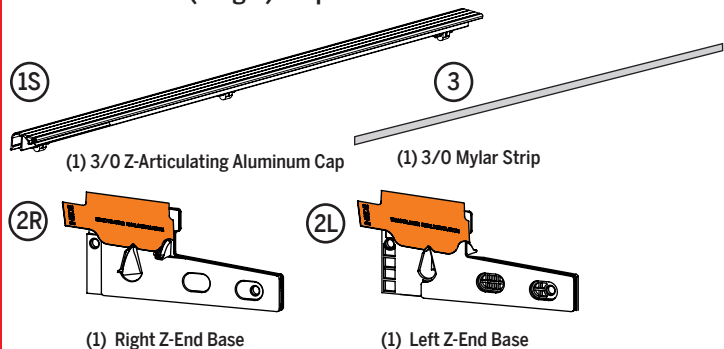


All-Aluminum Z-Articulating Cap Sill® Shop Replacement Instructions

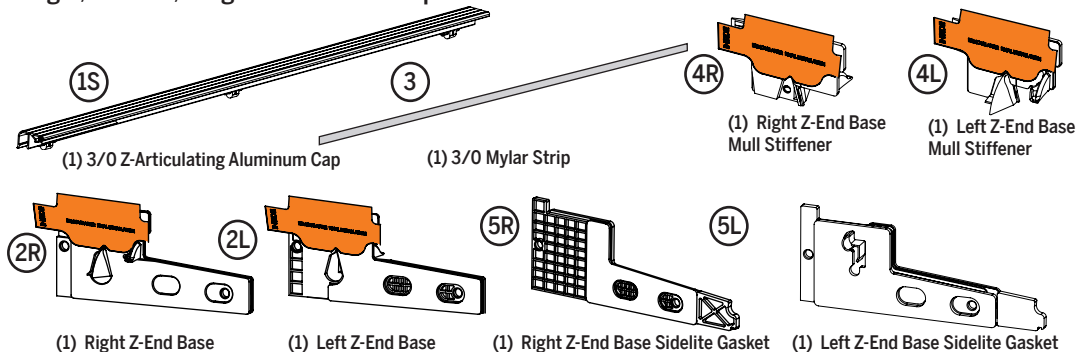
Required Tools and Materials

1. **Flathead Screw Driver or Stiff Scraper:** To remove old Z-Series cap.
2. **Small Wood Block:** To protect aluminum sill deck when prying off sill cap.
3. **Measuring Tape:** For sizing new sill cap and door bottom before cutting to proper length.
4. **Pencil:** To mark cap and door bottom.
5. **Cutting Tool:** Chop / Miter Saw recommended to trim cap and door bottom to proper length.

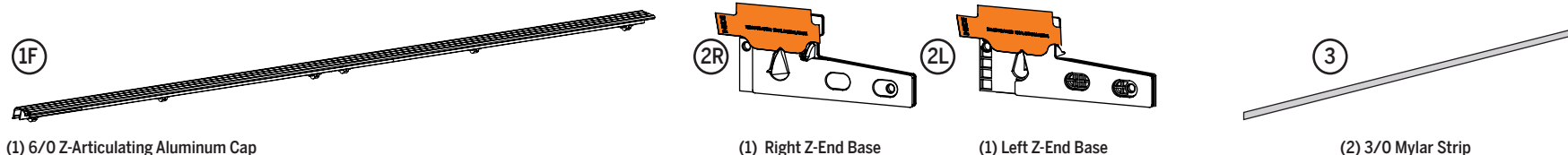
Standard Door (Single) Required Parts:



Single, Sidelite, Hinged Patio Door Required Parts:



French (Double Door) Required Parts:



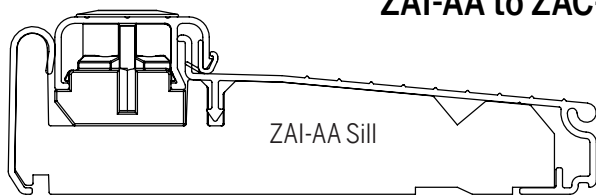
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Identifying Your Sill System

Use the boxes below to identify your current sill system. Once your sill system has been properly identified, proceed to the appropriate section.

Z-Series Adjustable Sill (ZAI-AA)

ZAI-AA to ZAC-AA SEE PAGE 4



ZAI-AA Sill



Screw Hole Cover



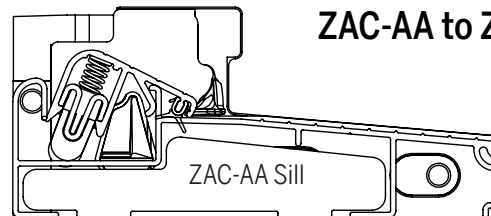
Bolt Receiver Cup
(French Doors Only)

ZAI-AA Features

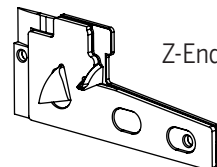
- Flat Cap
- Receiver Cup Under Cap
- Screw Covers

Z-Series Articulating Sill AA (ZAC-AA)

ZAC-AA to ZAC-AA SEE PAGE 16



ZAC-AA Sill



Z-End Base

ZAC-AA Features

- Slanted Cap
- Z-End Bases with Weatherstrip Locator
- Astragal Bolt Hole in Cap

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

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ZAI-AA to ZAC-AA Page 4**Single Sills-** Page 5

1. Remove OLD Aluminum Cap
2. Install New Cap
3. Cutting Down Sill

French Sills Page 8

1. Remove Old Aluminum Cap
2. Install New Cap
3. Cutting Down Sill
4. Install Z-End Bases

Single, Sidelite, Hinged Patio Page 12

1. Remove OLD Aluminum Cap
2. Cutting Down Cap and Sill
3. Install New Cap
4. Install Z-End Bases

ZAC-AA to ZAC-AA Page 16**Single Sills** Page 17

1. Remove OLD Cap
2. Install New Cap
3. Install New Z-End Bases

French Sills Page 20

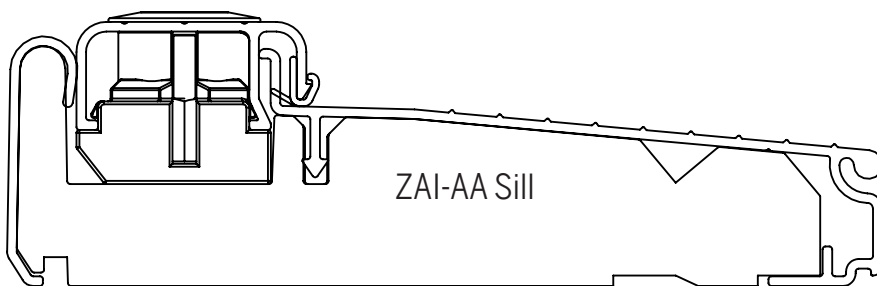
1. Remove Old ZAC-AA Cap
2. Cutting Down Cap
3. Install New Cap
4. Install Z-End Bases

Single, Sidelite, Hinged Patio Page 24

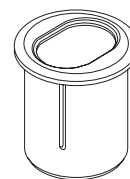
1. Remove Old ZAC-AA Cap
2. Cutting Down Cap
3. Install New Cap
4. Install Z-End Bases

ZAI-AA to ZAC-AA

Z-Series Adjustable All Aluminum Sill (ZAI-AA)



Screw Hole Cover



ZAI-AA Receiver Cup
(French Doors)

ZAI-AA Features

- Flat Cap
- Screw Covers
- Receiver Cup Under Cap

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Single Door Units

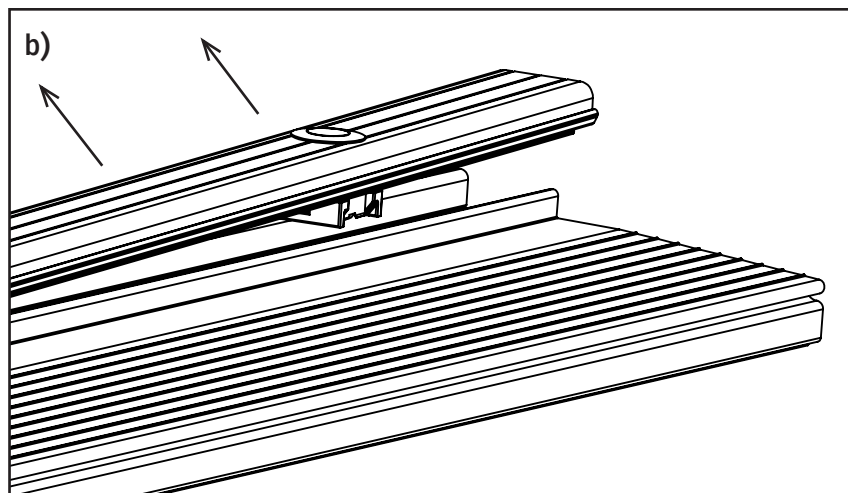
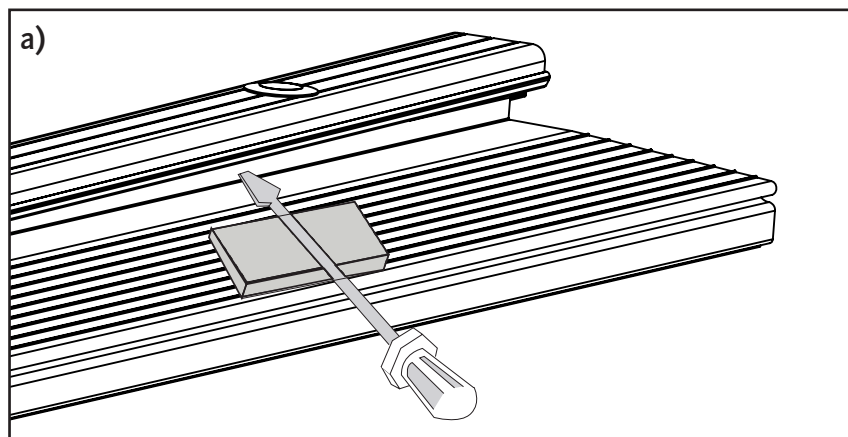
ZAI-AA to ZAC-AA

1. Remove OLD Adjustable Cap (ZAI-AA to ZAC-AA) Single Door Units




Protect aluminum sill deck with a small wood block to prevent damage when prying off sill cap.

- a) Place a flathead screwdriver under front leg of sill cap at one end. Then pry sill cap up with screwdriver, working from one end to the other.
- b) Pull sill cap out of channel.
- c) Clean any debris out of sill channel.




