



# Installation Procedure

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## Wabo® WeatherSeam Model(s) "WSW 1600, 2000 & 2400" Horizontal & 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.

# Standard Components

\*  $\frac{1}{4}$ " x 2  $\frac{1}{2}$ " Screw Anchor  
(P/N - 5782)

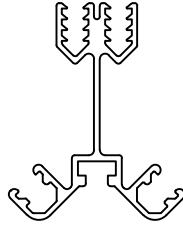
$\frac{1}{4}$ " Dia x 2" Bolt  
(P/N - 4837)

#10-24 x  $\frac{1}{2}$ " Lg Csk. Screw  
(P/N - 5573)

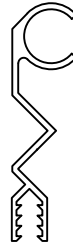
Plastic Insert  
(P/N - 5786)



Wall Mount Aluminum Extrusion  
(Exterior) (P/N - 1296)



Aluminum Center Profile  
(Exterior) (P/N - 1293)



Wall Mount Aluminum Extrusion  
(Interior) (P/N - 1295)

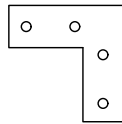
Aluminum Center Profile  
(Interior) (P/N - 1294)



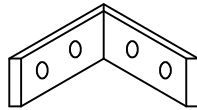
NP-1 Sealant  
(P/N - 2826)



\* PP Primer  
(P/N - 2717)



\* 90° Splice Plate  
Aluminum (Supplied by others)



\* 90° Horiz. Splice Plate  
Aluminum (Supplied by others)



\* Horiz. to Horiz.  
Splice Clip  
Seal only (P/N: 1193)



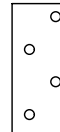
\* 241F Adhesive  
(P/N - 2716)



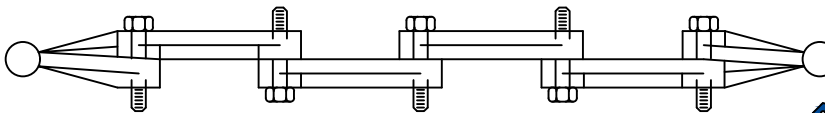
\* Butt Splice Clip  
Seal only (P/N: 1192)



Horiz. to Vert. Splice Clip  
\* Seal only (P/N: 1194)



\* Butt Splice Plate  
Aluminum (Supplied by others)



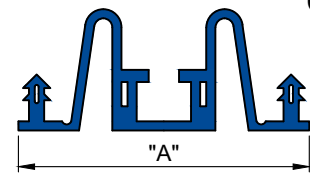
Pantagraph  
(P/N - 15501)



Moisture Barrier  
(P/N - 1175)

\* Optional Components for Splice Procedures. Place order for required Quantities

Components shown below vary in size depending  
on model of system



Elastomeric Visual Seal  
(For Part Number Refer to Chart)

Dimension Chart & Part Number		
Model	"A"	Part Number
WSW-1600	4"	1342
WSW-2000	5"	1262
WSW-2400	6"	1362

Dimension Chart & Part Number		
Model	"B"	Part Number
WSW-1600	2'-8 3/8"	15644
WSW-2000	3'-6 3/8"	15605
WSW-2400	4'-2 3/8"	15641



Self-Centering Bar  
(For Part Number Refer to Chart)

Sheet  
1  
of 7

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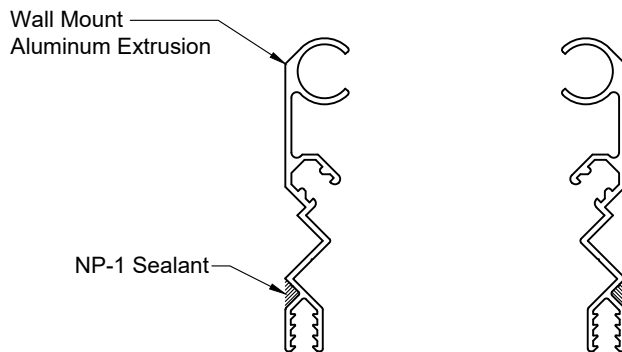
Installation procedure: WSW WeatherSeam 4 Seal system

