Installation Guide
DELTA®-VENT SA

Flashing Systems for
REBATE WINDOWS

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Leading Through Technical Competence

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Introduction

DELTA®-VENT SA water-resistive barrier and air barrier

This Installation Guide covers the preparation of rough window openings with DELTA®-VENT SA Water-resistive Barrier and Air Barrier and its components.

The following diagrams present a step-by-step sequence for all installations. There are several options for these installation sequences. For example, window placement within the rough opening will depend on the rebate frame depth, the window manufacturer’s specifications, and architectural considerations such as flashing and trim. All installations, regardless of variations, will follow the same fundamental approach.

The membrane’s primary purpose is to function as a vapor permeable water-resistant barrier and continuous air barrier. Special attention is paid to interface areas to ensure that water or air cannot penetrate the assembly. Following the steps outlined in this Installation Guide will help ensure best practice installations.

These diagrams for DELTA®-VENT SA are intended only as a guide and are for the convenience of architects, specifiers, contractors and other interested parties. The final application and details are the sole responsibility of the design authority on record for the project.

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Method Selection Guide

Strip-in methods for rebate windows

Rebate Windows

Strip-in method

1. DELTA®-FAS CORNER (page 6)

2. Flat sill (page 14)

3. Sloped sill (page 22)

4. Backdam (page 30)
Cut-out methods for rebate windows

1. DELTA®-FAS CORNER (page 38)
2. Flat sill (page 44)
3. Sloped sill (page 50)
4. Backdam (page 56)
Strip-in method

1. With DELTA®-FAS CORNER

- Structural framing
- Sheathing
- DELTA®-ADHESIVE LVC
- DELTA®-MULTI-BAND
- Metal head flashing with drip edge
- Window trim
- Metal sill flashing with drip edge
- Cladding
- Backer rod and DELTA®-TILAXX sealant
- Window shims
Step 1
Prime substrate with DELTA®-ADHESIVE LVC before applying DELTA®-VENT SA.

Step 2
Install DELTA®-FAS CORNERS and staple on vertical leg to temporarily hold in place.

Step 3

Step 4

Framing

Sheathing
Strip-in method

1. With DELTA®-FAS CORNER

Step 5
Install DELTA®-VENT SA membrane below window, with cut-out minimum 8" (200 mm) above sill.

Step 6
Install DELTA®-FLASHING membrane at sill. Overlap 2" (50 mm) onto face of wall to provide sub-sill drainage.

Step 7
Install pre-cut strip of DELTA®-VENT SA at jamb. Lap 12" (300 mm) onto face of wall at jamb and minimum 3" (75 mm) at head.

Step 8
Install DELTA®-VENT SA membrane at head of rough opening to provide continuity of WRB and Air Barrier into rough opening.
Install window in accordance with manufacturer’s specifications. Generally the gap between window and rough opening should be around 1/2” (12 mm).

**Step 9**
Install DELTA*-MULTI-BAND tape at corner to seal membrane.

**Step 10**
Install DELTA*-MULTI-BAND tape at overlaps to seal membrane laps and help ensure continuity of air barrier.

**Step 11**
Install window shims in accordance with window manufacturer’s specifications, typically at quarter points of rough opening and under setting block locations for window.

**Step 12**
Install window in accordance with manufacturer’s specifications.
Strip-in method

1. With DELTA®-FAS CORNER

**Step 13**
Install backer rod around the full perimeter of window. Install DELTA®-TILAXX sealant around perimeter of window in proper 2:1 joint profile (see Appendix, page 66).

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.

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

**Step 14**
Prime substrate with DELTA®-ADHESIVE LVC before field application of DELTA®-VENT SA.

**Step 15**
Install DELTA®-VENT SA membrane, minimum 6" (150 mm) vertical lap.

**Step 16**
Install DELTA®-MULTIBAND tape at overlaps to seal membrane.*

* Not required where there is a self-adhered edge.
Install DELTA®-MULTI-BAND at overlap to seal membrane and flashing. Provide a 3/4” (20 mm) reveal on face of flashing.

