

WPC FOAM BOARD INSTALLATION INSTRUCTIONS

THANK YOU FOR CHOOSING AESTHEDGE WPC FOAM BOARD

If installed and cared for properly, your new siding will be easy to maintain and look great for years to come. These directions are based on industry standards and best practices. Failure to follow these installation instructions may result in damage to the siding and void the siding warranty.

- For complete warranty information call +86-17753916751 or go to www.aesthedgewallpanel.com.
- For technical or installation questions, or to request a Safety Data Sheet, please call +86-17753916751 or visit www.aesthedgewallpanel.com our technical website.
- For general questions or comments, please visit us at www.aesthedgewallpanel.com or call +86-17753916751

WARNING: EXISTING SIDING COVERING AND ASPHALT ADHESIVE. DO NOT SAND, DRY SWEEP, DRY SCRAPE, DRILL, SAW, OR SANDBLAST. MECHANICALLY SHRED OR CRUSH EXISTING SIDING, BACKING, LINING FELT, ASPHALT "CUT" ADHESIVE, OR OTHER ADHESIVES.

These existing in-place products may contain asbestos fibers and/or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the existing in-place product is a non-asbestos-containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content and may govern removal and disposal of material.

AESTHEDGE WPC FOAM BOARD DO NOT CONTAIN ASBESTOS

Adhesive	Trowel	Set-in-Wet	Dry-to-Touch	Comments
S-295	1/32" deep; 1/16" wide; 1/32" apart U-notch	N/A	Dry to Touch	Foot Traffic: 24 Hours Heavy Rolling Loads: 72 Hours
S-319	Short nap paint roller	N/A	Dry to Touch	Foot Traffic: Immediately Heavy Rolling Loads: Immediately
Flip Spray Adhesive	N/A	N/A	Dry to Touch Approximately 30 minutes (tacky to touch with no transfer to fingers)	Foot Traffic: Immediately Heavy Rolling Loads: 24 Hours
S-1000*	1/32" deep; 1/16" wide; 1/32" apart U-notch	Set in Wet Approximately 10-20 minutes	N/A	Foot Traffic: Immediately Heavy Rolling Loads: 8 Hours

*Note: When installing WPC FOAM BOARD in areas subject to direct sunlight, topical moisture, temperature fluctuations, S-1000 adhesive must be used.

Do not wash or scrub the new foam board for at least 5 days after the installation. This will allow the tile to become "seated" in the adhesive and prevent excess moisture and cleaning agents from

Installation:

Location: All grade levels
Fitting: All Methods

Tools:

Tape measure, chalk line, utility knife, pencil, straight edge, vacuum or broom optional tile cutter or cutting shear. Recommended adhesives.

Keys to Successful Glue Down Installation

- Most installations will need approximately a 10% cutting allowance added to the square footage of the room.
- Proper conditioning of the job site is necessary. Wall panel planks should not be exposed to sudden changes in temperature.
- Store, transport and handle the wall panel planks in a manner to prevent any distortions. Distortions will not disappear over time. Store cartons flat, never on edge. Ensure that the wall panel planks are lying flat during installation.
- Protect the floor from heavy-rolling loads, other trades, and movement of appliances by using sheets of plywood or similar.

Suitable Substrates

All substrates listed below must be properly prepared and meet certain requirements. There may be other exceptions and special conditions (as noted below) for these substrates to be suitable for the glue down installation system.

- Concrete – dry and smooth on all grade levels
- Single-layer, fully-adhered, – must not be foam-backed or cushion-backed
- Ceramic tile, Terrazzo, Marble
- Polymeric Poured (seamless) Wall

DO NOT INSTALL OVER

- Existing resilient tile wall that are below grade
- Existing cushion-backed vinyl wall
- wallpaper
- Hardwood wall installed directly over concrete
- Existing floating wall
- Particleboard 40lb. density or waferboard

Job Conditions/Preparations

• WPC foam board should only be installed in temperature-controlled environments. It is necessary to maintain a constant temperature before, during, and after the installation. Therefore, the permanent or temporary HVAC system must be in operation before the installation of WPC foam board. Portable heaters are not recommended as they may not sufficiently heat the room and subfloor. Kerosene heaters should never be used.

• All substrates must be structurally sound, dry, clean, flat, and smooth with minimal deflection. Substrates must be free from excessive moisture or alkali. Remove dirt, paint, varnish, wax, oils, solvents, and other contaminants.

• Wall base must be flat within 3/16" in 10' or 1/8" in 6'.

• For concrete substrates, moisture testing should be conducted for moisture vapor emissions. Acceptable levels are determined by the adhesive being used. Check the adhesive label for limitations.

• High spots on the substrate should be leveled, and low areas filled with appropriate underlayments.

• Do not use products containing petroleum, solvents, or citrus oils to prepare substrates as they can cause staining and expansion of the WPC foam board.

