

DELTA®-STRATUS SA

Self-Adhered Vapor Permeable Water-resistive & Air Barrier Installation Instructions Flange Window Strip-in Method

For other window installation methods, please refer to [DELTA®-VENT SA Window Installation Guides](#) that are also suitable for DELTA®-STRATUS SA.

Health and Safety

- Required safety equipment: hard hat, safety boots, gloves, safety glasses, fall arrest equipment.
- Always follow all safety precautions as directed by the Occupational Safety and Health Administration (OSHA-USA) or the Construction Safety Association (Canada).
- Please refer to Safety Data Sheets for all components and observe all recommended safety precautions therein.
- The general codes of practice for protection at work and instructions of the manufacturers for tools and components are to be observed at all times.

Available Accessories

- DELTA®-HF PRIMER. Alternatively, use DELTA®-ADHESIVE LVC or DELTA®-ADHESIVE (cold weather)
- DELTA®-FAS CORNER (pre-fabricated window corner)
- DELTA®-FLEXX-BAND (flexible flashing)
- DELTA®-MULTI-BAND tape
- DELTA®-FLASHING
- DELTA®-TILAXX or DELTA®-THAN

Recommended Tools

- Utility knife
- Measuring tape
- Hand roller (for membrane installation)
- Paint roller (for application of primer)

Substrate Conditions and Preparation

Appropriate substrate conditions are critical to obtain proper adhesion. Ensure surfaces are ready for product installation and are in accordance with these installation instructions.

- All surfaces must be sound, dry, clean and free of dust, oil, grease, ice, dirt, excess mortar or other contaminants detrimental to the adhesion of the membrane.
- Ensure protrusions that may penetrate the membrane are removed from substrate. Mechanical fasteners used to secure substrate shall be set flush with substrate and secured into solid backing.
- If being applied to concrete or masonry substrates, fill voids, gaps and spalled areas in substrate to provide an even plane. Strike masonry joints full-flush.
- Curing compounds or release agents used in concrete construction must be resin-based without oil, wax or pigments.
- New concrete should be cured for a minimum of fourteen (14) days and must be dry prior to primer application.
- Not all product installations require the use of primer. However, in certain exceptions primer may be used to enhance adhesion. The ability of self-adhering membranes to adhere to a substrate may become compromised by irregular surface texture, chemical release agents, moisture content, dirt and debris, or even low temperatures or high wind conditions. An adhesion test is recommended to confirm substrate suitability. Adhesion enhancements are required when an assembly is unable to maintain a continuous and secure installation. Where enhanced adhesion is needed, Dörken Systems Inc. offers DELTA®-HF PRIMER (water-based, highly vapor permeable), DELTA®-ADHESIVE LVC or DELTA®-ADHESIVE (cold weather) for surface preparation.
- Important: apply primers in thin coat

■ To ensure the continuity of air and water-resistive barrier, it is essential to install DELTA®-STRATUS SA and all DELTA® accessories in a manner that seals all potential leakage points:

- Connections of the wall to the roof air barrier
- Connections of the wall to the foundation
- Seismic and expansion joints
- Piping, conduit, duct and similar penetrations
- Masonry ties, screws, bolts and similar penetrations
- Changes in plane
- All other potential air leakage pathways in the building enclosure
- These installation instructions for DELTA®-STRATUS SA are intended only as a guide and are for the convenience of the contractors, specifiers, and other interested parties. The final application and details are the sole responsibility of the design authority on record for the project.

- Applications using cementitious coating directly applied to surface of the DELTA®-STRATUS SA are not recommended. For these applications, please call our Technical Support Team: 1-888-433-5824 ext. 326.
- DELTA®-STRATUS SA membrane should be installed at 40°F (5°C) and above. In cold weather, store rolls in warm area to enhance adhesion and workability. Do not install DELTA®-STRATUS SA in adverse weather conditions. High winds may hamper application.
- It is recommended that DELTA®-STRATUS SA be installed prior to the installation of seismic straps.
- If sealant is required, DELTA®-THAN or DELTA®-TILAXX is recommended.
- When attaching brick ties for anchoring masonry claddings after the installation of DELTA®-STRATUS SA, install a patch of DELTA®-FLEXX BAND at the penetration site before installing the brick tie. The patch should be of an adequate size to seal only the penetration point.
- Although DELTA®-STRATUS SA is engineered for longer construction schedules it is not designed for permanent UV exposure. Per good building practice, always cover as soon as possible.

