

Assembly

Replaceable Deck Sill Door System Assembly Instructions

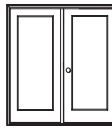
These instructions apply to the following door systems:



Single Doors



*Single & Double
Continuous Sidelite Units*



*French &
Patio Units*

Notes:

1. This instruction applies to both inswing and outswing doors, except where noted inswing is shown.
2. For caulking requirements Endura recommends (a) polymer based sealant, such as Bostik Pro-MS 50, (b) polyurethane sealant, or (c) 100% silicone.

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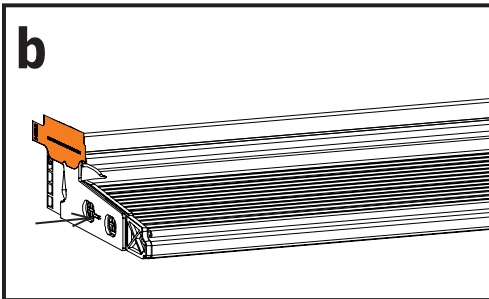
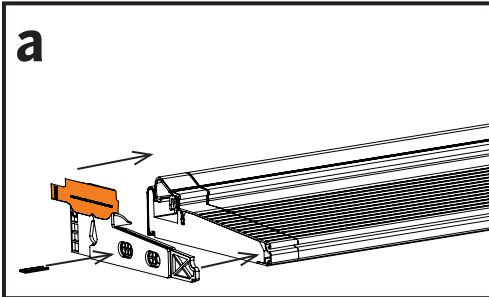
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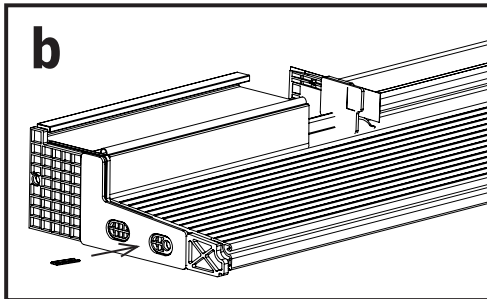
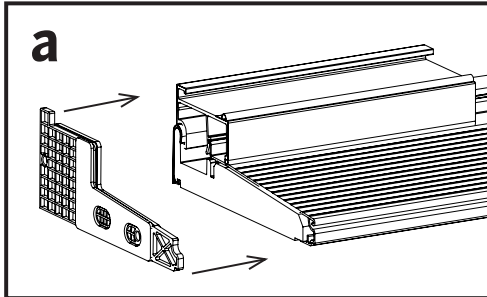
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1.800.334.2006 www.enduraproducts.com

Step 1: Check Installation of Z-End Bases (Z-Articulating Cap Sills Only)**Single, French Sills, Sidelite & Hinged Patio Sills****Installing the Z-End Base**

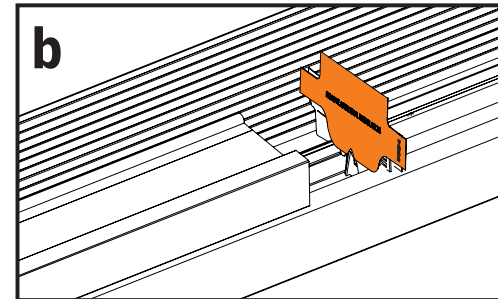
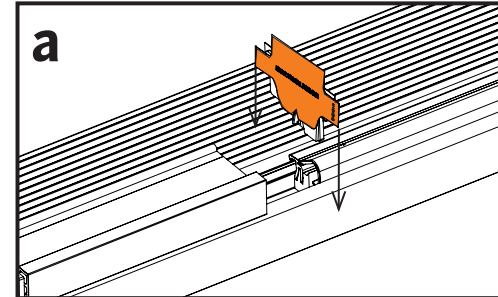
- a. Align the Z-End Base with the end of the sill and Z-Articulating Cap then attach.
- b. Secure Z-End Base to the sill with staples. Repeat at other end of sill if no Sidelite Cap is present.

**Sidelite & Hinged Patio Sills****Installing the Z-End Base Sidelite Gasket**

- a. Align the Z-End Base Sidelite Gasket with the end of the sill and Sidelite Cap then attach.
- b. Secure Z-End Base Sidelite Gasket to sill with staples. Repeat at other end of sill if a Sidelite Cap is present.

**Installing the Z-End Base Mull Stiffener**

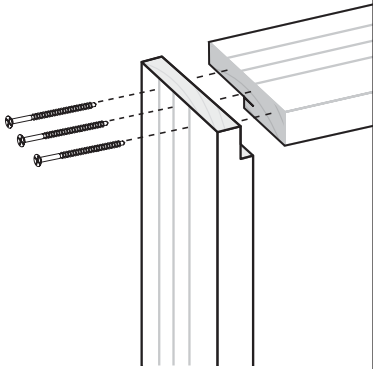
- a. Insert the Z-End Base Mull Stiffener into the sill channel between the Z-Articulating Cap and Sidelite Seat.
- b. Ensure that the Z-End Base Mull Stiffener contacts the end of the Z-Articulating Cap. Repeat at the other end of the cap if necessary.



Step 2: Assemble the Frame and Mull at the Header

For All Door Units
Jamb to Header

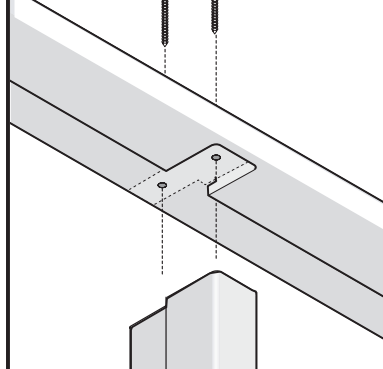
3 fasteners



Use (3) #8 x 1-5/8" or longer screws to attach the jamb to the header.
Optional fastener type: 16 ga, 7/16" x 2" crown staple.

