Rigid Board Installation Builder's Guide



## PART 2 - BELOW GRADE FOUNDATION WALLS



For New and Existing Low-Rise Residential and Commercial Construction

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## Products

SilveRboard<sup>®</sup> product line is a rigid, flat-sheet insulation material made from Expanded Polystyrene (EPS), covered with a layer of polypropylene reflective lamination on both sides. When installed with an air gap between SilveRboard<sup>®</sup> and the exterior cladding, the film is able to reflect radiant energy away from the surface keeping heat out during the summer and keeping heat in during the winter.

### SilveRboard®

SilveRboard<sup>®</sup> is the original and most versatile line due to the various numbers of available configurations, ranging in compressive and flexural strengths, densities and thicknesses. Although SilveRboard can fulfill many roles, it is best suited for ceiling applications.

#### SilveRboard<sup>®</sup> XS

SilveRboard<sup>®</sup> XS has been specifically engineered with the laminated surfaces perforated in order to allow the passage of water vapor. The product is identical in performance to the original SilveRboard<sup>®</sup> with the difference being the water vapor permeance which increased to 3.48 US Perms (217 ng/Pa\*s\*m<sup>2</sup>).

## SilveRboard<sup>®</sup> UC (Under Concrete)

SilveRboard<sup>®</sup> UC has compressive strength of 35 psi making it the ideal solution for below grade applications. The reflective lamination on both sides provides added strength, reducing job site breakage and cracking during construction. It can also serve a vapor barrier when taped sealed.

#### SilveRboard<sup>®</sup>Acoustic

SilveRboard<sup>®</sup> Acoustic is a low density variant designed to provide improved acoustic performance to various assemblies with a rating of STC 19 & IIC 70. It can be used for walls, floors, ceilings in bathrooms, laundry rooms, bedrooms, home theaters and quiet rooms.

## SilveRboard<sup>®</sup> Graphite XS

SilveRboard® Graphite XS is a high performing rigid foam insulation. It uses expanded polystyrene (EPS) base material with embedded carbon "graphite" particles which increase the thermal performance of the insulation. The graphite EPS beads reflect radiant heat energy similar to the effect of a mirror and increase the material's ability to resist the flow of heat. When taped and used as continuous exterior insulation, a separate weather barrier is not required.

# Applications

SilveRboard<sup>®</sup> products are suitable for a variety of applications including residential, agricultural, commercial and industrial sectors.

| Applications                | SilveRboard® | SilveRboard®<br>XS | SilveRboard <sup>®</sup><br>UC | SilveRboard®<br>Acoustic | SilveRboard <sup>®</sup><br>Graphite XS |
|-----------------------------|--------------|--------------------|--------------------------------|--------------------------|---|
| Exterior above grade wall   | $\bowtie$    | ✓                  | $\bowtie$                      |                          | ✓                                       |
| Interior acoustic partition |              |                    |                                | ✓                        |   |
| Attic ceiling               | ✓            |                    |                                |                          |   |
| Cathedral ceiling           | <b>~</b>     |                    |                                |                          |   |
| Exterior<br>foundation wall | $\bowtie$    |                    | ✓                              |                          |   |
| Interior<br>foundation wall | $\bowtie$    | ✓                  | $\bowtie$                      |                          | ~                                       |
| Above concrete slab         |              |                    | ✓                              |                          |   |
| Below concrete slab         |              |                    | <b>~</b>                       |                          |   |
| Frost wall                  |              |                    | ✓                              |                          |   |
| Radiant floor<br>heating    |              |                    | <b>~</b>                       |                          |   |
| Ideal 🗸                     |              |                    |                                |                          |   |
| Acceptable 🛛 🔗              |              |                    |                                |                          |   |

## **Product Availability**

To meet the unique construction needs of all the parties involved in a construction project we offer a broad and versatile range of products, both conventional and innovative, for every kind of building insulation application. Special orders are available depending on the project scope and needs.

## Packaging

- For all board sizes, bundle size is 30" (762mm) in height with corresponding board dimensions for length and width.
- Number of boards per bundle varies with thickness, ranging from 8-60 boards.
- Weight of bundle varies with density of board, ranging from 80-200 lb.
- All SilveRboard<sup>®</sup> bundles come wrapped in UV protected plastic film.
- Each bundle includes a label with a product code, size of boards, R-value of given board, number of boards and manufacturing date.

