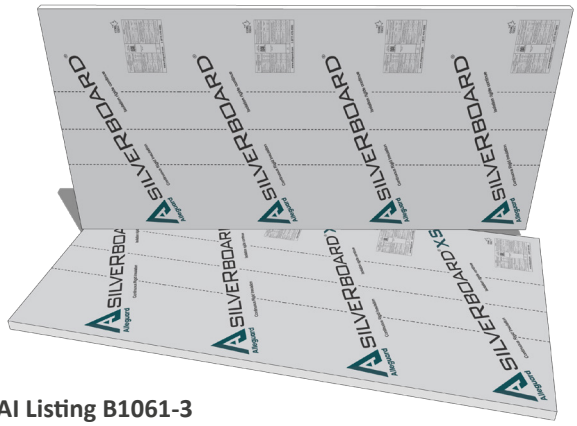
Alleguard

SilveRboard Rigid Board Insulation

SilveRboard (SB) is a non-structural, rigid insulation board made from closed cell Expanded Polystyrene (EPS) with a layer of reflective metalized polypropylene film laminated on each side. 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 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.
- Functions as a vapor barrier when sealed and taped with an approved vapor barrier tape.
- High vapor permeance allows for improved drying potential for wall assemblies (only applicable to products labeled with "XS").
- 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.

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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) with square edges.

Applications

- Below concrete slab (HD products only)
- Exterior of foundation walls (HD products only)
- Interior below grade foundation walls
- Component of radiant floor heating system
- Frost walls (HD products only)
- Component of wood framed cathedral ceiling
- Component of snow melt and de-icing systems
- Exterior above grade walls

The maximum continuous operating temperature for SilveRboard 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 installation.

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.

Physical Properties Table

	Standard	Units	SB12	SB20 (HD)	SB25 (HD)	SB35 (HD)	SB35XS[1] (HD)	SB40 (HD)
Specification for Rigid Polystyrene Insulation	CAN/ULC-S701.1		Type 1	Type 2	Type 3	Type 3	Type 3	Type 3
	ASTM C578		Type I	Type II	Type IX	Type IX	Type IX	Type XIV
Thermal Resistance[2]	ASTM C518 @ 75°F (24°C)	F.ft^2.hr/Btu (m^2K/W)	4.1 (0.72)	4.3 (0.76)	4.35 (0.77)	5.0 (0.88)	5.0 (0.88)	5.0 (0.88)
Compressive Strength	ASTM D1621 @ 10% Strain	psi (kPa)	12 (83)	20 (138)	25 (172)	35 (241)	35 (241)	40 (276)
Water Absorption (Max.)	ASTM D2842	%	4.0	3.0	2.0	2.0	2.0	2.0
Water Vapor Permeance[2]	ASTM E96	US perm (ng/Pa.s.m^2)	0.15 (8.6)	0.21 (12)	0.21 (12)	0.07 (4.3)	3.79 (217)	0.03 (1.6)
Flexural Strength	ASTM C203	psi (kPa)	40 (277)	60 (414)	76 (524)	82 (566)	84 (579)	106 (730)
Dimensional Stability (Max.)	ASTM D2126	%	1.5	1.5	1.5	1.5	1.5	1.5
Limiting Oxygen Index (Min.)	ASTM D2863	%	24	24	24	24	24	24
Density	ASTM D1622	lb/ft^3 (kg/m^3)	1.00 (16)	1.35 (22)	1.86 (30)	2.00 (32)	2.00 (32)	2.50 (40)
Surface Burning Characteristics	UL 723[3]							
	Flame Spread Index (FSI)		≤25	≤25	≤25	≤25	≤25	
	Smoke Developed Index (SDI)		≤450	≤450	≤450	≤450	≤450	
	CAN/ULC-S102.2[4]							
	Flame Spread Index (FSI)		≤250	≤250	≤250	≤250	≤250	
	Smoke Developed Index (SDI)		≥500	≥500	≥500	≥500	≥500	

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