

DELTA[®]-FASSADE S

UV Resistant Water-resistive Barrier Specifically Designed for Open Joint Cladding Systems Installation Instructions

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.

Recommended Materials

- DELTA[®]-FASSADE S
- DELTA[®]-FAS CORNER (pre-fabricated window corner)
- DELTA[®]-FLEXX BAND (flexible flashing)
- DELTA[®]-FASSADE TAPE
- DELTA[®]-FASSADE FLASHING
- DELTA[®]-THAN or DELTA[®]-TILAXX

Recommended Tools

- Utility knife
- Measuring tape
- Caulking gun
- Hammer or pneumatic nail/staple gun
- Cordless drill (for steel stud application)
- Hand roller (for flashing and tape application)

Notes on Water-Resistive Barrier Continuity in Open Joint Cladding

- To ensure the continuity of water-resistive barrier in an open joint cladding system, it is essential to install DELTA[®]-FASSADE S and all DELTA[®] components in a manner that seals all the potential leakage points:
 - Connections of the walls to the roof air barrier
 - Connections of the walls to the foundation
 - Seismic and expansion joints
 - Piping, conduit, duct and similar penetrations
 - Screws, bolts and similar penetrations
 - Changes in plane
 - All other potential water leakage pathways in the building enclosure
- These installation instructions for DELTA[®]-FASSADE S 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.
- DELTA[®]-FASSADE S is a significant protection layer in an open joint cladding system, acting as the main water-resistive barrier that prevents water intrusion into the wall assembly. It is strongly recommended to fasten DELTA[®]-FASSADE S at overlaps only, if field conditions allow. Open joint cladding systems require vertical extrusions, wood strapping or other attachment systems. If the cladding attachment system will be installed at the same time as DELTA[®]-FASSADE S, it is not necessary to place fasteners in the body of the membrane. Only fastening through the attachment system is required. It is good practice, where attachment fasteners penetrate the DELTA[®]-FASSADE S without enough sealing pressure, to put a patch of DELTA[®]-FASSADE TAPE at the fastening point. Minimizing the number of penetrations in the water-resistive barrier in an open joint cladding system reduces potential for water intrusion in to the wall assembly.
- Install DELTA[®]-FASSADE S with the smooth side facing the installer and the textured side facing the substrate.
- Do not install DELTA[®]-FASSADE S in adverse weather conditions. High winds may hamper application.
- Ensure protrusions that may penetrate the membrane are removed from substrate.
- If being applied over concrete or masonry substrates fill voids, gaps and spalled areas in substrate to provide an even plane. Strike masonry joints full-flush.
- It is recommended that DELTA[®]-FASSADE S be installed prior to the installation of seismic straps.
- If sealant is required, DELTA[®]-THAN or DELTA[®]-TILAXX is recommended.
- Product is not designed for permanent UV exposure. Always cover as soon as possible.

Recommended fasteners when fastening in the field of membrane

- #4 nails with 1" (25 mm) plastic cap (wood frame construction).
- 1" (25 mm) plastic cap staples with minimum 7/8" (22 mm) leg (wood frame construction).
- 1-1/4" (32 mm) or 2" (50 mm) self-tapping screws with gasketed metal washers (steel stud construction).

Step 1 Installation

- Cut DELTA®-FASSADE S into manageable length. DELTA®-FASSADE S can be installed vertically or horizontally.
- Starting at a corner of the building, unroll DELTA®-FASSADE S keeping the roll plumb.
- Extend approximately 12" (300 mm) past either the inside or outside corner of the wall.
- At end and side laps, overlap DELTA®-FASSADE S by minimum of 6" (150 mm).
- To ensure continuity and prevent any air and moisture intrusion tape any laps with DELTA®-FASSADE TAPE.
- Always begin the installation of DELTA®-FASSADE S at the bottom of the building to ensure proper downward shingling of the laps.
- Secure DELTA®-FASSADE S by fastening into the studs (wherever possible) no closer than 6" (300 mm) and no wider than 16" (406 mm) on centre horizontally and vertically.
- Ensure that the DELTA®-FASSADE S is pressed tightly into all inside corners before fastening to prevent damage during the installation of exterior cladding.