The product code is printed on the bundle label. An example; SKU code - **SB**<u>12</u>S**2**00<u>4</u>S can be read as follows (see Product Range for all available products):

- (SB) indicates SilveRboard®
- (12) indicates 12 psi (82.7 kPa) for compressive strength
- (2) indicates thickness of 2" (51mm)
- (4) indicates 4'x8' (1219x2438 mm) board size

## Material Storage

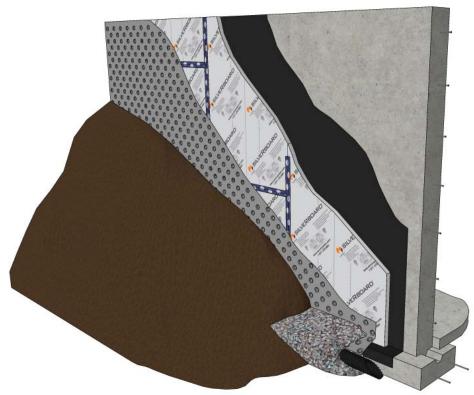
SilveRboard<sup>®</sup> products should be secured during storage and placement. The boards should be covered with a light-colored opaque tarp if stored outdoors for longer than two weeks to reduce excessive moisture intake. EPS should not be exposed to hydrocarbons, e.g. petroleum based solvents such as gasoline, diesel fuel, concrete curing compounds, coal tar pitch and asphalt/mastic compounds.

## Warranty

Amvic supports building owners, designers and contractors by offering a 20-year, limited thermal warranty on SilveRboard<sup>®</sup> 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.

## Exterior

For this type of application, SilveRboard®UC is recommended.



Typical foundation wall assembly with SilveRboard installed on the exterior

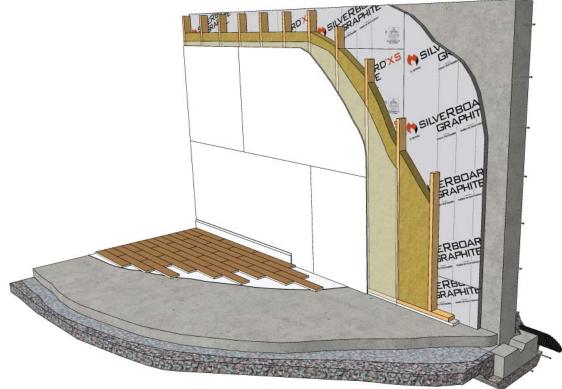
- Prepare the exterior surface of the foundation wall for application of waterproofing by removing any debris, dirt or protrusions making for clean, dry and flat surface.
- Once the waterproofing is applied (selfadhered and liquid applied membranes are recommended), allow sufficient time to set (if required).
- Install SilveRboard<sup>®</sup> UC (vertical orientation is recommended) over the waterproofing using compatible construction adhesive.
- Orient boards vertically, starting with a full panel at the top of the footing.
- Butt joints between the boards should

have a maximum gap of 1/32" (1mm).

- Seal and tape all joints using code approved sheathing tape.
- If exterior above grade insulation is not used, seal the top of SilveRboard insulation to prevent moisture ingress behind the insulation boards.

## Interior

For this type of application, SilveRboard® Graphite XS is recommended.

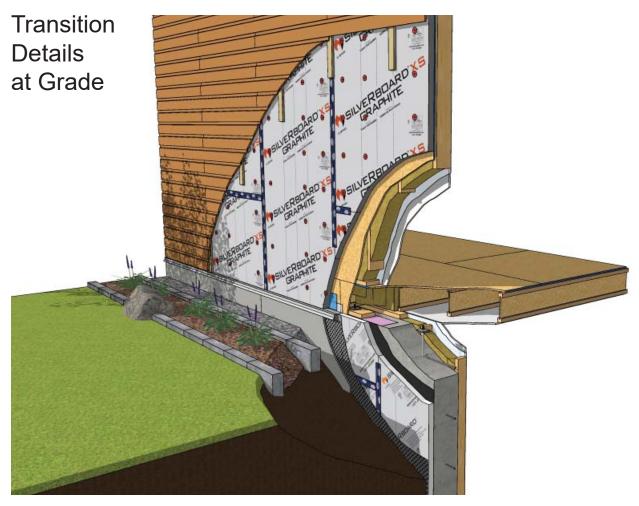


Typical foundation wall assembly with SilveRboard installed on the interior

- Prepare the interior side of the foundation wall by removing any debris, dirt or protrusions making for a clean, dry and flat surface.
- SilveRboard<sup>®</sup> Graphite XS can be installed on concrete or masonry foundation walls.
- Start by placing the first row on the slab (vertical orientation is recommended), continuing to underside of ceiling. Use compatible construction adhesive secure boards in place.
- Butt joints between the boards should have a maximum gap of 1/32" (1mm).
- Installed wood framing to the desired depth/thickness. Decouple bottom

plate from concrete.

- Fill the cavities with stone wool batt insulation.
- Install 6 mil polyethylene, tape and seal all joints. Install gypsum board.