Install metal flashing over window head. Use DELTA®-MULTI-BAND to seal top edge of flashing.

Install DELTA®-VENT SA membrane. Lap a minimum 4” (100 mm) onto lower membrane and onto flashing leg.

Install vertical strapping for cladding attachment and to provide cavity for drainage and venting.
Install sealant around perimeter of window frame, between trim and frame.

Install cladding and window trim.

Install DELTA®-BUG SCREEN at cladding openings. Fasten in place with nails.

Install metal window sill flashing as part of water-shedding surface.

1. With DELTA®-FAS CORNER
Strip-in method

2. With flat sill

- Structural framing
- Sheathing
- DELTA®-ADHESIVE LVC
- DELTA®-MULTI-BAND
- Metal head flashing with drip edge
- Window trim
- Metal sill flashing with drip edge
- Cladding
- Window shims
- Backer rod and DELTA®-TILAXX sealant
Step 1
Framing

Step 2
Sheathing

Step 3
Prime substrate with DELTA®-ADHESIVE LVC before applying DELTA®-VENT SA.

Step 4
Install DELTA®-VENT SA membrane below window with cut-out minimum 8” (200 mm) above sill.
Strip-in method

2. With flat sill

Step 5
Install DELTA®-FLASHING membrane at sill. Overlap 2" (50 mm) onto face of wall to provide sub-sill drainage.

Step 6
Install gusset constructed from DELTA®-FLASHING membrane at sill/jamb corner to cover pinhole.

Step 7
Install corner membrane constructed from DELTA®-FLASHING at sill/jamb corner. Lap 2" (50 mm) onto sill and face of wall.

Step 8
Install pre-cut strip of DELTA®-VENT SA at jamb. Lap 12" (300 mm) onto face of wall at jamb and minimum 3" (75 mm) at head.
Step 9: Install DELTA®-FLEXX-BAND tape at overlaps to seal membrane and ensure continuity of air barrier.

Step 10: Install DELTA®-VENT SA at head of rough opening to provide continuity of WRB.

Step 11: Install DELTA®-MULTI-BAND tape at overlaps to seal membrane and ensure continuity of air barrier.

Step 12: Install window shims in accordance with window manufacturer’s specifications, typically at quarter points of rough opening and under setting block locations for window.
Strip-in method

2. With flat sill

Step 13
Install window in accordance with manufacturer’s specifications. Generally the gap between window and rough opening should be around 1/2” (12 mm).

Step 14
Install backer rod around the full perimeter of window. Install DELTA®-TILAXX sealant around perimeter of window in proper 2:1 joint profile (see Appendix, page 66).
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.
Note: For exposed buildings and buildings taller than 2 stories, apply exterior bead of sealant between window frame and membrane at jambs and head only.

Step 15
Prime substrate with DELTA®-ADHESIVE LVC before field application of DELTA®-VENT SA.

Step 16
Install DELTA®-VENT SA membrane, minimum 6” (150 mm) vertical lap.
Step 17
Install DELTA*-MULTI-BAND tape at overlaps to seal membrane.*

Step 18
Install metal flashing over window head. Use DELTA*-MULTI-BAND to seal top edge of flashing.

Step 19
Install DELTA*-VENT SA membrane. Lap minimum 4” (100 mm) onto lower membrane and onto flashing leg.

Step 20
Install DELTA*-MULTI-BAND at overlap to seal membrane and flashing. Provide a 3/4” (20 mm) reveal on face of flashing.

