

Installation Guide DELTA®-VENT SA





Flashing Systems for

FLANGE WINDOWS

www.dorken.com March 2016 Edition

Dörken – Leading Through Technical Competence

Dörken Systems Inc. (ISO 9001-2008) is a subsidiary of the Dörken Group that has over 100 years of experience in the construction industry. Developed from innovative ideas and manufactured on state-of-the-art production lines, the premium quality products for moisture management in building enclosures set standards for reliability, durability, and energy savings. Located in Beamsville, Ontario, Canada, Dörken provides customized solutions and products of outstanding quality. Dörken Systems Inc. is and always will be a trustworthy and highly respected partner for designers, architects, distributors and installers.

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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-bystep sequence for all installations. There are several options for these installation sequences. The window manufacturer's specifications, and architectural considerations, such as flashing and trim will vary.

All installations, regardless of variations, will follow the same fundamental approach.

The membrane's primary purpose is to function as a vapor permeable water-resistive 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.













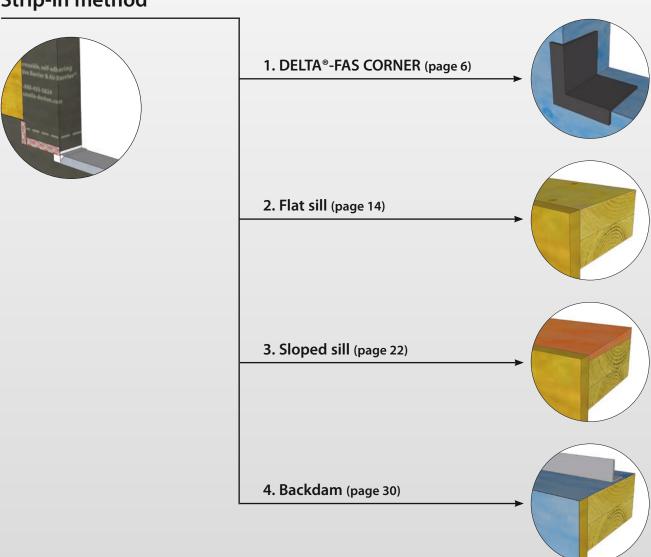
Method Selection Guide

Strip-in methods for flange windows

Flange Windows

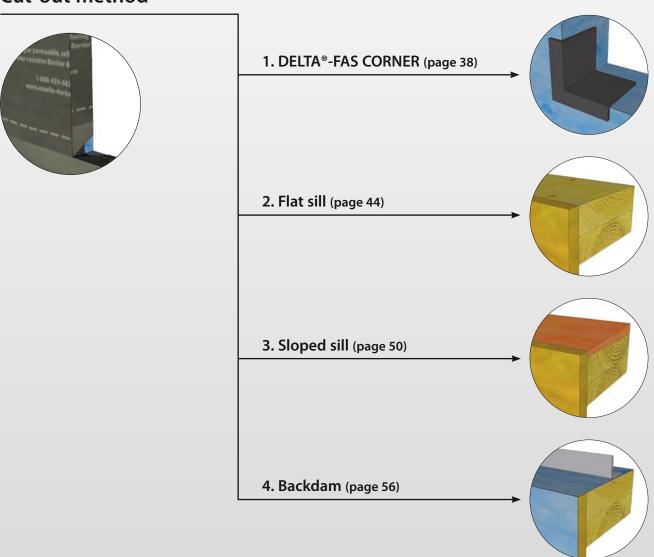


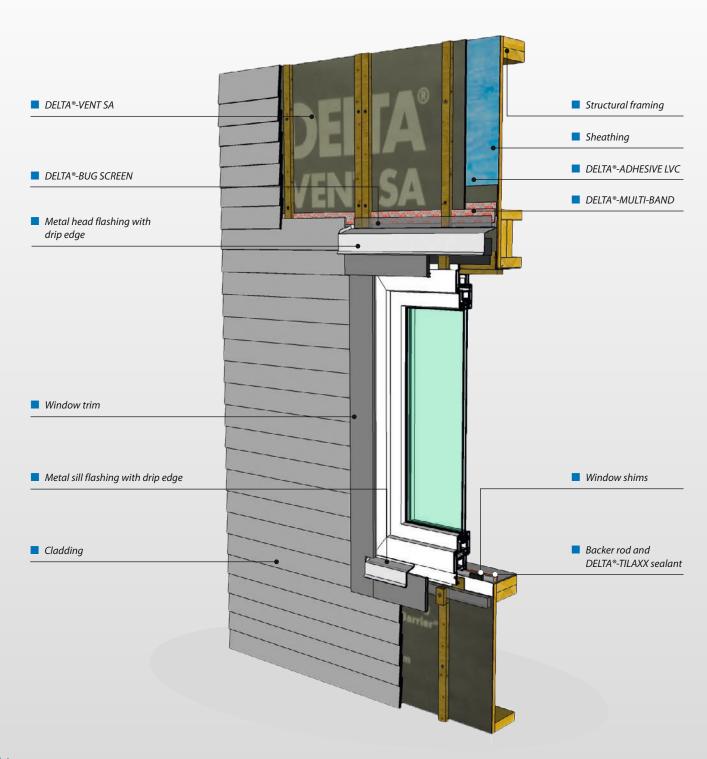
Strip-in method



Cut-out methods for flange windows

Cut-out method





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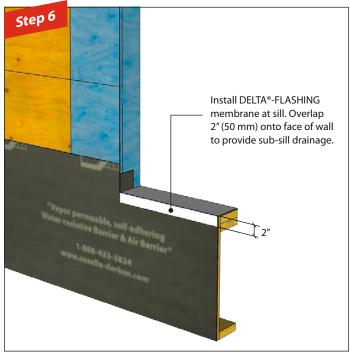