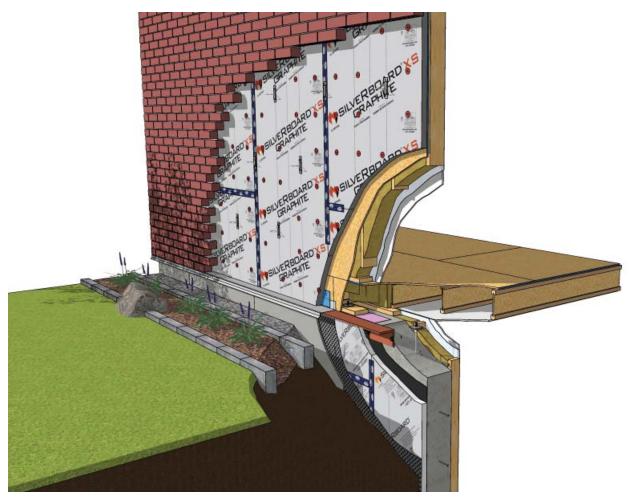


Transition detail at grade with brick veneer

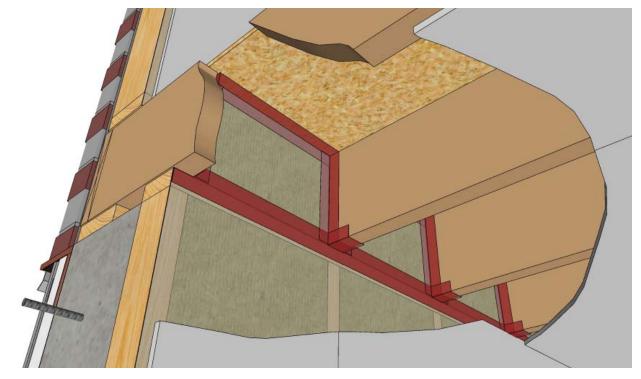
- At transition area between concrete foundation wall and above grade framed construction it is important to ensure continuity of the thermal, air and vapor control layers.
- Install metal flashing directly to the sheathing above the steel angle.
- Install self adhering flashing membrane overlapping the metal flashing.
- Once the waterproofing, SilveRboard UC and drainage board are in place, install cement board below the steel angle to provide a finished surface between the soil and masonry.
- Place backfill to the required height.

### Maintaining Air Barrier Continuity

- Use sealant to seal rim joist to the sill plate, floor joists and underside of subfloor.
- Place batt insulation in the cavity between joists.
- •
- Install 6 mil. polyethylene over the insulation. Overlap with membrane below. Seal and tape all edges using approved vapor barrier tape.



Transition detail at grade with siding



Rim joist at foundation detail

# SilveRboard®

| Standard         | Description   | SB-12            | SB-21           | SB-35           | SB-44           | SB-35<br>XS       |
|------------------|---|------------------|-----------------|-----------------|-----------------|-------------------|
| ASTM<br>D1622    | Density<br>Ib/ft³ (Kg/m³)   | 1.0<br>(16)      | 1.5<br>(24)     | 2.0<br>(32)     | 2.5<br>(40)     | 2.0<br>(32)       |
| ASTM<br>C518     | R-value/1-inch @<br>75°F<br>(ft <sup>2.°</sup> F·h/Btu)<br>RSI/25mm @ 24°C<br>(m <sup>2</sup> K/W)  | 4.1<br>(0.72)    | 4.3<br>(0.76)   | 5.0<br>(0.88)   | 5.0<br>(0.88)   | 5.0<br>(0.88)     |
| ASTM<br>STP1320  | R-value/1-inch @ 0°F<br>(ft <sup>2.°</sup> F·h/Btu)<br>RSI/25mm @ -18°C<br>(m <sup>2</sup> K/W)     | 5.2<br>(0.91)    | 5.5<br>(0.96)   | 6.0<br>(1.05)   | 6.0<br>(1.05)   | 6.0<br>(1.05)     |
| ASTM<br>D1621    | Compressive strength<br>at 10% strain<br>psi (kPa)  | 12.8<br>(88.2)   | 21.5<br>(147.9) | 35.6<br>(245.5) | 44.4<br>(306.1) | 35.6<br>(245.5)   |
| ASTM<br>C203     | Flexural strength<br>psi (kPa)  | 40<br>(277)      | 60<br>(414)     | 84<br>(579)     | 106<br>(730)    | 84<br>(579)       |
| ASTM<br>D2842    | Water absorption<br>% by volume   | 0.850            | 0.680           | 0.430           | 0.075           | 0.043             |
| ASTM<br>E96      | Water vapor<br>permeance<br>US perm (ng/<br>Pa*s*m²)  | 0.210<br>(12.00) | 0.150<br>(8.60) | 0.075<br>(4.27) | 0.028<br>(1.60) | 3.480<br>(217.00) |
| ASTM<br>D2126    | Dimensional stability<br>linear change (%)  | -0.147           | -0.108          | -0.100          | -0.100          | -0.100            |
| ASTM<br>D2863    | Limiting oxygen index (%)   | >24              | >24             | >24             | >24             | >24               |
| ASTM<br>E2178-11 | Standard test method<br>for air permeance of<br>building materials @<br>75 pa (L/s*m <sup>2</sup> ) |                  |                 |                 |                 | 0.01              |