Step 1 Installation

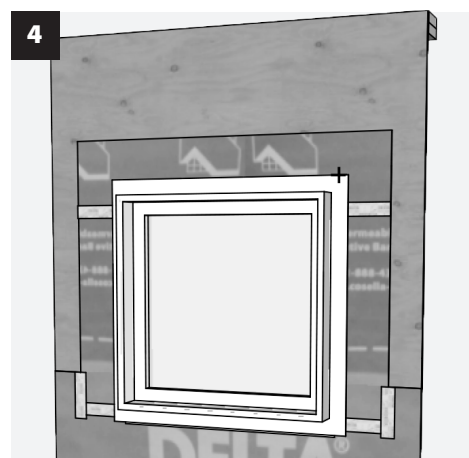
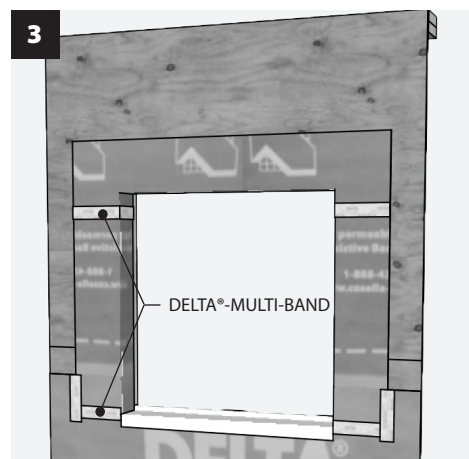
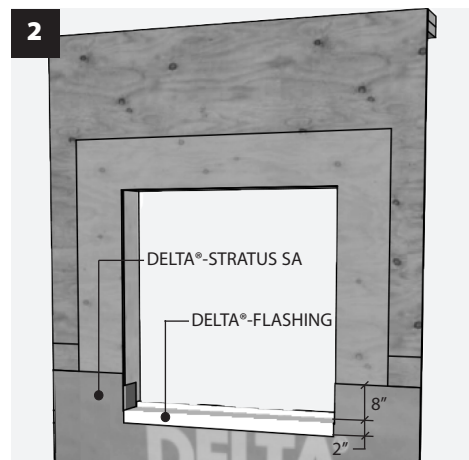
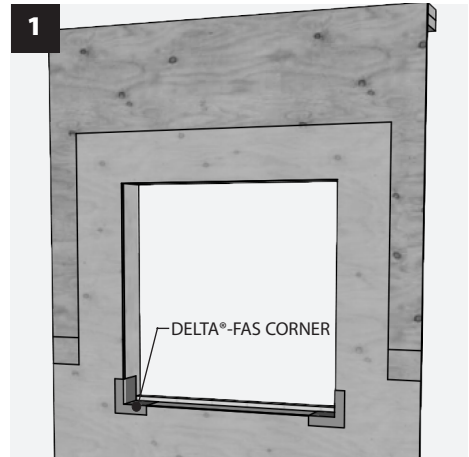
- If primer is being used, apply to substrate at recommended application rate. Apply only to areas where membrane will be applied that day.
- Cut DELTA®-STRATUS SA into manageable length. DELTA®-STRATUS SA can be installed vertically or horizontally.
- Starting at the corner of the building, align and position DELTA®-STRATUS SA to substrate. Remove release liner from top half of sheet and press DELTA®-STRATUS SA firmly into place. Ensure proper alignment of membrane to avoid wrinkles.
- Remove bottom half of release liner and press DELTA®-STRATUS SA firmly into place.
- At end/side laps, overlap DELTA®-STRATUS SA by minimum 3" (75 mm). To ensure air barrier continuity tape laps with DELTA®-MULTI-BAND tape.
- Always begin the installation of DELTA®-STRATUS SA at bottom of the building to ensure proper downward shingling of laps.
- Using hand roller, firmly roll all membrane surfaces to ensure appropriate adhesion.

Step 2 Wall/foundation transition

- If through-wall flashing (DELTA®-TW FLASHING) is installed, DELTA®-STRATUS SA should overlap by minimum of 3" (75 mm).
- If no through-wall flashing is installed, the bottom edge of DELTA®-STRATUS SA should extend beyond the sill plate by at least 2" (50 mm). Seal bottom edge with DELTA®-FLASHING or DELTA®-FLEXX BAND. Use hand roller firmly to ensure appropriate adhesion.