* Not required where there is a self-adhered edge.
Strip-in method

2. With flat sill

**Step 21**
Install vertical strapping for cladding attachment and to provide cavity for drainage and venting.

**Step 22**
Install DELTA®-BUG SCREEN at cladding openings. Fasten in place with nails.

**Step 23**
Install metal window sill flashing as part of water-shedding surface.

**Step 24**
Install cladding and window trim. Install sealant around perimeter of window frame, between trim and frame.
Strip-in method

3. With sloped sill

- Structural framing
- Sheathing
- DELTA®-ADHESIVE LVC
- DELTA®-MULTI-BAND
- DELTA®-VENT SA
- DELTA®-BUG SCREEN
- Metal head flashing with drip edge
- Window trim
- Metal sill flashing with drip edge
- Window shims
- Cladding
- Backer rod and DELTA®-TILAXX sealant
- Window trim
Prime substrate with DELTA®-ADHESIVE LVC before applying DELTA®-VENT SA.

Install DELTA®-VENT SA membrane below window with cut-out minimum 8" (200 mm) above sill.
**Step 5**

Install DELTA*-FLASHING membrane at sill. Overlap 2" (50 mm) onto face of wall to provide sub-sill drainage.

**Step 6**

Install gusset constructed from DELTA*-FLASHING membrane at sill/jamb corner to cover pinhole.

**Step 7**

Install corner membrane constructed from DELTA*-FLASHING at sill/jamb corner. Lap 2" (50 mm) onto sill and face of wall.

**Step 8**

Install pre-cut strip of DELTA*-VENT SA at jamb. Lap 12" (300 mm) onto face of wall at jamb and minimum 3" (75 mm) at head.

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**3. With sloped sill**
1. **Step 9**: Install DELTA®-FLEXX-BAND tape at overlaps to seal membrane and ensure continuity of air barrier.

2. **Step 10**: Install DELTA®-VENT SA at head of rough opening to provide continuity of WRB.

3. **Step 11**: Install DELTA®-MULTI-BAND tape at overlaps to seal membrane and ensure continuity of air barrier.

4. **Step 12**: Install sloped window shims in accordance with window manufacturer’s specifications, typically at quarter points of rough opening and under setting block locations for window.
3. With sloped sill

**Step 13**
Install window in accordance with manufacturer’s specifications. Generally the gap between window and rough opening should be around 1/2” (12 mm).

**Step 14**
Install backer rod around the full perimeter of window. Install DELTA®-TILAXX sealant around perimeter of window in proper 2:1 joint profile (see Appendix, page 66).

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.

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

**Step 15**
Prime substrate with DELTA®-ADHESIVE LVC before field application of DELTA®-VENT SA.

**Step 16**
Install DELTA®-VENT SA membrane, minimum 6” (150 mm) vertical lap.
Install DELTA®-MULTI-BAND at overlap to seal membrane. Provide a 3/4” (20 mm) reveal on face of flashing.

Install DELTA®-MULTI-BAND tape at overlaps to seal membrane.*

Install DELTA®-VENT SA membrane. Lap minimum 4” (100 mm) onto lower membrane and onto flashing leg.

Install metal flashing over window head. Use DELTA®-MULTI-BAND to seal top edge of flashing.

* Not required where there is a self-adhered edge.
Strip-in method

3. With sloped sill

**Step 21**
Install vertical strapping for cladding attachment and to provide cavity for drainage and venting.

**Step 22**
Install DELTA®-BUG SCREEN at cladding openings. Fasten in place with nails.

**Step 23**
Install metal window sill flashing as part of water-shedding surface.

**Step 24**
Install cladding and window trim. Install sealant around perimeter of window frame, between trim and frame.
Strip-in method

4. With backdam
Step 1

Step 2

Step 3

Prime substrate with DELTA®-ADHESIVE LVC before applying DELTA®-VENT SA.

Step 4

Install backdam at expected depth of window.
Strip-in method

4. With backdam

**Step 5**
Install DELTA®-VENT SA membrane below window with cut-out minimum 8” (200 mm) above sill.

**Step 6**
Install sill membrane constructed from DELTA®-FLASHING. Lap over backdam and 2” (50 mm) onto face of wall. Use “baker’s pan fold” to create corner.