# SilveRboard<sup>®</sup> Graphite XS

| Standard                 | Description   | Test Results                  |
|--------------------------|---|-------------------------------|
| ASTM<br>C518             | R-value/1-inch @ 75°F<br>(ft²·°F·h/Btu)<br>RSI/25mm @ 24°C<br>(m²K/W) | 4.5 (0.78)                    |
| ASTM<br>C518             | R-value/1-inch @ 0°F<br>(ft²·°F·h/Btu)<br>RSI/25mm @ -18°C<br>(m²K/W) | 5.4 (1.00)                    |
| ASTM<br>E96              | Water vapor permeance<br>US perm (ng/Pa*s*m²)                         | 0.77 (44)                     |
| ASTM<br>E96 (Perforated) | Water vapor permeance<br>US perm (ng/Pa*s*m²)                         | 2.74 (157)                    |
| ASTM<br>D2126            | Dimensional stability linear change (%)                               | Length - 0.18<br>Width - 0.15 |
| ASTM<br>C203             | Flexural strength psi (kPa)   | 26 (180)                      |
| ASTM<br>C272             | Water absorption % by volume  | 0.18                          |
| ASTM<br>D2863            | Limiting oxygen index (%)   | <24                           |
| CAN/ULC<br>S102.2        | Flame spread 155  | Smoke developed 340           |

## SilveRboard<sup>®</sup> - Non-Perforated

| SKU #      | Compressive<br>Strength | R-value    | Thickness | Dimensions    | Packaging  |
|------------|-------------------------|------------|-----------|---------------|------------|
| SB21S0500S | 21.5 PSI                | R2.1       | 1/2"      | 4' x 8'       | 60 sheets/ |
|            | (148 kPa)               | (0.37 RSI) | (13mm)    | (1.2m x 2.4m) | bundle     |
| SB21S0750S | 21.5 PSI                | R3         | 3/4"      | 4' x 8'       | 40 sheets/ |
|            | (148 kPa)               | (0.53 RSI) | (19mm)    | (1.2m x 2.4m) | bundle     |
| SB21S1100S | 21.5 PSI                | R4.7       | 1.1"      | 4' x 8'       | 27 sheets/ |
|            | (148 kPa)               | (0.83 RSI) | (28mm)    | (1.2m x 2.4m) | bundle     |
| SB21S1660S | 21.5 PSI                | R7.1       | 1.66"     | 4' x 8'       | 18 sheets/ |
|            | (148 kPa)               | (1.25 RSI) | (42mm)    | (1.2m x 2.4m) | bundle     |
| SB21S2200S | 21.5 PSI                | R9.4       | 2.2"      | 4' x 8'       | 13 sheets/ |
|            | (148 kPa)               | (1.66 RSI) | (56mm)    | (1.2m x 2.4m) | bundle     |

# SilveRboard<sup>®</sup> - Non-Perforated

| SKU #      | Compressive<br>Strength | R-value    | Thickness | Dimensions    | Packaging  |
|------------|-------------------------|------------|-----------|---------------|------------|
| SB35S0500S | 35.6 PSI                | R2.5       | 1/2"      | 4' x 8'       | 60 sheets/ |
|            | (245.5 kPa)             | (0.44 RSI) | (13mm)    | (1.2m x 2.4m) | bundle     |
| SB35S0750S | 35.6 PSI                | R3.75      | 3/4"      | 4' x 8'       | 40 sheets/ |
|            | (245.5 kPa)             | (0.66 RSI) | (19mm)    | (1.2m x 2.4m) | bundle     |
| SB35S1000S | 35.6 PSI                | R5         | 1"        | 4' x 8'       | 30 sheets/ |
|            | (245.5 kPa)             | (0.88 RSI) | (25mm)    | (1.2m x 2.4m) | bundle     |
| SB35S1002S | 35.6 PSI                | R5         | 1"        | 2' x 8'       | 30 sheets/ |
|            | (245.5 kPa)             | (0.88 RSI) | (25mm)    | (0.6m x 2.4m) | bundle     |
| SB35S1009S | 35.6 PSI                | R5         | 1"        | 4' x 9'       | 30 sheets/ |
|            | (245.5 kPa)             | (0.88 RSI) | (25mm)    | (1.2m x 2.7m) | bundle     |
| SB35S1500S | 35.6 PSI                | R7.5       | 1.5"      | 4' x 8'       | 20 sheets/ |
|            | (245.5 kPa)             | (1.32 RSI) | (38mm)    | (1.2m x 2.4m) | bundle     |
| SB35S1502S | 35.6 PSI                | R7.5       | 1.5"      | 2' x 8'       | 20 sheets/ |
|            | (245.5 kPa)             | (1.32 RSI) | (38mm)    | (0.6m x 2.4m) | bundle     |
| SB35S2000S | 35.6 PSI                | R10        | 2"        | 4' x 8'       | 15 sheets/ |
|            | (245.5 kPa)             | (1.76 RSI) | (51mm)    | (1.2m x 2.4m) | bundle     |
| SB35S2002S | 35.6 PSI                | R10        | 2"        | 2' x 8'       | 15 sheets/ |
|            | (245.5 kPa)             | (1.76 RSI) | (51mm)    | (0.6m x 2.4m) | bundle     |
| SB35S2009S | 35.6 PSI                | R10        | 2"        | 4' x 9'       | 15 sheets/ |
|            | (245.5 kPa)             | (1.76 RSI) | (51mm)    | (1.2m x 2.7m) | bundle     |
| SB35S3000S | 35.6 PSI                | R15        | 3"        | 4' x 8'       | 10 sheets/ |
|            | (245.5 kPa)             | (2.64 RSI) | (76mm)    | (1.2m x 2.4m) | bundle     |
| SB35S3002S | 35.6 PSI                | R15        | 3"        | 2' x 8'       | 10 sheets/ |
|            | (245.5 kPa)             | (2.64 RSI) | (76mm)    | (0.6m x 2.4m) | bundle     |
| SB35S3500S | 35.6 PSI                | R17.5      | 3.5"      | 2' x 8'       | 8 sheets/  |
|            | (245.5 kPa)             | (3.08 RSI) | (89mm)    | (0.6m x 2.4m) | bundle     |