2. Install New Cap (ZAI-AA to ZAC-AA) Single Door Units

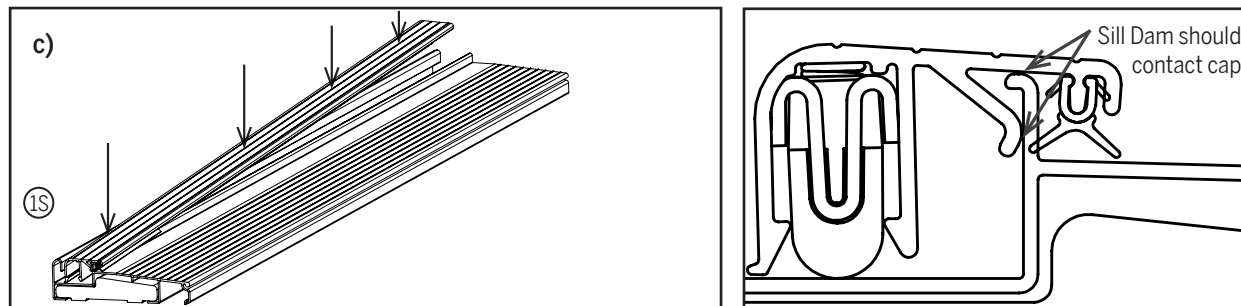
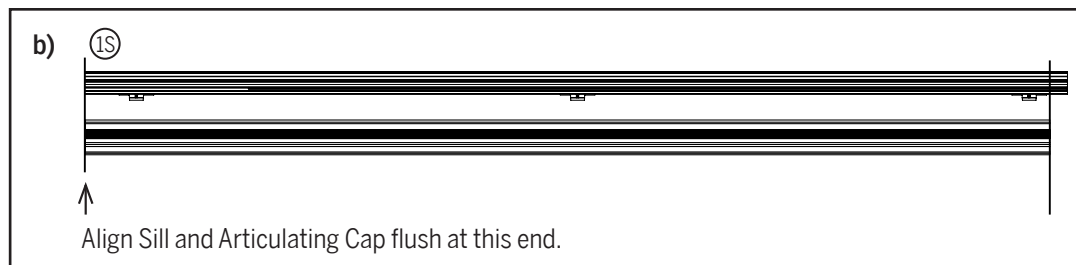
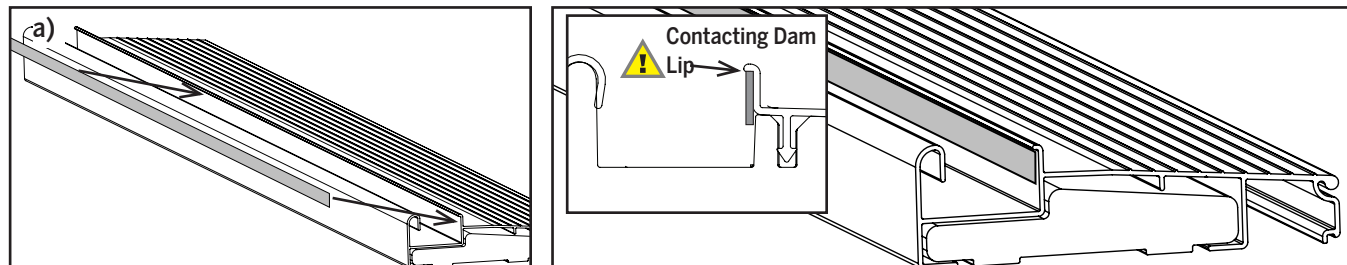
- a) Align the Mylar Strip (3) with the inside edge of the Dam of the Sill, and apply by firmly pressing into place.

 **Mylar Strip should contact the lip of the Dam**

- b) Align loose ZAC-AA (1S) flush with one end of the sill and insert cap into sill channel.

- c) To properly install, flatten the cap while inserting it into the sill channel. Apply pressure to the cap along entire length of sill to fully seat into place.

 **Sill Dam should contact the bottom side of the top of the cap, and the angled leg of the cap should contact the back side of the Sill Dam**



3. Cutting Down Sill (ZAI-AA to ZAC-AA) Single Door Units Only

- Measure and mark ZAC-AA Sill to 1/4" less than the ZAI-AA Net Opening Length (Standard Sill Length) to be cut down to accommodate Z-End Bases.
- Cut the cap and sill along the mark made in the previous step and discard removed section.

CAUTION: Measure carefully and cut precisely within 1/32" to ensure proper operation. A cap cut too short will not seal correctly.

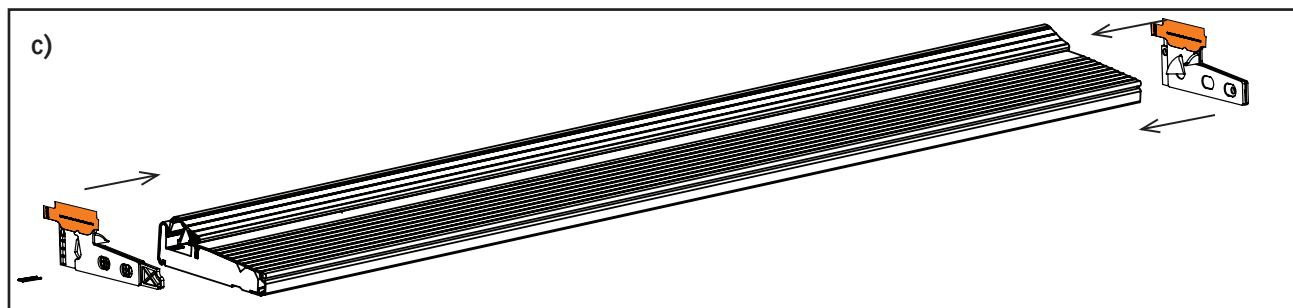
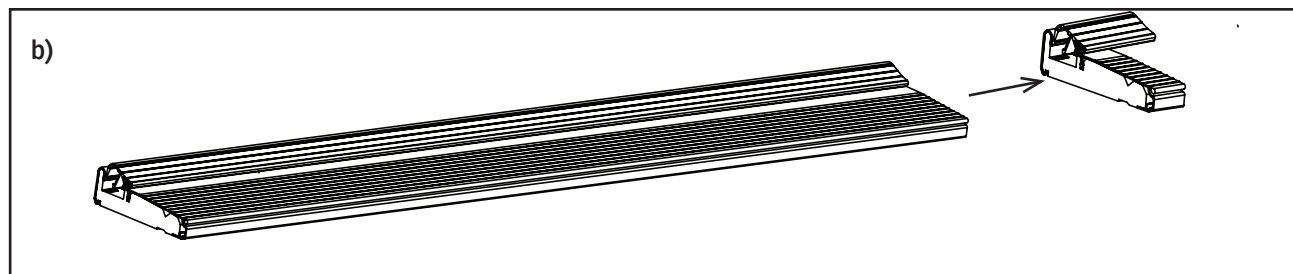
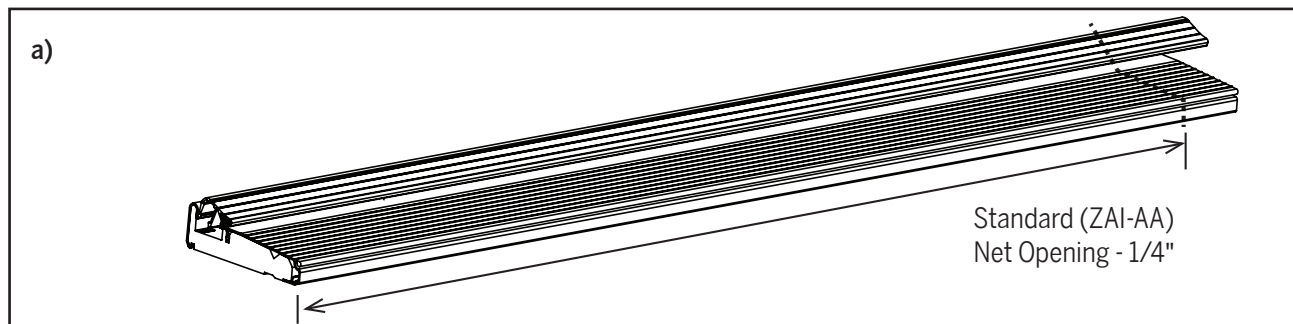
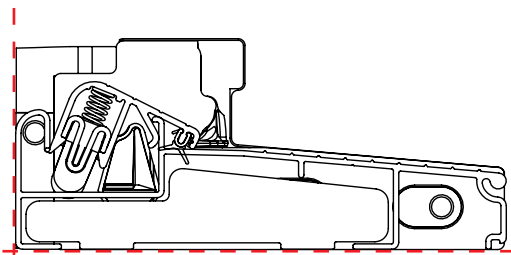
- Attach new Z-End Base (2R) & (2L) to each side of the cut sill and secure with staples

NOTE: The Z-End Bases are handed and can only be attached one way. The horn should be inserted into the sill channel.

Do not remove the orange protective gasket label until cap is fully installed into the door unit.




Note: Z-End Bases Should be aligned flush with the interior facing side of the sill and the bottom of the sill.



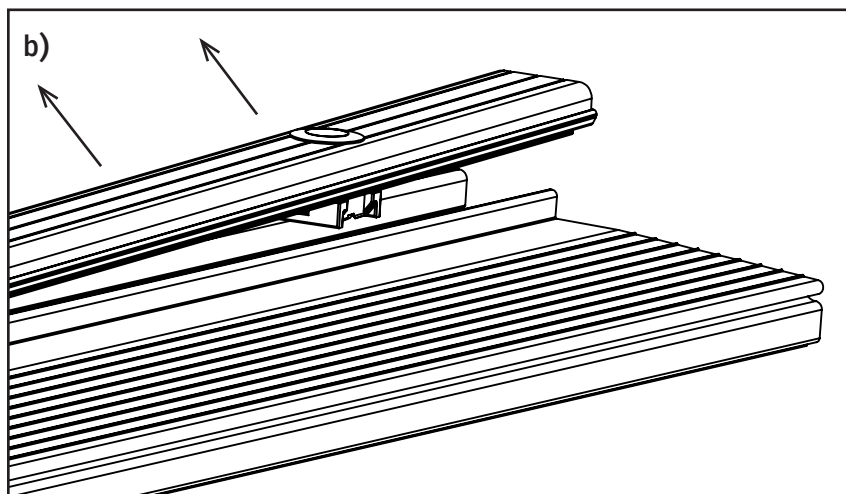
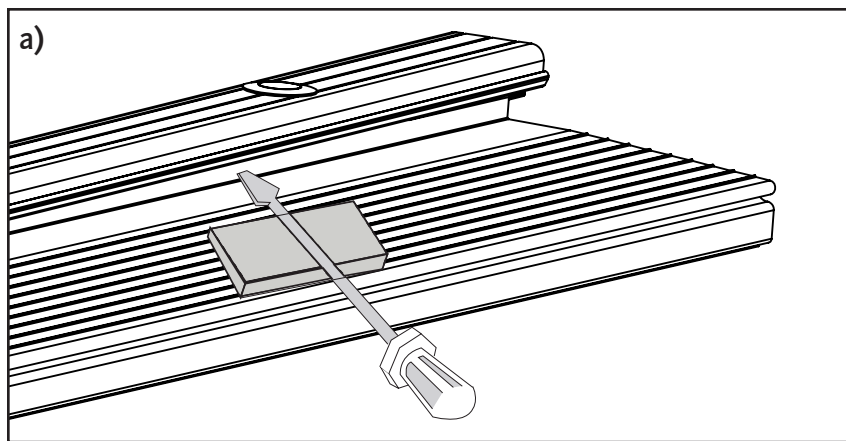
French Door Units

ZAI-AA to ZAC-AA

1. Remove OLD Adjustable Cap (ZAI-AA to ZAC-AA) French Door Units


 **Protect aluminum sill deck with a small wood block to prevent damage when prying off sill cap.**

- a) Place a flathead screwdriver under front leg of sill cap at one end. Then pry sill cap up with screwdriver, working from one end to the other.
- b) Pull sill cap out of channel.
- c) Clean any debris out of sill channel.




