

MODEL SHP AND SHPW INSTALLATION INSTRUCTIONS



IMPORTANT INFORMATION

Prior to the commencement of installation, all materials **MUST** be inspected for damage. Any damage must be reported to **CONSTRUCTION SPECIALTIES, INC.**, as soon as possible, so that replacement materials may be furnished without delay.

All work must be completed as per Architect's Approved "Shop Drawings", and in accordance with these Installation Instructions. When installation is complete, all materials must be protected from damage until the Architect's **FINAL INSPECTION**.

All materials should be arranged in the order that they are to be installed. All hardware required for each portion of the work should be placed with the appropriate materials.

Please review all Approved Shop Drawings and this document to familiarize yourself with all the details and components of this assembly.

IMPORTANT:
READ THROUGH ALL INSTRUCTIONS PRIOR TO STARTING INSTALLATION

6/18/19



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GENERAL INSTALLATION NOTES:

1. Joint Width sizes **must be** in accordance with the architectural details and CS shop drawings before installation can begin.
2. All repairs to the mounting surfaces **must be** done prior to the installation of the joint cover. Remove loose debris, oil and grease.
3. The installer should follow all safety instructions listed in these installation documents and/or listed on the MSD sheets provided.

STEP 1

VAPOR BARRIER INSTALLATION

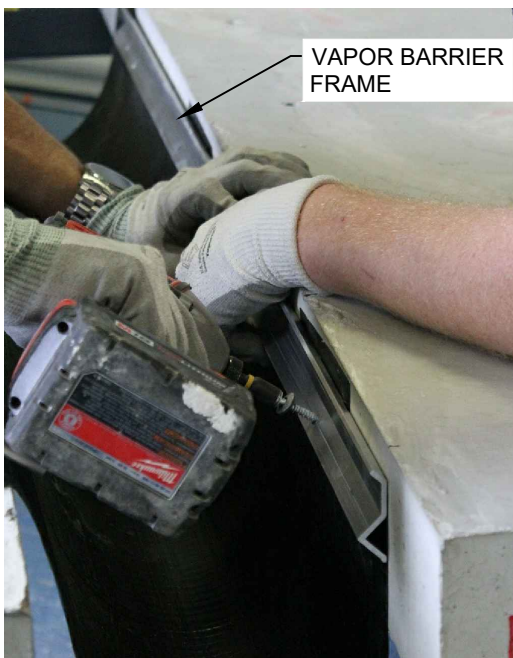
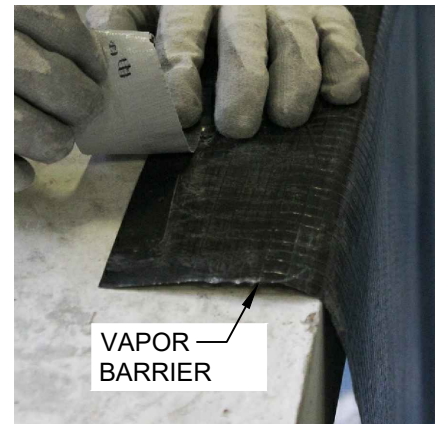
Note: If CS Fire Barrier is to be installed in the joint, please review the Fire Barrier Installation Instructions supplied, and if required install the Fire Barrier **BEFORE** installation of the Vapor Barrier. The Vapor Barrier should be installed in as long of runs as possible to reduce the number of splices. All sizes of Vapor Barrier are provided in 100' rolls.

Specialized installation instructions are provided for splicing, drain installation and end closures. See these instructions if any of these conditions are required.

Step 1:

- 1.1 At the Base Frame side of the joint use the frame as a template mark the location of each anchor hole. Remove the cover and drill all holes for the CS supplied anchors. Note: Drill all holes to the specifications provided by the anchor's manufacturer.

- 1.2 Place the Vapor Barrier beyond the drilled fastener hole by 1" and duct tape to hold in place.



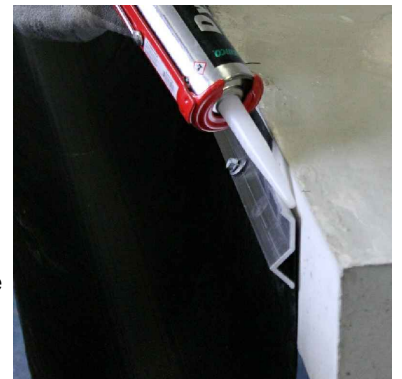
- 1.3 At the opposite side of the joint using the Vapor Barrier Frame as a template drill the holes necessary to fasten the frame. Note: The top of the Vapor Barrier Frame should be $\frac{1}{2}$ " down from the top edge.