**Step 7**
Install gusset constructed from DELTA®-FLASHING membrane at sill/jamb corner to cover pinhole.

**Step 8**
Install sill membrane constructed from DELTA®-FLASHING. Lap over backdam, 2” (50 mm) onto corner flashing and 2” (50 mm) onto face of wall.
Step 9
Install jamb flashing constructed from DELTA®-FLASHING membrane at sill/jamb corner to cover gusset. Lap 2" (50 mm) onto sill and face of wall.

Step 10
Install pre-cut strip of DELTA®-VENT SA at jamb. Lap 12" (300 mm) onto face of wall at jamb and minimum 3" (75 mm) at head.

Step 11
Install DELTA®-FLEXX-BAND tape to seal at corner.

Step 12
Install DELTA®-VENT SA membrane at head of rough opening to provide continuity of WRB.
Strip-in method

4. With backdam

**Step 13**
Install DELTA®-MULTIBAND at overlaps to seal membrane and ensure continuity of air barrier.

**Step 14**
Install window shims in accordance with window manufacturer’s specifications, typically at quarter points of rough opening and under setting block locations for windows.

**Step 15**
Install DELTA®-TILAXX sealant at backdam to create airtight seal against window frame.

**Step 16**
Install window in accordance with manufacturer’s specifications. Generally the gap between window and rough opening should be around 1/2” (12 mm).
Install backer rod around the full perimeter of window. Install DELTA®-TILAXX sealant around perimeter of window in proper 2:1 joint profile (see Appendix, page 66).

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.

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

Prime substrate with DELTA®-ADHESIVE LVC before field application of DELTA®-VENT SA.

Install DELTA®-VENT SA membrane, minimum 6" (150 mm) vertical overlap.

Install DELTA®-MULTI-BAND tape at overlaps to seal membrane.*

* Not required where there is a self-adhered edge.
Strip-in method

4. With backdam

**Step 21**
Install metal flashing over window head. Use DELTA®-MULTI-BAND to seal top edge of flashing.

**Step 22**
Install DELTA®-VENT SA membrane. Lap minimum 4” (100 mm) onto lower membrane and onto flashing leg.

**Step 23**
Install DELTA®-MULTI-BAND at overlap to seal membrane and flashing. Provide a 3/4” (20 mm) reveal on face of flashing.

**Step 24**
Install vertical strapping for cladding attachment and to provide cavity for drainage and venting.
Install cladding and window trim.
Install sealant around perimeter of window frame, between trim and frame.

Install DELTA®-BUG SCREEN at cladding openings. Fasten in place with nails.

Install metal window sill flashing as part of water-shedding surface.
5. With DELTA®-FAS CORNER
Install DELTA®-FAS CORNERS.

Staple on vertical leg to temporarily hold in place.

Prime substrate with DELTA®-ADHESIVE LVC before applying DELTA®-VENT SA.

Install DELTA®-FAS CORNERS. Staple on vertical leg to temporarily hold in place.
Install DELTA®-MULTI-BAND gusset at jamb/sill corner to seal pinhole. Overlap onto face of wall.

Fold in membrane around header, sill and jamb.

Install DELTA®-VENT SA membrane over entire wall surface. X-cut the membrane.

Install DELTA®-FLASHING membrane at sill. Overlap 2” (50 mm) onto face of wall to provide sub-sill drainage.

Install DELTA®-MULTI-BAND gusset at jamb/sill corner to seal pinhole. Overlap onto face of wall.
Step 9: Install DELTA®-MULTI-BAND vertically to seal edge of corner and maintain air barrier continuity.

Step 10: Install DELTA®-MULTI-BAND diagonally to seal edge of membrane.


