Amvic+ Building Outside the Box

SILVERBOARD®
by amvic
Made with BASF

NEW High performance, rigid EPS insolution

SilveRboard is a rigid, flat-sheet insulation material made from BASF® Expanded Polystyrene (EPS), which is covered with a layer of reflective lamination on both sides. This highly effective combination of materials performs better than traditional flat-sheet insulation by providing built-in moisture and air barriers which eliminate the need for house wrap. SilveRboard offers users a high quality insulation material which also increases jobsite efficiency and reduces labor costs.

Stops: heat/cold, wind, noise, dust, pollen

Applications

SilveRboard is recommended for the following applications:

- Interior & Exterior Above Grade Walls
- Interior & Exterior Below Grade Walls
- Re-siding Projects
- Cathedral Ceilings
- Radiant Floor Heating
- Slab on Grades
- Exterior Roof Decks
- Cavity Walls

SilveRboard provides maximum value

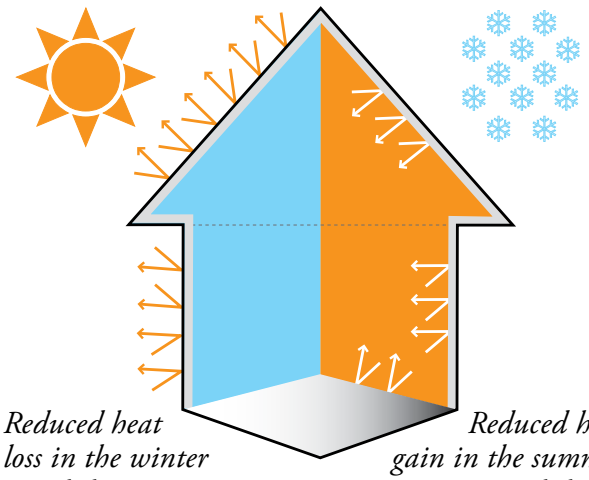
- High R-value per dollar
- Minimizes radiant loss/gain
- Built-in water and air barrier reduces installation time and costs
- Recyclable material and minimal waste
- Lightweight, easy to handle and quick to install
- No CFCs, HCFCs or off gassing

Product Availability

SilveRboard is available in Type 1 (1.0lb density), Type 2 (1.5lb density) and Type 4 (2.0lb density).

Benefits & Advantages

SilveRboard provides a continuous insulation layer which eliminates thermal bridging, reduces air infiltration and isolates the structure from outdoor temperatures. In addition, the reflective lamination helps to greatly reduce radiant heat transfer which dramatically improves a structure's insulation efficiency.


Reduced heat loss in the winter equals lower heating costs

Reduced heat gain in the summer equals lower air conditioning costs

Results in greater comfort and financial savings

Radiant energy is absorbed, reflected or transmitted by surfaces. The lamination used for SilveRboard *reflects* radiant energy at the surface preventing heat gain and loss in a structure due to radiant energy.

Amvic+ the power of added value

Physical Properties of SilveRboard®					
Standard	Description	Product Designation			
		SB-12	SB-21	SB-35	SB-44
ASTM D1622	Density lb/ft³ Density Kg/m³	1.0 lb/ft³ 16.0 Kg/m³	1.5 lb/ft³ 24.0 Kg/m³	2.0 lb/ft³ 32.0 Kg/m³	2.5 lb/ft³ 40.0 Kg/m³
ASTM C518	R-Value/1-inch @ 75°F RSI/25mm @ 24°C	4.1 ft^2·h·°F/BTU 0.72 (m^2·°K/W)	4.3 ft^2·h·°F/BTU 0.76 (m^2·°K/W)	5.0 ft^2·h·°F/BTU 0.88 (m^2·°K/W)	5.0 ft^2·h·°F/BTU 0.88 (m^2·°K/W)
ASTM STP1320	R-Value/1-inch @ 0°F RSI/25mm @ -18°C	5.2 ft^2·h·°F/BTU 0.91 (m^2·°K/W)	5.5 ft^2·h·°F/BTU 0.96 (m^2·°K/W)	6.0 ft^2·h·°F/BTU 1.05 (m^2·°K/W)	6.0 ft^2·h·°F/BTU 1.05 (m^2·°K/W)
ASTM D1621	Compressive strength at 10% strain	12.8 psi (88.2 kPa)	21.5 psi (147.9 kPa)	35.6 psi (245.5 kPa)	44.4 psi (306.1 kPa)
ASTM C203	Flexural strength	40.0 psi (277.0 kPa)	60.0 psi (414.0 kPa)	84.0 psi (579.0 kPa)	106.0 psi (730.0 kPa)
ASTM C272	Water absorption (% by volume)	0.85%	0.68%	0.12%	0.09%
ASTM E96	Water vapor permeance	12 ng/Pa.s.m^2 (0.21 perm)	8.6 ng/Pa.s.m^2 (0.15 perm)	4.27 ng/Pa.s.m^2 (0.075 perm)	1.6 ng/Pa.s.m^2 (0.028 perm)
ASTM D2126	Dimensional Stability Linear change	-0.147%	-0.108%	-0.1%	-0.1%
ASTM D2863	Limiting Oxygen Index	<24%	<24%	<24%	<24%

Surface Burning Characteristics of SilveRboard® in accordance with CAN/ULC-S102.2			
Material Details		Classification or Rating	
Thickness (mm)	Density (Kg/m^3)	Flame Spread Index	Smoke Developed
25-100	16	225	475
25	24	240	290
50	24	200	380
75	24	205	495
100	24	175	over 500
25	32	220	265
50	32	180	450
75	32	165	over 500
100	32	135	500
25-75	40	210	over 500

Surface Burning Characteristics of SilveRboard® in accordance with ASTM E84 (UL 723)		
Density	1.0 to 1.5 pcf	2.0 pcf
Thickness	0.5-inch to 4-inch+	0.5-inch to 4-inch+
Flame Spread Index	15 #	0 #
Smoke Developed	150-300 #	30 #

#Flame spread and smoke developed recorded while material remained in the original test position.