For Sidelite/ Patio Door Units Only
Mull to Header

2 fasteners

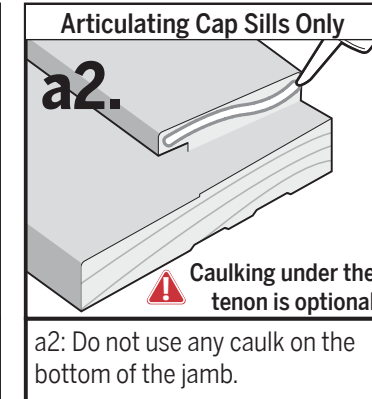
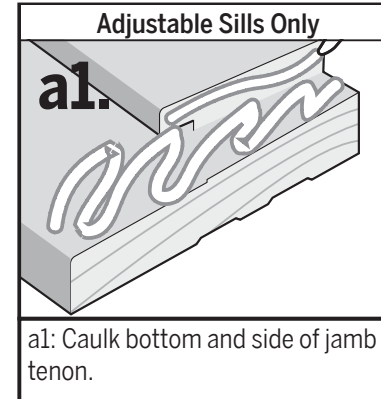


Use (2) #8 x 3" screws to attach mull to header.

Note: (3) fasteners are required in mull for high wind zone applications.

Step 3: Assemble the Frame at the Sill

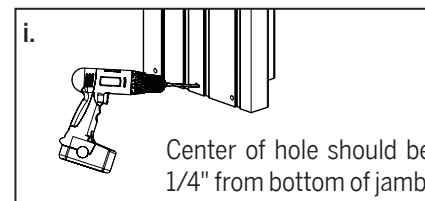
For All Door Units
a. Caulk components.



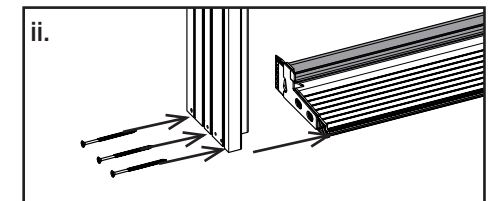
Note: Assembly applies to both Adjustable and Z- Articulating Cap Sills.

b. Secure jamb to sill.

OPTION 1:



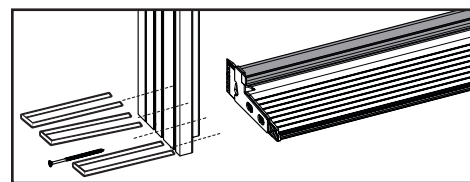
i. Pre-drill holes using a 1/16" bit for the screws to prevent the jamb from splitting.



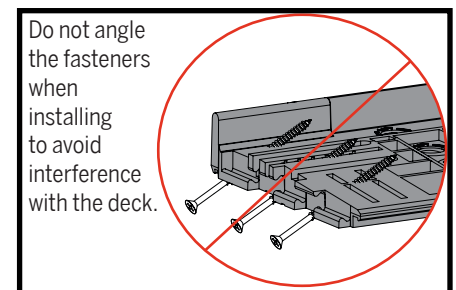
ii. Using (3) #8 x 1-5/8" or longer screws, secure jamb to sill. If installing the upgraded RDS, (3) #8 x 3" drywall screws must be used.

! Ensure the holes are close to the bottom of the jamb to avoid interfering with the deck.

OPTION 2:



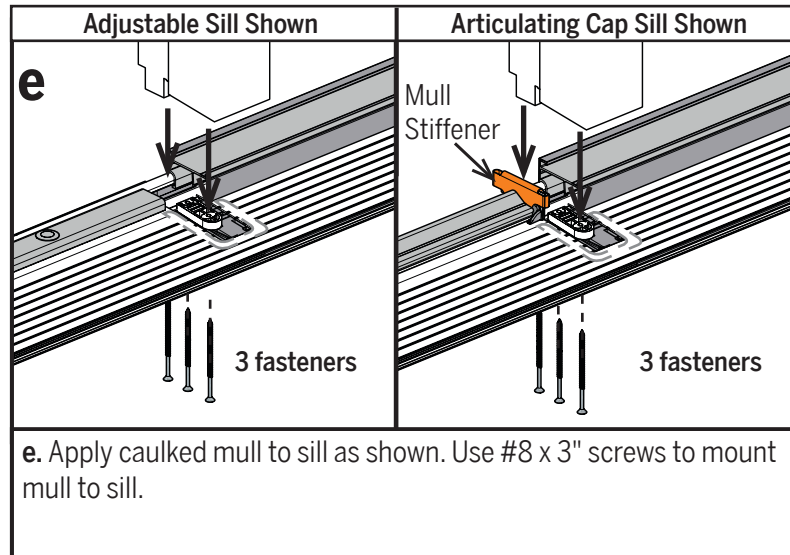
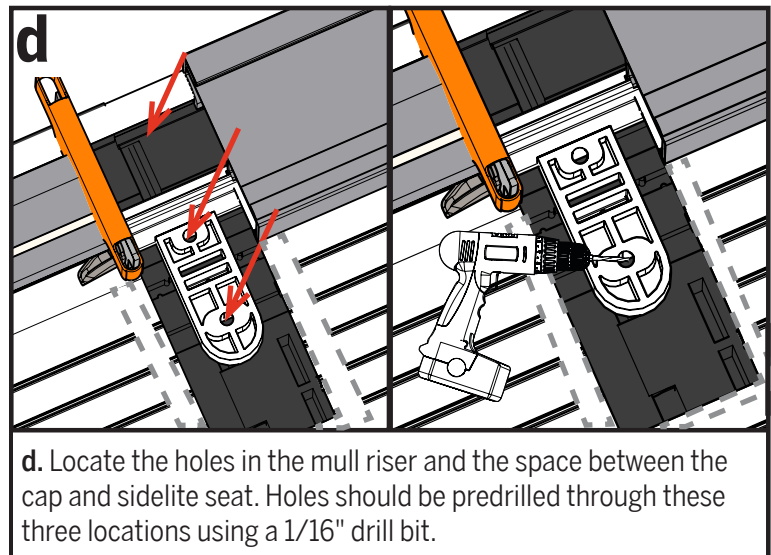
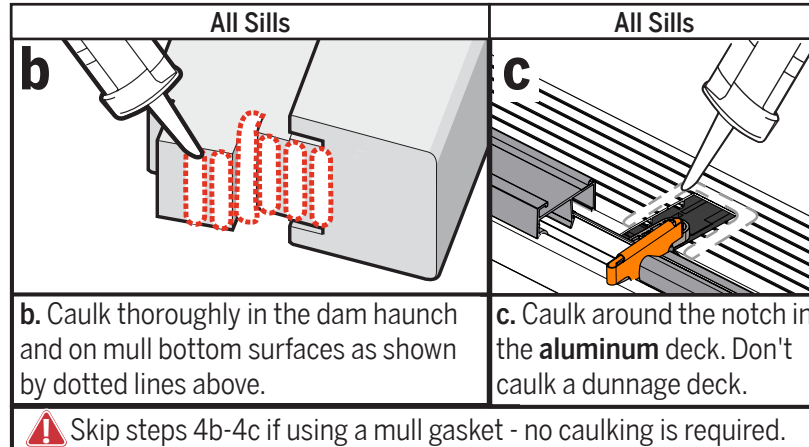
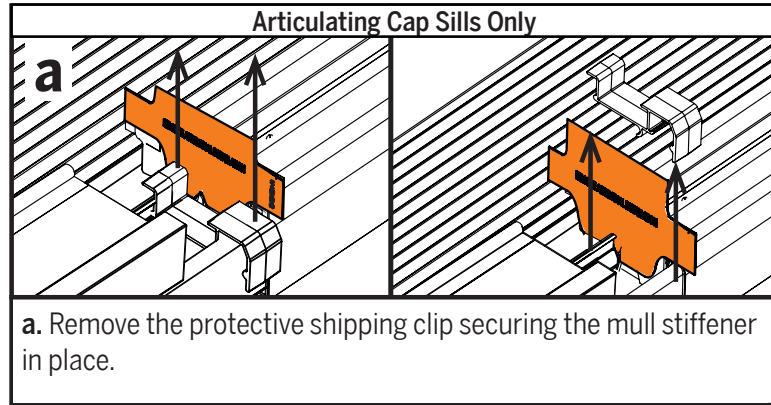
Using (1) #8 x 1-5/8" or longer screw and (3) 16 ga 7/16" x 2" crown staples, secure jamb to sill. Place the fasteners close to the bottom of the jamb to avoid interference with the deck.



Step 4: Assemble the Mull at the Sill

For Sidelite/ Patio Door Units Only

Note: Assembly applies to both Adjustable and Z-Articulating Caps, unless otherwise noted.



⚠ Notes:

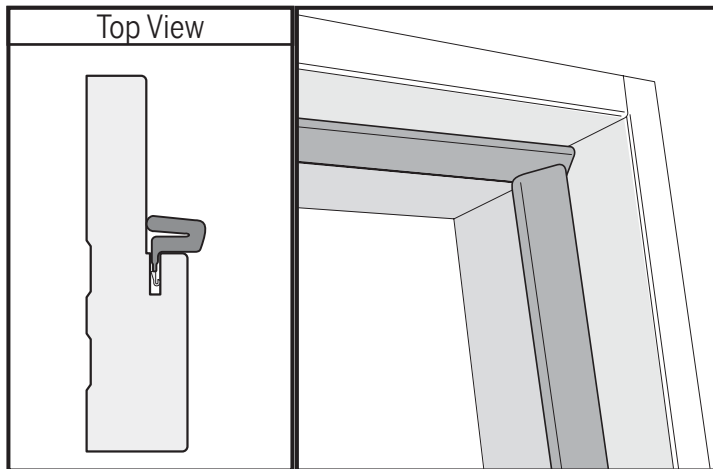
- FrameSaver mullions can be pre-drilled for easier screw attachment.
- (3) fasteners are required in mullion for high wind zone applications.
- **For Articulating Cap Sill Applications:**
 - Carefully insert mullion in place to avoid damaging Mull Stiffener.
 - Avoid caulk squeeze out on the Z-End Base Gasket


If a Mull Boot is used, follow separately issued Mull Boot Instructions


Step 5: Install the Weatherstrip

For All Door Units

- a. Install weatherstrip by fully inserting the kerf leg into the frame kerf slot.
 - Ends should lightly touch frame face or mating weatherstrip.



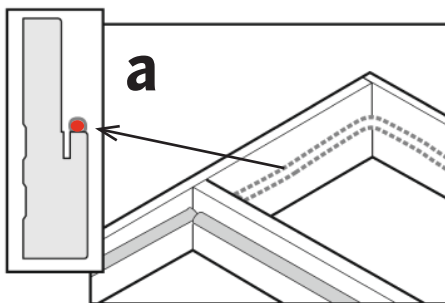
 **Note:** Do not use weatherstrip that is too short or too long.