Step 2 Wall/foundation transition

- DELTA®-FASSADE S should overlap through-wall (DELTA®-TW) flashing by minimum of 6" (150 mm).
- For optimum performance:
 - Seal DELTA®-FASSADE S to through-wall (DELTA®-TW) flashing with DELTA®-THAN or DELTA®-FASSADE TAPE.
- If no through-wall flashing is installed, the bottom edge of DELTA®-FASSADE S should extend beyond the sill plate by at least 2" (50 mm) and be sealed with DELTA®-THAN.

Step 3 Window

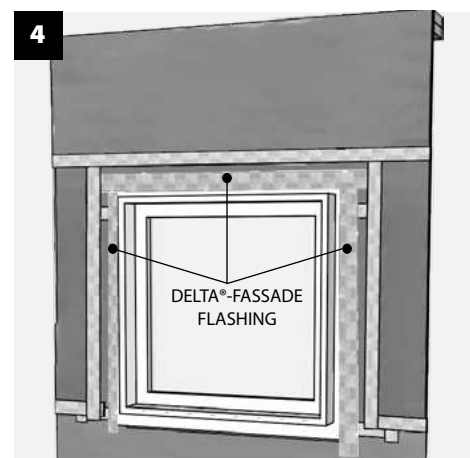
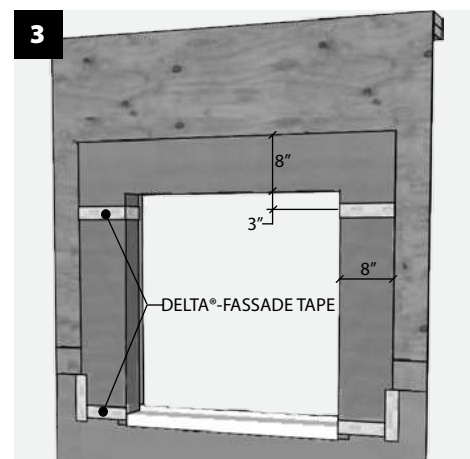
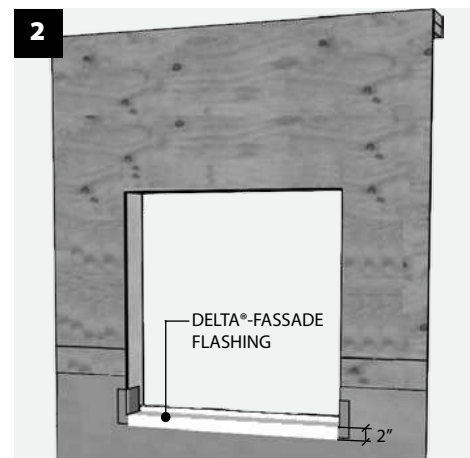
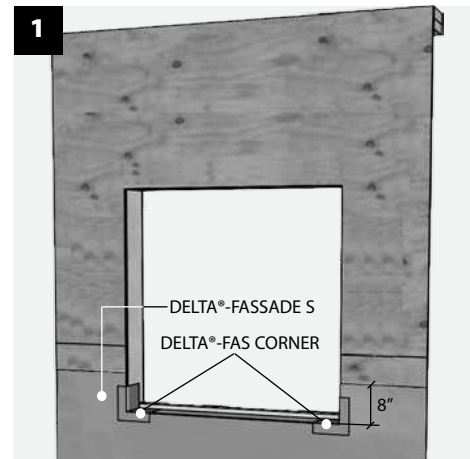
- Install DELTA®-FASSADE S membrane below window with cut out minimum 8" (200 mm) above sill. Install DELTA®-FAS CORNERS in lower corners of rough opening. Staple on vertical leg for temporary support (see Detail 1).
- Install DELTA®-FASSADE FLASHING membrane onto window sill. Overlap 2" (50 mm) onto face of DELTA®-FASSADE S membrane below (see Detail 2).
- Install DELTA®-FASSADE S membrane strip to wrap jamb. Lap 8" (200 mm) onto face of wall at jamb, minimum 3" (75 mm) at head. Install DELTA®-FASSADE S membrane at window head or rough opening. Lap minimum 8" (200 mm) onto face of wall at head overlapping window jamb by minimum 3" (75 mm). Install DELTA®-FASSADE TAPE at overlapped edges of DELTA®-FASSADE S for improved airtightness and prevent water intrusion (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).
- 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.