## SilveRboard<sup>®</sup> - Non-Perforated

| SKU #      | Compressive<br>Strength | R-value    | Thickness | Dimensions    | Packaging  |
|------------|-------------------------|------------|-----------|---------------|------------|
| SB44S0500S | 44.4 PSI                | R2.5       | 1/2"      | 4' x 8'       | 60 sheets/ |
|            | (306 kPa)               | (0.44 RSI) | (13mm)    | (1.2m x 2.4m) | bundle     |
| SB44S0750S | 44.4 PSI                | R3.75      | 3/4"      | 4' x 8'       | 40 sheets/ |
|            | (306 kPa)               | (0.66 RSI) | (19mm)    | (1.2m x 2.4m) | bundle     |
| SB44S1000S | 44.4 PSI                | R5         | 1"        | 4' x 8'       | 30 sheets/ |
|            | (306 kPa)               | (0.88 RSI) | (25mm)    | (1.2m x 2.4m) | bundle     |
| SB44S1002S | 44.4 PSI                | R5         | 1"        | 2' x 8'       | 30 sheets/ |
|            | (306 kPa)               | (0.88 RSI) | (25mm)    | (0.6m x 2.4m) | bundle     |
| SB44S2000S | 44.4 PSI                | R10        | 2"        | 4' x 8'       | 15 sheets/ |
|            | (306 kPa)               | (1.76 RSI) | (51mm)    | (1.2m x 2.4m) | bundle     |
| SB44S2002S | 44.4 PSI                | R10        | 2"        | 2' x 8'       | 15 sheets/ |
|            | (306 kPa)               | (1.76 RSI) | (51mm)    | (0.6m x 2.4m) | bundle     |
| SB44S2500S | 44.4 PSI                | R12.5      | 2.5"      | 4' x 8'       | 12 sheets/ |
|            | (306 kPa)               | (2.2 RSI)  | (63.5mm)  | (1.2m x 2.4m) | bundle     |
| SB44S3000S | 44.4 PSI                | R15        | 3"        | 4' x 8'       | 10 sheets/ |
|            | (306 kPa)               | (2.64 RSI) | (76mm)    | (1.2m x 2.4m) | bundle     |
| SB44S3002S | 44.4 PSI                | R15        | 3"        | 2' x 8'       | 10 sheets/ |
|            | (306 kPa)               | (2.64 RSI) | (76mm)    | (0.6m x 2.4m) | bundle     |
| SB44S4000S | 44.4 PSI                | R20        | 4"        | 4' x 8'       | 7 sheets/  |
|            | (306 kPa)               | (3.52 RSI) | (101mm)   | (1.2m x 2.4m) | bundle     |

| SKU #      | Compressive<br>Strength | R-value    | Thickness | Dimensions    | Packaging  |
|------------|-------------------------|------------|-----------|---------------|------------|
| SB60S1002S | 60.0 PSI                | R5         | 1"        | 2' x 8'       | 60 sheets/ |
|            | (413.7 kPa)             | (0.88 RSI) | (25mm)    | (0.6m x 2.4m) | bundle     |
| SB60S2000S | 60.0 PSI                | R10        | 2"        | 4' x 8'       | 15 sheets/ |
|            | (413.7 kPa)             | (1.76 RSI) | (51mm)    | (1.2m x 2.4m) | bundle     |
| SB60S2002S | 60.0 PSI                | R10        | 2"        | 2' x 8'       | 30 sheets/ |
|            | (413.7 kPa)             | (1.76 RSI) | (51mm)    | (0.6m x 2.4m) | bundle     |