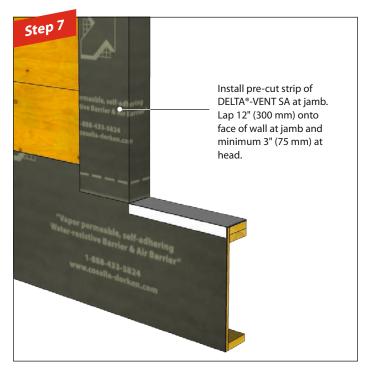






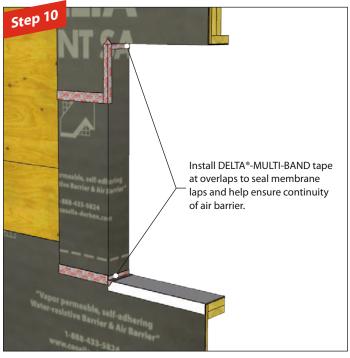


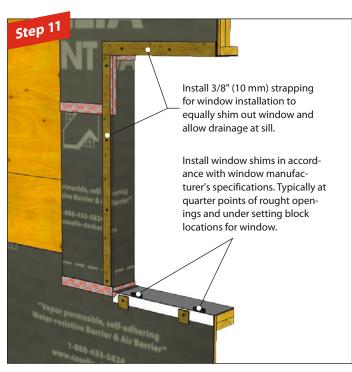




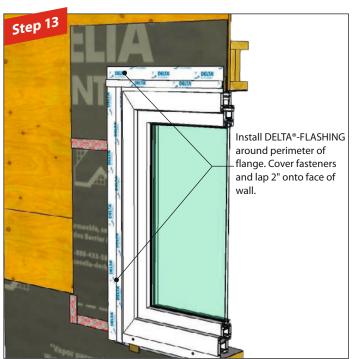


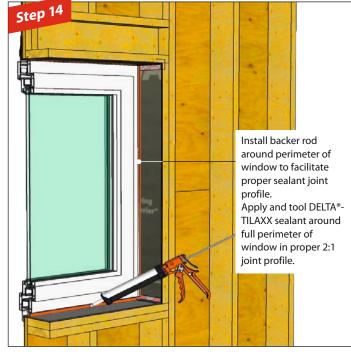






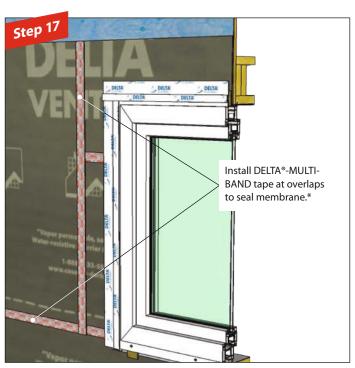




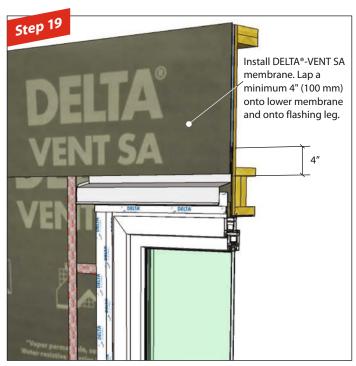


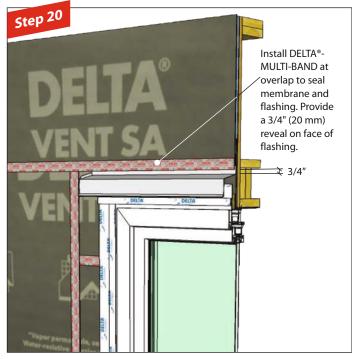










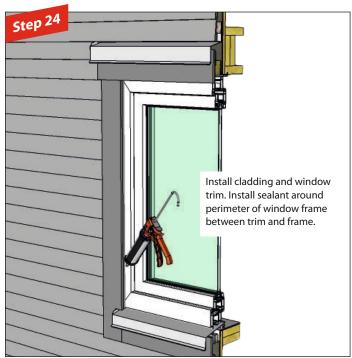


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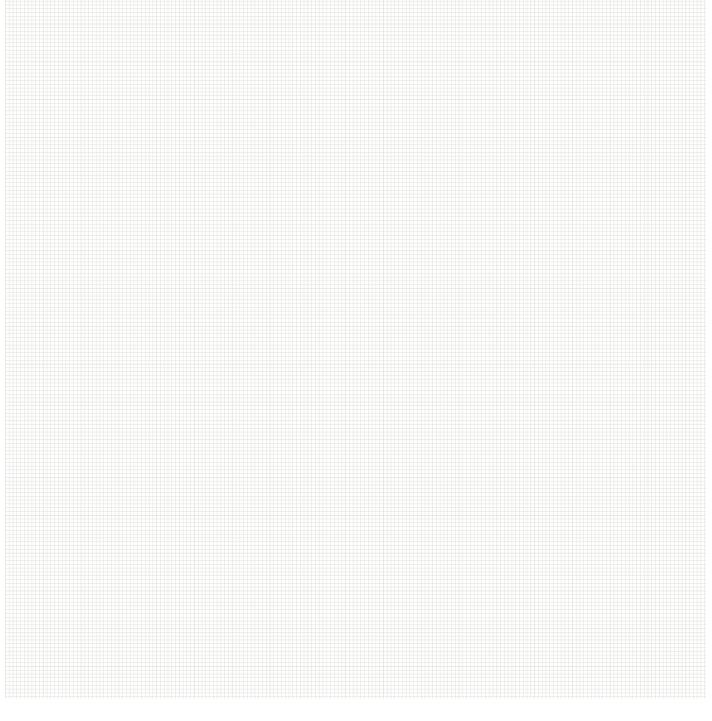








