

Installation Instructions

Joint System: 491E-A07/A09

NOTE: Verify that the structural gap and blockout dimensions are in conformance with submittal data before beginning installation. If this is a Fire Rated Assembly, the fire barrier must be installed before the Architectural Joint System. Refer to the fire barrier instructions for specific system installation.

For installations subject to non-conditioned applications, a thermal gap is required between the end-to-end connections of the frames and covers. When installing in warm conditions (ie- 75F / 22C or greater), the covers can abut each other directly, however during cooler weather installs (70F / 21C or less), the recommended gap width between frames and covers is 1/8" (3mm) min. Prior to installing the next frame in sequence, apply polyurethane sealant (By Others) to the end of the frame / cover before seating the next profile.

Fig. 1 (491E-A07 Wall to Wall shown)

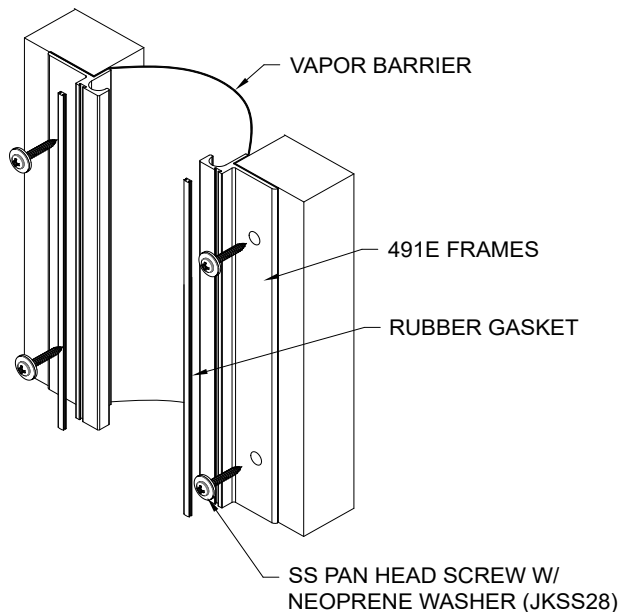


Fig. 1a (491E-A09 Wall to Corner shown)

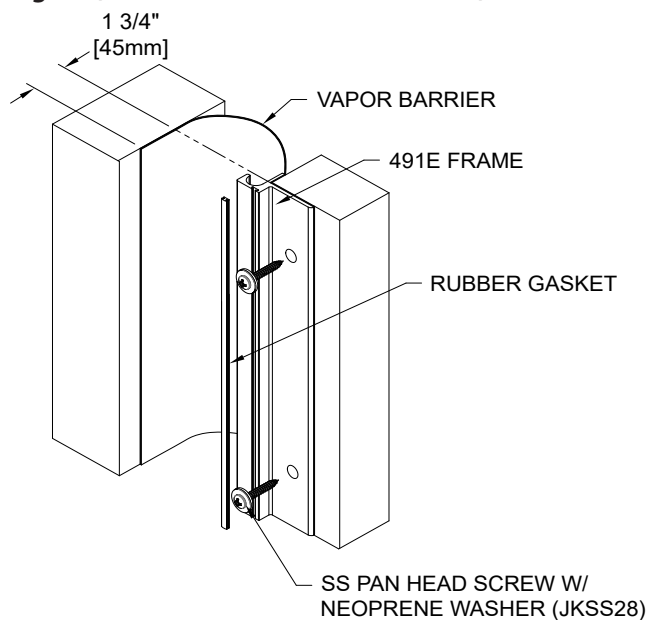


Figure 1 and 1a

1. Install the architectural joint system on a level wall or ceiling surface. This may require shimming of the frames to align the tops of the aluminum frames.
2. Secure JointMaster reinforced vapor barrier (RVB) to the substrate by setting it in a bed of Butyl or Polyurethane sealant (by others). This is to be done to the RVB on both sides of the joint.
3. Provide another bed of Butyl or Polyurethane sealant (by others) to the front side of the RVB where the sub-frames are to be placed.
4. For the A09 wall to corner apply sealant behind the 1 3/4" [45mm] leg of cover (Both sides of the joint). (See Figure 1a).
5. Cut the aluminum components to the desired length.
6. Place the aluminum frame(s) on top of the substrate with the radius profile of the frames facing the structural gap.
 - 6a. For A07 wall to wall system, center the aluminum frames over the structural gap. (See Figure 1).
 - 6b. For A09 wall to corner system, place the frame at the edge of the butt wall. (See Figure 1a).
7. Align frames plumb. Secure to the substrate with JKSS28 SS pan head screw w/ neoprene washer spaced 18" [457mm] on center starting 6" [152mm] from each end.
8. Slide the rubber gasket into the groove on the aluminum frames starting from the top.