- 1.4 Place the other edge of the Vapor Barrier against the opposite side of the joint, measure 1" down from the top edge and strike a line the length of the run. Duct tape to hold the Vapor Barrier in place. Press the Vapor Barrier material into the joint to create a drape. It may be necessary to place a small block of wood in the drape to hold it down into the joint until the installation of the frames is complete.

- 1.5 Place the Vapor Barrier Frame back into the joint, align with the mounting holes and fasten into place using the CS supplied hardware shown on the shop drawings.

- 1.6 Remove any duct tape showing above the Vapor Barrier Frame.

- 1.7 Apply CS supplied Sealant along the top edge of the Vapor Barrier Frame.



STEP 2

SHP FLOOR TO FLOOR INSTALLATION

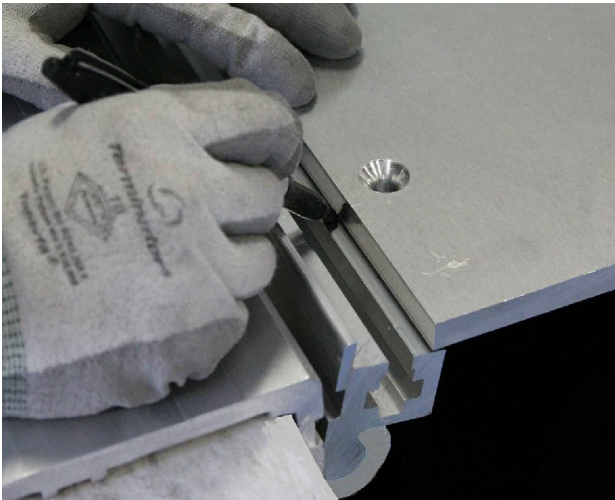


Note: The SHP aluminum extrusions have been provided in 12' lengths.

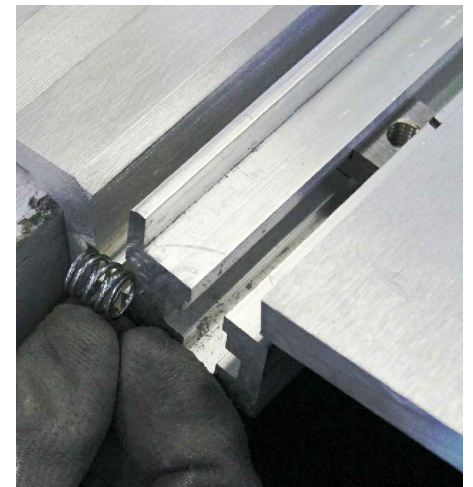
- 2.1 Before installation, measure the length of the first run of joint cover. If needed, measure, mark and cut a length of Base Frame and a length of Hinge Frame to the appropriate length.
- 2.2 Align the Hinge Frame tab with the Base Frame. Slide the Hinge Frame inward the full length aligning the ends of the Hinge Frame and the Base Frame. Note: The pieces should slide together, however, applying a lubricant such as soapy water, WD-40, light grease will help ease the assembly. Repeat for the full length of joint cover needed.



- 2.3 Place the length of Base Frame along the joint edge installing over the vapor barrier. Fasten the Base Frame with the supplied CS anchors in the predrilled hole locations to the specifications by the anchor manufacture.