2. Install New Cap (ZAI-AA to ZAC-AA) French Door Units Only

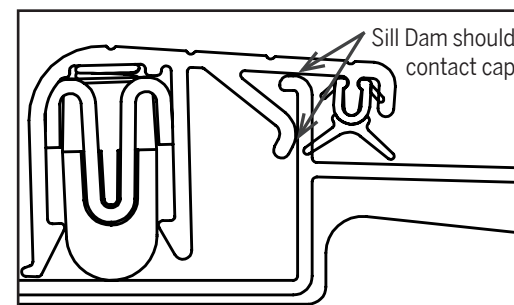
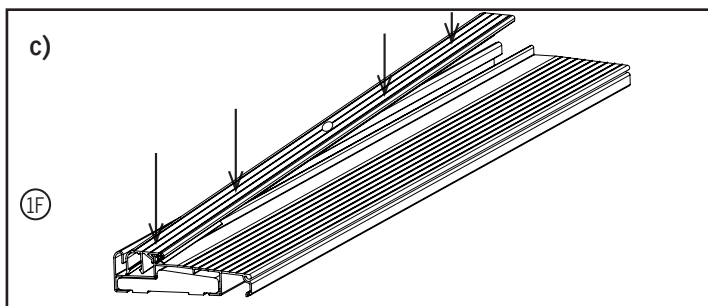
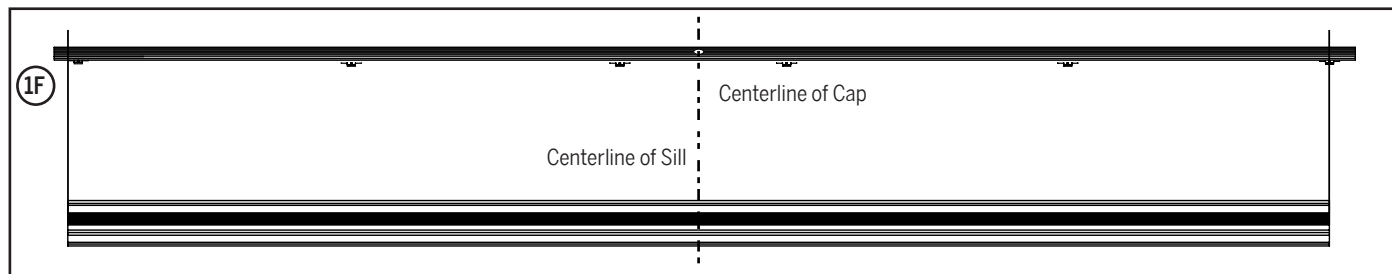
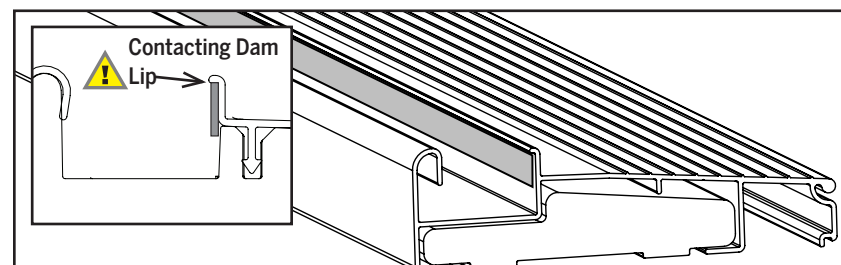
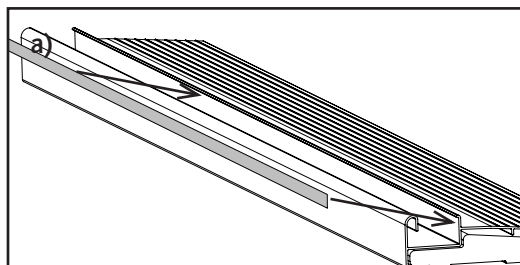
- a) Align the Mylar Strip ③ with the inside edge of the Dam of the Sill, and apply by firmly pressing into place. Repeat on both ends of the Sill.

 **Mylar Strip should contact the lip of the Dam**

- b) Align the centerline or Astragal Bolt hole of the loose ZAC-AA ①F with the centerline of the sill.

- c) Insert the cap into sill's channel.
- To properly install, flatten the cap while inserting it into the sill channel. Apply pressure to the cap along entire length of sill to fully seat into place.

 **Sill Dam should contact the bottom side of the top of the cap, and the angled leg of the cap should contact the back side of the Sill Dam**



3. Cutting Down Sill (ZAI-AA to ZAC-AA) French Door Units Only



Note: Astragal bolt hole must remain in the center of the sill.

a) Determine the desired cut down length (1/4" shorter than Standard Sill Length).

$$\begin{aligned}\text{Desired Length} &= Y \\ \text{Original Sill Length} &= X\end{aligned}$$

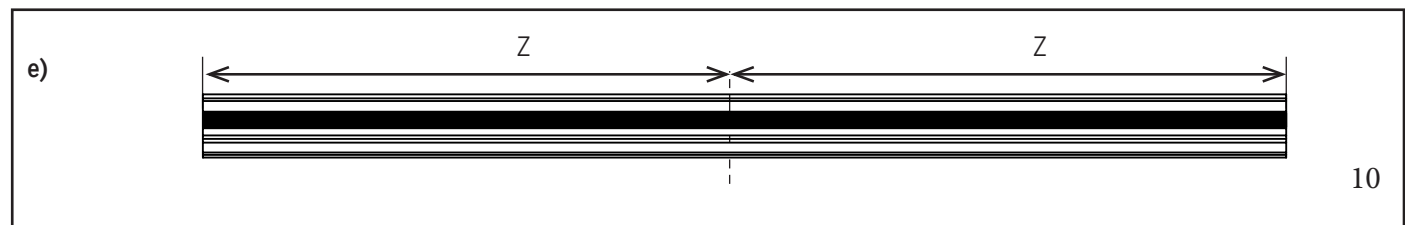
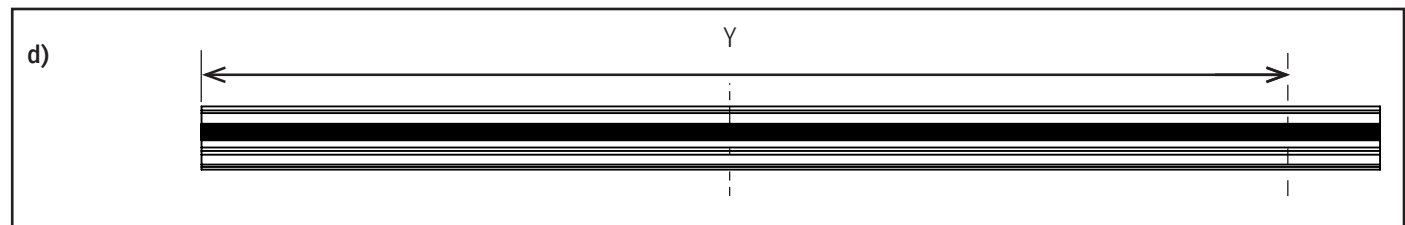
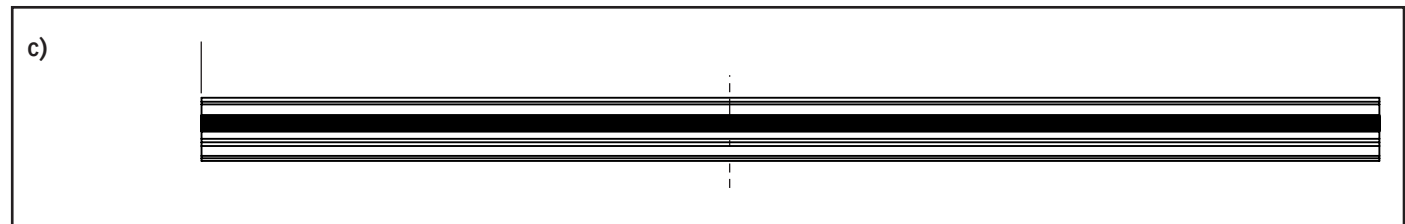
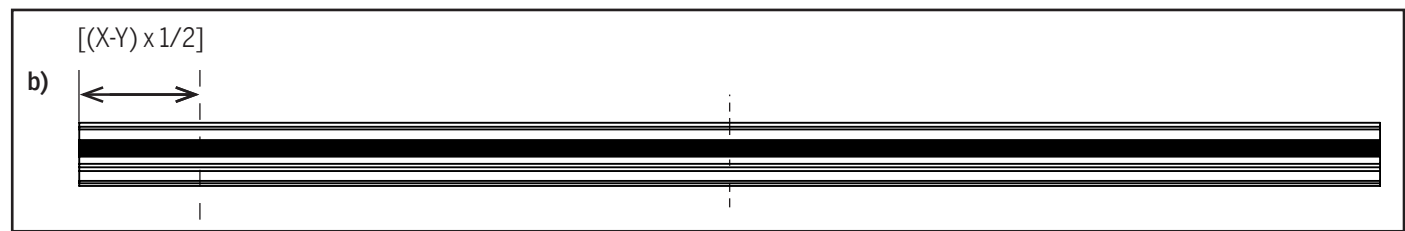
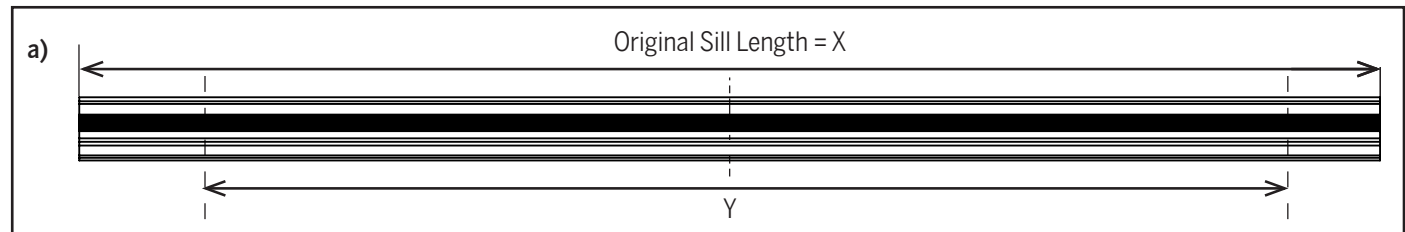
b) Subtract new desired length from the length of the sill and divide result in half to determine the first cut.

$$(\text{Original Sill Length} - \text{Desired Length}) \times 1/2$$

c) Confirm that the astragal bolt hole (if present) is in the center of the sill. **Mark the sill's centerline** and using the measurement from the previous step, cut down one end of the sill. **DO NOT repeat this step on the other side of the sill.** Proceed to step D, which accounts for tolerances in cutting and prevents errors.

d) Measure from cut down end, and mark sill at the desired length found in step A. Cut down other end of the sill to the desired length.

e) Confirm that the original centerline of the sill and astragal bolt hole (if present) are still in the center of the sill. The sill should be equal in length on either side of the bolt hole.

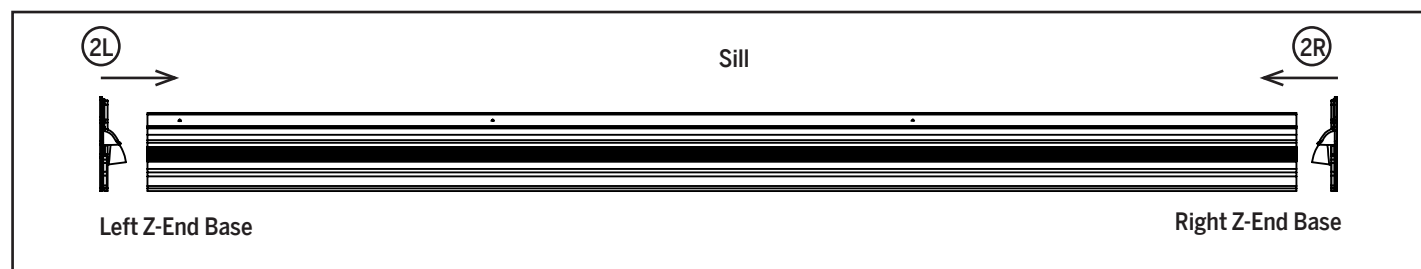
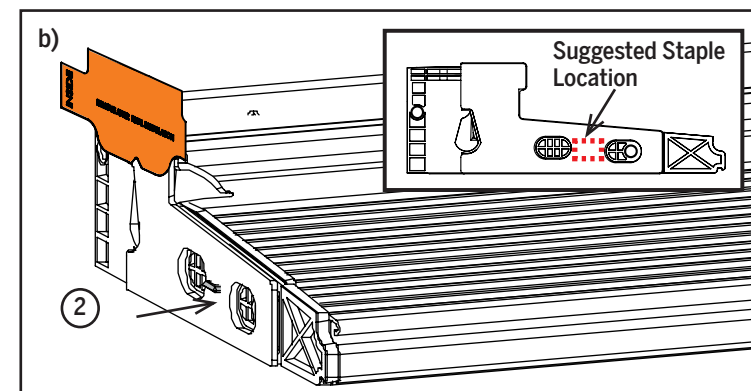
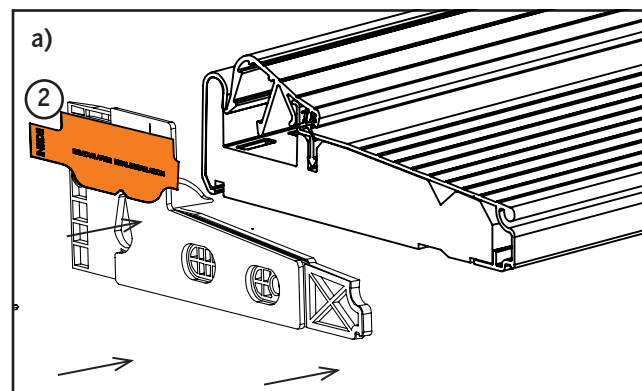


4. Install Z-End Bases (ZAI-AA to ZAC-AA) French Door Units

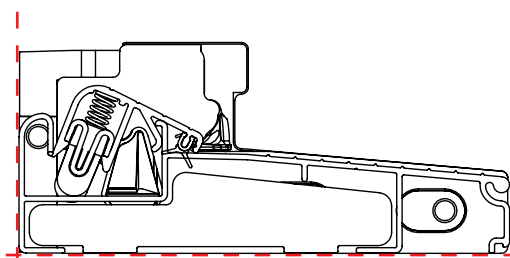
- Align the Z-End Base (2R & 2L) with each end of the sill and Z-Articulating Cap then attach.
- Secure Z-End Base (2R & 2L) to the sill with a staple on each side of the sill. Repeat at other end of sill if no Sidelite Cap is present.