Step 3 Window

- Install DELTA®-FAS CORNER in lower corners of rough opening. Staple on vertical leg for temporary support (see Detail 1).
- Install DELTA®-STRATUS SA membrane below window with cut out minimum 8" (200 mm) above sill. Install DELTA®-FLASHING membrane at sill. Overlap 2" (50 mm) onto vertical DELTA®-STRATUS SA membrane below (see Detail 2).
- Install DELTA®-STRATUS SA membrane strip to wrap jamb. Lap 8" (200 mm) onto face of wall at jamb, minimum 3" (75 mm) at head. Install DELTA®-STRATUS SA membrane at head of rough opening. Lap minimum 8" (200 mm) onto face of wall at head. Install DELTA®-MULTI-BAND tape at overlapped edges of DELTA®-STRATUS SA to ensure airtightness (see Detail 3).
- Install window shims in accordance with window manufacturer's specifications, typically at quarter points of rough opening and under setting block locations for window. Install window in accordance with manufacturer's specifications. Generally, the gap between window and rough opening should be around 1/2" (12 mm) (see Detail 4).



- From interior, install backer rod around the full perimeter of window. Install DELTA®-TILAXX sealant around perimeter of window. Alternate air sealing detail: apply low expansion spray foam around full perimeter of window. Do not seal full cavity to allow drainage from sill flashing.

Step 4 Installation of membrane

- Install DELTA®-STRATUS SA membrane overlapping window flange and extending minimum 3" (75 mm) above top flange.
- Tape DELTA®-STRATUS SA to window flange at both jambs with DELTA®-MULTI-BAND tape or DELTA®-FLASHING 6".
- Install DELTA®-STRATUS SA membrane above head of window, overlapping window flange and lower membrane sheets (see Detail 5).
- Install DELTA®-MULTI-BAND tape at overlapped edges of DELTA®-STRATUS SA to ensure airtightness (see Detail 6).
- Using hand roller, firmly roll all membrane surfaces to ensure appropriate adhesion.

Step 5 Penetrations

- Cut DELTA®-STRATUS SA around penetrations as tightly as possible.
- Seal gaps between penetration and substrate with DELTA®-TILAXX or DELTA®-THAN sealant.
- Install DELTA®-FLEXX BAND around the penetration (see Detail 7).

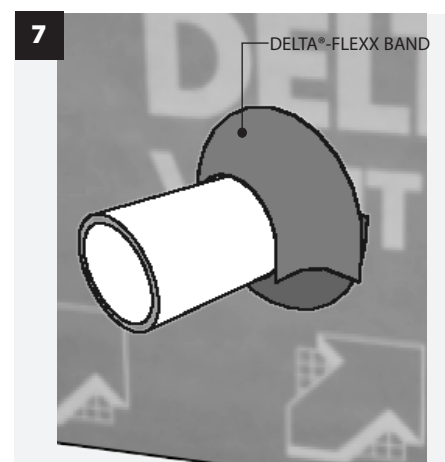
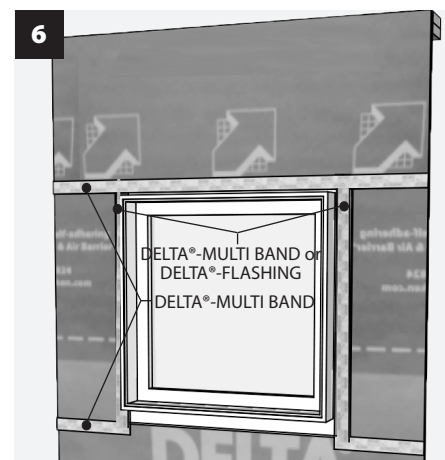
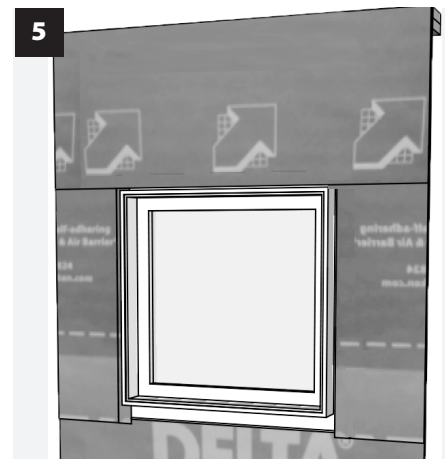
Step 6 Inspection

- Inspect the DELTA®-STRATUS SA for rips, tears, or other installation deficiencies in the continuity. Tape rips, tears or holes smaller than 2" (50 mm) with DELTA®-MULTI BAND.
- For holes greater than 2" (50 mm), a patch is required.
 - Cut a patch minimum 6" (150 mm) larger than the hole. Install patch of DELTA®-STRATUS SA over the hole.
 - Remove release liner, press the patch firmly into place, and hand roll.
 - Tape the patch with DELTA®-MULTI BAND in the following order:
 1. Bottom
 2. Sides
 3. Top

Step 7

- Clean up all excess materials and dispose of properly.

For technical support, call our Technical Support Team at 1-888-433-5824 extension 326, or visit www.dorken.com



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