 **Note:** Do not fold or wrinkle weatherstrip.

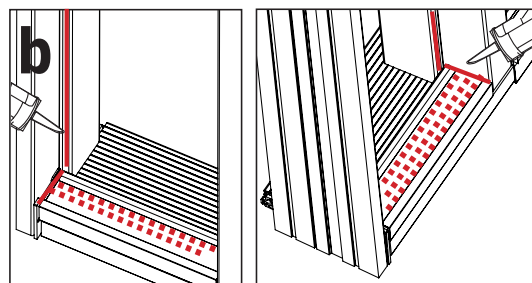
Step 6: Assemble the Fixed Panel

For Sidelite/ Patio Door Units Only

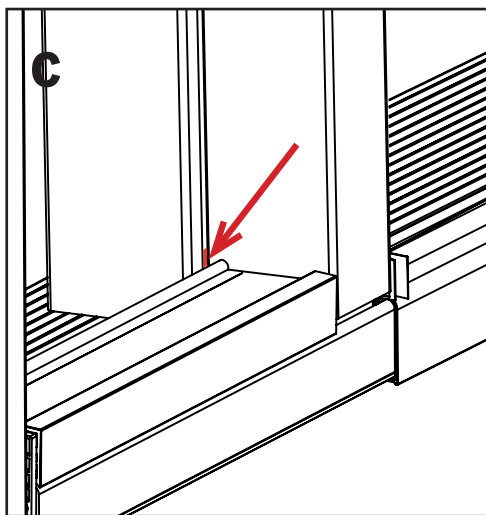
Caulking for the Fixed Panel



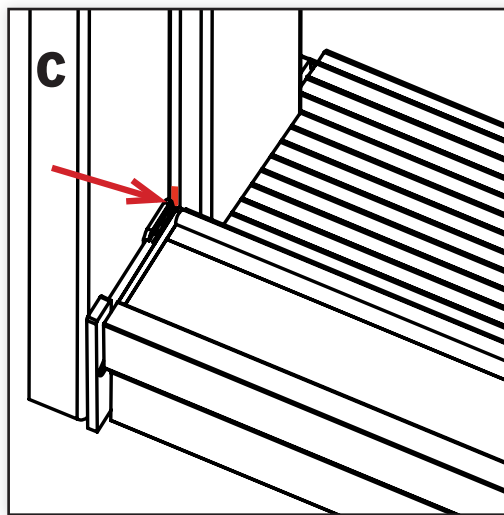
a. Apply a continuous bead of caulk to the stop of the jamb, mull and head where the sidelite will rest.



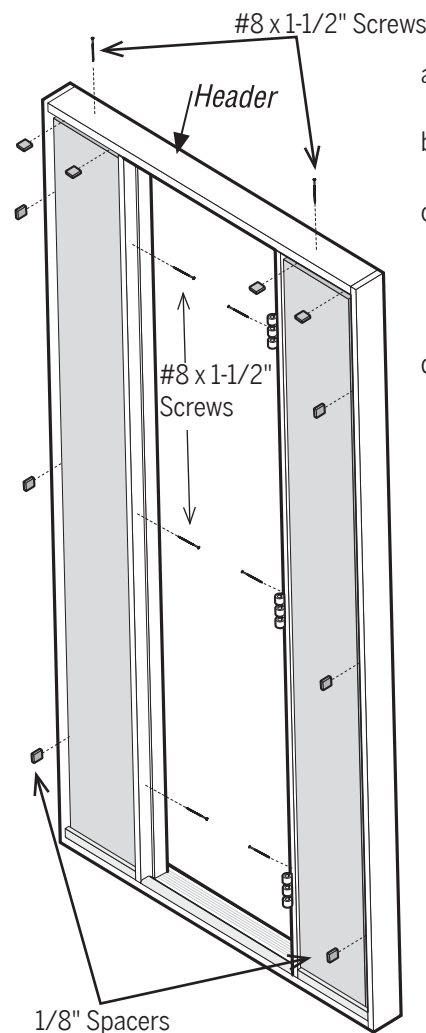
b. Apply caulk to the inactive cap as shown. Caulk throughly in both corners



c. Squeeze extra caulk into the kerf slot in front of sidelite cap to ensure that a proper seal is created.



Installing Fixed Panels



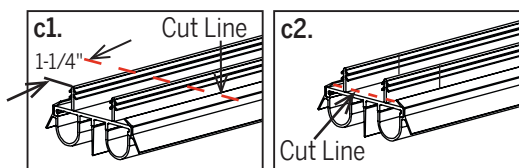
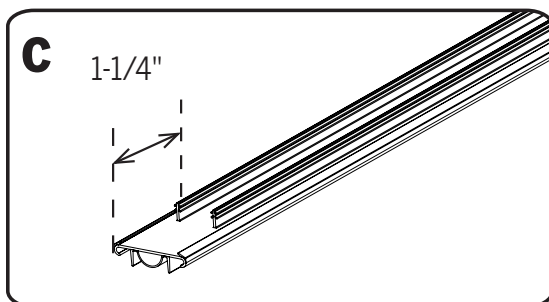
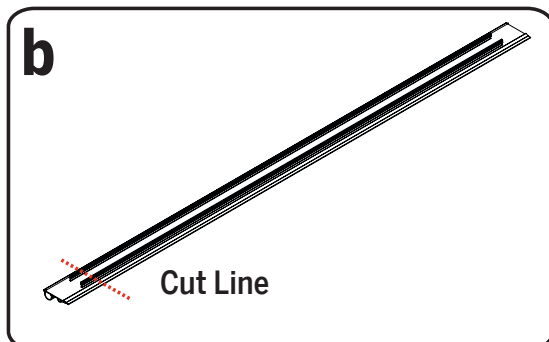
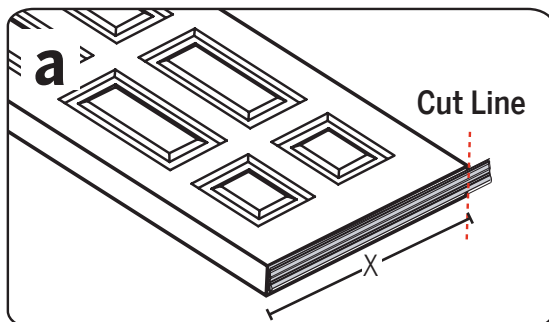
- Place panel into frame opening.
- Set tight sidelite seat & mullion
- Apply 1/8" spacers
 - Two at the header
 - One at the jamb at each hinge position
- Secure to frame with #8 x 2-1/2" screws.
 - First through the mullion at each hinge position.
 - Next through the jamb at each hinge position
 - Finally through the header at the center.

