F (24°C)	4.5 F.ft <sup>2</sup> .hr/Btu (0.79 m <sup>2</sup> K/W)	5.0 F.ft <sup>2</sup> .hr/Btu (0.88 m <sup>2</sup> K/W)
	ASTM STP1320 @ 0°F (-18°C)	5.4 F.ft <sup>2</sup> .hr/Btu (0.95 m <sup>2</sup> K/W)	6.0 F.ft <sup>2</sup> .hr/Btu (1.05 m <sup>2</sup> K/W)
Compressive Strength	ASTM D1621 @ 10% Strain		35 psi (241 kPa)
Water Absorption	ASTM D2842		0.43%
	ASTM C272	0.18%	
Water Vapor Permeance	ASTM E96	2.74 US perms (157 ng/Pa.s.m <sup>2</sup> )	3.79 US perms (217 ng/Pa.s.m <sup>2</sup> )
Material Air Permeance	ASTM E2178 @ 1.57psf (75pa)		0.0021 cfm/ft <sup>2</sup> (0.01 L/m <sup>2</sup> s)
Flexural Strength	ASTM C203	26 psi (179 kPa)	106 psi (730 kPa)
Dimensional Stability	ASTM D2126	-0.180%	-0.100%
Limiting Oxygen Index	ASTM D2863	<24%	>24%
Density	ASTM D1622		2.0 lb/ft <sup>3</sup> (32 kg/m <sup>3</sup> )
Surface Burning Characteristics	ASTM E84 <sup>1</sup>		
	Flame Spread		0#
	Smoke Developed		30#
	CAN/ULC-S102 <sup>2</sup>		
Flame Spread	155	220 - 135	
Smoke Developed	340	265 - (>500)	

<sup>1</sup> For thicknesses ranging from 1/2" to 4" and higher

<sup>2</sup> For thicknesses ranging from 25mm to 100mm

The maximum continuous operating temperature for SilverBoard 35XS and SilverBoard Graphite XS is 158°F (70°C). The ultra violet (UV) stable polypropylene film allows exposure for up to 180 days (6 months) once the boards are installed. The film is compatible with virtually any approved sheathing tape as long as the surface is clean and dry before the installation.

**Availability**

Both SilverBoard 35XS and SilverBoard Graphite XS are available in a wide range of thicknesses ranging from 1/2" (13mm) to 6" (152mm). Standard board dimensions include 4x8', 4x9' and 4x10' (1.2x2.4m, 1.2x2.7m and 1.2x3.0m).

**Applications**

- Exterior above grade walls
- Building recladding
- Interior of foundation walls

**Warranty**

Amvic supports building owners, designers and contractors by offering a 20-year, limited thermal warranty on SilverBoard product line. This warranty is available to the building owner at the time the building is completed and is transferable to any subsequent owner during the 20-year period.