Rebate window

- For exposed buildings and buildings taller than 2 stories, apply an exterior bead of sealant between window frame and membrane at jambs and head only.

Step 4 Installation of membrane

- Install DELTA®-FASSADE S membrane overlapping the membrane at window flange and head minimum 6" (150 mm). For optimum performance, tape vertical and horizontal laps with DELTA®-FASSADE TAPE (see Detail 5).



- Install kick-out flashing over the window head. Seal any penetrations with DELTA®-FASSADE TAPE (see Detail 6).

Step 5 Penetrations

- Cut DELTA®-FASSADE S around penetrations as tightly as possible.
- Seal gaps between penetration and substrate with DELTA®-THAN or DELTA®-TILAXX sealant.
- Install DELTA®-FLEXX BAND around the penetration (see Detail 7). If DELTA®-FLEXX BAND is going to be exposed to UV, cover with DELTA®-FASSADE TAPE or DELTA®-FASSADE FLASHING.

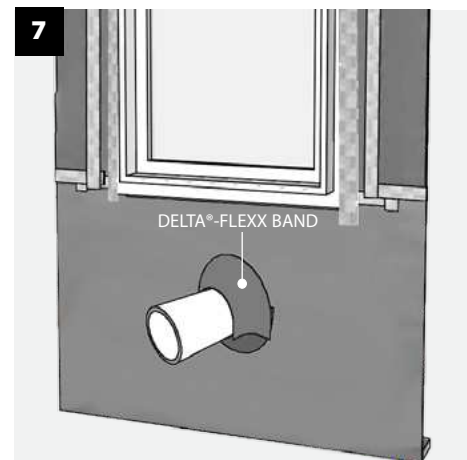
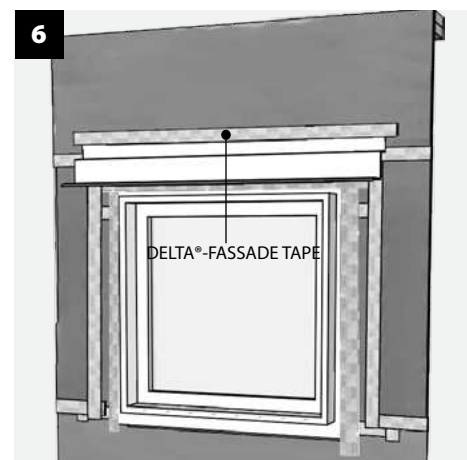
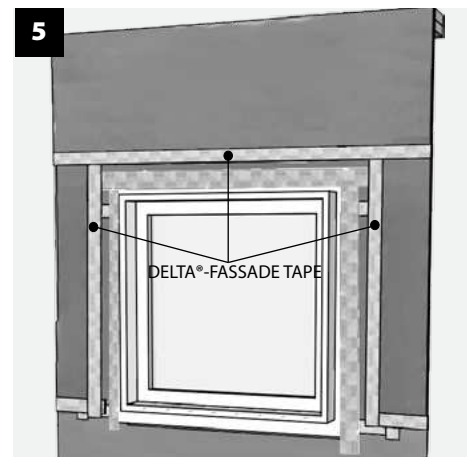
Step 6 Inspection

- Inspect the DELTA®-FASSADE S for rips, tears, or other installation deficiencies in the continuity. Tape rips, tears or holes smaller than 2" (50 mm) with DELTA®-FASSADE TAPE.
- For holes greater than 2" (50 mm), a patch is required.
 - Cut a slit approximately 3" (8 cm) above the hole and approximately 3" (8 cm) wider than the hole.
 - Cut a patch minimum 6" (150 mm) larger than the hole.
 - Slide the top edge up into the cut slit so that the patch covers the hole.
 - Tape the patch with DELTA®-FASSADE TAPE in the following order:
 1. Bottom
 2. Sides
 3. Top
- Ensure all materials are installed as required.

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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