# Installation Procedure

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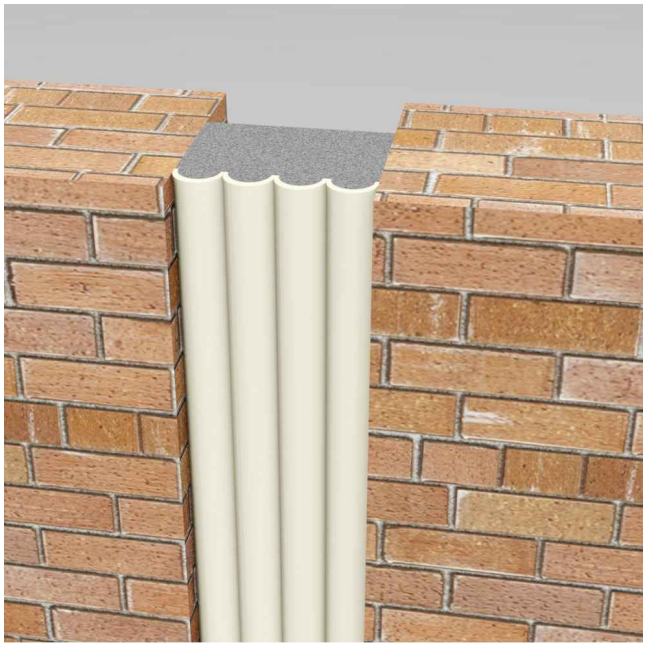

## Wabo®SeismicWeatherSeal "SWS" Vertical Expansion Control Systems

The following installation procedure is very important and must be fully understood prior to beginning any work. To ensure proper installation and performance of expansion joint system the following actions must be completed by the installing contractor. **Failure to do so will affect product warranty**.

1) Carefully read and understand installation procedure. Contact WBA's Technical Service Department at (800) 677-4922 for product assistance.
2) Inspect all shipments and materials for missing or damaged components and hardware. Contact Customer Service at (800) 677-4922 with WBA's order number and invoice for prompt assistance.
3) Inspect substrate or adjacent construction for acceptance before beginning work. Report unacceptable construction to the project manager for scheduled repair work.
4) Review WBA shop drawings for project specific detailed information if Engineering services were purchased at time of order.

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# Standard Components



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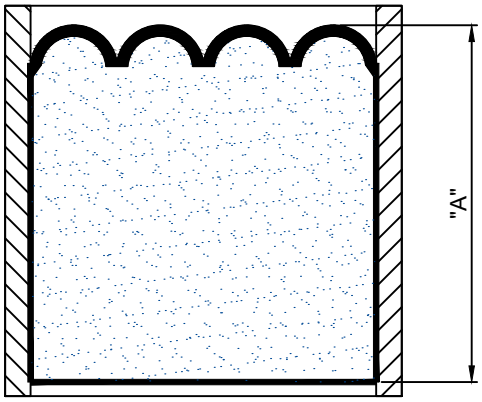


"SWS" Seal
(Refer to chart below for size and part number)

| Model | P/n for Colors Below | | | | "A" | Length | Silicone 790 | Flexible Sealant Tube (10oz) |
|---|---|---|---|---|---|---|---|---|
| | Precast White | Gray | Charcoal | Natural Stone | | | | |
| SWS-100 | 70000 | 70001 | 70002 | 70003 | 1 1/2" | 5' | #80080-92 | (For joint sizes 6" and larger only) |
| SWS-150 | 70004 | 70005 | 70006 | 70007 | 2" | 5' | #80080-92 | |
| SWS-200 | 70008 | 70009 | 70010 | 70011 | 2" | 5' | #80080-92 | |
| SWS-250 | 70012 | 70013 | 70014 | 70015 | 2" | 5' | #80080-92 | |
| SWS-300 | 70016 | 70017 | 70018 | 70019 | 3" | 5' | #80080-92 | |
| SWS-350 | 70020 | 70021 | 70022 | 70023 | 3" | 5' | #80080-92 | |
| SWS-400 | 70024 | 70025 | 70026 | 70027 | 4" | 5' | #80080-92 | |
| SWS-500 | 70028 | 70029 | 70030 | 70031 | 4" | 5' | #80080-92 | |
| SWS-600 | 70032 | 70030 | 70034 | 70035 | 4" | 5' | #80080-92 | 80065 |


Color Matched Silicone Sealant

Silicone 790
#80080-92
(1 Tube for 40ft)