IPC. 3287/rev.3

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Fig. 2

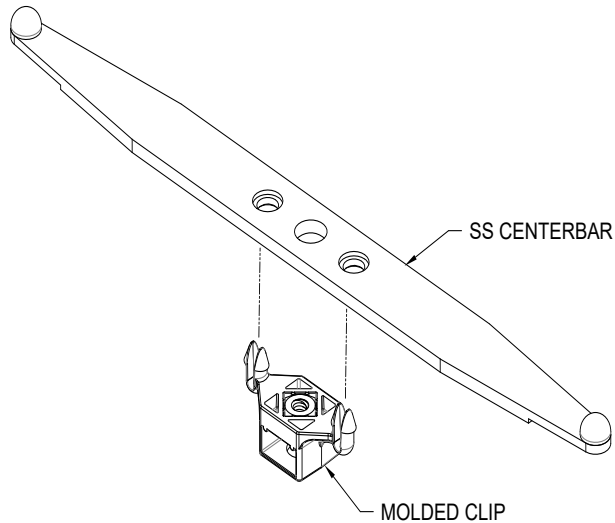


Figure 2

9. Assemble molded clip to the centerbar with ball ends facing up.

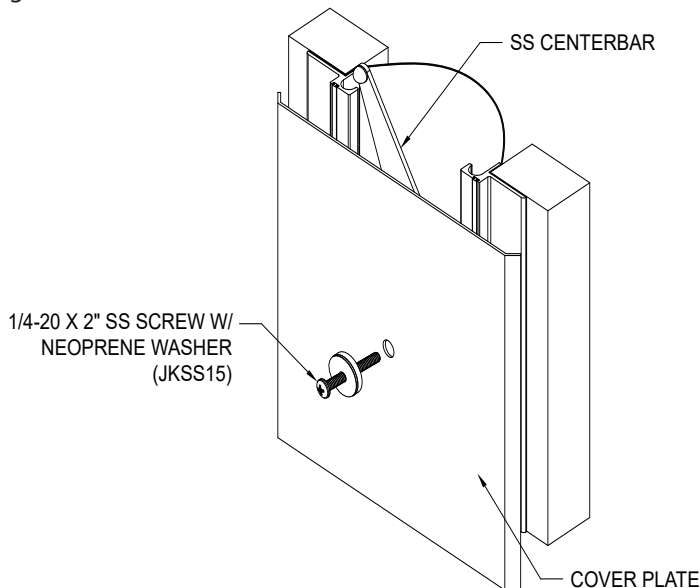
Figure 3

FOR WALL TO WALL SYSTEMS (A07 Model):

10. Insert one JKSS15 1/4-20 X 2" SS screw through each hole in the cover plate. Thread loosely into the centerbar molded clip.

11. Center the cover plate over the structural gap, with all centerbars running vertically along the center of the cover plate. Tighten each screw, which will rotate the centerbar towards the frame radius channels. As the screw draws the centerbar towards the cover plate, the ball ends of the centerbar will engage inside the radius channel of the frame.