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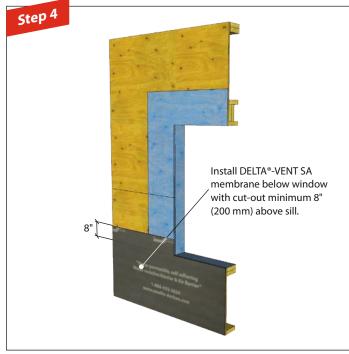


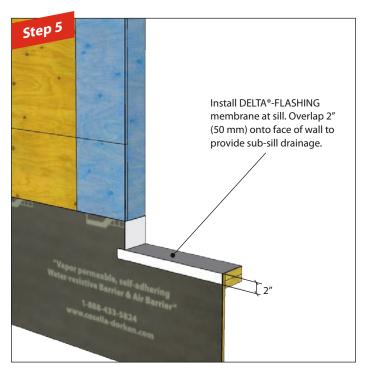


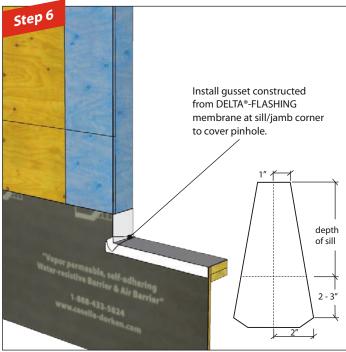


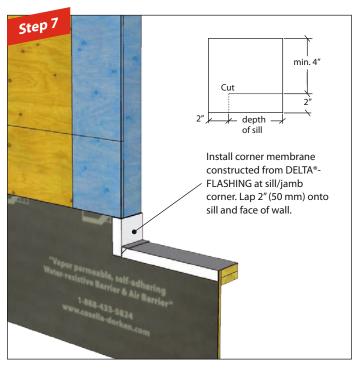










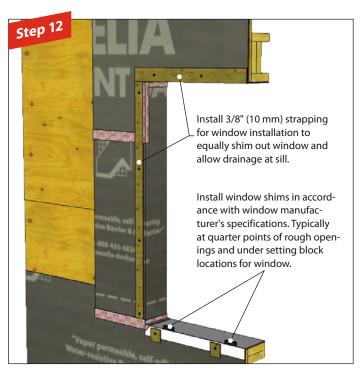










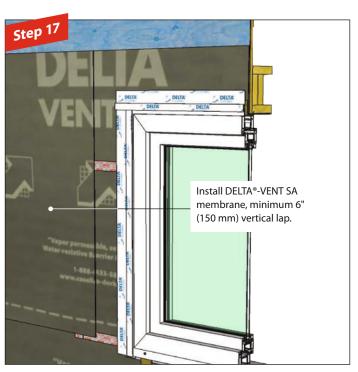


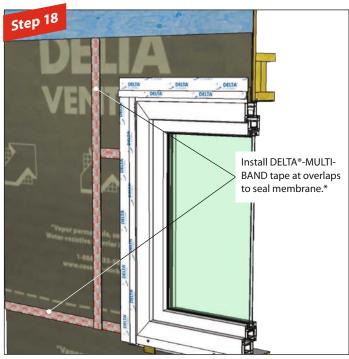


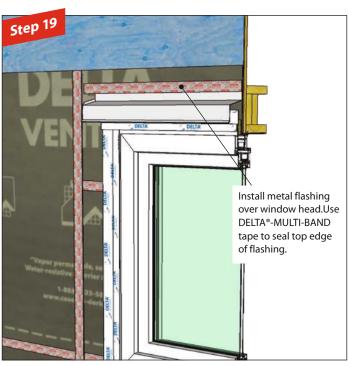


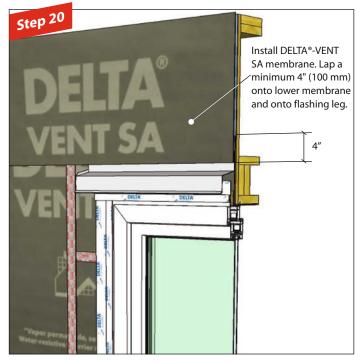




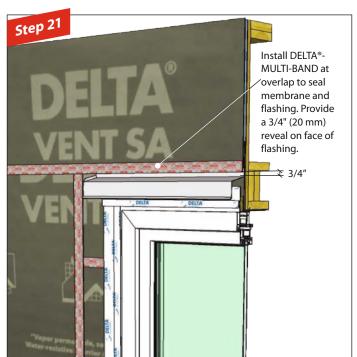








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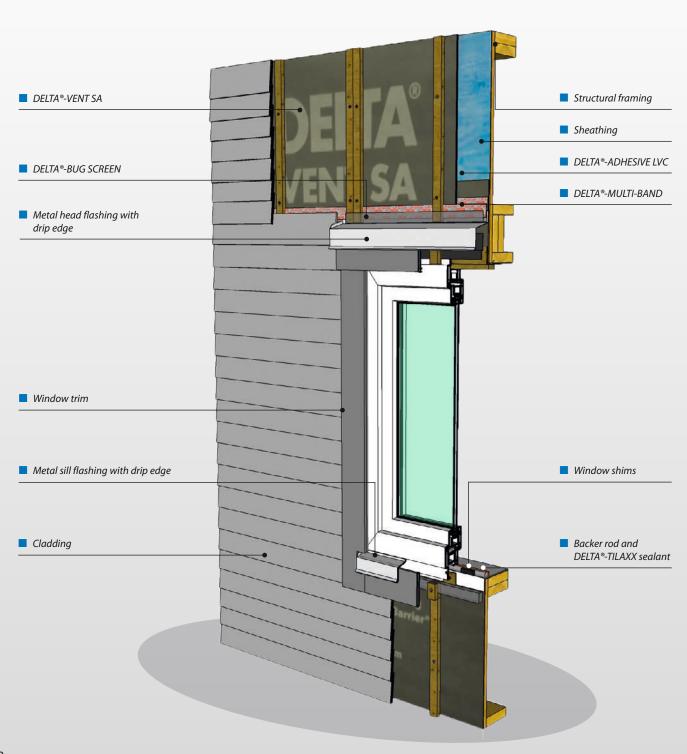






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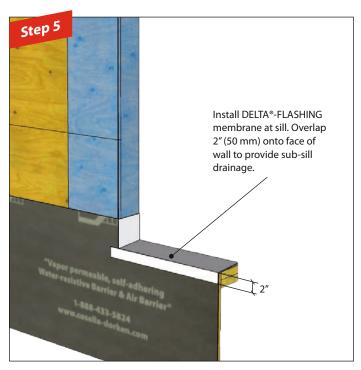