Step 12: Install DELTA®-MULTI-BAND vertically to seal edge of corner. Overlap onto header.
5. With DELTA®-FAS CORNER

**Step 13**
Install window shims in accordance with window manufacturer’s specifications, typically at quarter points of rough opening and under setting block locations for window.

**Step 14**
Install window in accordance with manufacturer’s specifications. Generally the gap between window and rough opening should be around 1/2” (12 mm).

**Step 15**
Install backer rod around the full perimeter of window. Install DELTA®-TILAXX sealant around perimeter of window in proper 2:1 joint profile (see Appendix, page 66).

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.

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

**Step 16**
Install metal flashing at window head. Seal with DELTA®-MULTI-BAND tape.
Install vertical strapping for cladding attachment and to provide cavity for drainage and venting.

Install DELTA®-BUG SCREEN at cladding openings. Fasten in place with nails.

Install cladding and window trim. Install sealant around perimeter of window frame, between trim and frame.
Cut-out method

6. With flat sill

- **DELTA®-VENT SA**
- **DELTA®-BUG SCREEN**
- **Metal head flashing with drip edge**
- **Window trim**
- **Metal sill flashing with drip edge**
- **Cladding**
- **Structural framing**
- **Sheathing**
- **DELTA®-ADHESIVE LVC**
- **DELTA®-MULTI-BAND**
- **Window shims**
- **Backer rod and DELTA®-TILAXX sealant**
Install DELTA®-VENT SA membrane over entire wall surface. X-cut the membrane.

Step 1: Framing

Step 2: Sheathing

Step 3: Prime substrate with DELTA®-ADHESIVE LVC before applying DELTA®-VENT SA.

Step 4: Install DELTA®-VENT SA membrane over entire wall surface. X-cut the membrane.
Cut-out method

6. With flat sill

**Step 5**
Fold in membrane around header, sill and jamb.

**Step 6**
Install DELTA®-FLASHING sill membrane. Ensure a minimum 2" (50 mm) lap onto face of wall and up jamb.

**Step 7**
Install dart-shaped gusset constructed from DELTA®-FLASHING at jamb/sill corner. Ensure 2" (50 mm) minimum lap onto face of wall.

**Step 8**
Install corner membrane constructed from DELTA®-FLASHING at jamb/sill corner.
Install DELTA®-MULTI-BAND to seal edge at header. Lap 2" (50 mm) onto face of wall.

Install DELTA®-MULTI-BAND to seal membrane lap and ensure continuity of air barrier.

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 DELTA®-MULTI-BAND gusset at jamb/head corner. Seal face end of gusset with DELTA®-MULTI-BAND.
Cut-out method

6. With flat sill

**Step 13**
Install backer rod around the full perimeter of window. Install DELTA®-TILAXX sealant around perimeter of window in proper 2:1 joint profile (see Appendix, page 66).

**Step 14**
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.

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

**Step 15**
Install metal flashing at window head. Seal with DELTA®-MULTI-BAND tape.

**Step 16**
Install vertical strapping for cladding attachment and to provide cavity for drainage and venting.
Install cladding and window trim.

Install sealant around perimeter of window frame, between trim and frame.

Install metal window sill flashing as part of water-shedding surface.

Install DELTA®-BUG SCREEN at cladding openings. Fasten in place with nails.
7. With sloped sill

- Structural framing
- Sheathing
- DELTA®-ADHESIVE LVC
- DELTA®-MULTI-BAND
- Metal head flashing with drip edge
- Window trim
- Metal sill flashing with drip edge
- Cladding
- Window shims
- Backer rod and DELTA®-TILAXX sealant
- Sloped window sill
Install DELTA®-VENT SA membrane over entire wall surface. X-cut the membrane.

Step 1

Framing

Step 2

Sheathing

Step 3

Prime substrate with DELTA®-ADHESIVE LVC before applying DELTA®-VENT SA.

Step 4

Install DELTA®-VENT SA membrane over entire wall surface. X-cut the membrane.
Fold in membrane around header, sill and jamb.