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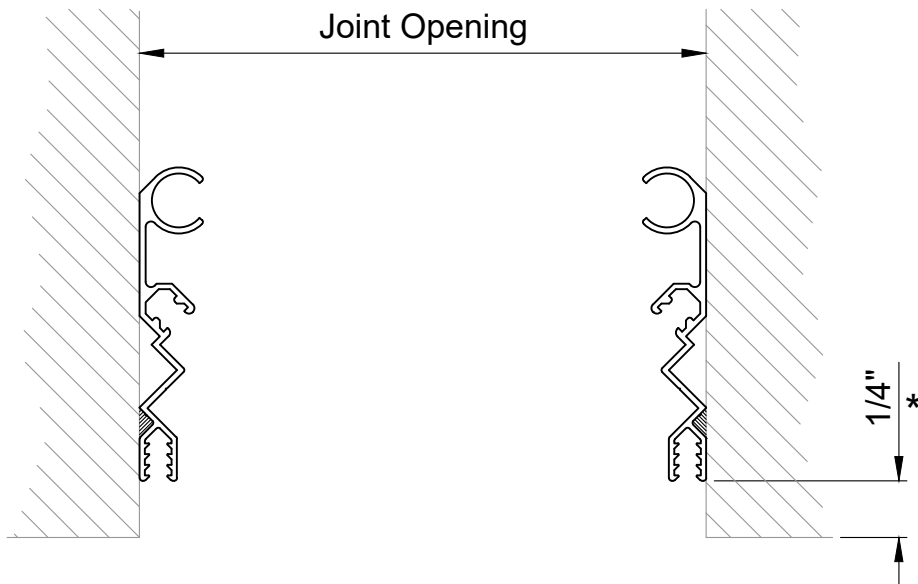
## Flush Condition

**Note:** Review entire procedure before beginning. If step 7 is not possible due to limited space follow steps 5-7 first outside of joint opening, then do steps 1-4 and then install seals.



1

- Apply continuous bead of NP-1 Sealant along back of the aluminum extrusions prior to installation. (exterior only)



2

- Field measure all lengths and directional changes for aluminum extrusions to ensure their proper layout where required. Temporarily fix extrusions to wall surface in position as shown for field drilling operations.

\* Note: Always review architectural plans for specific project requirements

Sheet  
2  
of 7

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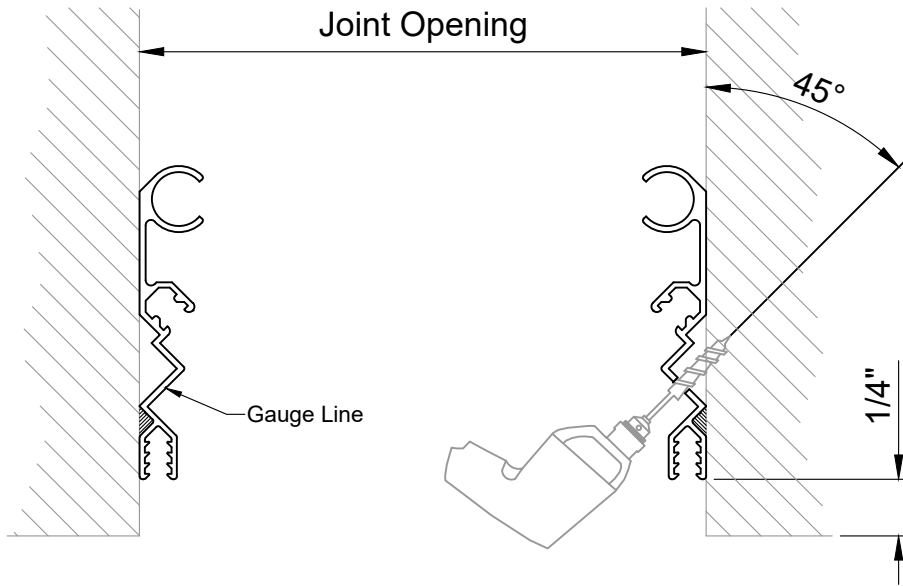
Installation procedure: WSW WeatherSeam 4 Seal system

