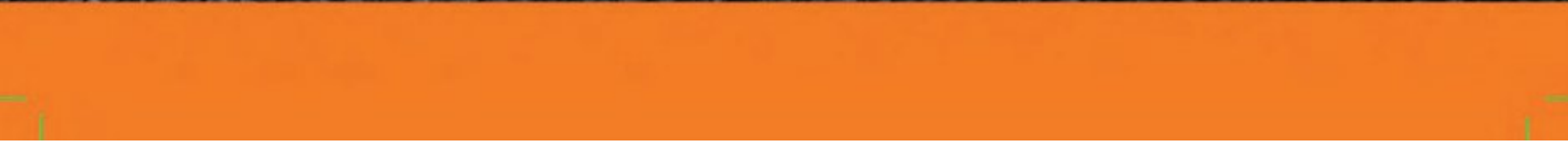


SilveRboard® Graphite XS



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SilveRboard® **Graphite XS** is an expanded polystyrene (EPS) base material, embedded with carbon graphite particles which increases the thermal performance of the EPS insulation. The graphite EPS beads reflect radiant heat energy similar to the effect of a mirror and reduce thermal conductivity which increases the materials ability to resist the flow of heat or R value. SilveRboard® Graphite XS is a higher performing insulation for exterior wall assemblies.

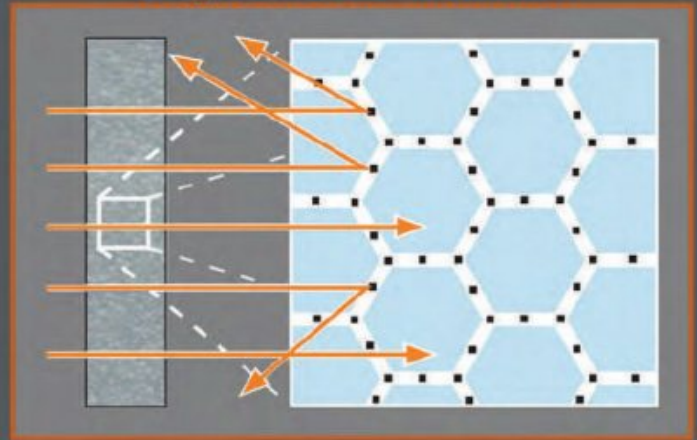
the best insulation

**SILVERBOARD®
GRAPHITE**
For Substrate and New Construction
Exterior Wall Insulation
www.amvicsystem.com
1-877-470-9991

- Higher performing insulation compared to standard EPS/XPS
- Long term stable R value
- Improves indoor air quality

SilveRboard® **Graphite XS** is a combination of graphite embedded EPS beads surrounded by air pockets, laminated on both sides with perforated reflective film. Ninety-eight percent of the EPS in SilveRboard® Graphite XS is air, we call this insulation "Engineered Air". This highly effective combination provides one of the most energy efficient, environmentally friendly, sustainable and cost effective insulation products available today.

Engineered Air Insulation



Fine particles of graphite in the cell walls reflect radiant heat - over and above the insulation provided by 98% air insulation in the cells.



insulation, which puts the environment first

- Durable, resists construction site and weather damage
- Permanent tape sealing of joints and seams
- Light weight, easy to handle
- Highly flexible for radius walls
- Reduced sheet thickness provides more flexible options for builders

SilveRboard® Graphite XS performs better than traditional flat-sheet insulation and the colder the climate the higher the thermal resistance or R value. It also holds its R value for the life of the product unlike competitive sheet insulation that can lose R value over time. SilveRboard® Graphite XS is an ideal insulation for exterior walls in the Canadian environment.



Reduced heat gain in the summer equals lower air conditioning costs

Reduced heat loss in the winter equals lower heating costs

Physical Properties of SilveRboard® Graphite XS

<u>Standard</u>	<u>Physical Property</u>	<u>Test Result</u>
ASTM C518	R Value /1-inch @ 75°F RSI /25mm @ 24°C	R 4.5 0.78 m ² .°C/W
ASTM C518	R Value/1-inch @ 0°F RSI/25mm @ -18°C	R 5.4 1.00 m ² .°C/W
ASTM E96	Water Vapour Permeance	0.77perm 44ng/Pa.s.m ²
ASTM E96 Perforated	Water Vapour Permeance	157ng/Pa.s.m ²
ASTM D2126	Dimensional Stability (% Linear Change)	Length: -0.18 Width: -0.15
ASTM C203	Flexural Strength (PSI) Flexural Strength (kPa)	26 PSI 180 kPa
ASTM C272	Water Absorption (% by volume)	0.18
ASTM D2863	Limiting Oxygen Index (%)	<24
CAN/ULC S102.2	Flame Spread 155 CCMC 14044-R	Smoke Developed 340

Note: SilveRboard® Graphite XS is designed for above grade use as exterior wall insulation, where the material is not intended to resist compressive stress, and not intended for below grade applications. SilveRboard® Graphite XS is also not intended for use as structural sheathing material unless combined with structural OSB.