NOTE: The Z-End Bases are handed and can only be attached one way. The horn should be inserted into the sill's channel.

Do not remove the orange protective gasket label until cap is fully installed into the door unit.



Note: Z-End Bases Should be aligned flush with the interior facing side of the sill and the bottom of the sill.



Sidelite and Hinged Patio Door Units

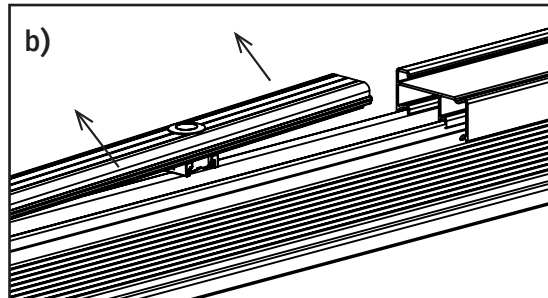
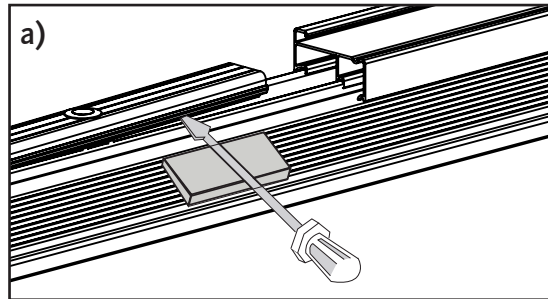
ZAI-AA to ZAC-AA

1. Remove OLD Adjustable Cap (ZAI-AA to ZAC-AA) Sidelite and Hinged Patio Door Units



Protect aluminum sill deck with a small wood block to prevent damage when prying off sill cap.

- a) Place a flathead screwdriver under front leg of sill cap at one end. Then pry sill cap up with screwdriver, working from one end to the other.
- b) Pull sill cap out of channel.
- c) Clean any debris out of sill channel and on the jambs.




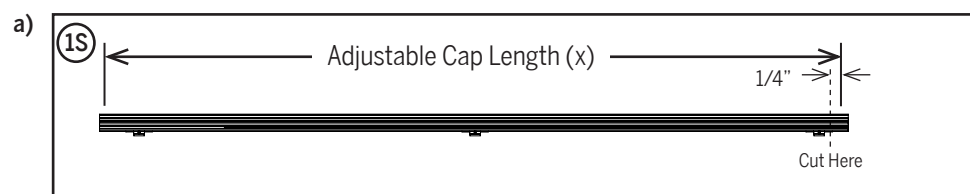
2. Cutting Down Cap and Sill (ZAI-AA to ZAC-AA) Sidelite and Hinged Patio Door Units Only

- a) Measure and cut new cap (1S) to match width of active opening (Standard Sill Length) of the sill minus 1/4".
- b) Measure and cut sill to match width of Single Sidelite ZAI-AA Net Active Length minus 1/4".

 1/8" should be removed from each end of the sill.

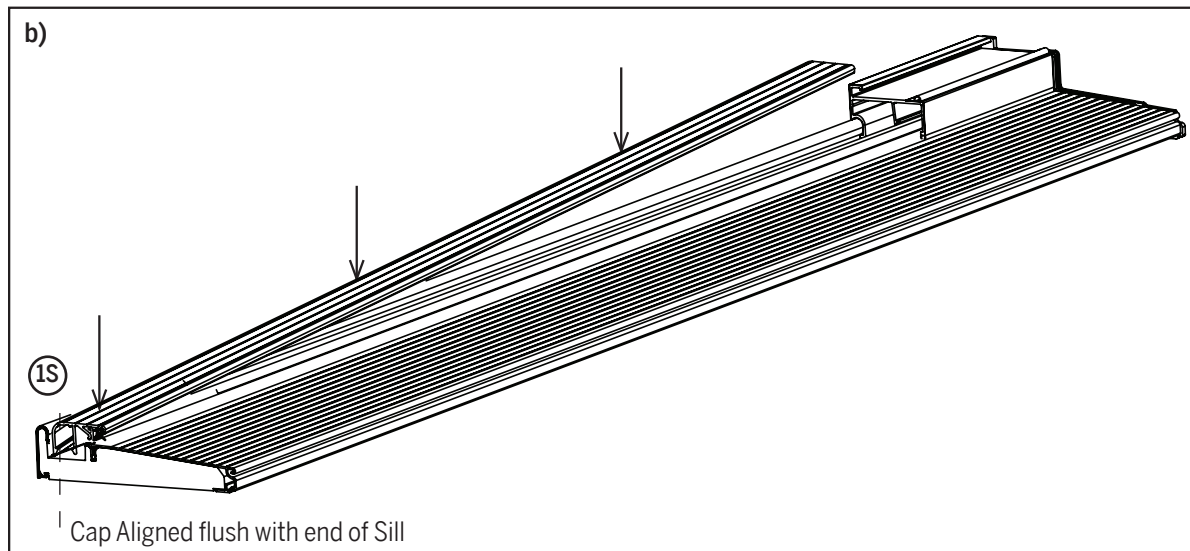
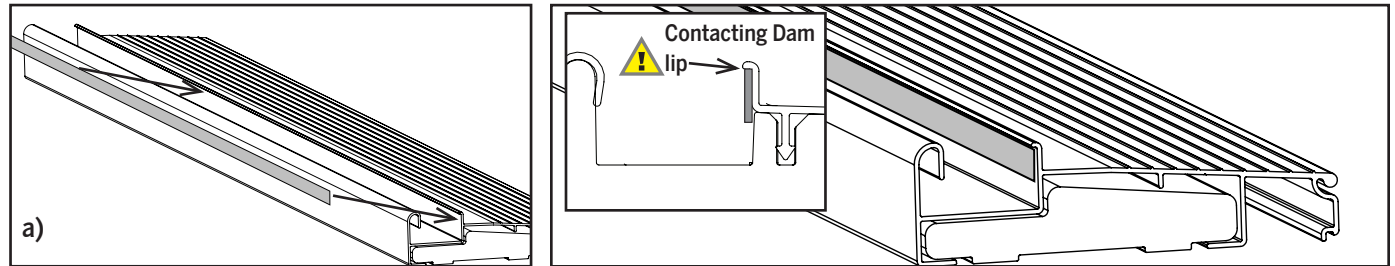
 Sidelite Cap Z-AC Application always 1/8" Shorter than Sidelite Cap in ZAI-AA Application

 **CAUTION:** Measure carefully and cut precisely within 1/32" to ensure proper operation. A cap cut too short will not seal correctly.

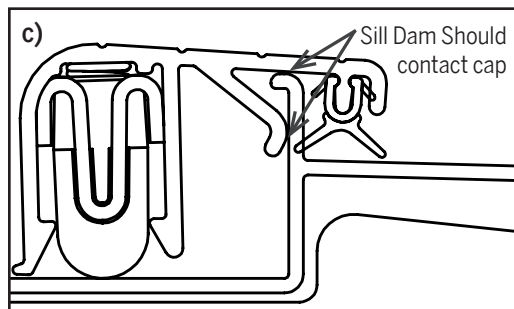


3. Install New Cap (ZAI-AA to ZAC-AA) Sidelite and Hinged Patio Door Units

- a) Align the Mylar Strip ③ with the inside edge of the Dam of the Sill, and apply by firmly pressing into place.
! Mylar Strip should contact the lip of the Dam
- b) Align loose ZAC-AA ①S flush with one end of the sill and insert cap into sill channel.
- c) To properly install, flatten the cap while inserting it into the sill channel. Apply pressure to the cap along entire length of sill to fully seat into place.



- ! Sill Dam should contact the bottom side of the top of the cap, and the angled leg of the cap should contact the back side of the Sill Dam**



4. Install Z-End Bases (ZAI-AA to ZAC-AA) Sidelite and Hinged Patio Door Units

- a) Align the Z-End Base (2L & 2R) with the end of the sill and Z-Articulating Cap then attach.

NOTE: The Z-End Bases are handed and can only be attached one way. The horn should be inserted into the sill's channel.

- b) Secure Z-End Base to the sill with staples.

Install the Z-End Base Sidelite Gasket

- a) Align the Z-End Base Sidelite Gasket (5R & 5L) with the end of the sill and Sidelite Cap then attach.

NOTE: The Z-End Base Sidelite Gaskets are handed and can only be attached one way. The horn should be inserted into the sill channel.

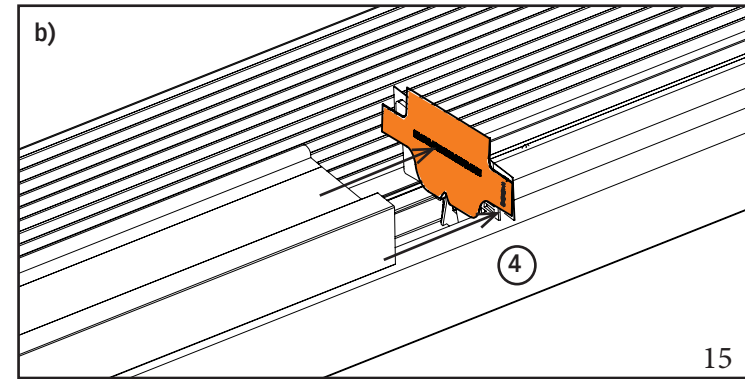
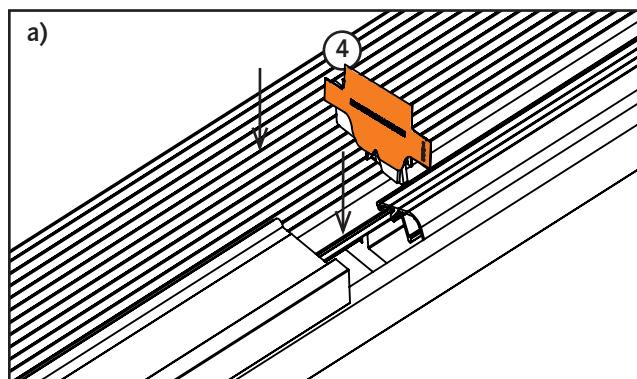
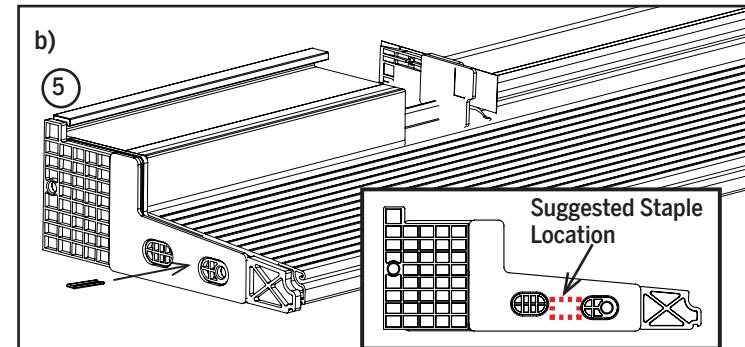
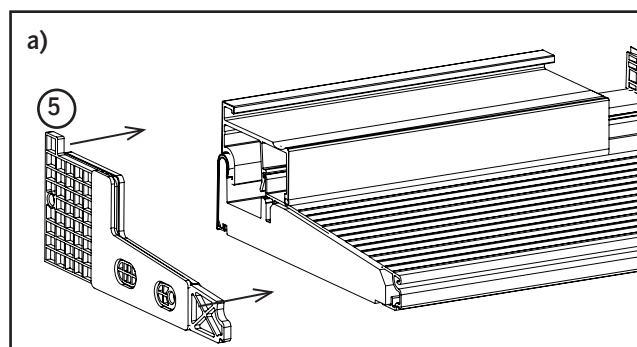
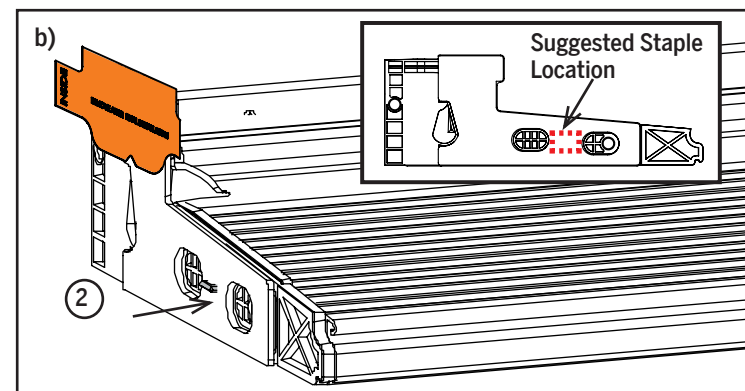
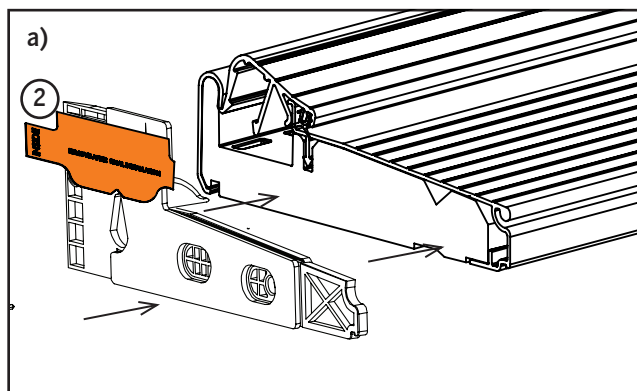
- b) Secure Z-End Base Sidelite Gasket to sill with a staple on each side of the sill. Repeat at other end of sill if a Sidelite Cap is present.

