

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 Insulated Exterior Wall Sheathing compared to Extruded Polystyrene (XPS).

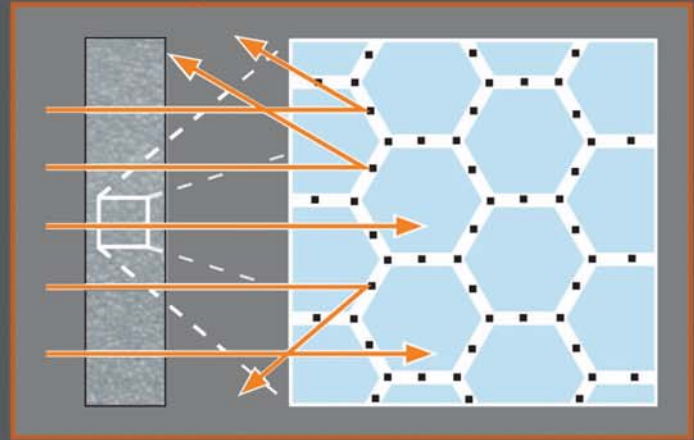
the best insulation

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

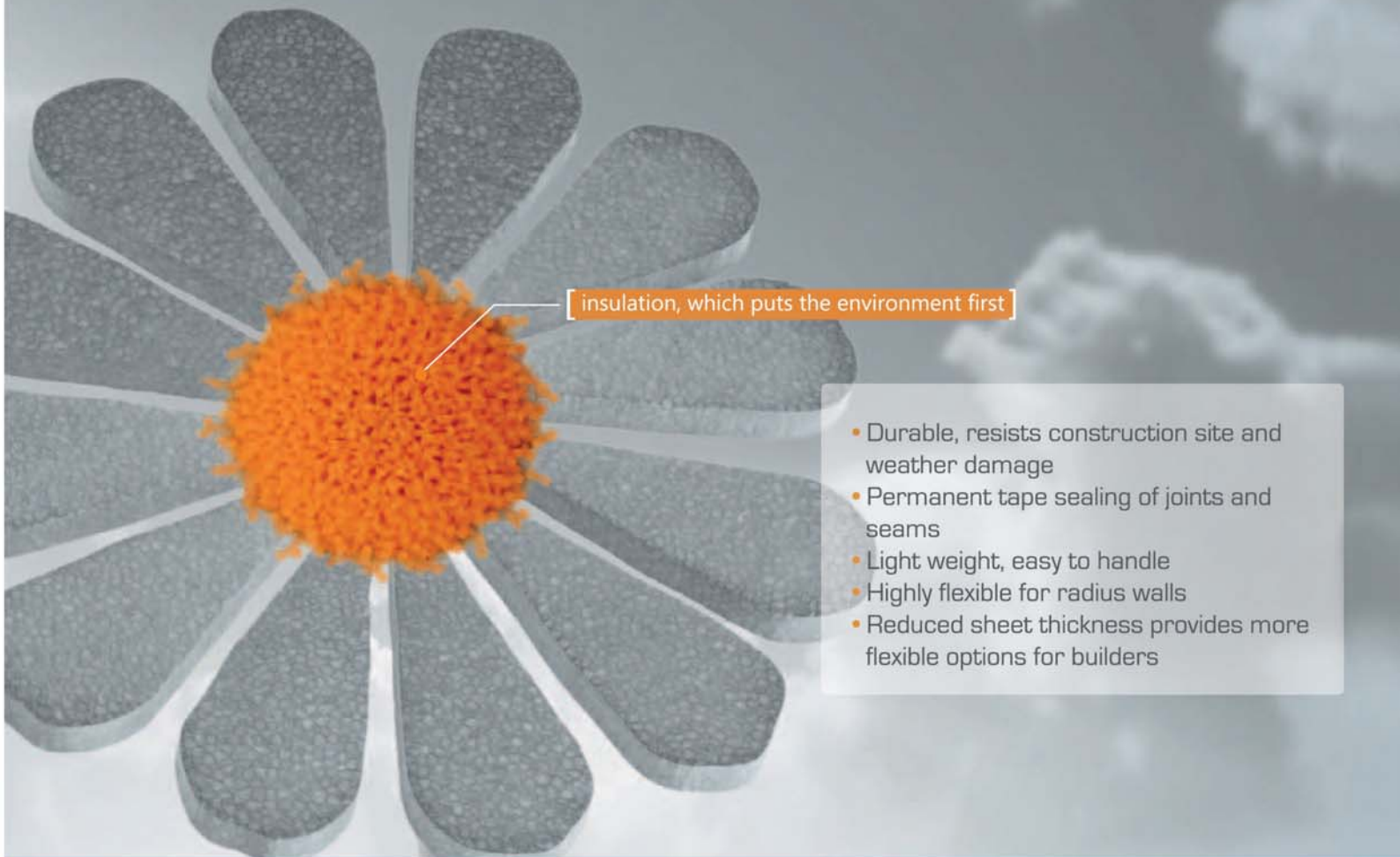
**SILVERBOARD®
GRAPHITE**
by amvic
For Retail and New Construction
Exterior Wall Sheathing
Program to improve energy air to construction market
Revêtement Murale Extérieure
www.amvicsystem.com
1-877-470-9991

SilveRboard® **Graphite XS** is a combination of graphite embedded EPS beads surrounded by air pockets, laminated on both sides with perforated reflective polystyrene 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



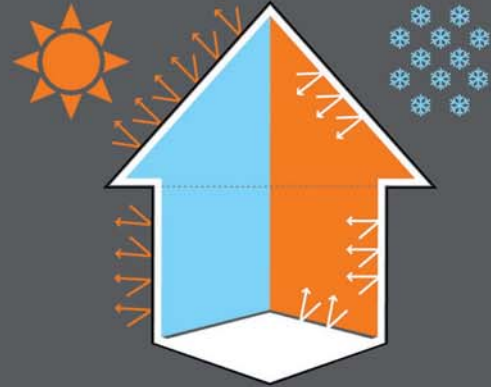
Fine particles of graphite in the cell walls reflect radiant heat - over and above the insulation provided by 98% air insulation in the cells.



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 exterior sheathing for 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 STP1320	R Value / 1-inch @ 0°F RSI / 25mm @ -18°C	R 5.7 1.00 m ² .°C/W
ASTM E96	Water Vapour Permeance	0.77 perm 44ng/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	Flame Spread 155	Smoke Developed 340
	CMCC 14044-R	