Note: For high wind zone applications, apply #8 x 3" screw through the bottom of the sill into the panel.

- 1 at the center of the sidelite panels
- 2 evenly spaced for full sized panels.

Step 7: Cut Door Bottom to Length (If needed)

For All Door Units



- a) Align the Door Bottom with the panel and mark cut line.
- b) Cut down the Door Bottom to match the length of the panel within 1/32".
- c) If less than a 1-1/4" notch is left after cutting down the Door Bottom, re-notch the Kerfs to 1-1/4" by clipping the kerf legs

- c1. Measure and mark the Kerf legs at 1-1/4" from the edge of the Door Bottom. Cut the Kerf leg down to the base of the door bottom.

BE CAREFUL NOT TO CUT INTO THE DOOR BOTTOM.

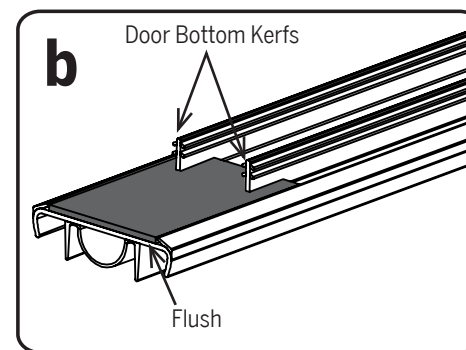
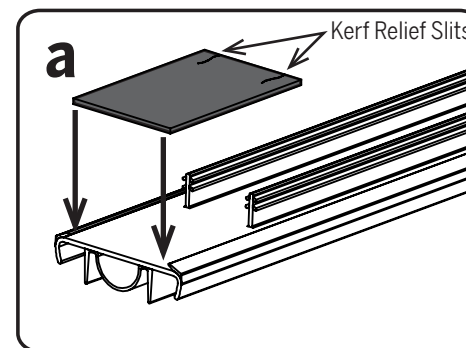
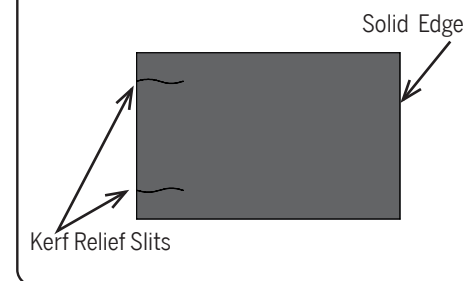
- c2. From the edge of the Door Bottom, trim the kerf legs at the base back to the cut made in the previous step.



Note: The kerf notches should not exceed the gasket.

Step 8: Apply New Door Bottom Gasket**Z- Articulating Cap Sill Kerfed Door Bottoms**

If the Door Bottom Gasket was trimmed off in Step 7, apply a NEW Door Bottom Gasket to the trimmed end of the Z-AC Door Bottom.

**Z-AC Door Bottom Gasket**

- a) Align the Door Bottom Gasket with the Z-AC Door Bottom.

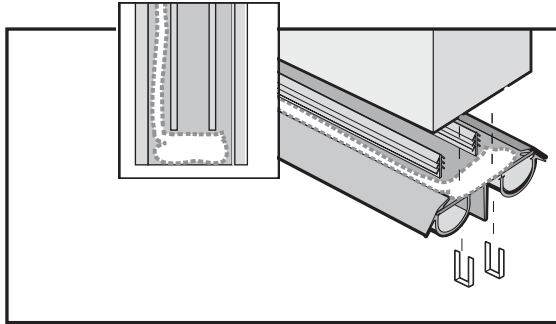
- The edge with the Kerf Relief Slots should be facing the Door Bottom's Kerfs, while the solid edge should be aligned with the outer edge of the door bottom.

- b) Apply Door Bottom Gasket to Door Bottom.

- Ensure that the Gasket's Solid Edge is aligned flush with the edge of the Z-AC Door Bottom, and that the Door Bottom's Kerfs are protruding through the Relief Slits of the Gasket.

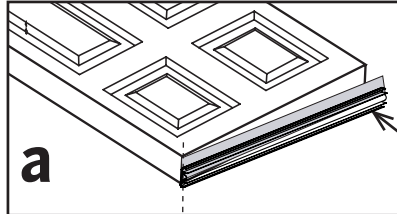
Step 9: Attach the Door Bottom

Adjustable or Fixed Sill Door Bottoms

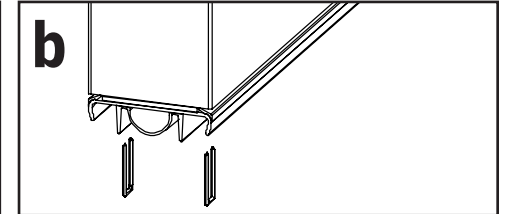
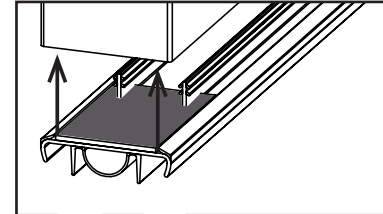