(For joint sizes 6" and larger only)



Two Part Epoxy Adhesive

Part A = WBA P/N: #80050
Part B = WBA P/N: #80051
(2 qt Kits [A&B] = 60ft)


Flexible Sealant Tube
#80065
(10.1oz Tube for 5ft)

Components shown below vary in size depending on model of system

Installation procedure: SWS SeismicWeatherSeal system



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# A. Clean and Prepare Joint Substrate

**Concrete:**

- Prior to beginning work, installer shall inspect and verify that the joint is clean, sound and will provide an appropriate surface (depth) for the installation of the Wabo®SeismicWeatherSeal. Installer shall verify that the joint is uniform and that any spalls are repaired using proper materials and methods. Joint faces must be parallel.
- Confirm joint substrate is dry, clean and ready for the epoxy adhesive.

**Metal:**

- Confirm that the metal is clean and ready for the epoxy adhesive. Solvent wipe the substrate just prior to applying the epoxy.
- Ensure that there is no rust or loose paint on metal substrates before the epoxy is applied.

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# B. Mask Joint & Mixing Epoxy Adhesive

(6" size or Larger Only)

- Before installation of Wabo®SeismicWeatherSeal tape off edges of the substrate to prevent the epoxy from coming into contact with the exposed surface.

**Mix Epoxy**

1. Epoxy adhesive may be used in the >40°F (5°C) to 95°F (35°C) temperature range.
2. Transfer the contents of Part B (hardener) into the contents of Part A (base). Always add Part B to Part A in a 1:1 ratio.
3. Mix the material thoroughly with a low speed drill (300rpm) and mixing paddle. Scrape the walls and bottom of the container to ensure uniform and complete mixing with no streaks. Failure to scrape all the contents out of the containers will cause you not to get the required yield out of each unit.
4. Important: Do not thin the epoxy.

TIPS

1. Mix only the required amount of epoxy that will be used within 20-30 minutes to prevent the epoxy from curing prematurely.
2. Mix equal parts of A & B for at least 3 minutes until the material is a uniform gray color.
3. Epoxy will not cure when the temperature is below 40°F.
4. For every +17°F, the epoxy cures twice as fast.
5. For every –17°F, the epoxy twice as long to cure.

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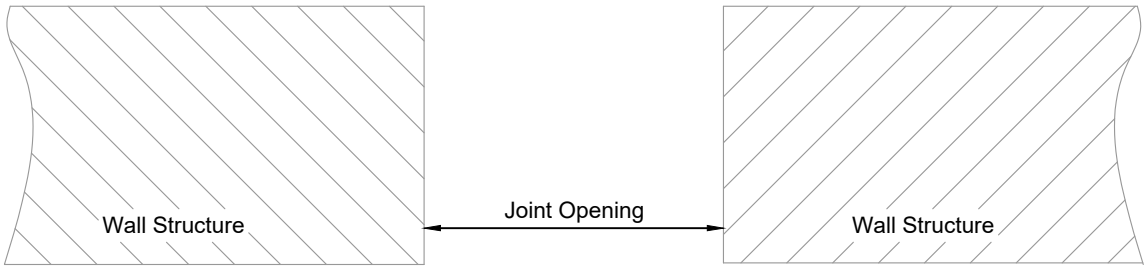
# C. Apply Epoxy to Substrate, Unwrap Material

(6" size or Larger Only)

1. Mix only the required amount of epoxy that will be used within a 30 minute time frame to prevent the epoxy from curing prematurely.
2. WARNING: Epoxy will harden more quickly when left in the pot. Apply mixed epoxy onto the joint face as soon as possible.
3. IMPORTANT: The epoxy must still be uncured and tacky when installing the expansion joint sealant into the joint.
4. If the epoxy cures before installing the Wabo®SeismicWeatherSeal, new epoxy can be reapplied within 2 hours.
5. After 2 hours, the substrate must be abraded to eliminate the amine blush that occurs in the final cure.
6. IMPORTANT: While others are applying the epoxy to the joint faces, others must prepare the Wabo®SeismicWeatherSeal. The foam should be kept under compression in the original packaging until immediately needed.
7. Cut the plastic packing by cutting on the side with the hardboard and remove hardboard and inner liner. DO NOT cut along the silicone face.
8. After cutting the shrink wrap, work quickly to avoid the material expanding beyond a usable size. Do not pull or twist the material to avoid tearing the release liner.
9. Apply epoxy to ensure contact with full height of Wabo®SeismicWeatherSeal expansion joint system profile.