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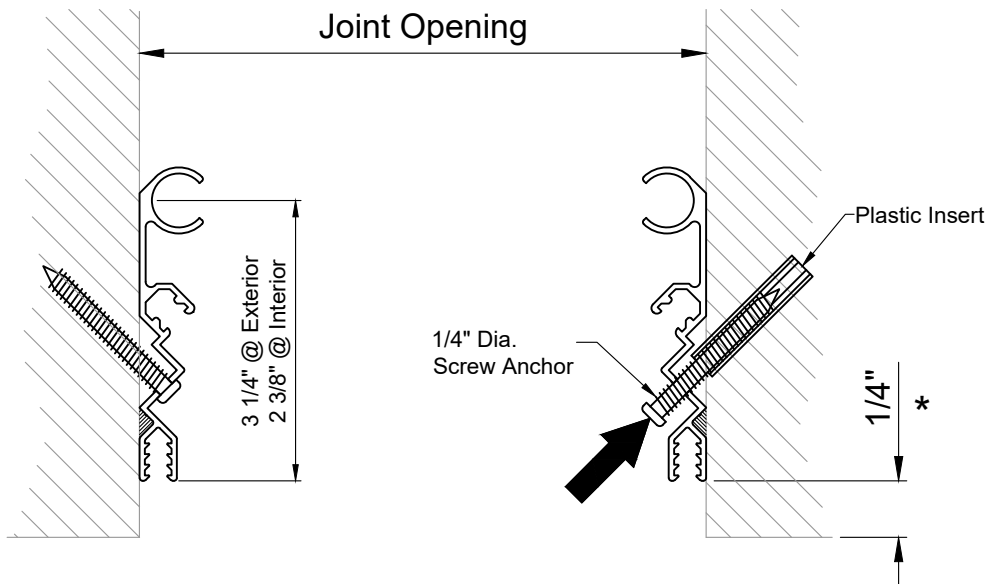
**Installation procedure: WSW WeatherSeam 4 Seal system**

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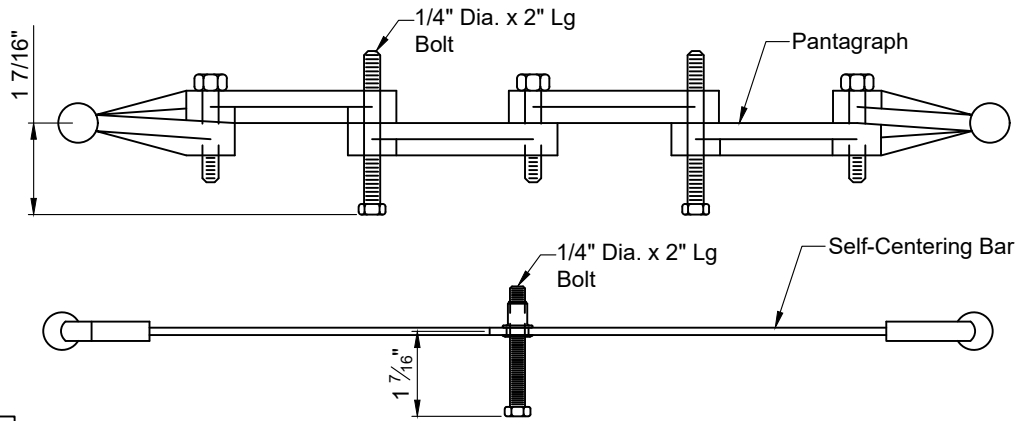
**3**

- Field drill anchor holes at 18" O.C. (Max) along aluminum gauge line. Drill through aluminum into adjacent construction on a 45° angle.  
Note: All mortar joints in exterior walls must be flush with face of masonry to ensure tight weather seal.