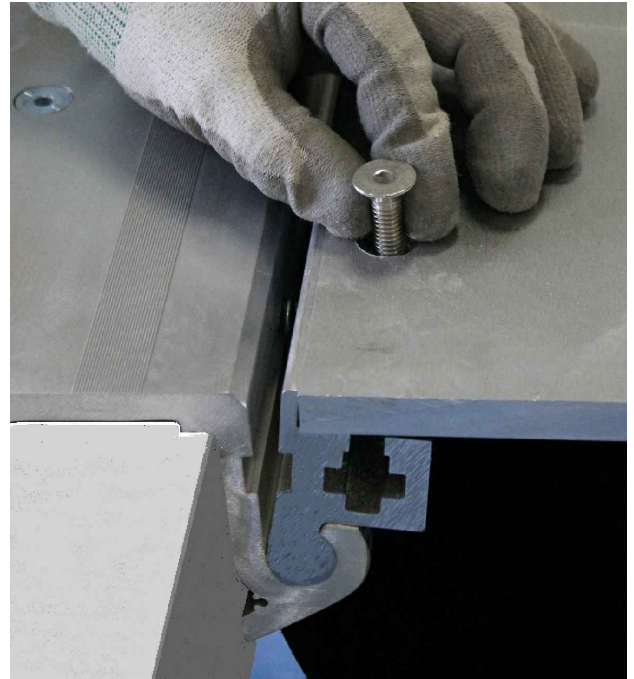
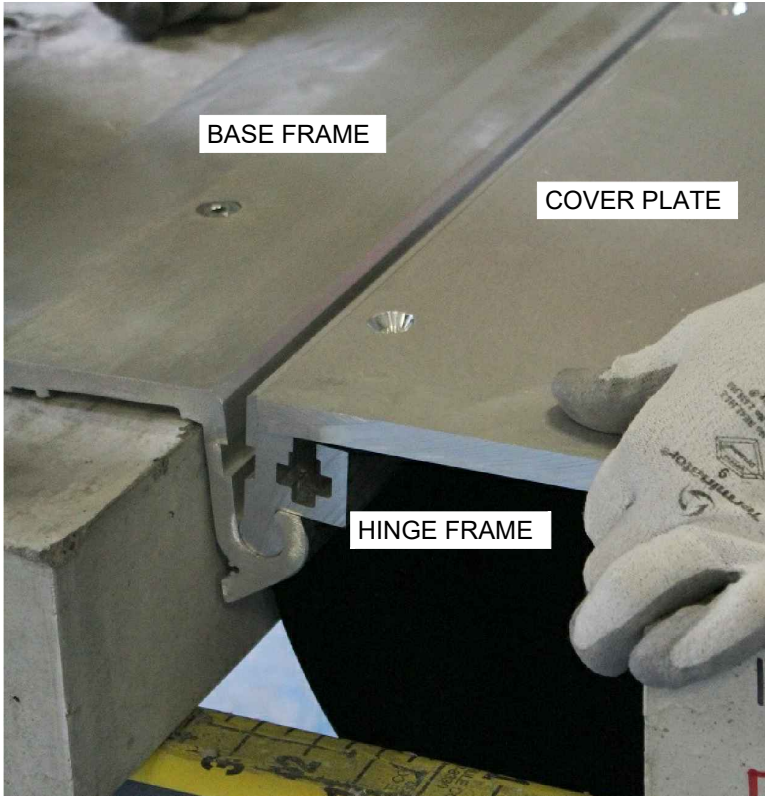


- 2.4 Using the Center plate hole locations as a template, measure and mark the centerline locations on the Hinge Frame for the T-Slot Nuts and Stainless steel Springs.
- 2.5 Slide in the T-Slot nuts to the marked locations on the hinge frame.
- 2.6 Place the Stainless Steel Springs between the base frame and the hinge frame. Slide to the same centerline locations of the T-Slot Nuts.



STEP 2 Con't

SHP FLOOR TO FLOOR INSTALLATION

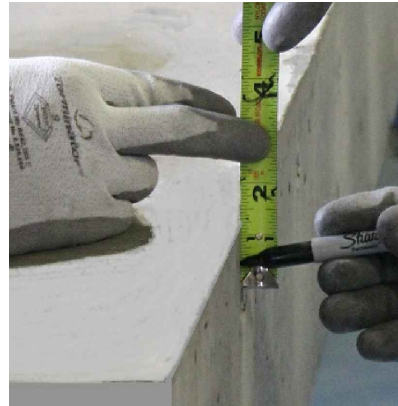


- 2.7 Set the Cover Plate into position aligning with the end of hinge frame. Begin to thread the machine screw through the Cover Plate and into the T-Slot Nut. Thread the screws by hand. This should be done for each of the plate anchors before proceeding to the next step.
- 2.8 When all the screws are started by hand, again work back across the plate to tighten the screws.



STEP 3

VAPOR BARRIER FLOOR TO WALL INSTALLATION



- 3.1 Before installation, measure the length of the first run of joint cover. If needed, measure, mark and cut a length of Wall Frame and length of Hinge Frame to the appropriate length.
- 3.2 At the Wall Frame side of the joint locate the top edge of the Wall Frame side of the joint, using a level/straight edge. Measure 3" up from the parking deck surface and strike a line the length of the run.
- 3.3 Using the Wall Frame as a template, mark the location for each anchor hole. Remove the Wall Frame and drill the holes for the CS supplied anchors per the specification of the anchor manufacturer.
- 3.4 Place the Vapor Barrier beyond the drilled fastener hole by $\frac{1}{2}$ " and duct tape to hold in place.