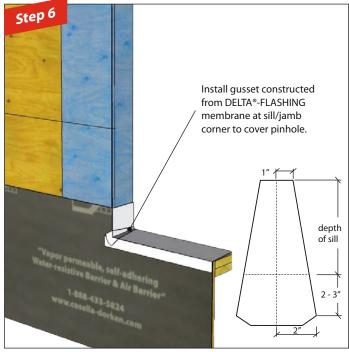


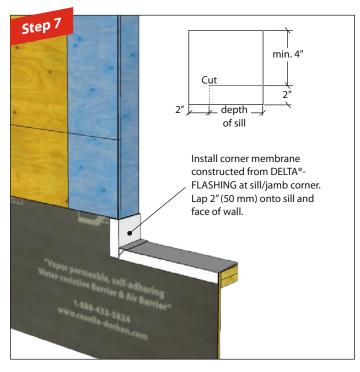








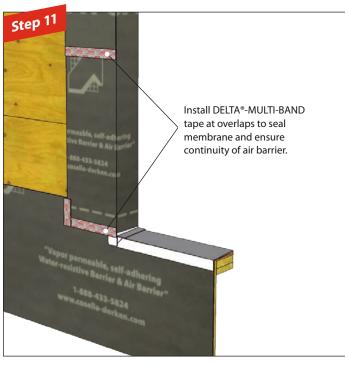






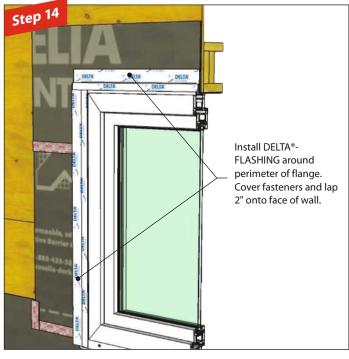






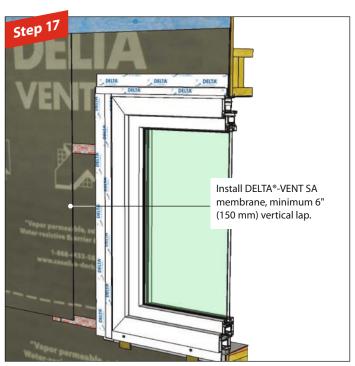




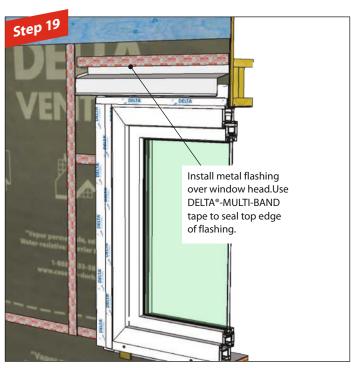


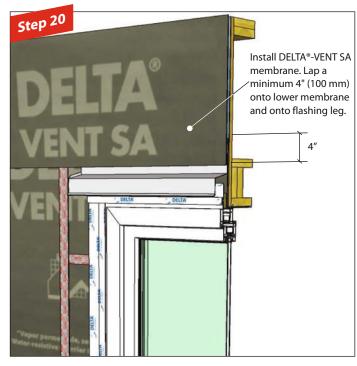




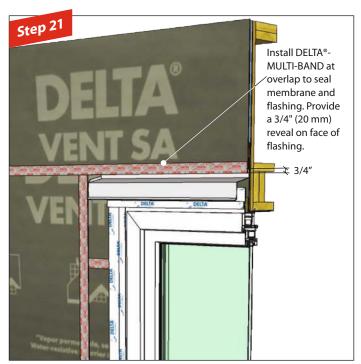








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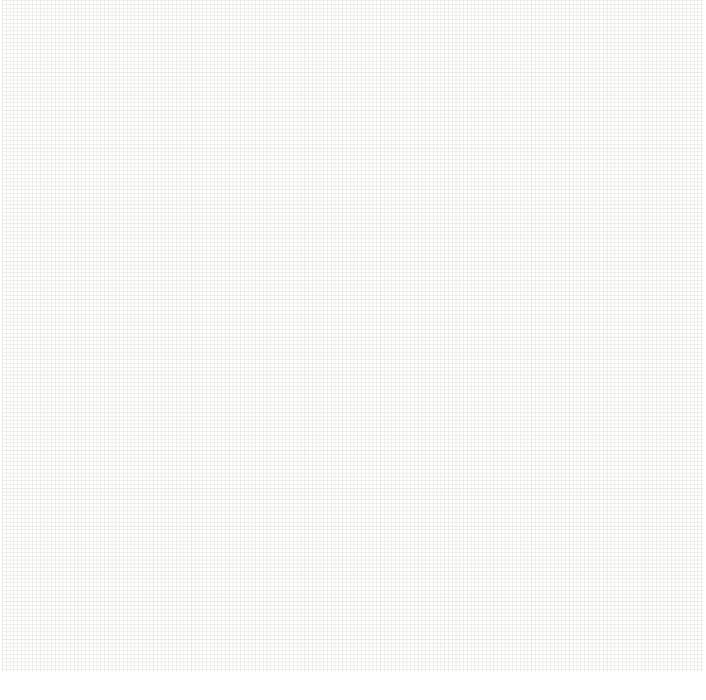








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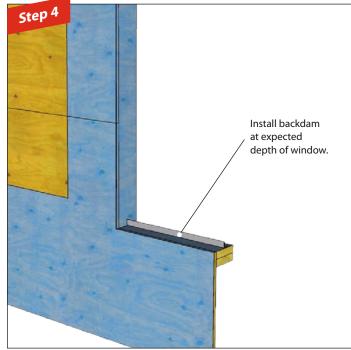