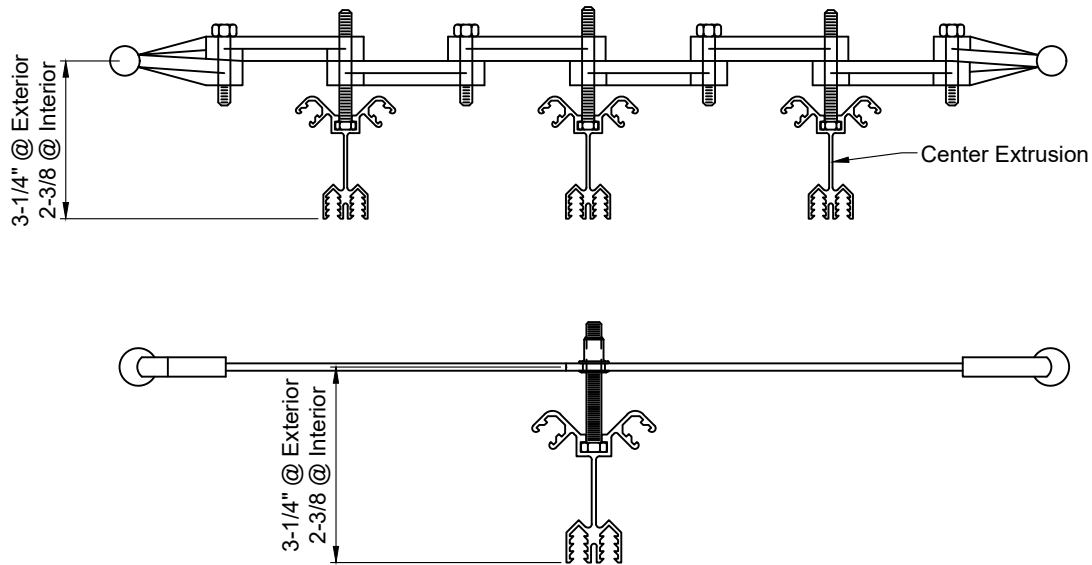
**4**

- Secure aluminum extrusions using appropriate anchors supplied by manufacturer.  
Note: Utilize plastic inserts for securing Aluminum Extrusions to wall, if wall construction is either CMU or a Masonry wall.



**5**

- Adjust 1/4" dia. Bolts on the Pantographs to achieve dimension show and thread the same size bolt thru the Self-Centering Bar to achieve dimension shown.

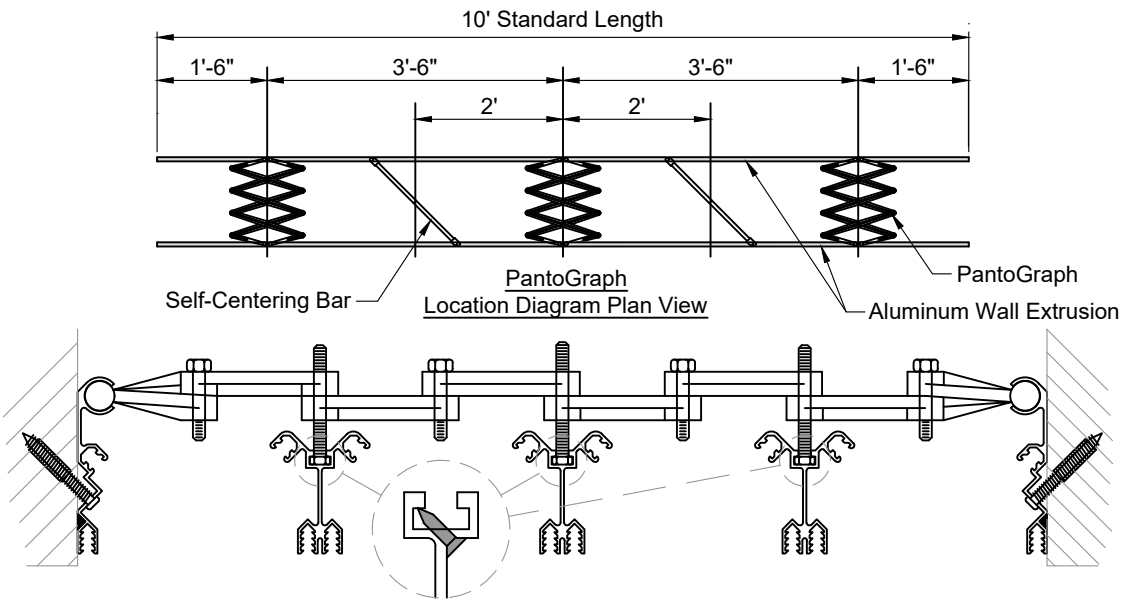


**6**

- Adjust bolts in Pantographs to achieve dimension show and slide bolt head into Center Extrusion cavity.