Fig. 3



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Fig. 4

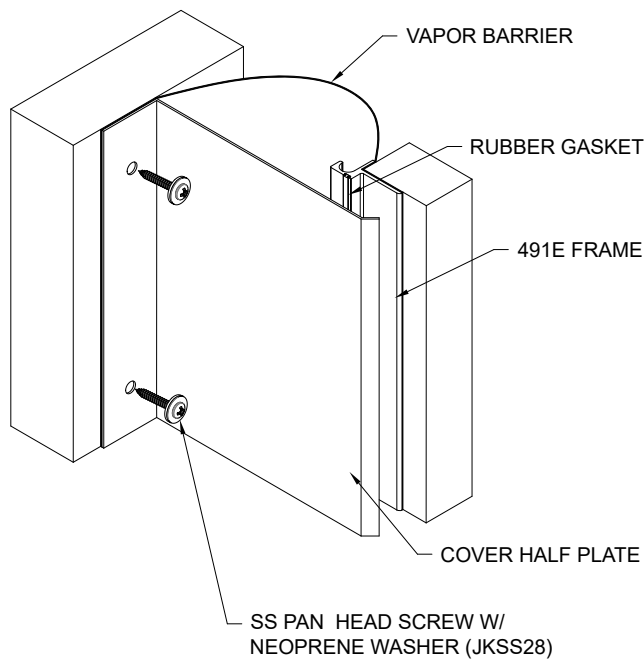


Figure 4

FOR 2 - 4" [50-100mm] WALL TO CORNER SYSTEMS WITHOUT CENTERBARS (A09 Models):

- Place the cover half plate over the structural gap with the 2" [51mm] leg (pre-drilled hole side) firmly against the finish wall. The horizontal base leg of the cover half plate should rest firmly on the rubber gasket of the frame. Align parallel to the wall.
- Secure the cover half plate to the substrate using JKSS28 SS pan head screw w/ neoprene washer spaced 18" [457mm] on center starting 6" [152mm] from each end.

Figure 5 and 5a

FOR 6-12" [150-300mm] WALL TO CORNER SYSTEMS:

- Locate vapor barrier 5/16" [8mm] in from opposite side wall of structural gap. Apply Butyl or Polyurethane sealant (by others) to both sides of RVB. Place 491E recessed frame at edge of RVB. Use JKSS11 SS hex head screw through the hole on the 491E recessed frame 18" [457mm] on center starting 6" [152mm] from each end. Leave 1 1/2" [38mm] of RVB on other side and apply Butyl or Polyurethane sealant (by others) to both sides (See Figure 5).
- Place 491E frame over RVB and attach with JKSS28 SS pan head screws w/ neoprene washer. Trim excess RVB to both 491E frames if needed.

Fig. 5

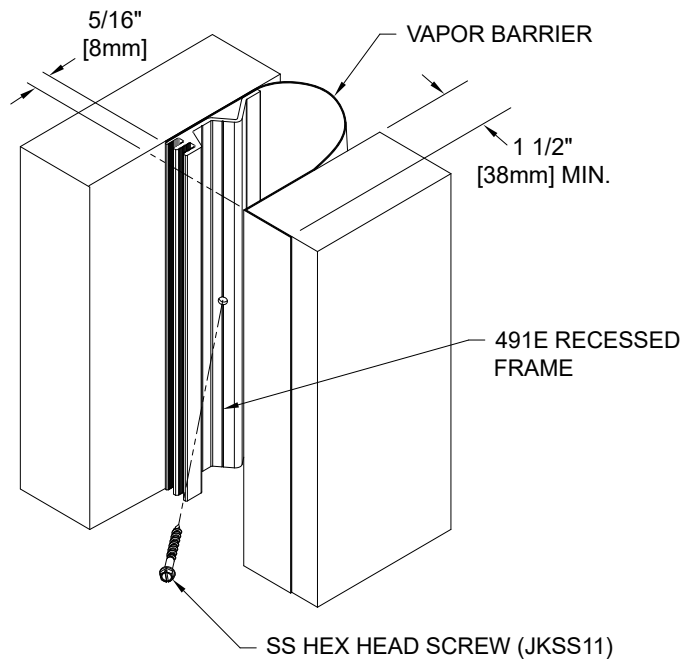
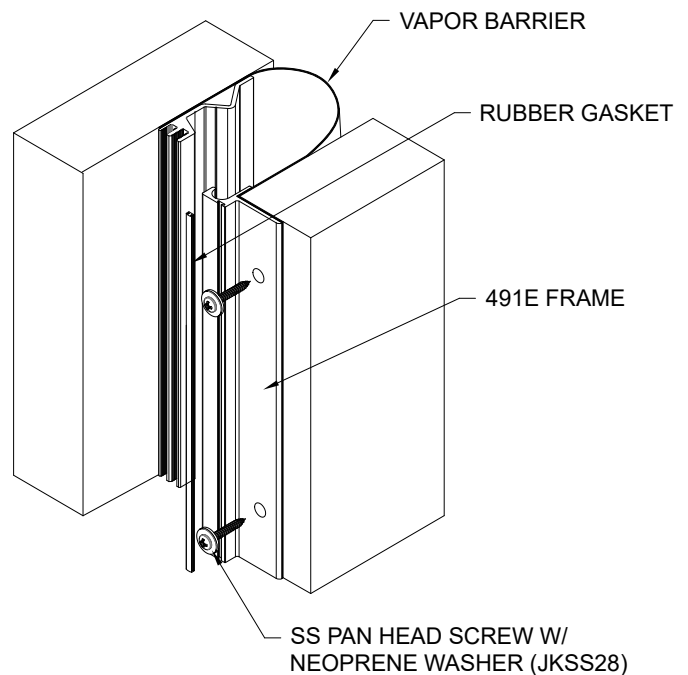