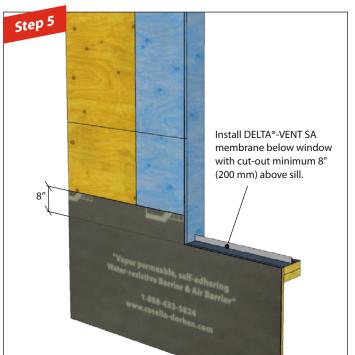


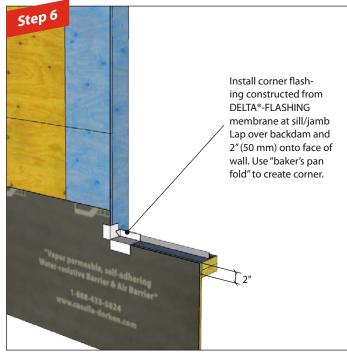


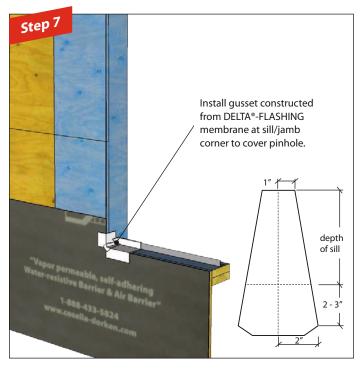


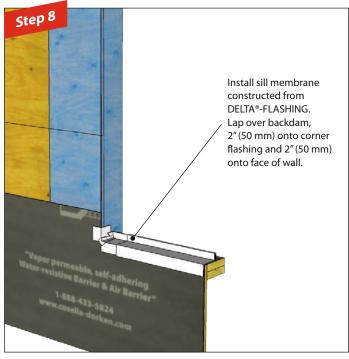


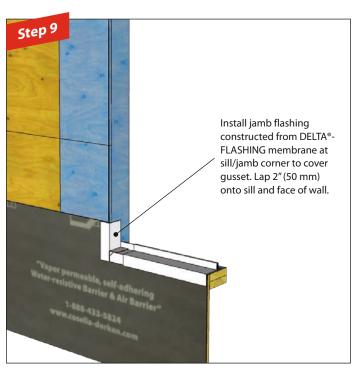


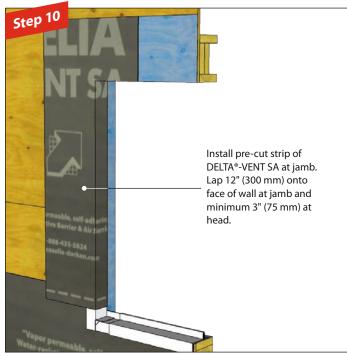


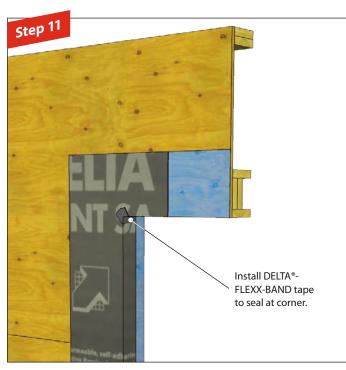


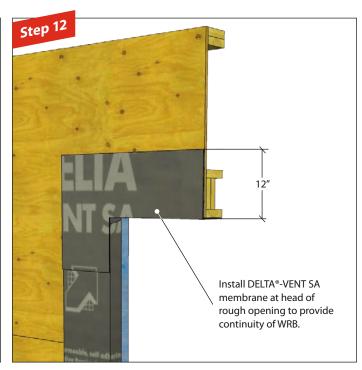






















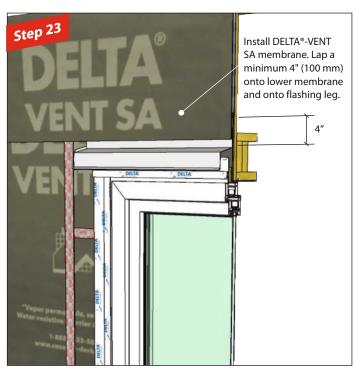


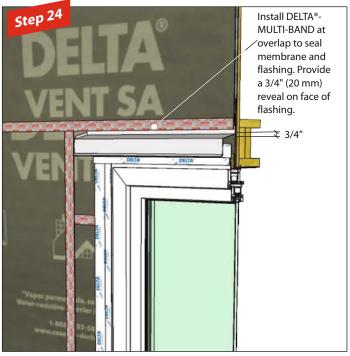












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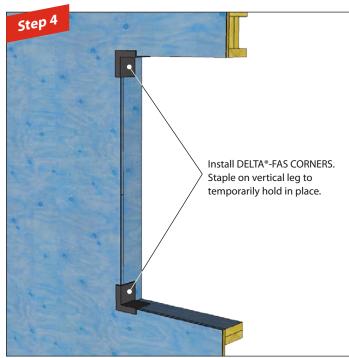
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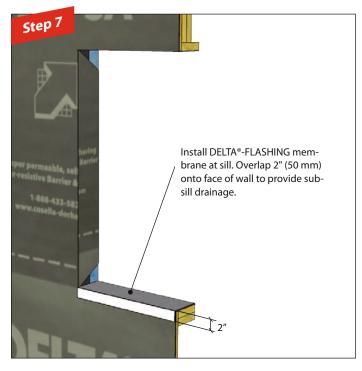