Install dart-shaped gusset constructed from DELTA®-FLASHING at jamb/sill corner. Ensure 2” (50 mm) minimum lap onto face of wall.

Install DELTA®-FLASHING sill membrane. Ensure minimum 2” (50 mm) lap onto face of wall and up jamb.

Install dart-shaped gusset constructed from DELTA®-FLASHING at jamb/sill corner. Ensure 2” (50 mm) minimum lap onto face of wall.

Install corner membrane constructed from DELTA®-FLASHING at jamb/sill corner.
Install DELTA®-MULTI-BAND to seal membrane lap and ensure continuity of air barrier.

Install DELTA®-MULTI-BAND to seal edge at header. Lap 2” (50 mm) onto face of wall.

Install DELTA®-MULTI-BAND gusset at jamb/head corner. Seal face end of gusset with DELTA®-MULTI-BAND.

Install sloped window shims in accordance with window manufacturer’s specifications, typically at quarter points of rough opening and under setting block locations for window.
Cut-out method

7. With sloped sill

**Step 13**
Install backer rod around the full perimeter of window. Install DELTA®-TILAXX sealant around perimeter of window in proper 2:1 joint profile (see Appendix, page 66).

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.

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

**Step 14**
Install window in accordance with manufacturer’s specifications. Generally the gap between window and rough opening should be around 1/2" (12 mm).

**Step 15**
Install metal flashing at window head. Seal with DELTA®-MULTI-BAND tape.

**Step 16**
Install vertical strapping for cladding attachment and to provide cavity for drainage and venting.
Step 17
Install cladding and window trim.
Install sealant around perimeter of window frame, between trim and frame.

Step 18
Install metal window sill flashing as part of water-shedding surface.

Step 19
Install DELTA®-BUG SCREEN at cladding openings. Fasten in place with nails.
Cut-out method

8. With backdam

- **DELTA®-VENT SA**
- **Structural framing**
- **Sheathing**
- **DELTA®-ADHESIVE LVC**
- **DELTA®-MULTI-BAND**
- **Metal head flashing with drip edge**
- **Window trim**
- **Metal sill flashing with drip edge**
- **Cladding**
- **Window shims**
- **Backdam (sill angle)**
Install DELTA®-VENT SA membrane over entire wall surface. X-cut the membrane.

Prime substrate with DELTA®-ADHESIVE LVC before applying DELTA®-VENT SA.
Cut-out method

8. With backdam

**Step 5**

Fold in membrane around header, sill and jamb.

**Step 6**

Install backdam.

**Step 7**

Install corner flashing constructed from DELTA® FLASHING membrane at sill/jamb. Lap over backdam and 2" (50 mm) onto face of wall. Use "baker’s pan fold" to create corner.

**Step 8**

Install dart-shaped gusset constructed from DELTA® FLASHING at jamb/sill corner. Ensure 2" (50 mm) minimum lap onto face of wall.
Step 9
Install sill membrane from DELTA®-FLASHING. Lap over backdam, 2” (50 mm) onto corner flashing and 2” (50 mm) onto face of wall.

Step 10
Install jamb flashing constructed from DELTA®-FLASHING membrane at sill/jamb corner to cover gusset. Lap 2” (50 mm) onto sill and face of wall. Seal reverse lap with DELTA®-MULTI-BAND.

Step 11
Install DELTA®-MULTI-BAND to seal edge at header. Lap 2” (50 mm) onto face of wall.

Step 12
Install DELTA®-MULTI-BAND gusset at jamb/head corner. Seal face end of gusset with DELTA®-MULTI-BAND.
Install backer rod around the full perimeter of window. Install DELTA®-TILAXX sealant around perimeter of window in proper 2:1 joint profile (see Appendix, page 66).

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

Install sealant around perimeter of window frame, between trim and frame.

Install metal window sill flashing as part of water-shedding surface.