## Installation Procedure




| Model | Joint Opening |
|---|---|
| SWS-100 | 1" |
| SWS-150 | 1 1/2" |
| SWS-200 | 2" |
| SWS-250 | 2 1/2" |
| SWS-300 | 3" |
| SWS-350 | 3 1/2" |
| SWS-400 | 4" |
| SWS-500 | 5" |
| SWS-600 | 6" |

1 Prior to beginning work, installer shall inspect for proper wall construction and ensure that joint opening has enough depth to accept Wabo®SeismicWeatherSeal and the recommended 1/4" Recess. Verify joint opening as called for on chart. Deficiencies in joint opening must be corrected prior to beginning work. Such as spalled edges and pertruding objects to ensure a clean, smooth, dry surface for installation of Wabo®SeismicWeatherseal.

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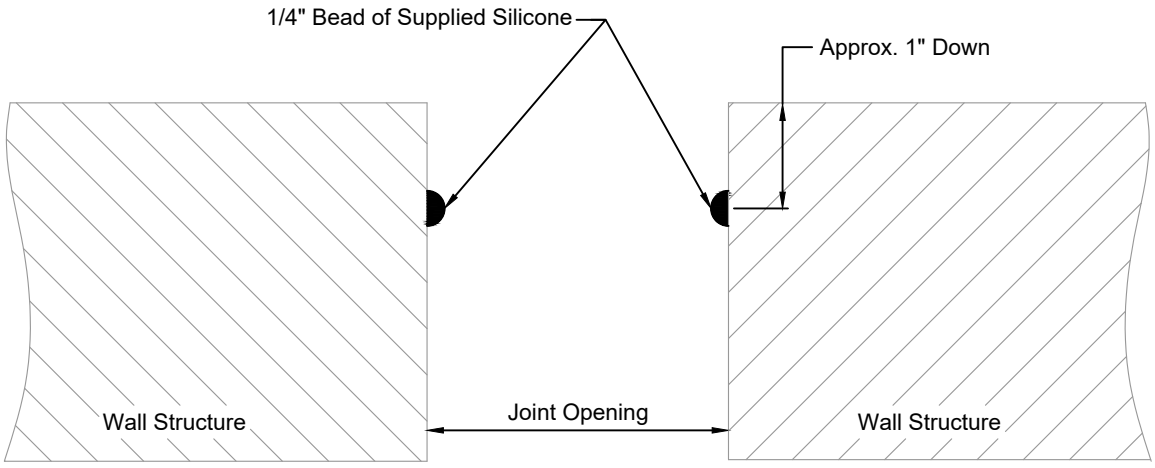
**Important Note:**

Make any cuts to Wabo®SeismicWeatherSeal **before removing** the clear shrink wrap packaging. All starting and ending pieces must be square to the termination point.

**For directional changes please refer to Step 7 and Step 8 for instructions.**

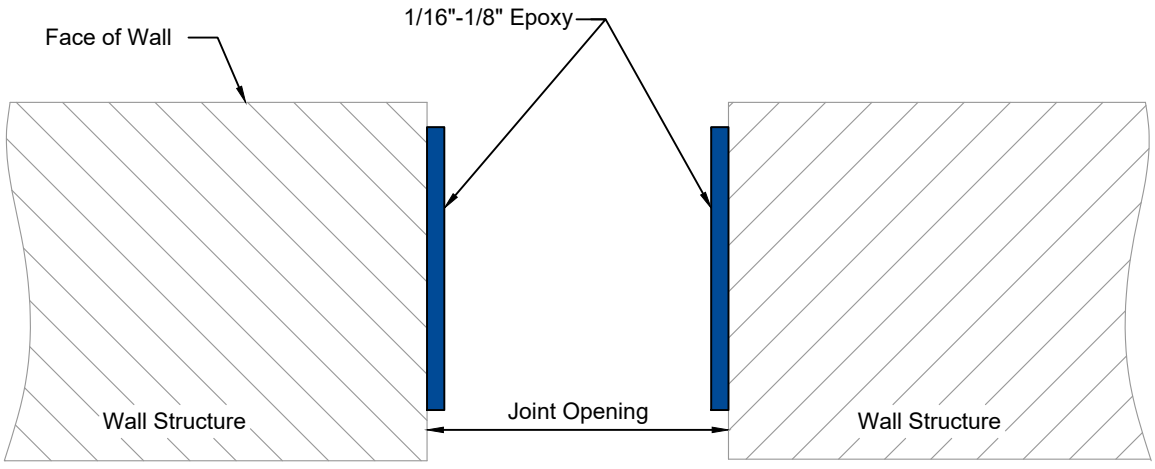



3a

Before installation of Wabo®SeismicWeatherSeal, apply a 1/4" bead of Color matched Silicone Sealant on the inside face of the Joint Opening.