## SilveRboard<sup>®</sup> - Perforated

| SKU #      | Compressive<br>Strength | R-value    | Thickness | Dimensions    | Packaging  |
|------------|-------------------------|------------|-----------|---------------|------------|
| SB12XS058P | 12.1 PSI                | R2         | 1/2"      | 4' x 8'       | 60 sheets/ |
|            | (83.4 kPa)              | (0.35 RSI) | (13mm)    | (1.2m x 2.4m) | bundle     |
| SB12XS078P | 12.1 PSI                | R3         | 3/4"      | 4' x 8'       | 40 sheets/ |
|            | (83.4 kPa)              | (0.53 RSI) | (19mm)    | (1.2m x 2.4m) | bundle     |
| SB12XS108P | 12.1 PSI                | R4         | 1"        | 4' x 8'       | 30 sheets/ |
|            | (83.4 kPa)              | (0.70 RSI) | (25mm)    | (1.2m x 2.4m) | bundle     |
| SB12XS158P | 12.1 PSI                | R5         | 1-1/2"    | 4' x 8'       | 20 sheets/ |
|            | (83.4 kPa)              | (0.88 RSI) | (38mm)    | (1.2m x 2.4m) | bundle     |
| SB12XS208P | 12.1 PSI                | R8         | 2"        | 4' x 8'       | 15 sheets/ |
|            | (83.4 kPa)              | (1.41 RSI) | (51mm)    | (1.2m x 2.4m) | bundle     |

| SKU #       | Compressive<br>Strength | R-value    | Thickness | Dimensions    | Packaging  |
|-------------|-------------------------|------------|-----------|---------------|------------|
| SB35XS0508P | 35.6 PSI                | R2.5       | 1/2"      | 4' x 8'       | 60 sheets/ |
|             | (245.5 kPa)             | (0.44 RSI) | (13mm)    | (1.2m x 2.4m) | bundle     |
| SB35XS0758P | 35.6 PSI                | R3.75      | 3/4"      | 4' x 8'       | 40 sheets/ |
|             | (245.5 kPa)             | (0.66 RSI) | (19mm)    | (1.2m x 2.4m) | bundle     |
| SB35XS0759P | 35.6 PSI                | R3.75      | 3/4"      | 4' x 9'       | 40 sheets/ |
|             | (245.5 kPa)             | (0.66 RSI) | (19mm)    | (1.2m x 2.7m) | bundle     |
| SB35XS108P  | 35.6 PSI                | R5         | 1"        | 4' x 8'       | 30 sheets/ |
|             | (245.5 kPa)             | (0.88 RSI) | (25mm)    | (1.2m x 2.4m) | bundle     |
| SB35XS109P  | 35.6 PSI                | R5         | 1"        | 4' x 9'       | 30 sheets/ |
|             | (245.5 kPa)             | (0.88 RSI) | (25mm)    | (1.2m x 2.7m) | bundle     |
| SB35XS158P  | 35.6 PSI                | R7.5       | 1-1/2"    | 4' x 8'       | 20 sheets/ |
|             | (245.5 kPa)             | (1.32 RSI) | (38mm)    | (1.2m x 2.4m) | bundle     |
| SB35XS159P  | 35.6 PSI                | R7.5       | 1-1/2"    | 4' x 9'       | 20 sheets/ |
|             | (245.5 kPa)             | (1.32 RSI) | (38mm)    | (1.2m x 2.7m) | bundle     |
| SB35XS208P  | 35.6 PSI                | R10        | 2"        | 4' x 8'       | 15 sheets/ |
|             | (245.5 kPa)             | (1.76 RSI) | (51mm)    | (1.2m x 2.4m) | bundle     |
| SB35XS308P  | 35.6 PSI                | R15        | 3"        | 4' x 8'       | 10 sheets/ |
|             | (245.5 kPa)             | (2.64 RSI) | (76mm)    | (1.2m x 2.4m) | bundle     |

