

# Non-Perforated SilveRboard

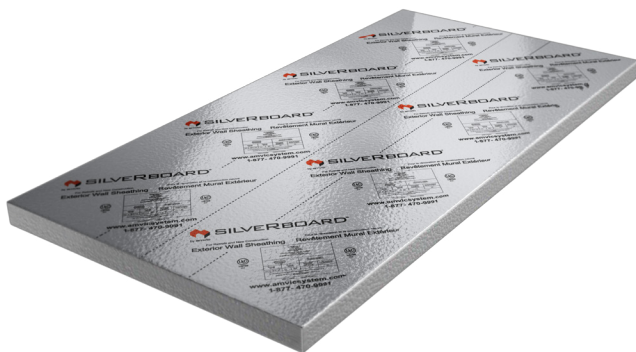


## REFLECTIVE INSULATION

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

Designed to be installed as continuous insulation, reduce thermal bridging and directly improve building envelope performance.

The double-sided lamination dramatically increases board strength and flexibility, reducing site damage and waste.



## Amvic Advantage

- Exceptional Long-Term Thermal Resistance (LTTR).
- Increased thermal resistance in lower temperatures.
- Functions as a vapor barrier when joints are taped with an approved vapor barrier tape.
- 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.

**Availability**

SilveRboard is 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**

- Under concrete slab
- Foundation walls
- Component of radiant floor heating system
- Frost walls
- Component of wood framed cathedral ceiling
- Component of snow melt and de-icing systems

The maximum continuous operating temperature for SilveRboard 35XS 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.

**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.

**CCMC 13524-L**

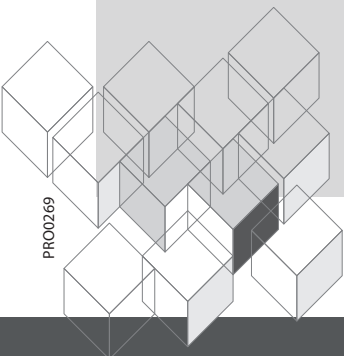
**Physical Properties Table**

	Standard	SB12	SB21 (HD)	SB35 (HD)	SB44 (HD)
Specification for Rigid Polystyrene Insulation	CAN/ULC-S701	Type 1	Type 2	Type 3	
	ASTM C578	Type I	Type II	Type IX	Type XIV
Thermal Resistance	ASTM C518 @ 75°F (24°C)	4.1 F.ft <sup>2</sup> .hr/Btu (0.72 m <sup>2</sup> K/W)	4.3 F.ft <sup>2</sup> .hr/Btu (0.76 m <sup>2</sup> K/W)	5.0 F.ft <sup>2</sup> .hr/Btu (0.88 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)	5.2 F.ft <sup>2</sup> .hr/Btu (0.92 m <sup>2</sup> K/W)	5.5 F.ft <sup>2</sup> .hr/Btu (0.97 m <sup>2</sup> K/W)	6.0 F.ft <sup>2</sup> .hr/Btu (1.06 m <sup>2</sup> K/W)	6.0 F.ft <sup>2</sup> .hr/Btu (1.06 m <sup>2</sup> K/W)
Compressive Strength	ASTM D1621 @ 10% Strain	12 psi (83 kPa)	21 psi (145 kPa)	35 psi (241 kPa)	44 psi (303 kPa)
Water Absorption	ASTM D2842	0.85%	0.68%	0.43%	0.07%
Water Vapor Permeance	ASTM E96	0.21 US perm (12 ng/Pa.s.m <sup>2</sup> )	0.15 US perm (8.6 ng/Pa.s.m <sup>2</sup> )	0.08 US perm (4.3 ng/Pa.s.m <sup>2</sup> )	0.03 US perm (1.6 ng/Pa.s.m <sup>2</sup> )
Flexural Strength	ASTM C203	40 psi (275 kPa)	60 psi (414 kPa)	84 psi (579 kPa)	106 psi (730 kPa)
Dimensional Stability	ASTM D2126	-0.147%	-0.108%	-0.100%	-0.100%
Limiting Oxygen Index	ASTM D2863	>24%	>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> )	2.5 lb/ft <sup>3</sup> (40 kg/m <sup>3</sup> )
Surface Burning Characteristics	ASTM E84 <sup>1</sup>				
	Flame Spread	15#	15#	0#	
	Smoke Developed	150 - 300#	150 - 300#	30#	
	CAN/ULC-S102 <sup>2</sup>				
Flame Spread	225	240 - 175	220 - 135	210 <sup>3</sup>	
Smoke Developed	475	290 - (>500)	265 - (>500)	>500 <sup>3</sup>	

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

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

<sup>3</sup> For thicknesses ranging from 25mm to 75mm



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