## Installation Procedure

(For sizes 6" and larger")




3b

Apply a 1/16" - 1/8" coating of epoxy to both sides of the joint substrate using a 1" margin trowel (or gloved hand) to the depth of the foam. The epoxy must still be wet upon the installation of the Wabo®SeismicWeatherSeal.

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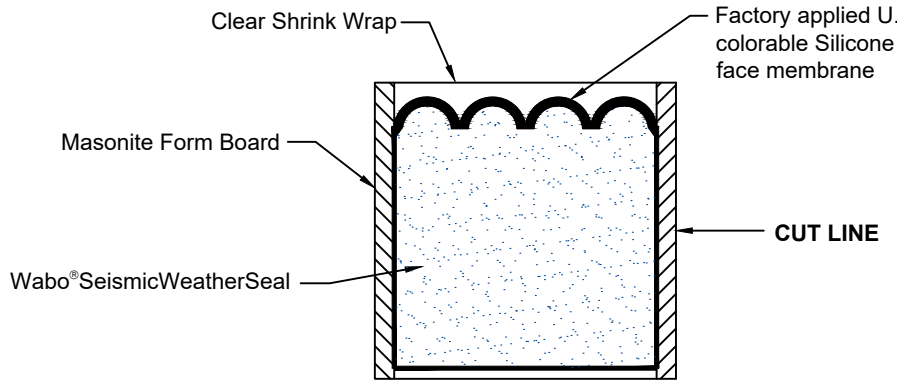
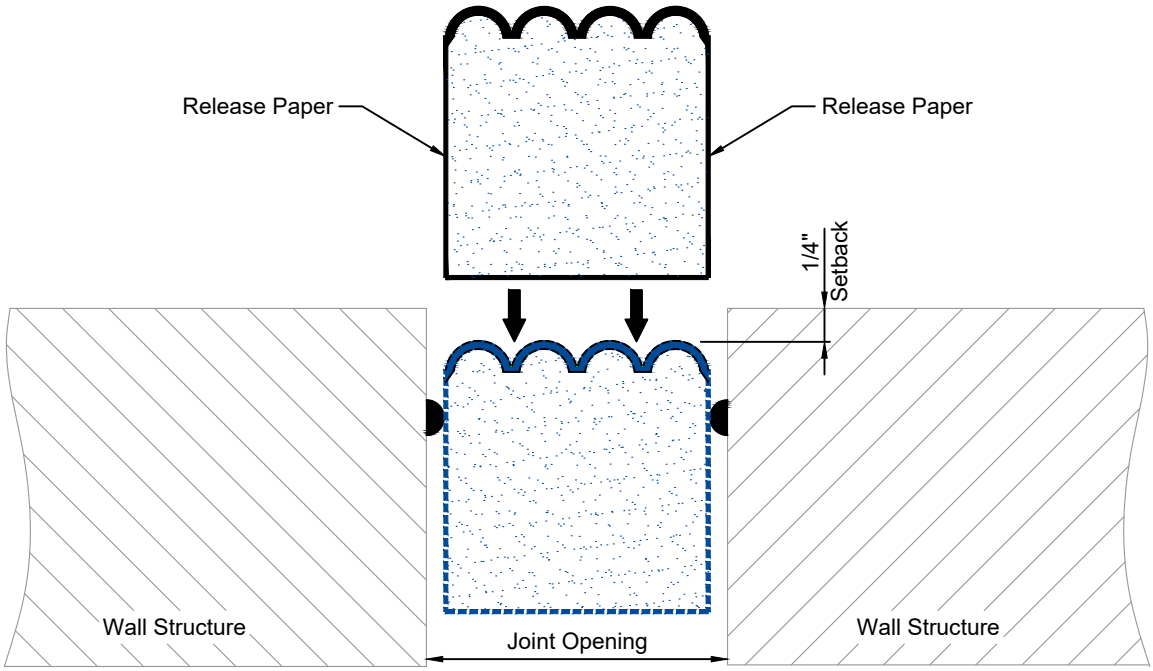



**4** When fully prepared to install Wabo®SeismicWeatherSeal, cut the shrink wrap packaging.

**Note:**

When removing shrink wrap packaging, cut along Masonite Form. This is to ensure that the colorable Silicone Face has not been cut.