Z- Articulating Cap Sill Kerfed Door Bottoms

DO NOT USE ANY CAULK



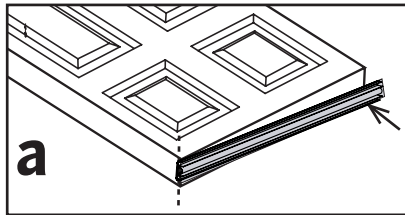
a. Align door bottom flush with the **lock side** of the panel and insert kerfs into slots on door. DO NOT USE ANY CAULK



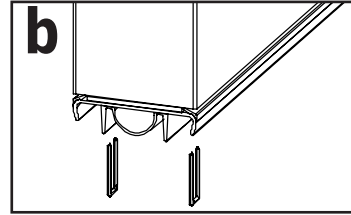
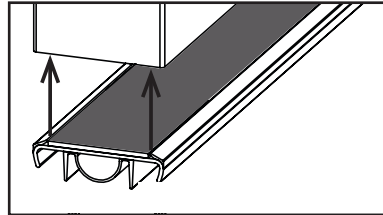
b. Attach Door Bottom with **two 1/2" crown staples and 80 PSI of air pressure** at ends between the rigid ramp and flex fins.

Z- Articulating Cap Sill Staple-On Door Bottoms

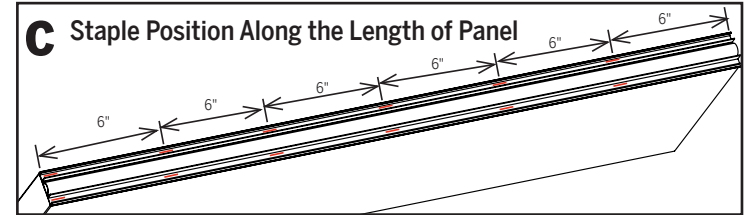
DO NOT USE ANY CAULK



a. Align door bottom flush with the **lock side** of the panel and hold in place.
DO NOT USE ANY CAULK

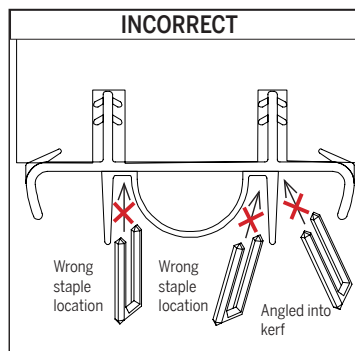
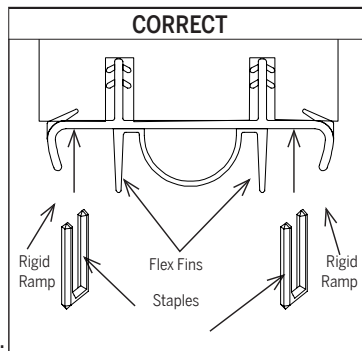


b. Attach Door Bottom with **two 1/2" crown staples and 80 PSI of air pressure** at ends between the rigid ramp and flex fins.



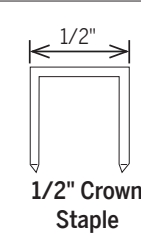
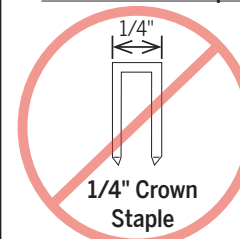
c. Staple on both sides approximately every 6" along the length of the door.

Note: When stapling the Z-AC door bottom to the panel, staples should be inserted between the **Rigid Ramp** and **Flex Fins**. On all door bottom applications, staples should be aimed away from the kerf slots in the bottom of the panel to prevent cracking of the door bottom, or damage to the kerfs.



1/2" crown staples should be used to secure the door bottom to the panel. The use of staples with a shorter crown such as crown 1/4" staples will result in cracking and damage to the door bottom.

Incorrect Size Staple Correct Size Staple



Required Air Pressure

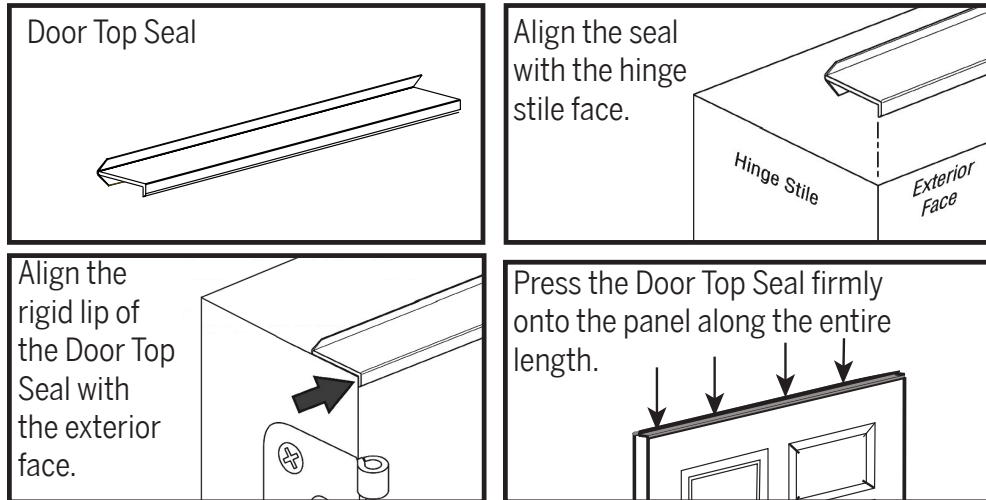


! Use 80 PSI of air pressure to insert staples. Endura suggests using an air pressure regulator for best results.