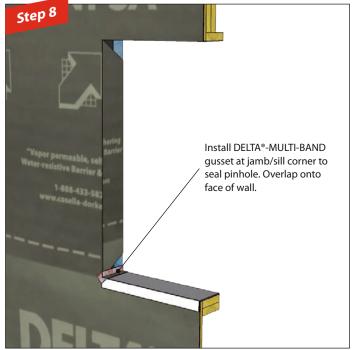


5. With DELTA®-FAS CORNER









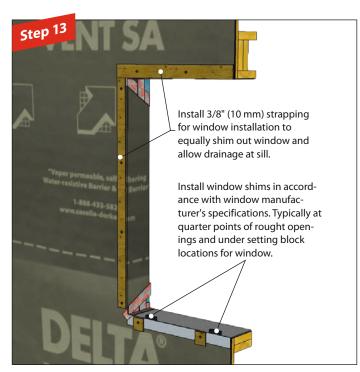






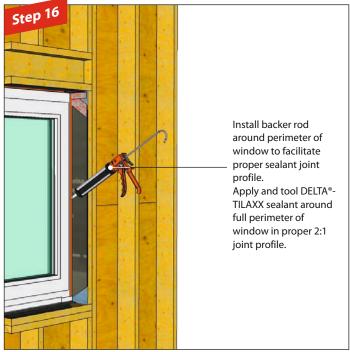


5. With DELTA®-FAS CORNER









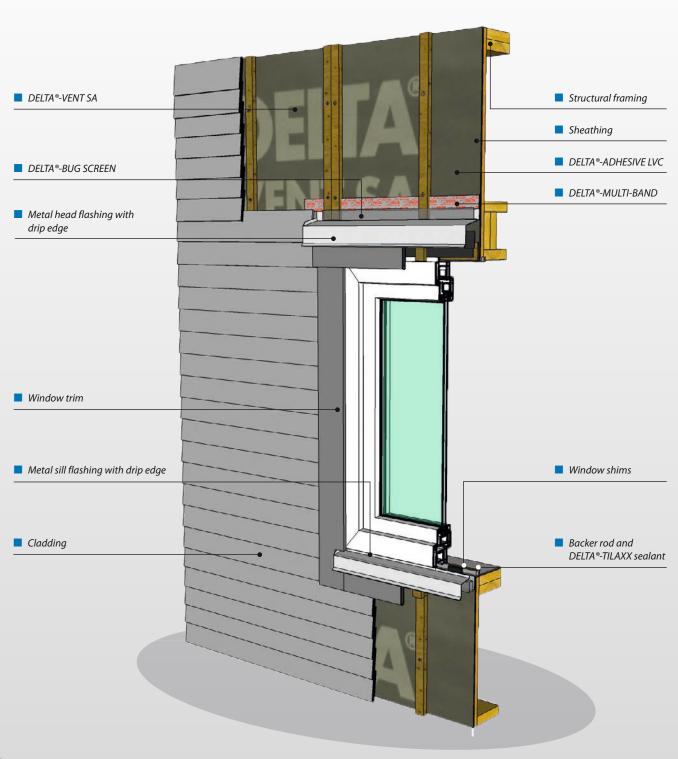








6. With flat sill









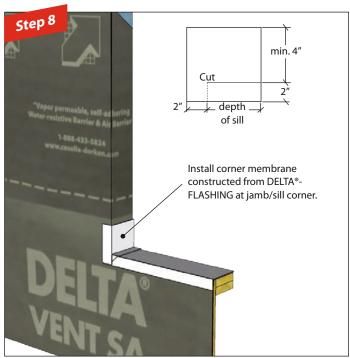


6. With flat sill













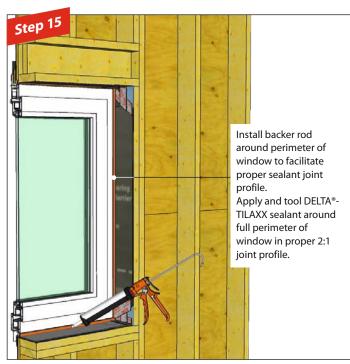




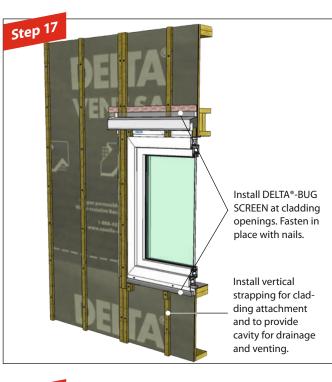
6. With flat sill







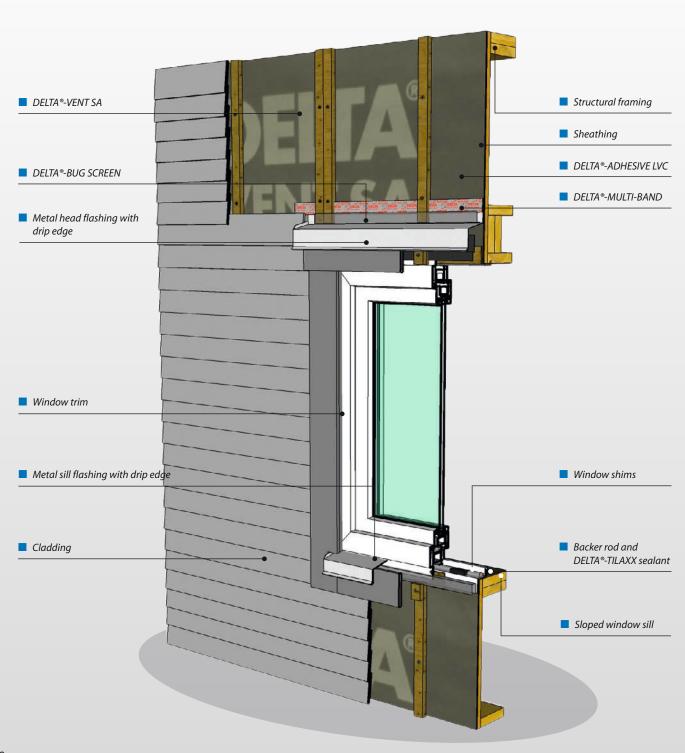








7. With sloped sill





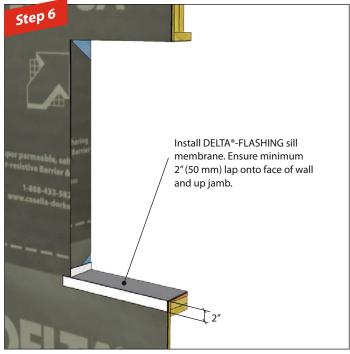




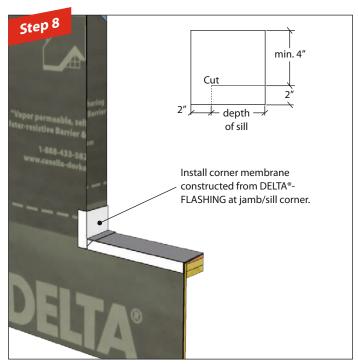


7. With sloped sill





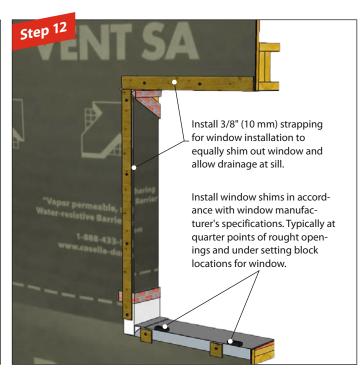












7. With sloped sill

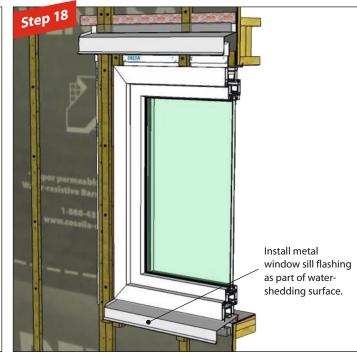














8. With backdam







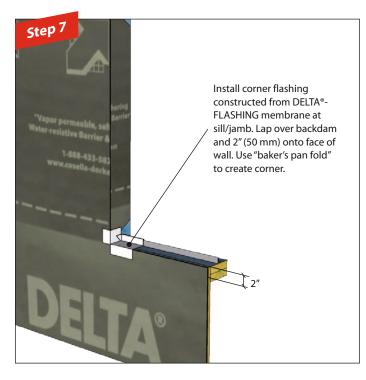




8. With backdam

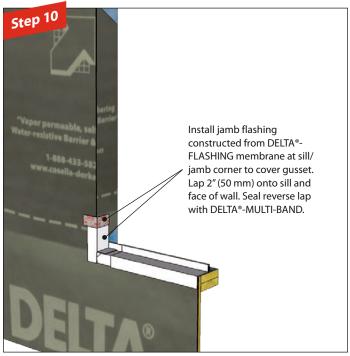








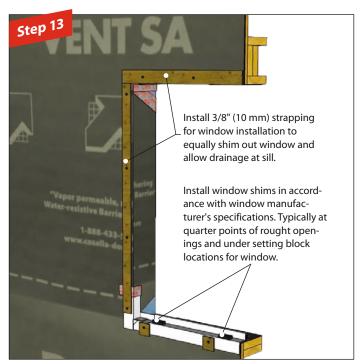


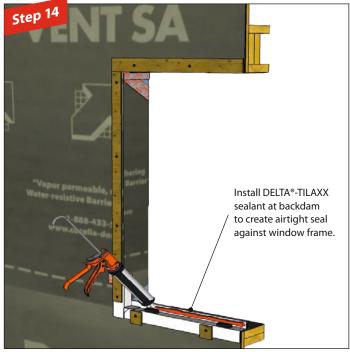






8. With backdam











Install backer rod around perimeter of window to facilitate proper sealant joint profile.