Installation procedure: WSW WeatherSeam 4 Seal system

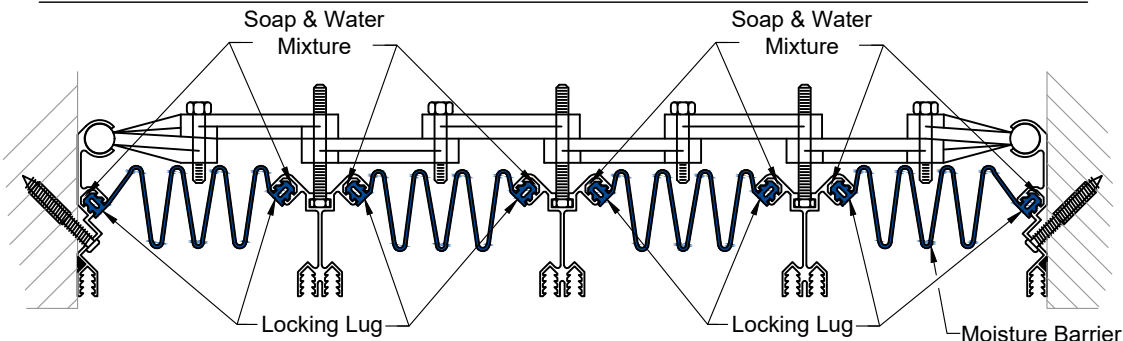
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**7**

- Set Center Extrusion with Pantographs and Self-Centering Bars into joint opening sliding the spheres ends of the bars into the circular cavity of the edge Extrusions. Adjust bars to correct spacing (use diagram top of page.) one at a time and drill in the #10 - 24 x 1/2" csk flat head self tapping screw into the Center Extrusion bolt cavity below the bolt head at proper spacing to hold Pantographs and Self-Centering Bars in place.

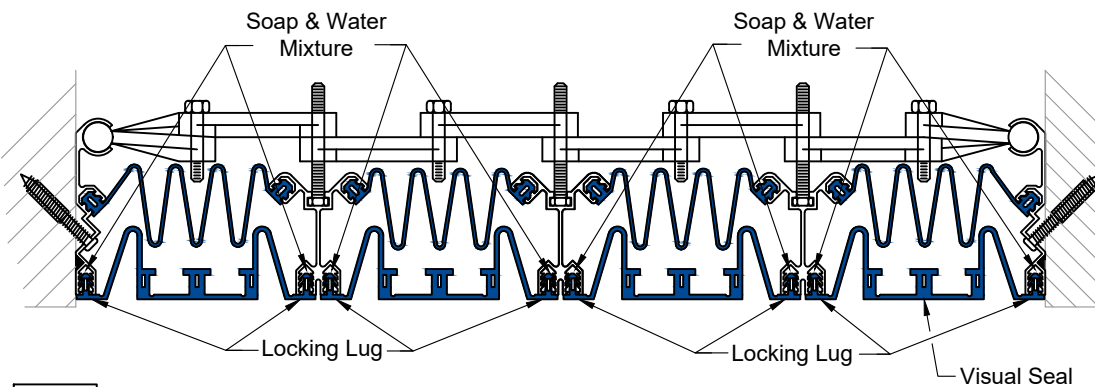
Note: If area to perform step 7 is limited refer to the general note on page 2 on optional method of assembly.



**8**

- Adjust bolts in Pantographs and Self-Centering Bars to achieve dimension show and slide bolt head into Center Extrusion cavity.