Install DELTA®-BUG SCREEN at cladding openings. Fasten in place with nails.

Install vertical strapping for cladding attachment and to provide cavity for drainage and venting.

Install cladding and window trim. Install sealant around perimeter of window frame, between trim and frame.
Assuring an air-tight building enclosure

Using DELTA®-VENT SA to create an energy-efficient and air-tight building is a great choice. Choosing premium DELTA® Air Barrier System Components will help complete the job to meet the highest standards.

The secret to ensuring the overall effectiveness of an air barrier system is in the details, such as sealing windows, doors and penetrations. Proper attention to details is critically important to achieve an air-tight assembly. All components must be interconnected to successfully resist air and water infiltration, and turn individual materials, components and assemblies into a complete Air Barrier System.

DELTA®-Accessories are exhaustively tested for compatibility. Together they assure superior performance in air-tight building enclosures.

DELTA®-FLASHING is a best-in-class self-adhering membrane used to flash around window and door openings. Cut in practical and convenient widths, it provides superior long-term protection against air and water leaks.

DELTA®-MULTI-BAND is a very tough and durable seam tape with an aggressive pure acrylic adhesive. It is suitable for use at end and side laps or other detail areas. It sticks tenaciously to DELTA®-VENT SA as well as all other common construction substrates like OSB, plywood, metal, glass, etc.

DELTA®-FLEXX-BAND is a two-ply stretchable tape with a premium butyl rubber adhesive for use at penetrations such as service pipes, arched windows, window flanges, corners and joints. It is formed easily by hand into irregularly-shaped areas, forming a tight bond to wood, vinyl, metal and other common building materials.

DELTA®-FAS CORNER is a unique preformed corner for sealing windows and doors in air- and water-tight construction. Both durable and UV resistant, it provides top performance in detailing energy-efficient enclosures. DELTA®-FAS CORNER is easy to use and saves both time and labor during installation.

DELTA®-THAN is a permanently elastic adhesive and sealant made with a special rubber compound. It is ideal for sealing around penetrations, terminations, etc.

DELTA®-TILAXX is a high quality permanently elastic adhesive and sealant for durable air-tight bonding to all common construction surfaces where moderate movement of components is expected.

DELTA®-LIQUIXX is a revolutionary fluid-applied flashing membrane with low vapor permeability. It is ideal for completing the air barrier continuity around difficult configurations and complex details. It may also be used to seal window openings.

DELTA®-ADHESIVE LVC is a low solvent surface conditioner. It consolidates surface dust on dirty construction site substrates, assuring reliable long-term air-tight adhesion for DELTA®-VENT SA.

The comprehensive line of DELTA®-Accessories by Dörken delivers complete solutions for energy-efficient and durable building enclosures.
## DELTA® Air Barrier System Components

<table>
<thead>
<tr>
<th>DELTA®-FLASHING</th>
<th>DELTA®-MULTI-BAND</th>
<th>DELTA®-FLEXX-BAND</th>
<th>DELTA®-FAS CORNER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Premium self-adhesive flashing membrane with aggressive tack.</strong></td>
<td><strong>Universal adhesive tape that sticks tenaciously and is highly resistant to aging.</strong></td>
<td><strong>Stretchable butyl-rubber compound tape with special carrier membrane.</strong></td>
<td><strong>Flexible pre-fabricated window corner. Permanently UV resistant.</strong></td>
</tr>
<tr>
<td><strong>Recommended Use</strong></td>
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<tr>
<td>■ For flashing of window and door openings.</td>
<td>■ For all DELTA® membranes to seal laps and penetrations.</td>
<td>■ Stretchable flashing for details and penetrations.</td>
<td>■ Provides reliable air- and water-tight window details.</td>
</tr>
<tr>
<td><strong>Surface temperature</strong></td>
<td><strong>Surface temperature</strong></td>
<td><strong>Surface temperature</strong></td>
<td><strong>Temperature Range</strong></td>
</tr>
<tr>
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<tr>
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<td><strong>Size</strong></td>
<td><strong>Size</strong></td>
<td><strong>Measurements</strong></td>
</tr>
<tr>
<td>Width: 6&quot; (15.25 cm), 9&quot; (23 cm)</td>
<td>Width: 2 3/8&quot; (6 cm), 4&quot; (10 cm)</td>
<td>Width: 4&quot; (10 cm)</td>
<td>7&quot; x 7&quot; x 4&quot;</td>
</tr>
<tr>
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<td>DELTA-LIQUIXX</td>
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</tbody>
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**Recommended Use**
- **DELTA-THAN**: For sealing and adhering of DELTA membranes.
- **DELTA-TILAXX**: Provides greater security in detail areas.
- **DELTA-LIQUIXX**: Suitable for areas with minimal movement of components.
- **DELTA-ADHESIVE LVC**: For air-tight connection of complex details and air barrier continuity.
- **DELTA-ADHESIVE LVC**: Suitable for all common construction surfaces.