**5** After the shrink wrap packaging and masonite forms have been removed, you can start to install the Wabo®SeismicWeatherSeal starting from the bottom to the top so that the seal is recessed 1/4" from the face of the wall. To help activate the pressure sensitive adhesive, use a putty knife to press the seal against the inside face of joint opening.

**Note:**

If pressure sensitive adhesive is hampering installation, use a spray bottle to wet the adhesive surface of Wabo®SeismicWeatherSeal. This will not impact the final sealing properties.

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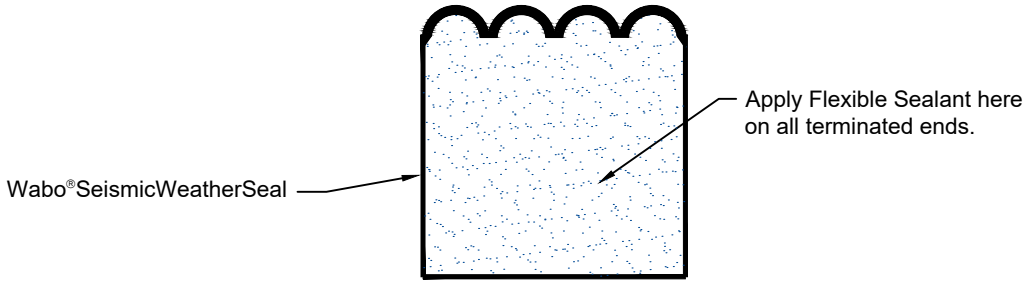
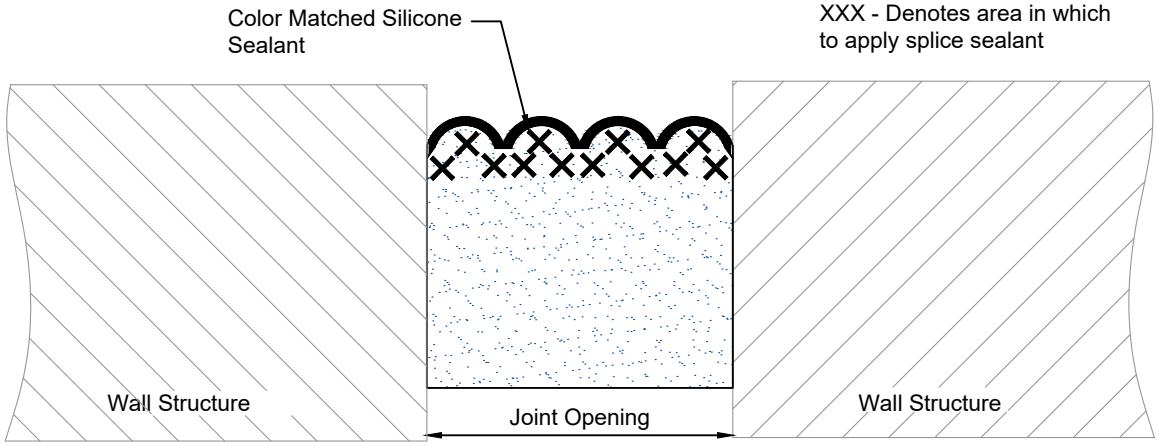
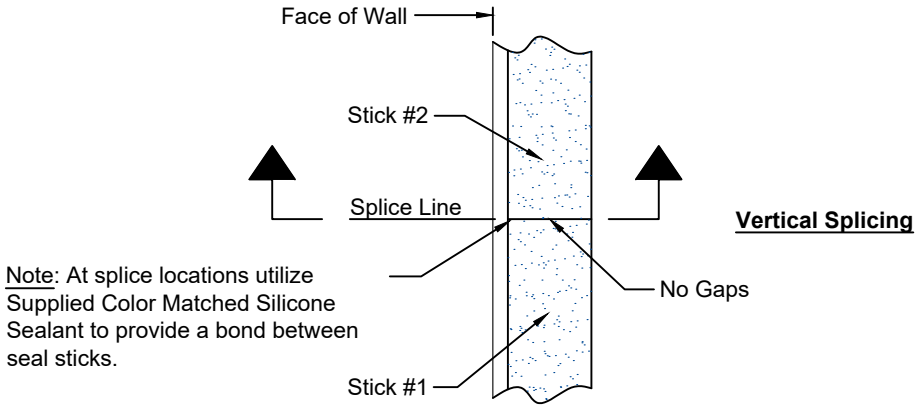



5A

**IMPORTANT NOTE:**

At all exposed terminated ends (including any and all Factory Transitions), apply a liberal coat of Clear Flexible Sealant to the entire surface of the Foam terminated end(s). Doing so will ensure proper moisture resiliance. Do not coat faces of the Wabo® SeismicWeatherSeal with the Clear Flexible Sealant that will come in contact with epoxy.