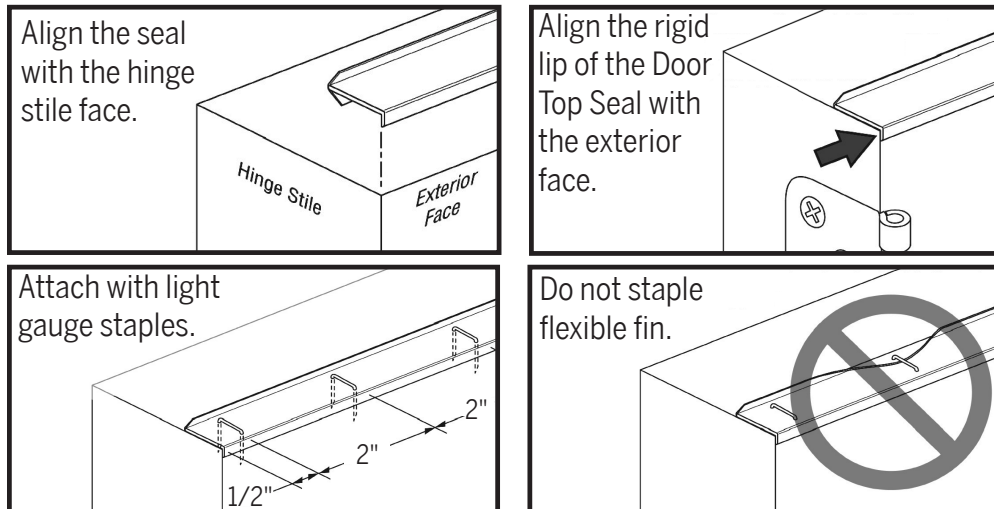
! The insertion of staples at an angle or in the wrong location will result in damage to the door bottom.

Step 10: Attach Door Top (Outswing Units Only)

Steel Edge Panels



All Other Panels



Step 11: Attach Astragal to the Inactive Panel (French Units Only)

Attach an Endura Ultimate Astragal according to separately issued “Prehanger Installation Instructions”.

Ultimate Push Button Astragal

Ultimate Push Button Astragal
Prehanger Installation Instructions

Tools Required:

- Flathead Screwdriver
- Shears
- Phillips Screwdriver
- Power Drill with 1" Drill Bit
- Tape Measure

Kit Includes:

- Full Astragal
- Full Length Trim Strip
- Screw Pack
- Field Pack

Screw Pack Contains:

- (10) #8 x 1-5/8" screws
- (4) #8 x 1" screws

Product Reference Guide

Rev. Date: 03.31.2017
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U.S. Patents: 9,599,043 and other patents pending
#211059-ULTPBH-NR01

Ultimate Astragal Lite

Ultimate Lite Astragal
Prehanger Installation Instructions

Tools Required:

- Flathead Screwdriver
- Shears
- Phillips Screwdriver/ Drill
- Tape Measure

Kit Includes:

- Full Astragal
- Full Length Trim Strip
- Screw Pack
- Field Pack

Screw Pack Contains:

- (6) #8 x 1-5/8" Screws
- (4) #8 x 1" Screws

Product Reference Guide

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#211059-LTPH-NR01

Ultimate Flip Lever Astragal

Ultimate Flip Lever™ Astragal
Prehanger Installation Instructions

Tools Required:

- Flathead Screwdriver
- Shears
- Phillips Screwdriver
- Tape Measure

Kit Includes:

- Full Astragal
- Full Length Trim Strip
- Screw Pack
- Field Pack

Screw Pack Includes:

- (8) #8 x 1" Screws
- (2) #8 x 1 1/2" Screws

Product Reference Guide

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#211059-FLPBH-NR01

Ultimate Trilennium Astragal

Ultimate Trilennium® Astragal
Prehanger Installation Instructions

Tools Required:

- Flathead Screwdriver
- Shears
- Phillips Screwdriver
- Power Drill with 1" Drill Bit
- 1" Spade Bit

Kit Includes:

- Full Astragal
- Full Length Trim Strip
- Screw Pack
- Field Pack

Screw Pack Includes:

- (6) #8 x 1" Screws
- (2) #8 x 1-5/8" Screws

Product Reference Guide

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#211059-TLPB-NR01

Ultimate Multi-Point Astragal

Multi-Point Astragal
Prehanger Installation Instructions

Tools Required:

- Endura Router Template (or equivalent)
- Router with 5/8" diameter guide collar
- 1/2" Router Bit
- Recommended Bit:
 - 1/2" Diameter Straight Flute
 - 1/2" Diameter Shank
 - 2-1/2" Cut Length (Amana Bit 45427 or equivalent)
- Phillips Screwdriver
- 1" Spade Drill Bit
- 1/8" Diameter Drill Bit
- Power Driver with #2 Phillips Bit
- Tape Measure
- Pencil
- Clamps (2)

Kit Includes:

- Full Astragal
- Full Piece of Trim Strip
- Screw Pack
- Keeper Pack
- Field Pack

NOTES:

- Pre-drill pilot holes where indicated.
- Only tighten screws until flush with mating surfaces.
- Overtightening of screws may cause improper operation.
- Minimum handle height for use with this astragal is 33-1/4".