Install the Z-End Base Mull Stiffener

- a) Insert the Z-End Base Mull Stiffener (4R & 4L) into the sill channel between the Z-Articulating Cap and Sidelite Seat.

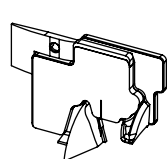
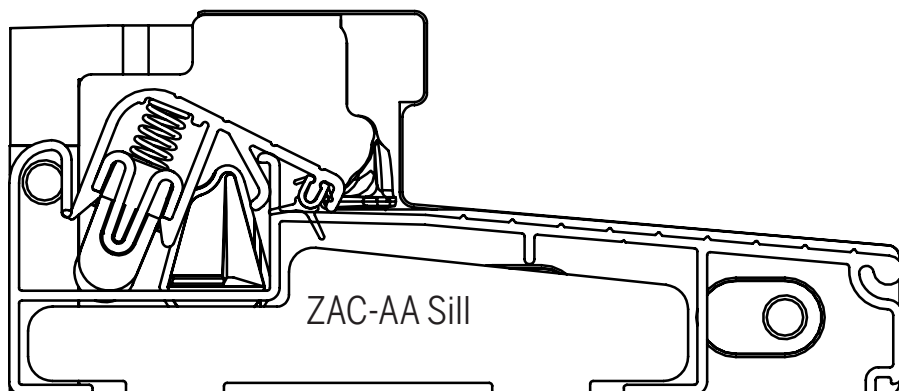
NOTE: The Z-End Base Mull Stiffeners are handed and can only be attached one way. The horn should be inserted into the sill channel.

- b) Insert the Z-End Base Mull Stiffener into the sill channel between the Z-Articulating Cap and Sidelite Seat.

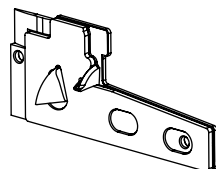


ZAC-AA to ZAC-AA

All-Aluminum Z-Articulating Cap Sill (ZAC-AA)



Z-End Base



ZAC-AA Features

- Slanted Cap
- Z-End Bases with Weatherstrip Locator

If you have any questions, please contact your Endura Sales Representative or call
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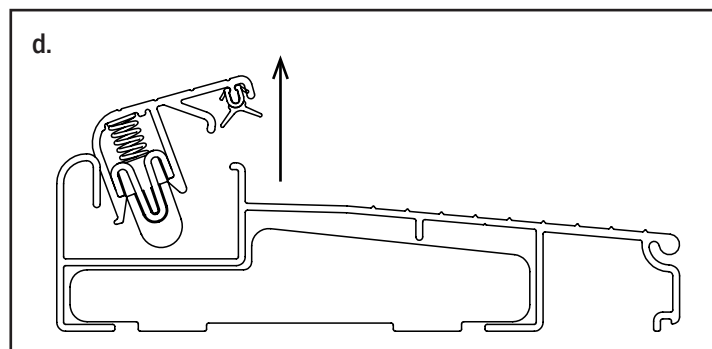
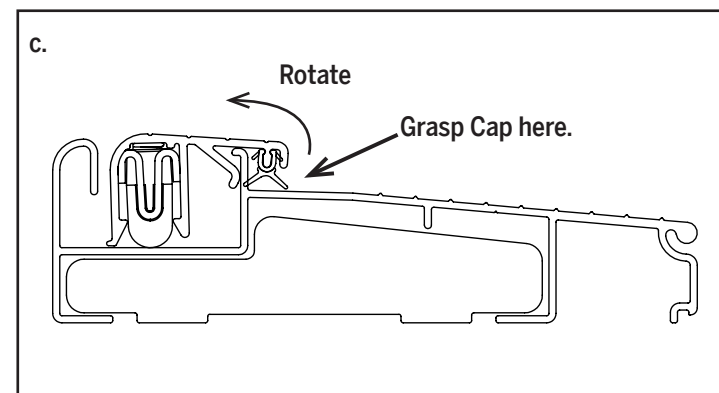
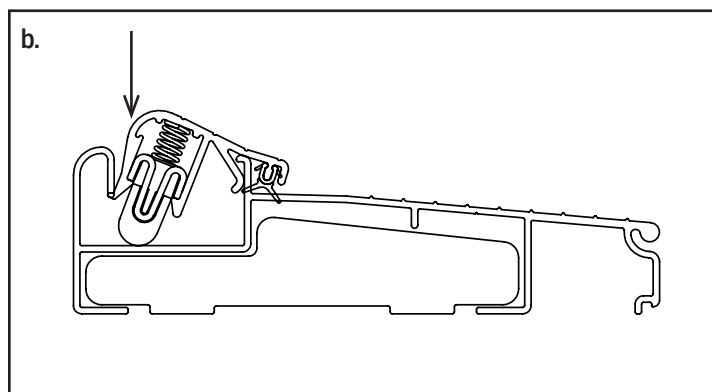
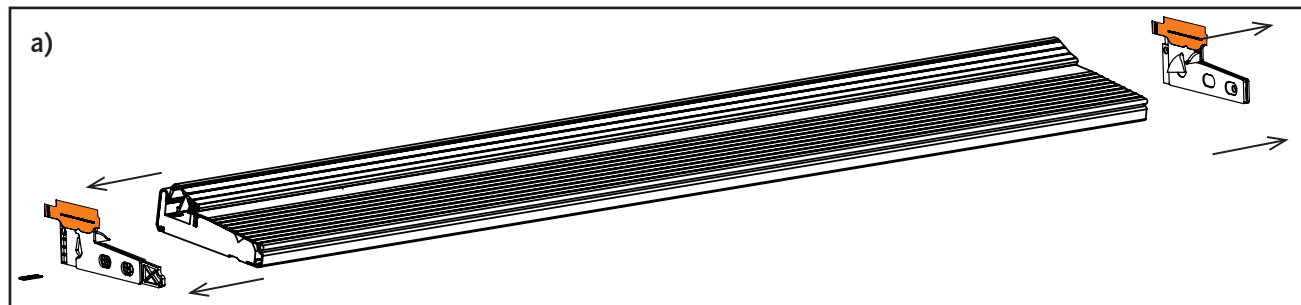
Innovation protected under patents and patents pending in U.S. and Canada. See www.EnduraPatents.com.

Single Door Units

ZAC-AA to ZAC-AA

1. Remove Old ZAC-AA Cap (ZAC-AA to ZAC-AA)

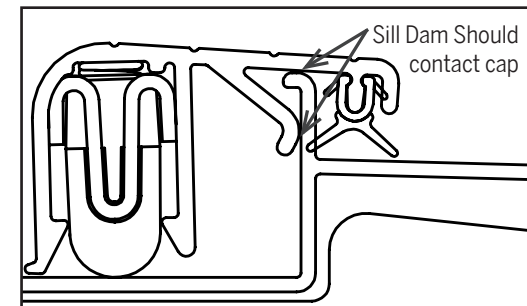
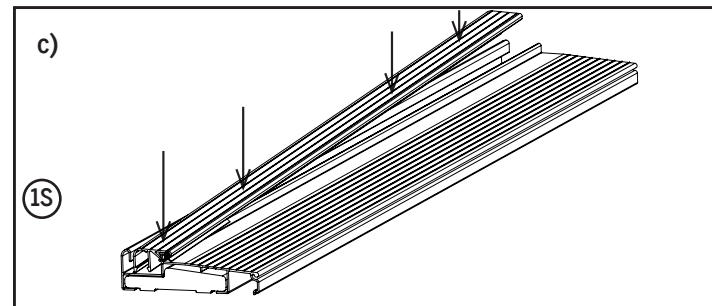
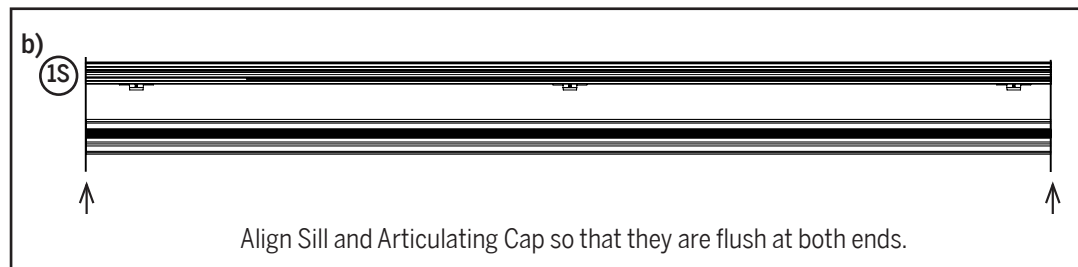
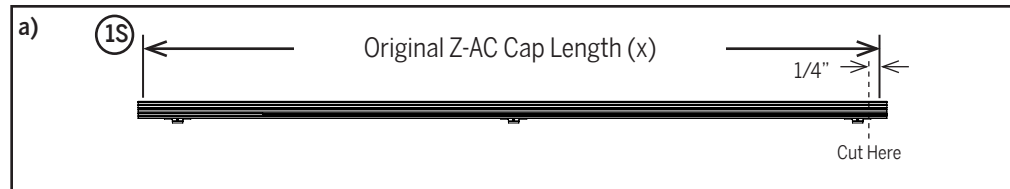
- a) Using a flat head screwdriver, pry off both of the old Z-End Bases from each end of the sill.
- b) Starting **at the end of the sill**, depress the cap to its downward position.
- c) Grasp the front of the cap near the sill's dam and rotate it backwards towards the interior side of the sill.
- d) Once the end of the cap is no longer attached to the sill, simply pull the cap up and out of the sill.