Fig. 5a



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Fig. 6

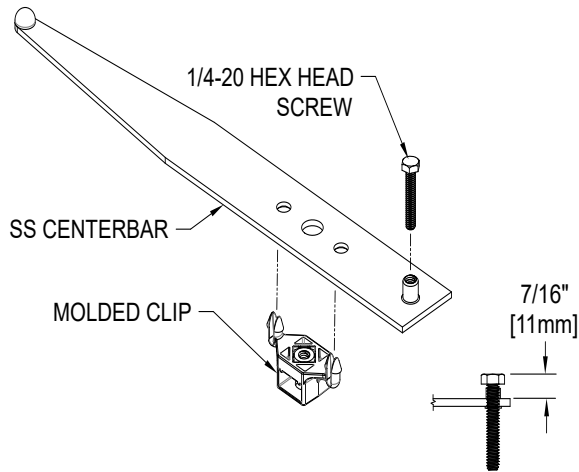


Figure 6

16. Assemble molded clip to the centerbar with ball end facing up.

17. Thread JK112 1/4-20 hex head screw into the centerbar riv-nut leaving 7/16" [11mm] height from top of center bar as shown.

Figure 7

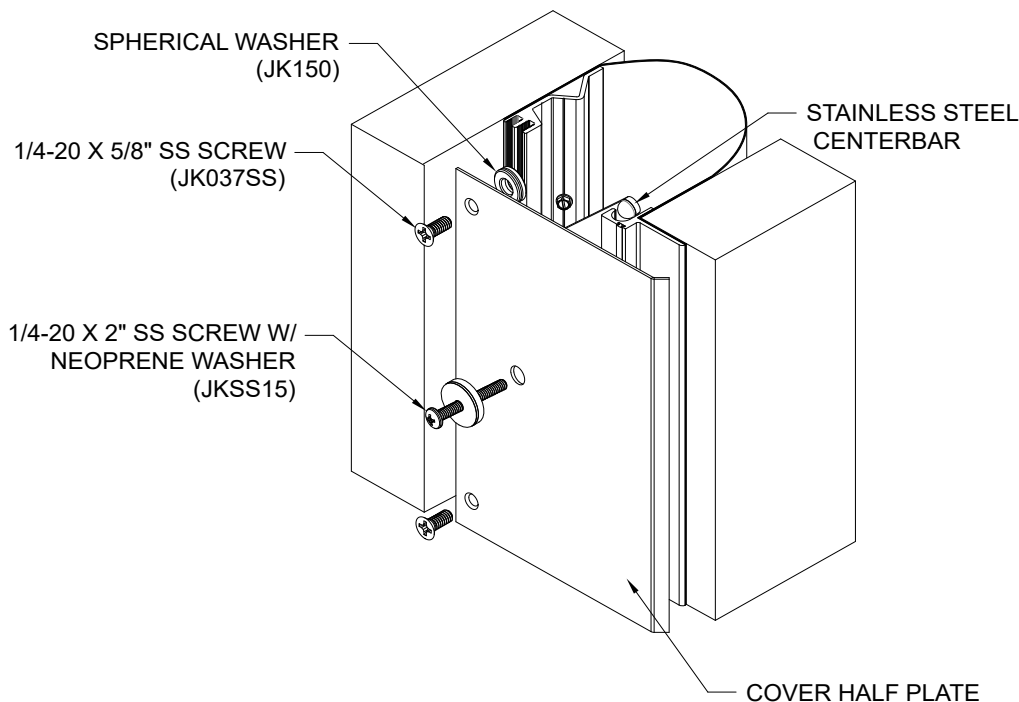
NOTE: 8 - 12" [200 - 300mm] SYSTEMS HAVE CENTERBARS. 6" [150mm] DO NOT USE CENTERBARS.