**Vertical Splicing**

Note: At splice locations utilize Supplied Color Matched Silicone Sealant to provide a bond between seal sticks.

6

At all splice locations, apply a bead of Color Matched Silicone Sealant at the exposed edge of the Wabo®SeismicWeatherSeal. This is to ensure a proper bond between the factory applied Silicone on each seal stick.

**Notes:**

1. After the Silicone sealant has been installed, repeat installation of Wabo®SeismicWeatherSeal starting from Step 3. Exercise caution so that there are no gaps between each seal stick section during installation.
2. After installation of each stick, tool the splice location smooth using additional supplied silicone if necessary. This will provide a finished surface and hide the splice location as well.

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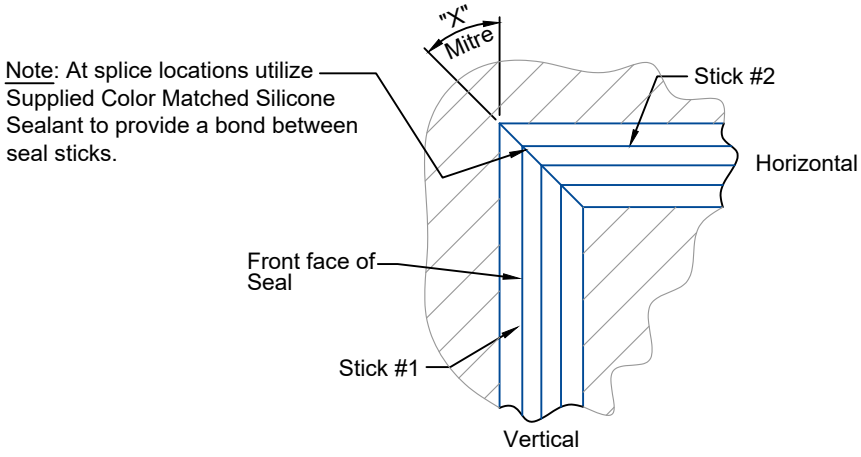
## Horizontal Directional Change at Face of Building




**7** At a Horizontal Directional change at face of building, cut Wabo®SeismicWeatherSeal to desired angle of transition.
**Note:**
Prior to cutting Wabo®SeismicWeatherSeal, make sure not to remove shrink wrap packaging.

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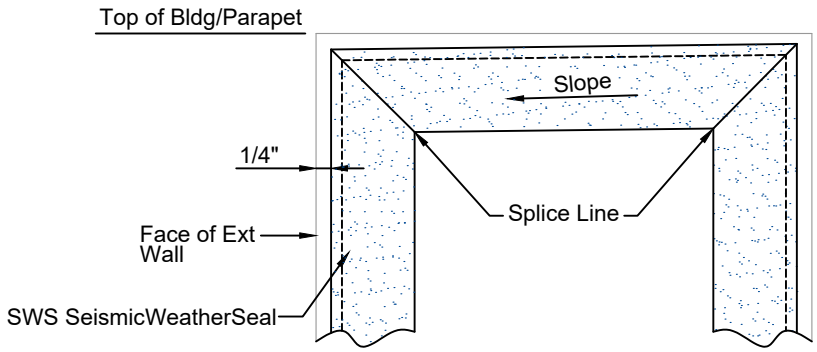
## Vertical Directional Change at Top of Building wall/Parapet




**8** At parapet transition locations, cut Wabo®SeismicWeatherSeal to the desired angle of transition.
**Note:**
Prior to cutting Wabo®SeismicWeatherSeal, make sure not to remove shrink wrap packaging.

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**9** **Tips:**
Wabo®SeismicWeatherSeal will expand faster when hot and slower when cold. In cold temperatures, store material in a heated area for 24hrs prior to installation. In hot temperatures, **store material out of direct sunlight and not in an enclosed storage container** where temperatures may exceed 100°F.

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