2. Install New Cap (ZAC-AA to ZAC-AA) Single Door Units

- a) Measure and cut new cap (1S) to match width of active opening (Standard Sill Length) of the sill minus 1/4".
- b) Align loose ZAC-AA (1S) flush with ends of the sill and insert cap into sill channel.
- c) To properly install, flatten the cap while inserting it into the sill channel. Apply pressure to the cap along entire length of sill to fully seat into place.

⚠ Sill Dam should contact the bottom side of the top of the cap, and the angled leg of the cap should contact the back side of the Sill Dam



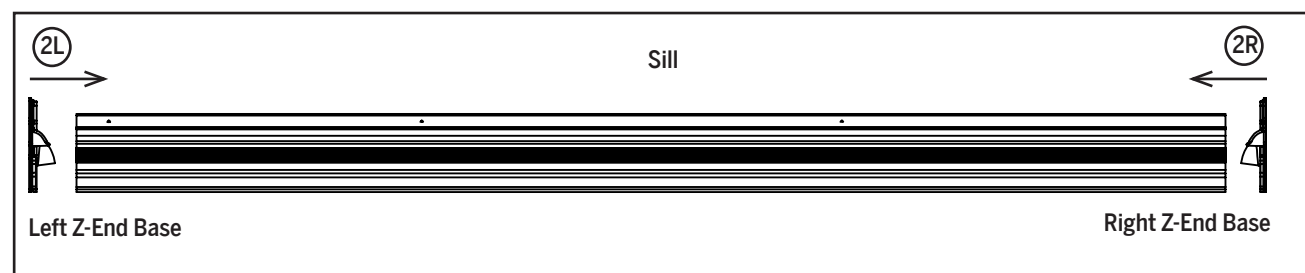
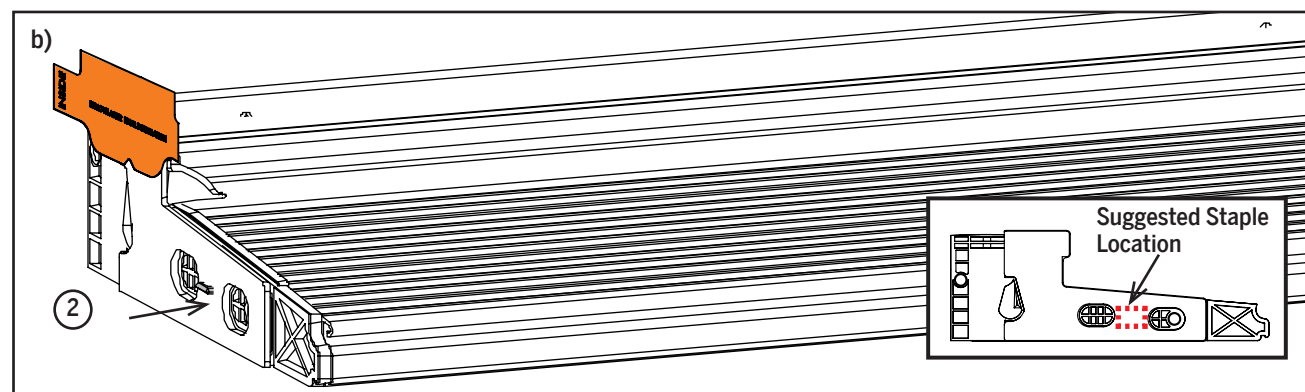
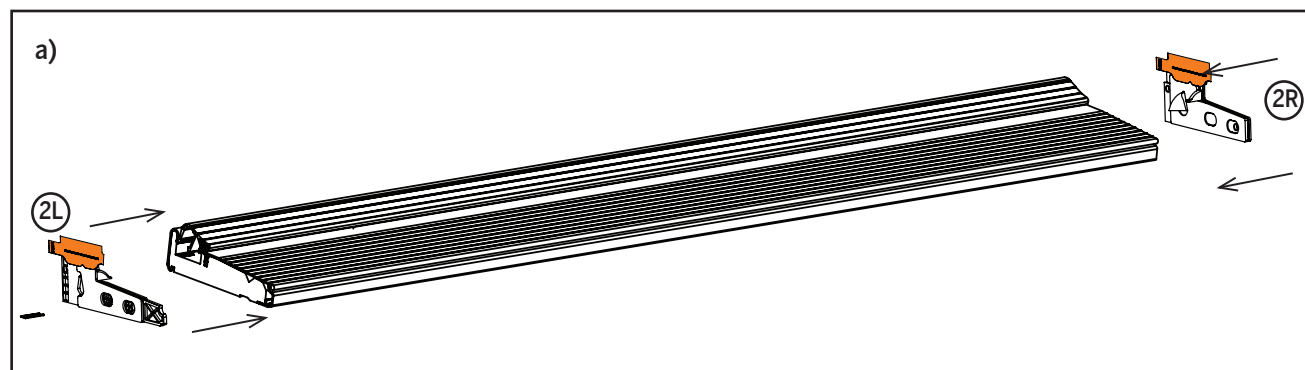
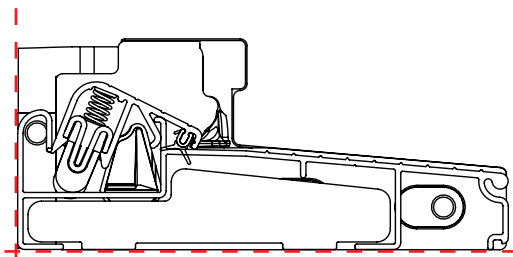
3. Install New Z-End Bases (ZAC-AA to ZAC-AA) Single Door Units

- a) Align the Z-End Bases (2R&2L) with each end of the sill and Z-Articulating Cap then attach.
- b) Secure Z-End Bases (2R&2L) to the sill with a staple on each side of the sill, if no Sidelite Cap is present.

NOTE: The Z-End Bases are handed and can only be attached one way. The horn should be inserted into the sill channel.

Do not remove the orange protective gasket label until cap is fully installed into the door unit.

Note: Z-End Bases Should be aligned flush with the interior facing side of the sill and the bottom of the sill.

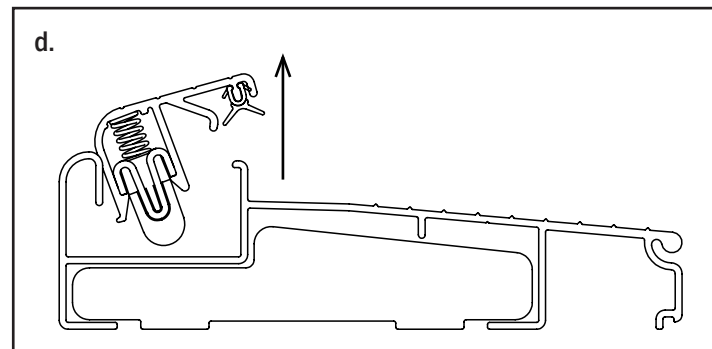
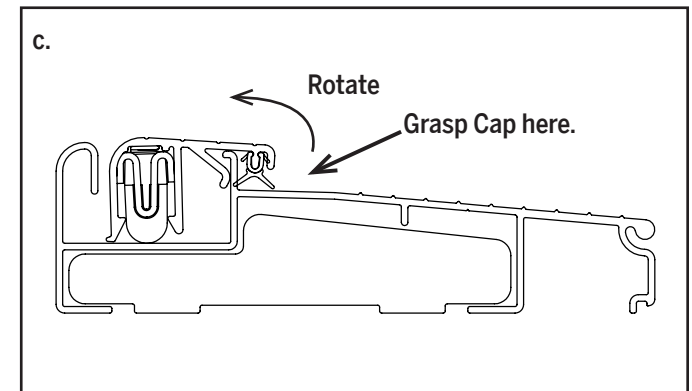
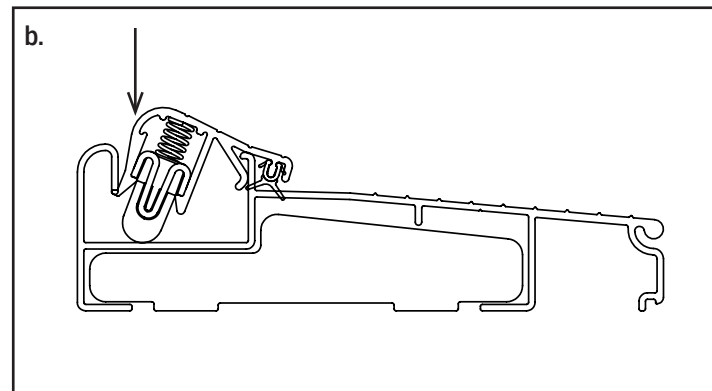
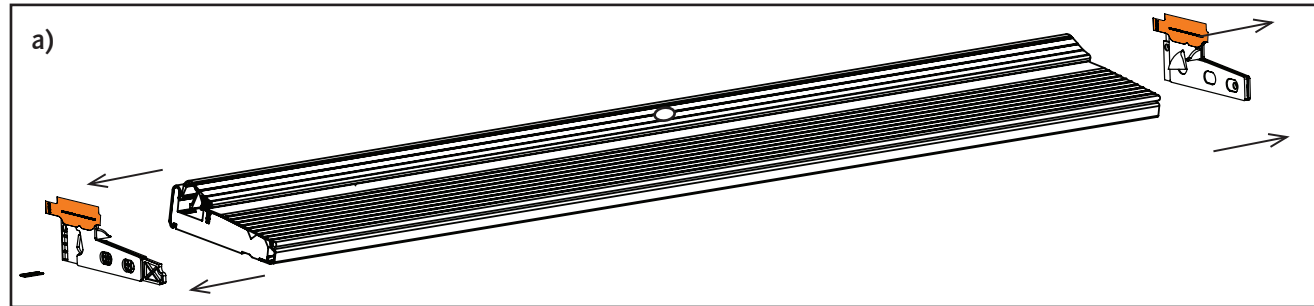


French Door Units

ZAC-AA to ZAC-AA

1. Remove Old ZAC-AA Cap (ZAC-AA to ZAC-AA) French Door Units

- a) Using a flat head screwdriver, pry off both of the old Z-End Bases from each end of the sill.
- b) Starting **at the end of the sill**, depress the cap to its downward position.
- c) Grasp the front of the cap near the sill's dam and rotate it backwards towards the interior side of the sill.
- d) Once the end of the cap is no longer attached to the sill, simply pull the cap up and out of the sill.



2. Cutting Down Cap (ZAC-AA to ZAC-AA) French Door Units Only

⚠ Note: Astragal bolt hole must remain in the center of the cap (If Present).