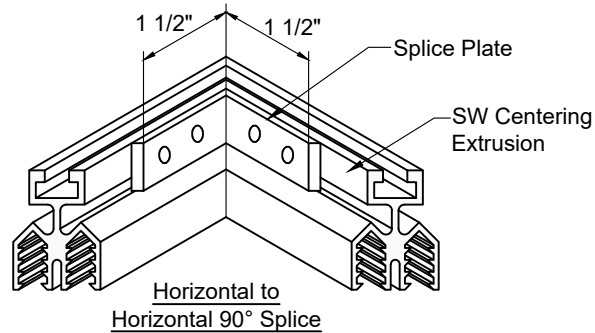
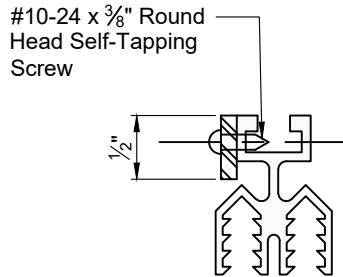
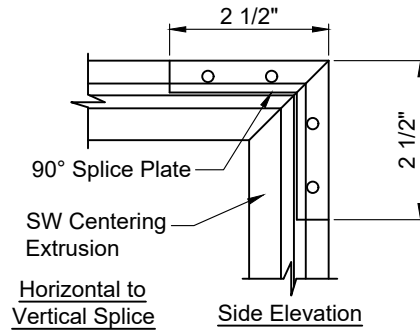
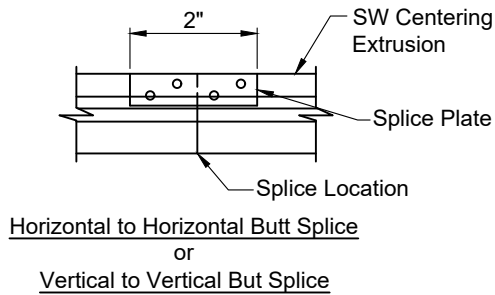
Note: See step 7 to view appropriate arrangement of Pantographs and Self-Centering Bars.



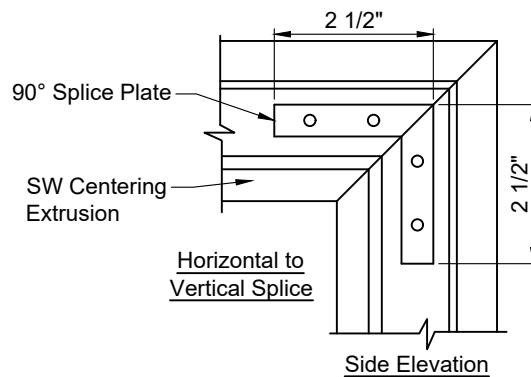
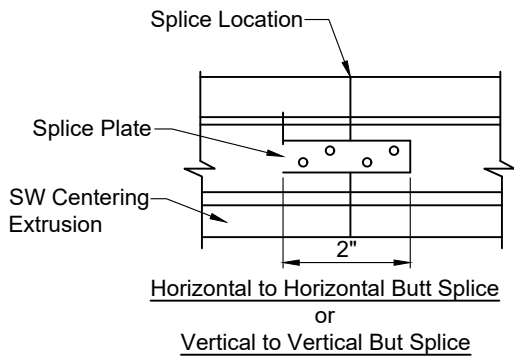
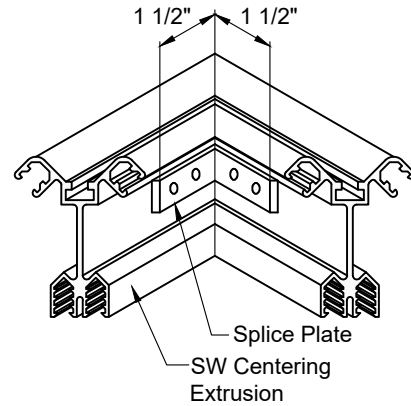
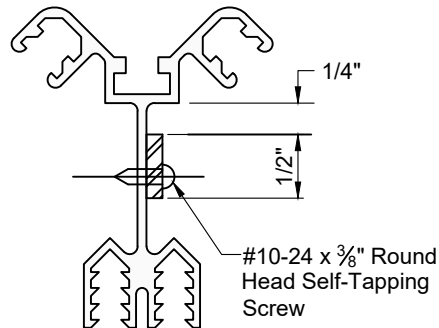
**9**

- Brush apply Soap & Water Mixture into extrusion cavity and install visual seals. Ensure full engagement of the lug.