18. Insert one JKSS15 1/4-20 SS screw through each hole in the cover half plate and thread loosely into the centerbar molded clip. Rotate the centerbar so it is position vertically. Be sure the ball end will rotate towards the frame when the screw is tighten clockwise.

19. Apply sealant to the top of the of the spherical washer and between both halves. Insert one JK037SS through each countersink hole and spherical washer. The sealant will hold the spherical washer to the cover half plate. Secure the screw, cover half plate and spherical washer to the 491E recessed frame.

20. Tighten each centerbar screw which will rotate the centerbar towards the frame channels. As the screw draws the centerbar to the cover half plate, the ball end of the centerbar will engage inside the radius of the 491E frame.

Fig. 7



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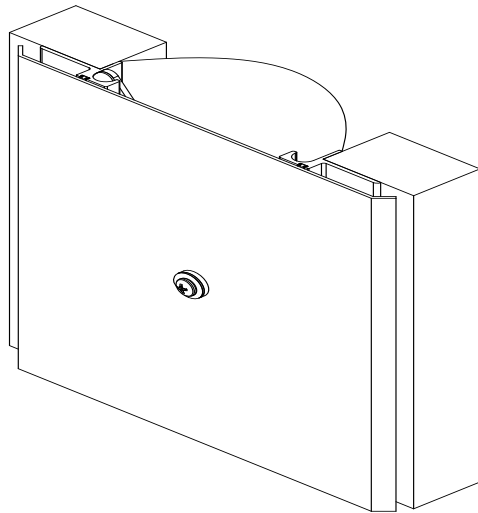
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Fig. 8