• For renovation or remodel work, remove any existing adhesive residue so that 100% of the original substrate area is exposed.

• Wall, ceramic and marble grout joints, and irregularities in concrete should be filled and leveled using a cementitious patch to smooth any imperfections in the old wall.

• The area to receive WPC foam board materials and adhesives should be maintained at a minimum of 65°F (18.3°C) for 48 hours before, during, and 48 hours after installation. Maintain minimum temperatures of 55°F (12.8°C) thereafter.

SAFETY AND CLEAN UP

Wet adhesive should be cleaned up immediately with soap and water on a clean cloth. Dried adhesive may require the use of a solvent-based adhesive cleaner.

Installation Preparation

Remove baseboard, quarter-round moldings, wall base, appliances and furniture from room. After preparation work, sweep and vacuum the entire work area to remove all dust and debris.

Whenever possible, plan the layout so that the joints in the planks do not fall on top of joints or seams in the existing substrate. The end joints of the planks should be staggered a minimum of 6" apart. Do not install over expansion joints.

Determine which direction the plank will run. Find the center of each of the end walls (the walls perpendicular to the long dimension of the planks) and place a pencil mark on the floor. Connect these points by striking a chalk line down the center of the room. Do a dry layout of planks from the center line to the wall running parallel to the long direction of the planks to determine the width of the last row of planks (refer to Figure 1).

Avoid having border pieces less than half with width of the planks. If you find the border planks will be less than 1/2 the width of the plank, the center starting line should be shifted a distance equal to 1/2 the plank width. This will "balance" the room and provide for a larger cut piece at the wall.

NOTE: The wall must be thoroughly free from dust and debris. If the wall base is dusty this may affect the product performance.

NOTE: Stagger end joints by 6". Cut pieces at the ends of rows should be 8' long or longer.

PROCEDURE – S-295 Wall Panel Adhesive

1. Apply S-295 adhesive in the starting area, ensuring coverage within the adhesive's working time. Be careful not to apply adhesive too far ahead in the working area. It is important to use the correct trowel notch. Regularly check and replace worn trowels. Follow the adhesive's open time and working time recommendations as stated on the label.

2. Allow sufficient time for the adhesive to dry until tacky and no longer transfers to fingers (finger-touch dry). Insert materials into it. This typically takes 30 minutes or longer, depending on temperature and humidity. After the adhesive reaches this condition, there is at least one hour of working time to install and roll the wall panels. **Note:** Allowing adequate open time helps minimize knee marks, roller marks, and residual bubbles. This open time will vary depending on working conditions such as temperature, humidity, airflow, and substrate type.

3. Roll thoroughly. Start rolling from the center towards the edges using a 100-pound roller. Pay particular attention to cleaning adhesive residues in the seam area. Remove excess adhesive using a clean white cloth dipped in cleaner and water. Mineral spirits can be used to remove dried adhesive residues.

PROCEDURE – S-319 Roll Strong Adhesive

1. When using S-319 Roll Strong Adhesive, thorough cleaning of the substrate is crucial. Begin by thoroughly sweeping and vacuuming the substrate. Damp mop the wall to remove any remaining dust or debris. Proper preparation of the substrate is key to a successful installation. Failure to thoroughly clean the substrate may result in visible debris.

2. Conducting a bond test prior to installation helps determine the appropriate application rate, open time, and working time, as well as potential bonding issues with the substrate or flooring. To accurately determine coverage, measure and divide the substrate into grids using chalk (sized appropriately for adhesive application in square feet), and apply adhesive within each measured grid area.

3. It is recommended to use a medium nap (3/8 inch nap) roller for smooth, even, and comprehensive application. The spread rate and drying time of the adhesive will depend on the substrate's porosity, texture, environmental temperature, and relative humidity. Keep the paint roller moist! Do not apply pressure to the roller; allow it to roll freely over the substrate. The adhesive coverage should not exceed 400 square feet per gallon. Overly absorbent or rough substrates may require two coats. After drying, keep the surface clean and avoid contact with other surfaces until the bonding process begins. Do not apply more adhesive than can be covered within 4 hours.

4. Allow the adhesive to dry completely so it does not transfer onto fingers when lightly touched. Open time will vary depending on adhesive coverage, substrate porosity, and environmental conditions. Note: Adequate open time helps reduce roller marks and trapped bubbles. Open time duration will vary based on working conditions (temperature, humidity, air flow, and substrate type).

5. Once the S-319 Roll Strong adhesive is dry to the touch, install wallboard panels as recommended, ensuring each panel aligns with chalk lines or adjacent rows. Adjust panel positions if necessary before applying pressure. After installation, roll the entire floor in both directions with a 100-pound roller to achieve full contact bonding. Use a hand roller in narrow areas where the large roller cannot reach, such as under toe kicks. **Note:** Once the wall panel is rolled or pressed into position, it cannot be repositioned. Upon completion of installation, spreading, and cleaning, normal foot traffic and rolling loads can resume immediately.