## Interior Extrusion Splice Details



## Exterior Extrusion Splice Details

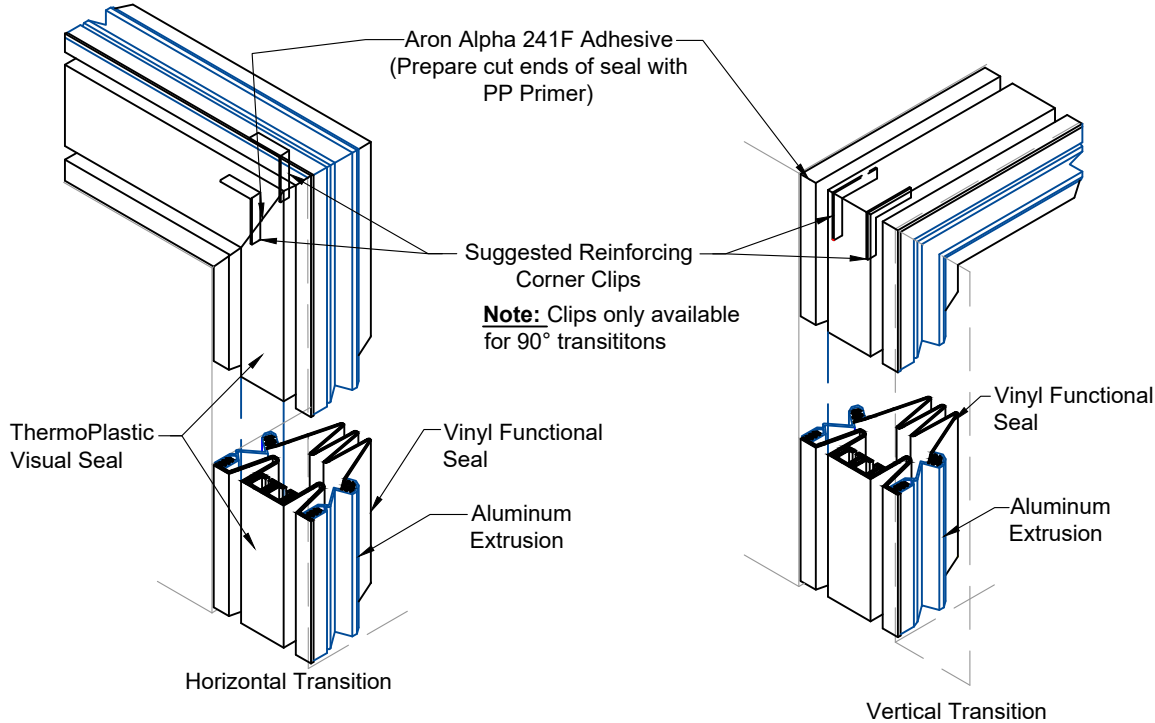
Sheet  
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of 7

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Installation procedure: WSW WeatherSeam 4 Seal system

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## "WSW" Visual Seal Field Splice Procedures

Used for direction changes, Going around corners, Parapets, Etc  
(Santoprene Only)

1. Cut ends of the WSW visual seal, with a sharp knife, to the desired angle using a formed jig with miter box (supplied by contractor). Insure cuts are clean, straight and square.
2. Cleans ends of seal with a solvent to remove any foreign material.
3. Brush apply PP Primer to both seal ends to be joined together at splice.
4. Reassemble mitered ends of adjacent seals utilizing the reinforcing corner clips (for 90° transitions only).
5. Apply 241F adhesive as specified by the manufacturer to one of the two seal surfaces to be bonded.
6. Apply pressure bringing the two surfaces in tight contact immediately upon completing application of the adhesive. Hold in place for approximately one to two minutes to allow adhesion.
7. Re-check quality of all miters or splices and apply additional adhesive if required to ensure proper miter or splice.
8. Contact manufacturer for clarification of above procedure (if required) prior to proceeding with splicing visual seal profile. It is usually recommended to allow 15 minutes time before installing spliced seal. Care shall be excersised as a result that it takes 24 hours for adhesive to fully cure.

Installation procedure: WSW WeatherSeam 3 Seal system

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