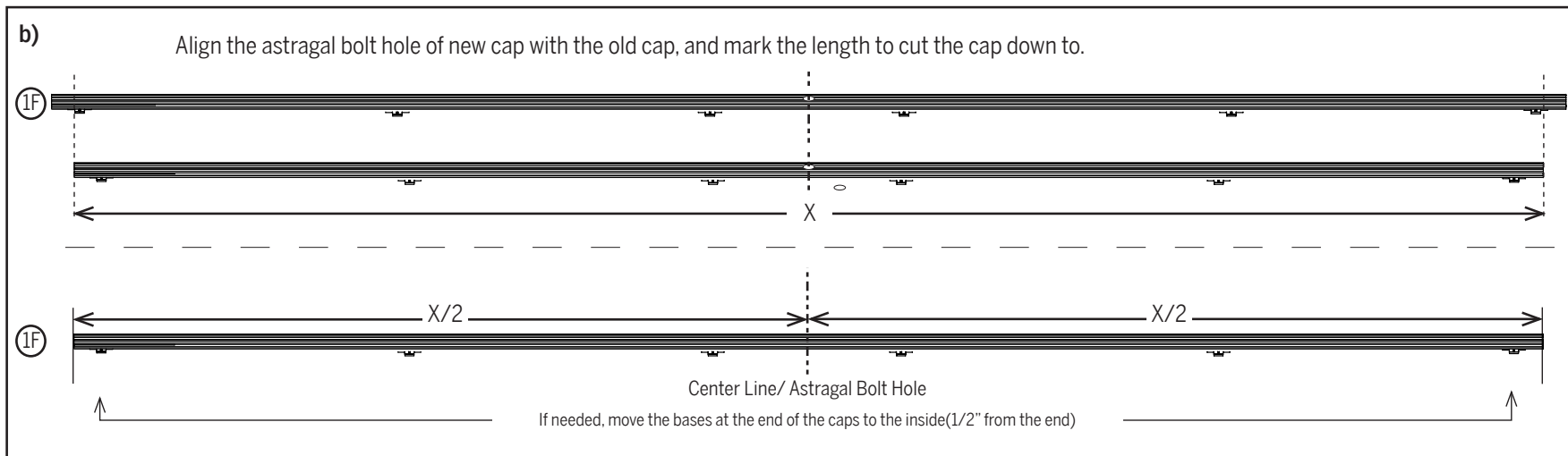
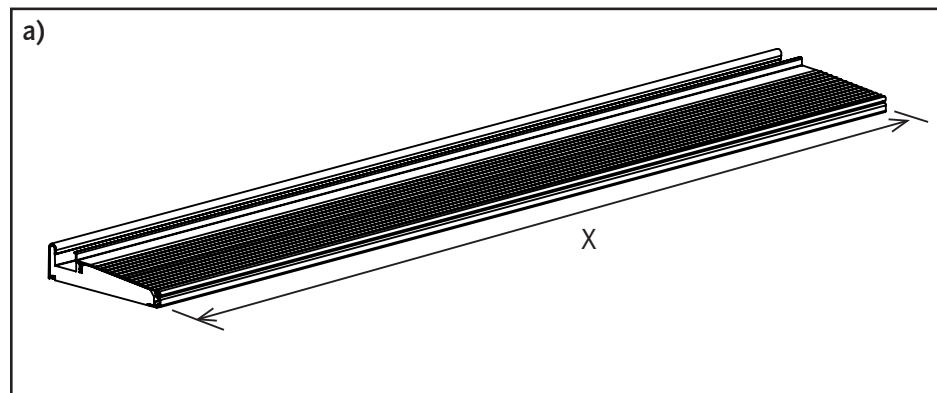
a) Measure the length of the sill without black Z-End Base Assemblies (X).

b) Measure and cut new cap ①F to match length of the sill and old cap.

- Ensure Astragal Bolt Hole remains in center cap.
- Cap should be the same length on each side of the bolt hole/ Centerline- approximately 1/2 of sill length (X/2).


⚠ CAUTION: Measure carefully and cut precisely within 1/32" to ensure proper operation. A cap cut too short will not seal correctly.

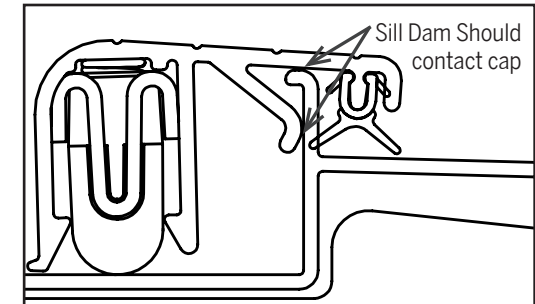
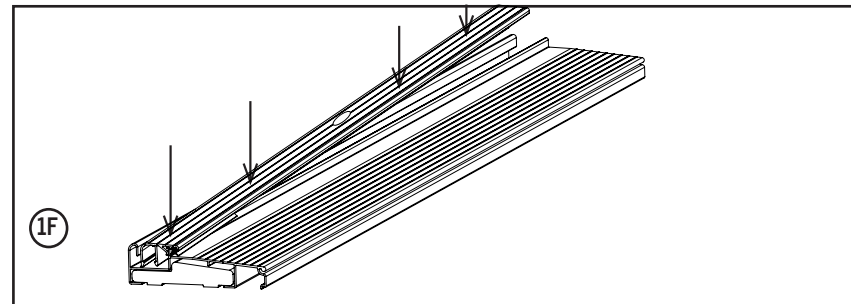
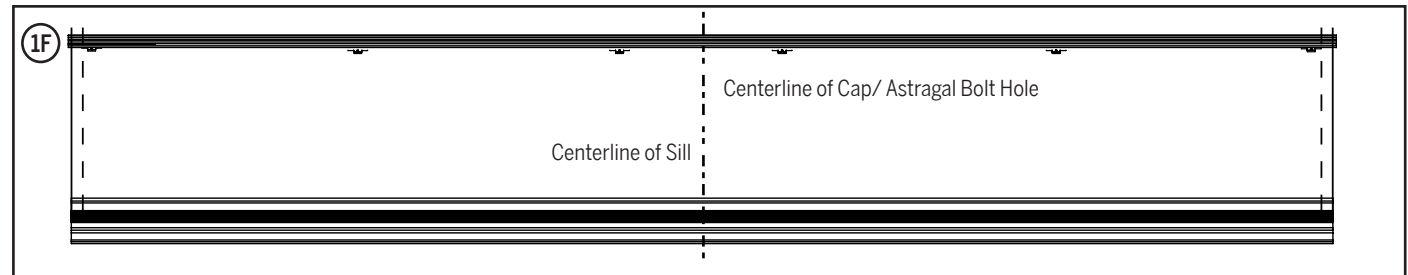
⚠ Note: With the replacement of Existing ZAC-AA, sill length has been cut down to accommodate Z-End Bases. New ZAC-AA Cap should be the same length as the old ZAC-AA Cap and Sill.



4. Install New Cap (ZAC-AA to ZAC-AA) French Door Units Only

- a) Align the centerline/ Astragal Bolt Hole of the loose ZAC-AA (1F) with the centerline of the sill, and insert the cap into sill's channel.
- b) To properly install, flatten the cap while inserting it into the sill channel. Apply pressure to the cap along entire length of sill to fully seat into place.


 Sill Dam should contact the bottom side of the top of the cap, and the angled leg of the cap should contact the back side of the Sill Dam

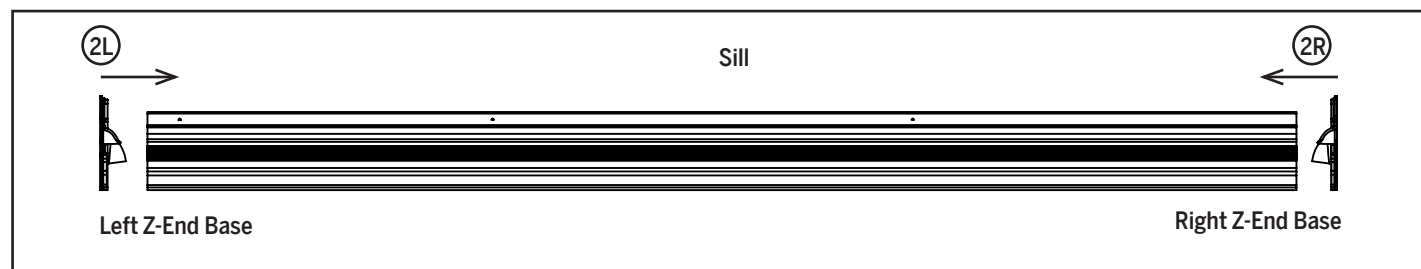
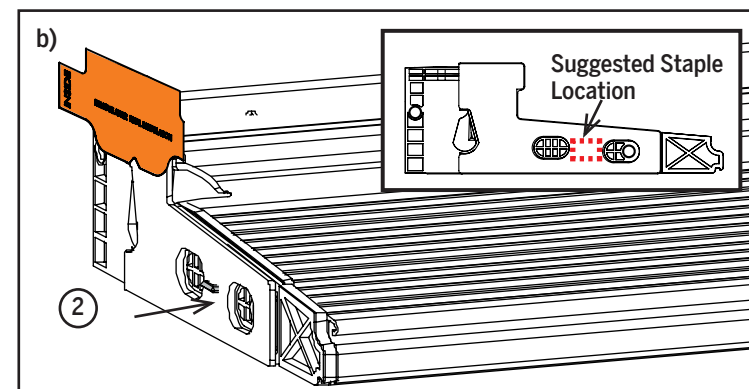
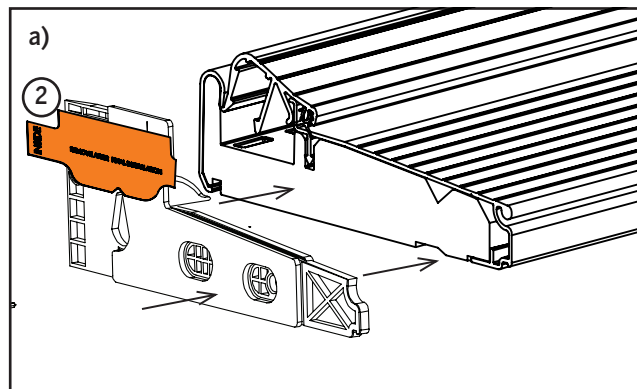



5. Install Z-End Bases (ZAC-AA to ZAC-AA) French Door Units

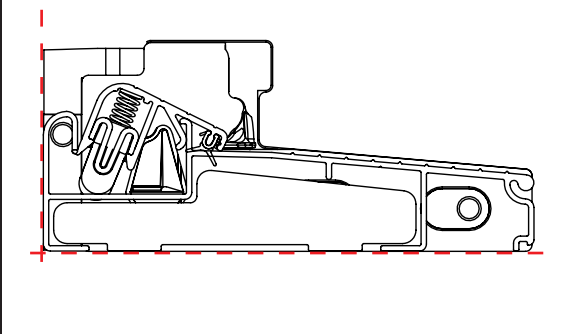
- Align the Z-End Bases (2R & 2L) with each end of the sill and Z-Articulating Cap then attach.
- Secure Z-End Bases (2R & 2L) to the sill with a staple on each side of the sill. Repeat at other end of sill if no Sidelite Cap is present.

 **NOTE:** The Z-End Bases are handed and can only be attached one way. The horn should be inserted into the sill channel.

 Do not remove the orange protective gasket label until cap is fully installed into the door unit.