Apply and tool DELTA*-TILAXX sealant around full perimeter of window in proper 2:1 joint profile.







DELTA® Accessories

DELTA® Air Barrier System Components

Assuring an air-tight building enclosure

Using DELTA®-VENT SA to create an energyefficient 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 airand 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 fluidapplied 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.

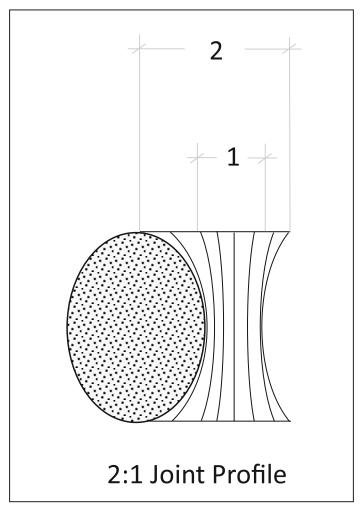


DELTA® Air Barrier System Components

DELTA FLASHING	DELTA System OPETA System OP	PELTA BURNESS OF THE PERSON OF	
DELTA®-FLASHING	DELTA°-MULTI-BAND	DELTA°-FLEXX-BAND	DELTA°-FAS CORNER
Premium self-adhesive flashing membrane with aggressive tack.	Universal adhesive tape that sticks tenaciously and is highly resistant to aging.	Stretchable butyl-rubber compound tape with special carrier membrane.	Flexible pre-fabricated window corner. Permanently UV resistant.
Recommended Use For flashing of window and door openings.	Recommended Use For all DELTA® membranes to seal laps and penetrations.	Recommended Use Stretchable flashing for details and penetrations. Pre-stretch where required.	Recommended Use Provides reliable air- and water-tight window details.