Screw Pack Includes:

- (4) #8 x 3" Painted Screws
- (12) #8 x 1 1/2" Painted Screws
- (4) 1" Mounting Screws

Keeper Pack Includes:

- (2) Keeper Assemblies
- (4) #8 x 1" Mounting Screws

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P/N: 211059-MPPH-NR01

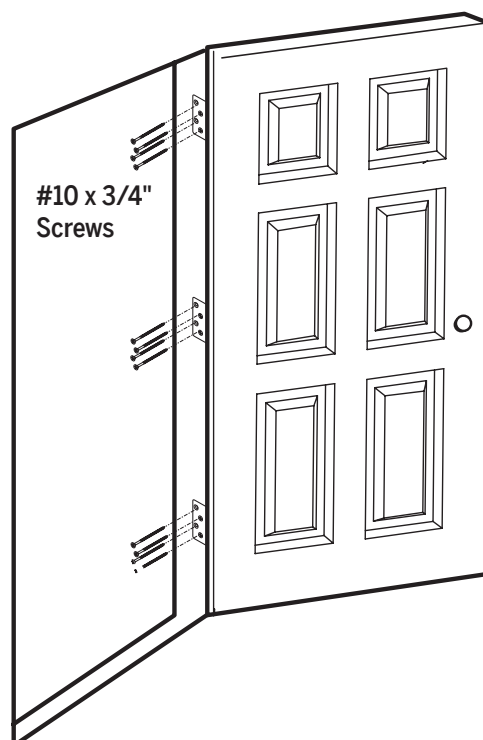
Step 12: Assemble the Hinged Panel

For All Door Units

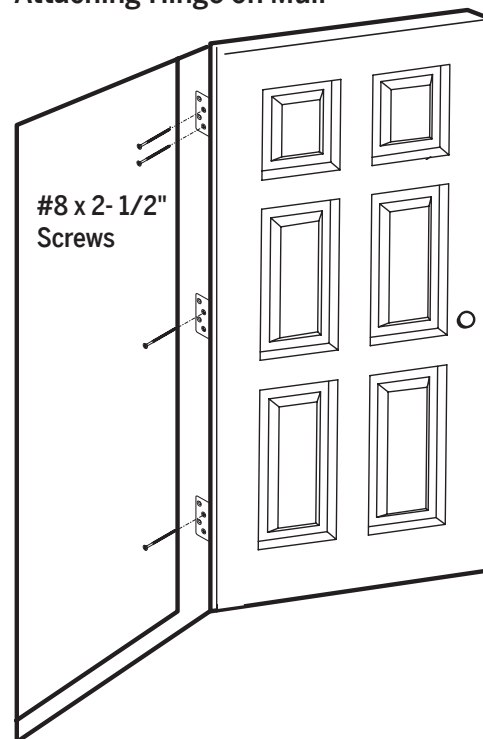
Attach hinges

- a. Secure to panel with #10 x 1" screws
- b. Secure to jamb with #10 x 3/4" screws
- c. For hinge on mull use # 8 x 2- 1/2 screws at:
 - Top two holes closest to the weatherstrip
 - Other hinges on top hole closest to the weatherstrip

Attaching Hinge on Jamb

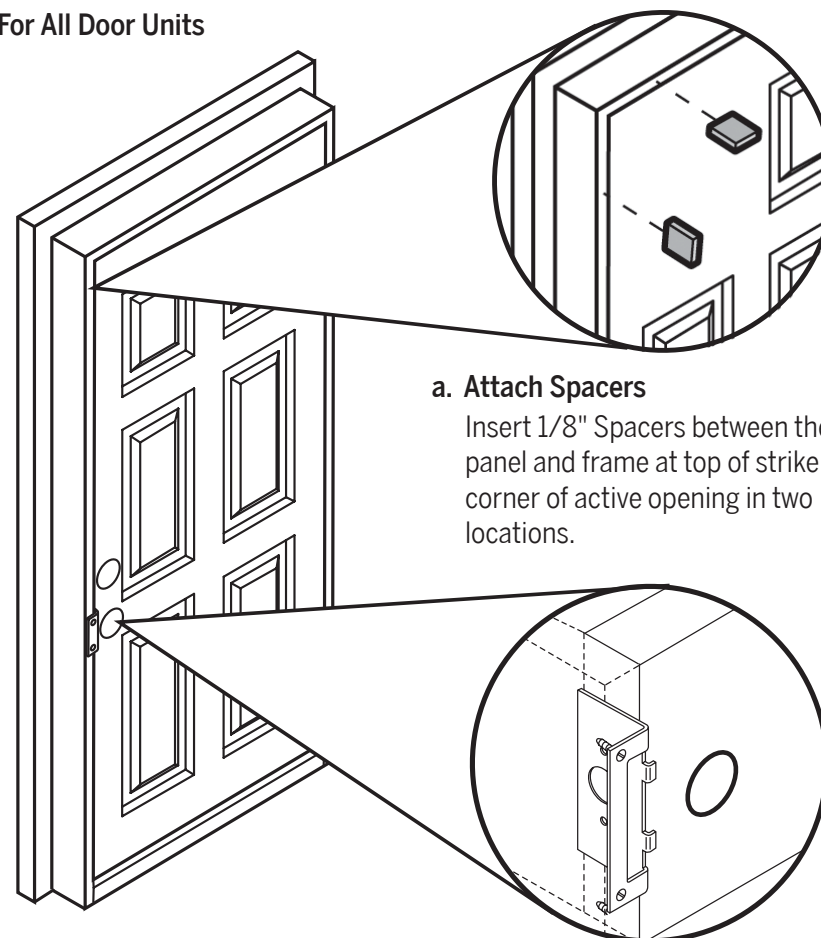


Attaching Hinge on Mull



Step 13: Attach Alignment Bracket

For All Door Units



a. Attach Spacers

Insert 1/8" Spacers between the panel and frame at top of strike corner of active opening in two locations.

- b. Apply Endura's **Door Frame Alignment Bracket** to prevent the door frame from racking and breaking the caulked seals during shipping and installation.

If you have any questions, please contact your Endura Sales Representative or call Customer Service: 1-800-334-2006

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