**Recommended Use**
- **DELTA-THAN**: For durable air-tight bonding to all common construction surfaces where moderate movement of components is expected.
- **DELTA-TILAXX**: Suitable for sealing of openings around windows (installed with backer rod).
- **DELTA-LIQUIXX**: Consolidates surface dust on dirty construction site substrates assuring reliable long-term air-tight adhesion.
- **DELTA-ADHESIVE LVC**: Compliant with OTC rules for industrial adhesives and sealants and California South Coast Rule 1168.

**Application Conditions**
- **DELTA-THAN**: Open time: 30 minutes at min. +41 °F (+5 °C)
- **DELTA-TILAXX**: Open time: 30 minutes at min. +41 °F (+5 °C)
- **DELTA-LIQUIXX**: Open time: 3 - 4 hours at +70 °F (+21 °C) and 45 % RH
- **DELTA-ADHESIVE LVC**: Surface temperature Application conditions: min. +25 °F (-4 °F)
  - Recommended storage: min. 32 °F (0 °C)

**Application Rate**
- **DELTA-THAN**: Approx. 23' (7 linear m) per cartridge
- **DELTA-TILAXX**: Approx. 23' (7 linear m) per cartridge
- **DELTA-LIQUIXX**: Approx. 2.8 fl.oz/sqft (0.9 l/sqm)
- **DELTA-ADHESIVE LVC**: Up to 250 sqft/gal (6.13 sqm/l) depending on porosity and texture of surface

**Temperature Range**
- **DELTA-THAN**: -22 °F to +176 °F (-30 °C to +80 °C)
- **DELTA-TILAXX**: -22 °F to +176 °F (-30 °C to +80 °C)
- **DELTA-LIQUIXX**: -22 °F to +176 °F (-30 °C to +80 °C)
- **DELTA-ADHESIVE LVC**: -40 °F to +176 °F (-40 °C to +80 °C)

**Size**
- **DELTA-THAN**: 10.5 fl.oz (310 ml)
- **DELTA-TILAXX**: 10.5 fl.oz (310 ml)
- **DELTA-LIQUIXX**: 0.66 gal/pail (2.5 l/pail)
- **DELTA-ADHESIVE LVC**: 4.5 gal (17 l)
Appendix

2:1 Joint Profile

Recommended 2:1 Window Joint Profile
About Dörken
Dörken delivers innovative, premium quality products to the construction market.
A North American manufacturer based out of Beamsville, Ontario, Dörken Systems Inc. is a subsidiary of the Dörken Group, a leading European developer and manufacturer of waterproofing and drainage products sold worldwide. Other top-performing WRBs from Dörken include DELTA®-MAXX, DELTA®-FOXX and DELTA®-VENT S.

For more information, call 1-888-4DELTA4 (433-5824) or visit www.dorken.com