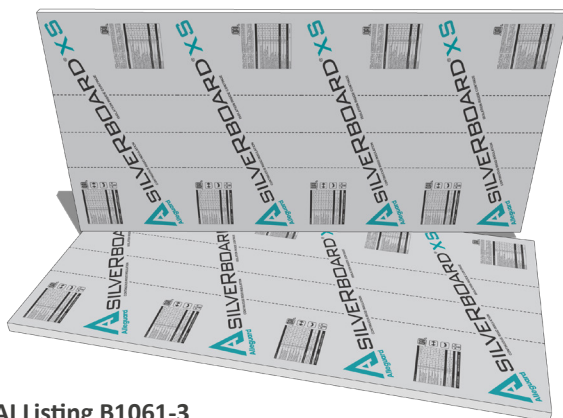**Alleguard**

Perforated SilveRboard Insulation

REFLECTIVE INSULATION

SilveRboard XS (SB XS) is a non-structural, rigid insulation board made from closed cell Expanded Polystyrene (EPS) with a layer of reflective metalized polypropylene film lamination on both sides. The double-sided lamination dramatically increases board strength and flexibility.

Designed to be installed as continuous insulation, reduce thermal bridging and improve building envelope performance. SilveRboard XS can be used in both new and retrofit applications for commercial, residential, industrial and institutional applications.

QAI Listing B1061-3

Alleguard Advantage

• Stable long term thermal resistance.

• Increased thermal resistance in lower temperatures.

• Micro perforated film on both sides provides high vapor permeance and allows moisture to dry.

• Double sided film lamination creates flexible boards which are ideal for radius walls and turrets.

• 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.

Physical Properties Table

	Standard	Units	SB12XS	SB35XS[1] (HD)
Specification for Rigid Polystyrene Insulation	ASTM C578 CAN/ULC-S701.1		Type I Type 1	Type IX Type 3
Thermal Resistance[2]	ASTM C518 @ 75°F (24°C)	F.ft^2.hr/Btu (m^{2}K/W)	4.1 (0.72)	5.0 (0.88)
Compressive Strength	ASTM D1621 @ 10% Strain	psi (kPa)	12 (83)	35 (241)
Water Absorption (Max.)	ASTM D2842	%	4.0	2.0
Water Vapor Permeance (Max.)[2]	ASTM E96	US perm (ng/Pa.s.m^2)	5.00 (286)	3.79 (217)
Flexural Strength	ASTM C203	psi (kPa)	40 (277)	84 (579)
Dimensional Stability (Max.)	ASTM D2126	%	1.5	1.5
Limiting Oxygen Index (Min.)	ASTM D2863	%	24	24
Density	ASTM D1622	lb/ft^3 (kg/m^3)	1.00 (16)	2.00 (32)
Surface Burning Characteristics	ASTM E84/UL-723[3]			
	Flame Spread Index (FSI)		≤25	≤25
	Smoke Developed Index (SDI)		≤450	≤450
	CAN/ULC-S102.2[3]			
	Flame Spread Index (FSI)		≤250	≤250
	Smoke Developed Index (SDI)		≥500	≥500

[1] Material Air Permeance 0.002 cfm/ft^2 (0.01 L/m^{2}s) tested as per ASTM E2178 (at 0.3 w.g. (75 Pa)
[2] Measurement per 1" (25mm) of thickness
[3] For thicknesses up to 4" or 100mm

The maximum continuous operating temperature for Perforated SilveRboard XS is 158°F (70°C). The ultra violet (UV) stable polypropylene film allows exposure for up to 90 days (3 months) once the boards are installed (board edges should be covered with tape). The film is compatible with virtually any approved sheathing tape as long as the surface is clean and dry before the installation.

Availability

Perforated SilveRboard XS is available in a wide range of thicknesses ranging from 1/2" (13mm) to 6" (152mm). Standard board dimensions include 4x8' and 4x9' (1.2x2.4m and 1.2x2.7m).

Applications

- Exterior above grade walls
- Component of building recladding
- Interior below grade foundation walls
- Exterior below grade foundation walls (HD products only)
- Below concrete slab (HD products only)

Warranty

Alleguard 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.