 **Note:** Z-End Bases Should be aligned flush with the interior facing side of the sill and the bottom of the sill.

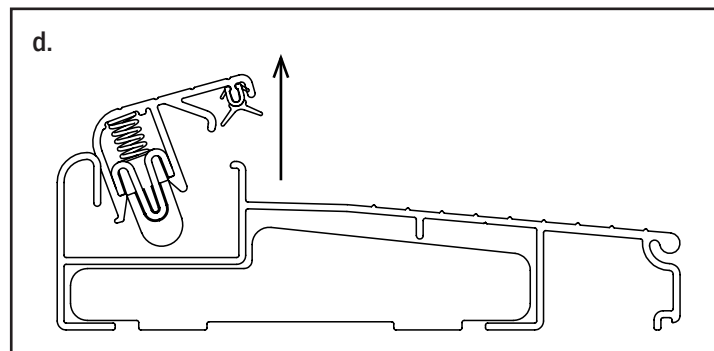
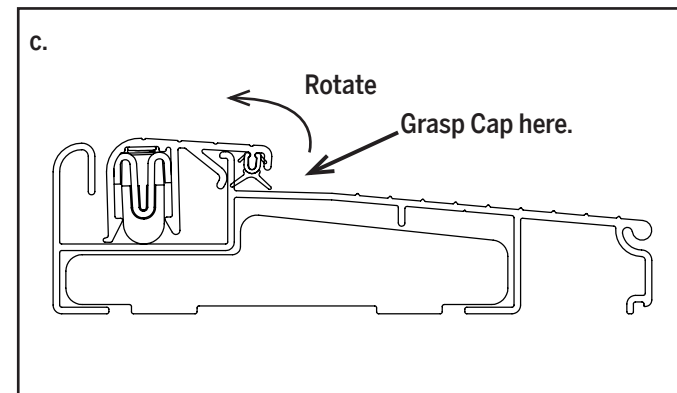
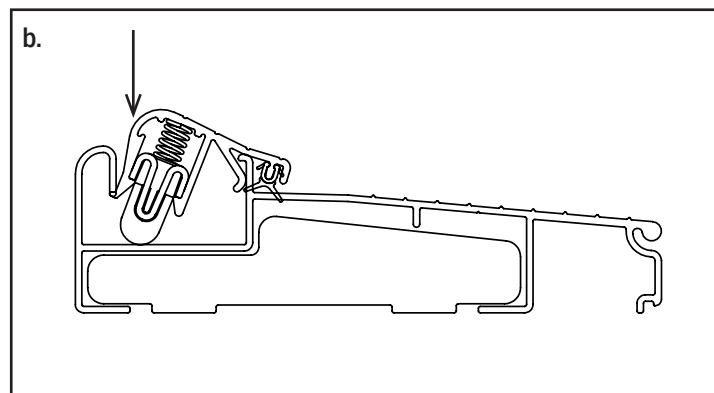
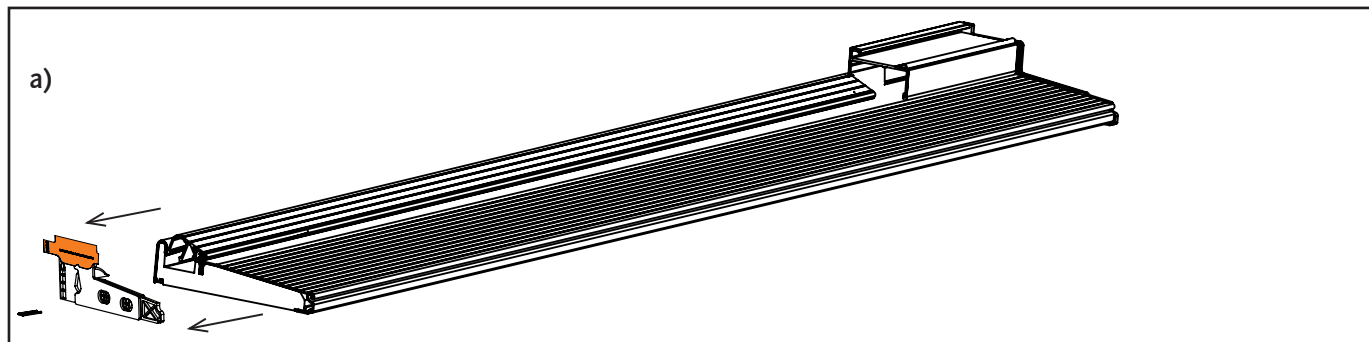


Sidelite and Hinged Patio

ZAC-AA to ZAC-AA

1. Remove OLD Z-Articulating Cap (ZAC-AA to ZAC-AA) Sidelite and Hinged Patio Door Units


- a) Using a flat head screwdriver, pry off both of the old Z-End Base from the cap end of the sill.
- b) Starting **at the end of the sill**, depress the cap to its downward position.
- c) Grasp the front of the cap near the sill's dam and rotate it backwards towards the interior side of the sill.
- d) Once the end of the cap is no longer attached to the sill, simply pull the cap up and out of the sill.




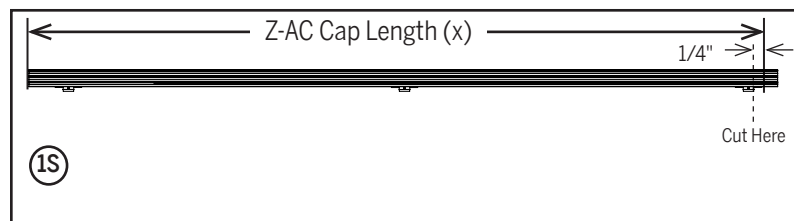
2. Cutting Down Cap and Sill (ZAC-AA to ZAC-AA) Sidelite and Hinged Patio Door Units

a) Measure and cut new cap (1S) to match width of active opening (Standard Sill Length) of the sill minus 1/4".

b) Measure and cut new cap to match width of active opening (Standard Sill Length) of the sill minus 1/4".


 **Note:** With Replacement of Existing ZAC-AA, sill length has been cut down to accommodate Z-End Bases. New ZAC-AA Cap Should be the same length as the old ZAC-AA cap.

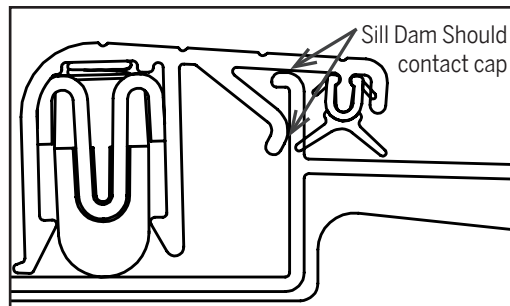
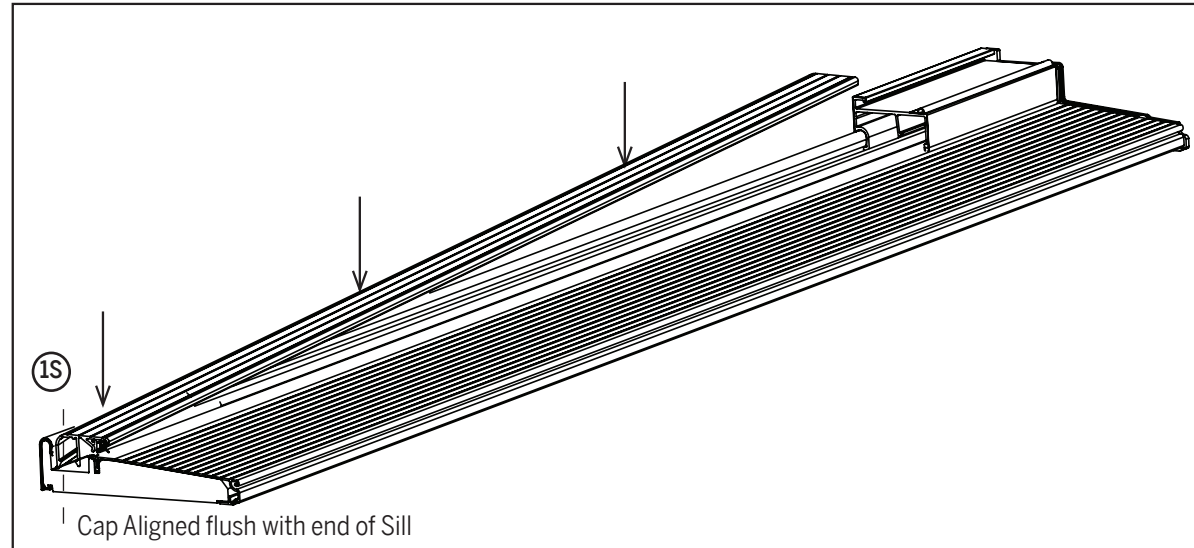
 **CAUTION:** Measure carefully and cut precisely within 1/32" to ensure proper operation. A cap cut too short will not seal correctly.



3. Install New Cap (ZAC-AA to ZAC-AA) Sidelite and Hinged Patio Door Units

- a) Align loose ZAC-AA (1S) flush with one end of the sill and insert cap into sill channel.
- b) To properly install, flatten the cap while inserting it into the sill channel. Apply pressure to the cap along entire length of sill to fully seat into place.

 Sill Dam should contact the bottom side of the top of the cap, and the angled leg of the cap should contact the back side of the Sill Dam

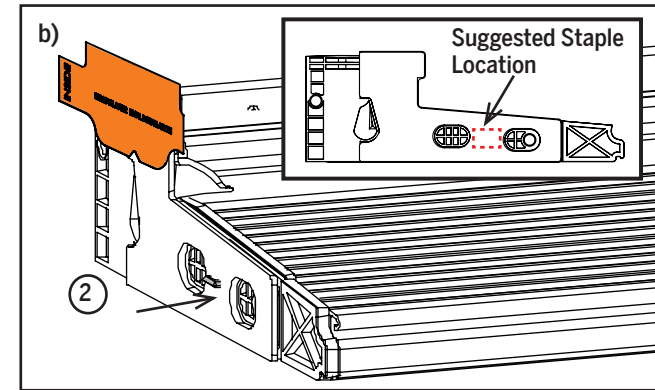
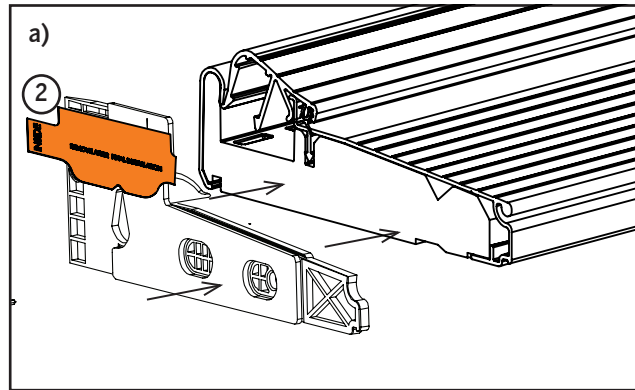


4. Install Z-End Bases (ZAC-AA to ZAC-AA) Sidelite and Hinged Patio Door Units

- a) Align the Z-End Bases (2R) & (2L) with the of end of the sill and Z-Articulating Cap then attach.

NOTE: The Z-End Bases are handed and can only be attached one way. The horn should be inserted into the sill channel.

- b) Secure Z-End Bases to the sill with a staple. Repeat at other end of sill if no Sidelite Cap is present.

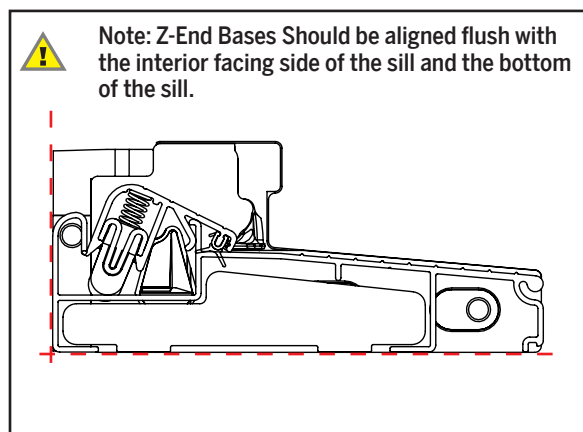
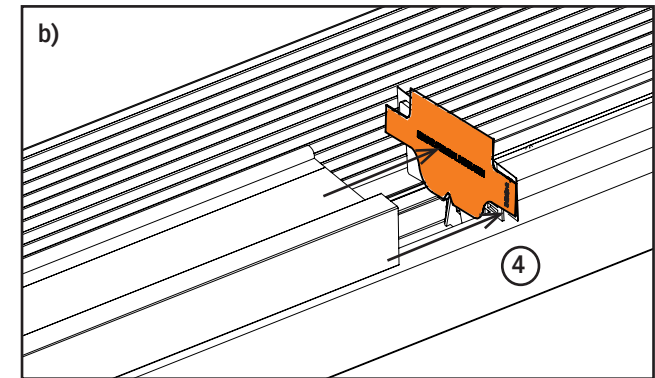
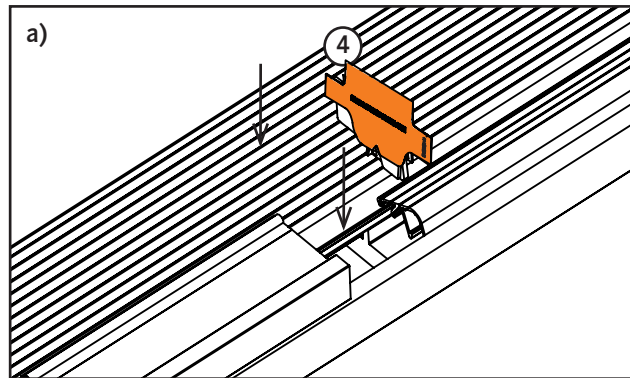


Install the Z-End Base Mull Stiffeners

- a) Insert the Z-End Base Mull Stiffeners (4R) & (4L) into the sill channel between the Z-Articulating Cap and Sidelite Seat.

NOTE: The Z-End Base Mull Stiffeners are handed and can only be attached one way. The horn should be inserted into the sill channel.

- b) Insert the Z-End Base Mull Stiffener into the sill channel between the Z-Articulating Cap and Sidelite Seat.



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