Surface temperature min. +41 °F (+5 °C) Recommended storage: room temperature	Surface temperature min. +41 °F (+5 °C) Recommended storage: room temperature	Surface temperature min. +41 °F (+5 °C) Recommended storage: room temperature	-
Temperature Range -40 °F to +176 °F (-40 °C to +80 °C)	Temperature Range -40 °F to +176 °F (-40 °C to +80 °C)	Temperature Range -40 °F to +176 °F (-40 °C to +80 °C)	Temperature Range -40 °F to +176 °F (-40 °C to +80 °C)
Size Width: 6" (15.25 cm), 9" (23 cm) Length: 75' (22.85 m)	Size Width: 2 3/8" (6 cm), 4" (10 cm) Length: 82' (25 m)	Size Width: 4" (10 cm) Length: 33' (10 m)	Measurements 7" x 7" x 4" (18 cm x 18 cm x 10 cm)

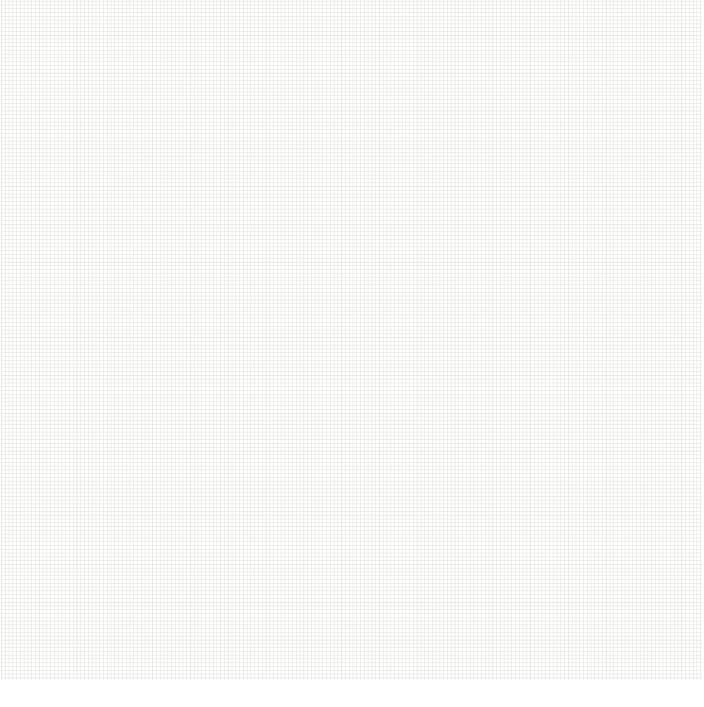


Appendix



Recommended 2:1 Window Joint Profile

Notes



Dörken delivers innovative, premium quality products to the construction market. A North American manufacturer based out of 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

DELTA®



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