# SilveRboard® Graphite

| SKU #<br>SBGXS050008P | <b>Density</b><br>0.7 lb/ft <sup>3</sup><br>(11.2 kg/m <sup>3</sup> ) | <b>R-value</b><br>R2.2<br>(0.39 RSI) | Thickness<br>1/2"<br>(13mm) | <b>Dimensions</b><br>4' x 8'<br>(1.2m x 2.4m) | <b>Packaging</b><br>60 sheets/<br>bundle |
|-----------------------|---|--------------------------------------|-----------------------------|---|--|
| SBGXS050009P          | 0.7 lb/ft <sup>3</sup>  | R2.2                                 | 1/2"                        | 4' x 9'                                       | 60 sheets/                               |
|                       | (11.2 kg/m <sup>3</sup> )   | (0.39 RSI)                           | (13mm)                      | (1.2m x 2.7m)                                 | bundle                                   |
| SBGXS050010P          | 0.7 lb/ft <sup>3</sup>  | R2.2                                 | 1/2"                        | 4' x 10'                                      | 60 sheets/                               |
|                       | (11.2 kg/m <sup>3</sup> )   | (0.39 RSI)                           | (13mm)                      | (1.2m x 3.0m)                                 | bundle                                   |
| SBGXS062508P          | 0.7 lb/ft <sup>3</sup>  | R2.8                                 | 5/8"                        | 4' x 8'                                       | 48 sheets/                               |
|                       | (11.2 kg/m <sup>3</sup> )   | (0.49 RSI)                           | (16mm)                      | (1.2m x 2.4m)                                 | bundle                                   |
| SBGXS062509P          | 0.7 lb/ft <sup>3</sup>  | R2.8                                 | 5/8"                        | 4' x 9'                                       | 48 sheets/                               |
|                       | (11.2 kg/m <sup>3</sup> )   | (0.49 RSI)                           | (16mm)                      | (1.2m x 2.7m)                                 | bundle                                   |
| SBGXS062510P          | 0.7 lb/ft <sup>3</sup>  | R2.8                                 | 5/8"                        | 4' x 10'                                      | 48 sheets/                               |
|                       | (11.2 kg/m <sup>3</sup> )   | (0.49 RSI)                           | (16mm)                      | (1.2m x 3.0m)                                 | bundle                                   |
| SBGXS075008P          | 0.7 lb/ft <sup>3</sup>  | R3.3                                 | 3/4"                        | 4' x 8'                                       | 34 sheets/                               |
|                       | (11.2 kg/m <sup>3</sup> )   | (0.58 RSI)                           | (19mm)                      | (1.2m x 2.4m)                                 | bundle                                   |
| SBGXS100008P          | 0.7 lb/ft <sup>3</sup>  | R4.5                                 | 1"                          | 4' x 8'                                       | 30 sheets/                               |
|                       | (11.2 kg/m <sup>3</sup> )   | (0.79 RSI)                           | (25mm)                      | (1.2m x 2.4m)                                 | bundle                                   |
| SBGXS100009P          | 0.7 lb/ft <sup>3</sup>  | R4.5                                 | 1"                          | 4' x 9'                                       | 30 sheets/                               |
|                       | (11.2 kg/m <sup>3</sup> )   | (0.79 RSI)                           | (25mm)                      | (1.2m x 2.7m)                                 | bundle                                   |
| SBGXS100010P          | 0.7 lb/ft <sup>3</sup>  | R4.5                                 | 1"                          | 4' x 10'                                      | 30 sheets/                               |
|                       | (11.2 kg/m <sup>3</sup> )   | (0.79 RSI)                           | (25mm)                      | (1.2m x 3.0m)                                 | bundle                                   |
| SBGXS112508P          | 0.7 lb/ft <sup>3</sup>  | R5                                   | 1-1/8"                      | 4' x 8'                                       | 27 sheets/                               |
|                       | (11.2 kg/m <sup>3</sup> )   | (0.88 RSI)                           | (28.5mm)                    | (1.2m x 2.4m)                                 | bundle                                   |
| SBGXS112509P          | 0.7 lb/ft <sup>3</sup>  | R5                                   | 1-1/8"                      | 4' x 9'                                       | 27 sheets/                               |
|                       | (11.2 kg/m <sup>3</sup> )   | (0.88 RSI)                           | (28.5mm)                    | (1.2m x 2.7m)                                 | bundle                                   |
| SBGXS112510P          | 0.7 lb/ft <sup>3</sup>  | R5                                   | 1-1/8"                      | 4' x 10'                                      | 27 sheets/                               |
|                       | (11.2 kg/m <sup>3</sup> )   | (0.88 RSI)                           | (28.5mm)                    | (1.2m x 3.0m)                                 | bundle                                   |
| SBGXS150008P          | 0.7 lb/ft <sup>3</sup>  | R6.75                                | 1-1/2"                      | 4' x 8'                                       | 20 sheets/                               |
|                       | (11.2 kg/m <sup>3</sup> )   | (1.19 RSI)                           | (38mm)                      | (1.2m x 2.4m)                                 | bundle                                   |
| SBGXS150009P          | 0.7 lb/ft <sup>3</sup>  | R6.75                                | 1-1/2"                      | 4' x 9'                                       | 20 sheets/                               |
|                       | (11.2 kg/m <sup>3</sup> )   | (1.19 RSI)                           | (38mm)                      | (1.2m x 2.7m)                                 | bundle                                   |
| SBGXS150010P          | 0.7 lb/ft <sup>3</sup>  | R6.75                                | 1-1/2"                      | 4' x 10'                                      | 20 sheets/                               |
|                       | (11.2 kg/m <sup>3</sup> )   | (1.19 RSI)                           | (38mm)                      | (1.2m x 3.0m)                                 | bundle                                   |