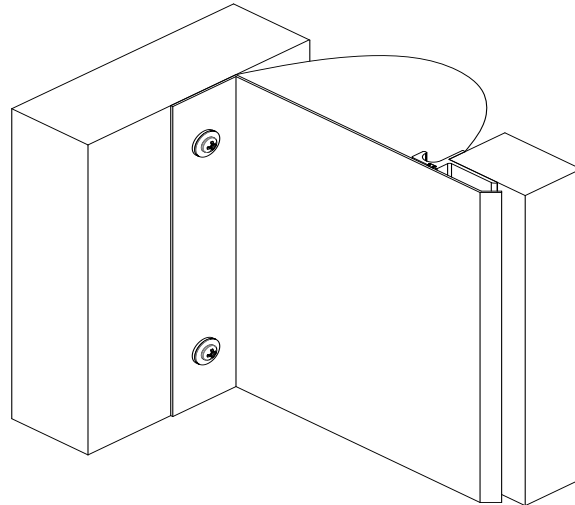
Figure 8

21. Clean the exposed surface with a non-solvent cleaner such as 409 as required.

491E-A07 Complete Installation

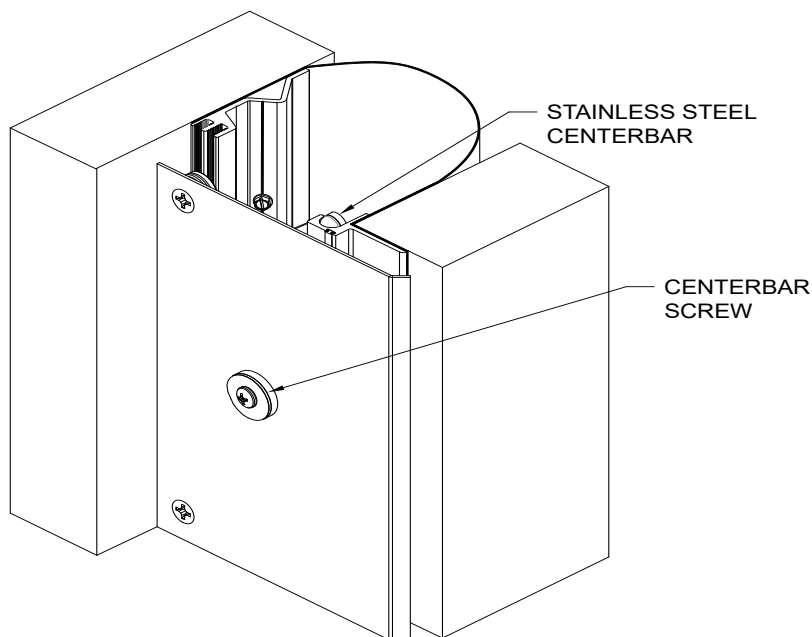


491E-A09-050 thru 100 Complete Installation



491E-A09-150 thru 300 Complete Installation

NOTE: A09-150 HAS NO CENTERBAR OR CENTERBAR SCREW



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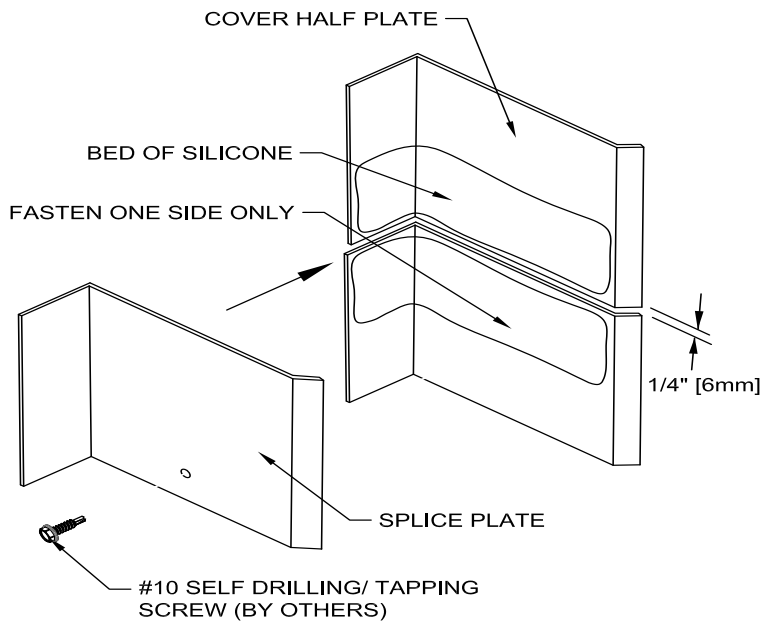
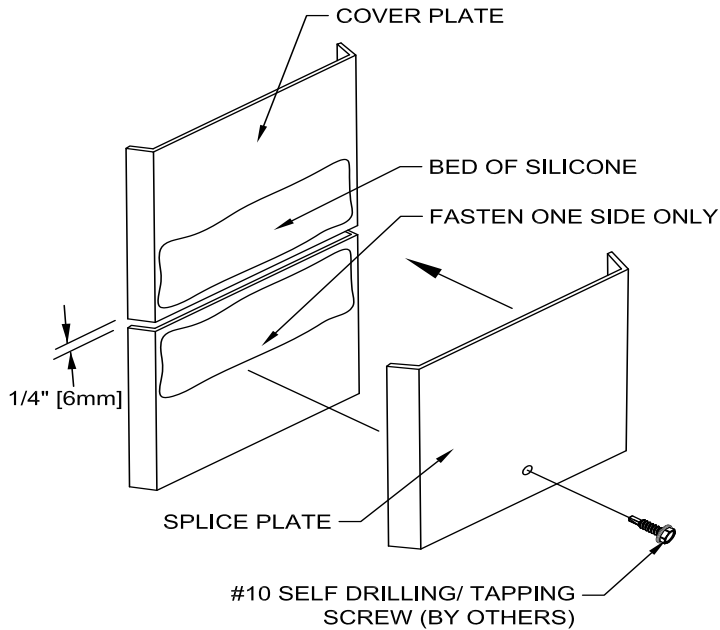
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Splice Plate Installation Instructions

22. Leave a min. of 1/4" [6mm] gap between the full sections

23. Apply a bead of continuous silicone sealant (contractor furnished) to splice plate over seam to ensure a water tight seal



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