PROCEDURE – S-1000 Adhesive

1. Apply S-1000 adhesive in the starting area, ensuring coverage within the adhesive's working time. Be careful not to apply adhesive too far ahead in the working area. It is important to use the correct trowel notch. Regularly check and replace worn trowels. Follow the adhesive's open time and working time recommendations as stated on the non-dry label.

2. After allowing 10-20 minutes, install the wall panels into the wet adhesive. Following this period, there is approximately 45 minutes of working time for installing and rolling the wall panel. Install the wall panels as recommended above, carefully aligning each panel with chalk lines or adjacent rows.

Note: Allowing sufficient open time helps minimize knee marks, roller marks, and residual bubbles. This open time will vary depending on working conditions such as temperature, humidity, airflow, and substrate type.

3. Roll thoroughly. Start rolling from the center towards the edges using a 100-pound roller. In narrow areas where the wall panel roller cannot reach (e.g., beneath toes), use a hand roller. Pay special attention to cleaning adhesive residues in the seam area. Remove excess adhesive using a clean white cloth dipped in cleaner and water. Mineral spirits can be used to remove dried adhesive residues.

PROCEDURE – Flip Spray Adhesive

1. When using spray adhesive, clean substrate is crucial. Thoroughly sweep and vacuum the substrate first. Use a damp mop to remove any remaining dust or debris. Pay extra attention to substrate preparation as it is critical for successful installation. Failure to adequately clean the substrate may result in telegraphing of fragments.

2. Conducting an adhesive test before installation will help determine the proper application rate, open and working times, and identify any potential bonding issues with the substrate or wall panels. Determine the exact coverage rate, measure, and grid-mark the substrate with chalk (using appropriate square footage areas for adhesive application), and spray the entire bottle of adhesive onto each measured grid area.

3. Shake the bottle thoroughly before each use. Hold the bottle upside down and press the nozzle tip sideways as follows: move slowly back and forth, overlapping the spray pattern to achieve even spray coverage. Avoid sweeping motions as this may result in uneven coverage. Clean up any larger droplets that may occur. Refer to the provided spraying pattern for proper application. Spraying patterns differ for tiles and panels. Excessive spraying may cause adhesive bleed-through.

4. Allow the adhesive to dry completely; it should not transfer to your fingers when lightly touched. Open times will vary depending on adhesive coverage, substrate porosity, and environmental conditions.

5. The working time of the adhesive should not exceed 4 hours.

6. Install wood panels carefully according to the above recommendations, aligning each panel precisely with chalk lines or adjacent panels.

7. Roll thoroughly. Start rolling from the center towards the edges using a 100-pound roller. In narrow areas where the large wall panel roller cannot reach (e.g., beneath toes), use a hand roller. Pay special attention to cleaning adhesive residues in the seam area. Remove excess adhesive using a clean white cloth dipped in cleaner and water. Mineral spirits can be used to remove dried adhesive residues.

SAFETY AND CLEAN UP:

- Wet adhesive overspray or drips should be cleaned up immediately with soap and water on a clean cloth. Dried adhesive may require the use of a solvent adhesive cleaner. Between uses, clean the spray tip immediately with a clean wet cloth to prevent accumulation of dried adhesive.
- **Flip Spray Adhesive:** Between uses, clean the spray tip immediately with a clean wet cloth to prevent accumulation of dried adhesive. Empty aluminum spray cans should be relieved of excess pressure and recycled or disposed of in accordance with local requirements. Do not expose to temperatures exceeding 115° F. Prolonged exposure to heat or direct sun may cause container to burst.

Precautions for All Installation Methods

1. Substrate Preparation:

- Ensure the wall surface is flat, clean, and free from dust, grease, or other impurities.
- Repair and smooth out uneven surfaces to ensure secure panel installation.

2. Adhesive Selection:

- Use adhesive suitable for WPC wall panels, ensuring the adhesive's open and working times meet installation requirements.

3. Pre-installation Preparation:

- Conduct adhesive tests to determine the appropriate application rate and spraying pattern.
- Measure and mark the wall to ensure accurate placement of each panel.

4. Spraying Techniques:

- Maintain even spray coverage during adhesive application, avoiding excessive or uneven spraying.

5. Panel Installation:

- Carefully install each panel to its pre-measured and marked position, ensuring alignment with adjacent panels or guide lines.
- Press each panel firmly after installation to ensure secure bonding, using a roller if necessary.

6. Cleaning and Maintenance:

- After installation, clean off any excess adhesive or dirt from the wall surface.
- Regularly clean WPC wall panels as needed to maintain their appearance and performance.