# SilveRboard® Graphite

| SKU #        | Density                   | R-value    | Thickness | Dimensions    | Packaging  |
|--------------|---------------------------|------------|-----------|---------------|------------|
| SBGXS162508P | 0.7 lb/ft <sup>3</sup>    | R7.5       | 1-5/8"    | 4' x 8'       | 18 sheets/ |
|              | (11.2 kg/m <sup>3</sup> ) | (1.32 RSI) | (41mm)    | (1.2m x 2.4m) | bundle     |
| SBGXS162509P | 0.7 lb/ft <sup>3</sup>    | R7.5       | 1-5/8"    | 4' x 9'       | 18 sheets/ |
|              | (11.2 kg/m <sup>3</sup> ) | (1.32 RSI) | (41mm)    | (1.2m x 2.7m) | bundle     |
| SBGXS162510P | 0.7 lb/ft <sup>3</sup>    | R7.5       | 1-5/8"    | 4' x 10'      | 18 sheets/ |
|              | (11.2 kg/m <sup>3</sup> ) | (1.32 RSI) | (41mm)    | (1.2m x 3.0m) | bundle     |
| SBGXS175008P | 0.7 lb/ft <sup>3</sup>    | R7.8       | 1-3/4"    | 4' x 8'       | 18 sheets/ |
|              | (11.2 kg/m <sup>3</sup> ) | (1.37 RSI) | (45mm)    | (1.2m x 2.4m) | bundle     |
| SBGXS175009P | 0.7 lb/ft <sup>3</sup>    | R7.8       | 1-3/4"    | 4' x 9'       | 18 sheets/ |
|              | (11.2 kg/m <sup>3</sup> ) | (1.37 RSI) | (45mm)    | (1.2m x 2.7m) | bundle     |
| SBGXS175010P | 0.7 lb/ft <sup>3</sup>    | R7.8       | 1-3/4"    | 4' x 10'      | 18 sheets/ |
|              | (11.2 kg/m <sup>3</sup> ) | (1.37 RSI) | (45mm)    | (1.2m x 3.0m) | bundle     |
| SBGXS200008P | 0.7 lb/ft <sup>3</sup>    | R9         | 2"        | 4' x 8'       | 14 sheets/ |
|              | (11.2 kg/m <sup>3</sup> ) | (1.58 RSI) | (51mm)    | (1.2m x 2.4m) | bundle     |
| SBGXS200009P | 0.7 lb/ft <sup>3</sup>    | R9         | 2"        | 4' x 9'       | 14 sheets/ |
|              | (11.2 kg/m <sup>3</sup> ) | (1.58 RSI) | (51mm)    | (1.2m x 2.7m) | bundle     |
| SBGXS200010P | 0.7 lb/ft <sup>3</sup>    | R9         | 2"        | 4' x 10'      | 14 sheets/ |
|              | (11.2 kg/m <sup>3</sup> ) | (1.58 RSI) | (51mm)    | (1.2m x 3.0m) | bundle     |
| SBGXS225008P | 0.7 lb/ft <sup>3</sup>    | R10        | 2-1/4"    | 4' x 8'       | 13 sheets/ |
|              | (11.2 kg/m <sup>3</sup> ) | (1.76 RSI) | (57mm)    | (1.2m x 2.4m) | bundle     |
| SBGXS225009P | 0.7 lb/ft <sup>3</sup>    | R10        | 2-1/4"    | 4' x 9'       | 13 sheets/ |
|              | (11.2 kg/m <sup>3</sup> ) | (1.76 RSI) | (57mm)    | (1.2m x 2.7m) | bundle     |
| SBGXS225010P | 0.7 lb/ft <sup>3</sup>    | R10        | 2-1/4"    | 4' x 10'      | 13 sheets/ |
|              | (11.2 kg/m <sup>3</sup> ) | (1.76 RSI) | (57mm)    | (1.2m x 3.0m) | bundle     |



SilveRboard® is a high quality, innovative insulation materials designed for both residential and commercial applications. Competitive pricing, extensive product distribution and excellent technical support are combined to provide our clients with a simplified approach to a superior finished product. If any of your questions or concerns are not completely addressed in this manual, please contact us and our staff will be happy to answer your questions. At Amvic, we pride ourselves in offering our customers an exceptional level of customer service.

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This manual provides a basic guide for the installation of SilveRboard<sup>®</sup> and is intended to supplement, rather than replace, the basic construction knowledge of a construction professional. All installations of SilveRboard<sup>®</sup> must be in accordance with all applicable building codes and/or under the guidance of a licensed professional engineer. In all cases, applicable building code regulations take precedence over this manual.

#### **Technical Support**

Please contact us for any inquiries pertaining to information included in this manual, or if you require any other technical assistance.

Email support@amvicsystem.com

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