STEP 4

SHPW FLOOR TO WALL INSTALLATION



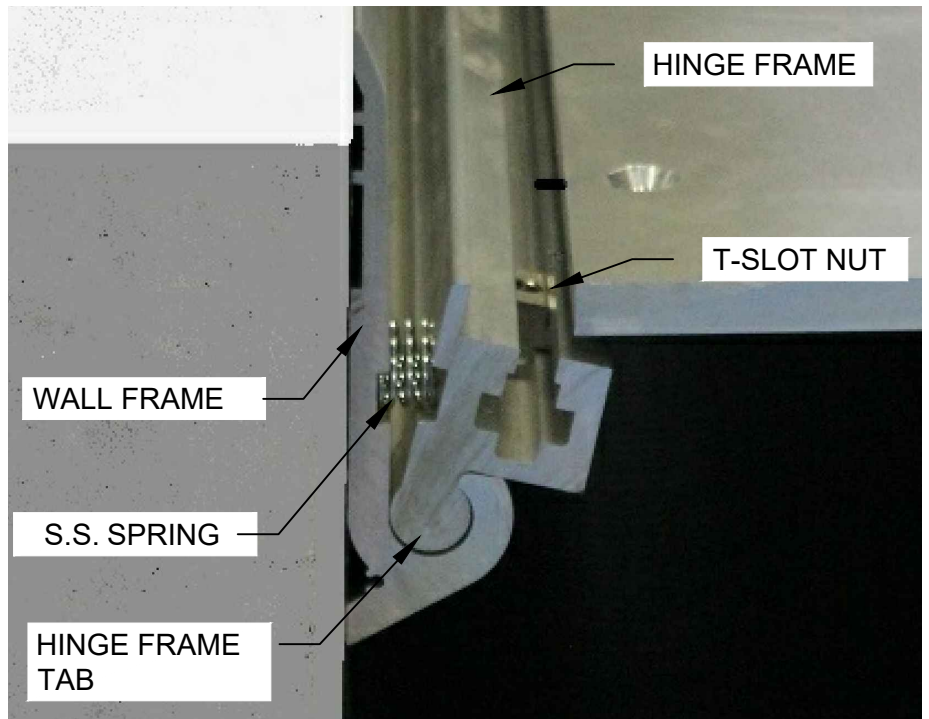
- 4.1 Align the Hinge Frame tab with the Wall Frame slot. Slide the Hinge Frame inward the full length aligning the ends of the Hinge Frame and the Wall Frame.

Note: The pieces should slide together, however, applying a lubricant such as soapy water, WD-40, light grease will help ease the assembly. Repeat for the full length of joint cover needed.

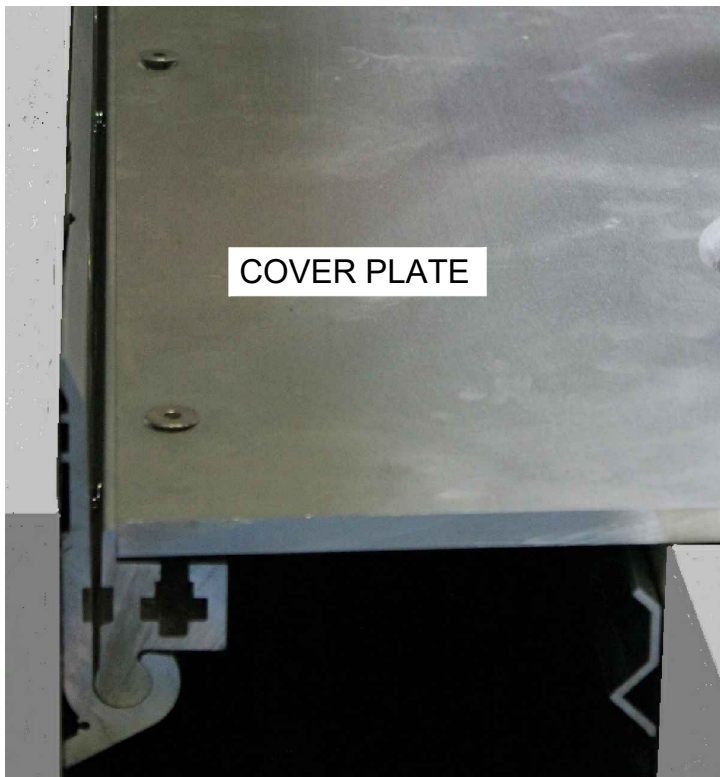


STEP 4 Con't

SHPW FLOOR TO WALL INSTALLATION



- 4.3 Reposition the Wall Frame and Hinge Frame assembly attaching to the wall using the supplied CS anchors per the specifications of the anchor manufacturer.
- 4.4 Using the Center Plate hole locations as a template, measure and mark the centerline locations on the Hinge Frame for the T-Slot Nuts and Springs.
- 4.5 Slide the T-Slot Nuts to the marked locations on the hinge frame.
- 4.6 Place the Stainless Steel Springs between the wall frame and the hinge frame. Slide to the same centerline locations of the T-Slot Nuts.



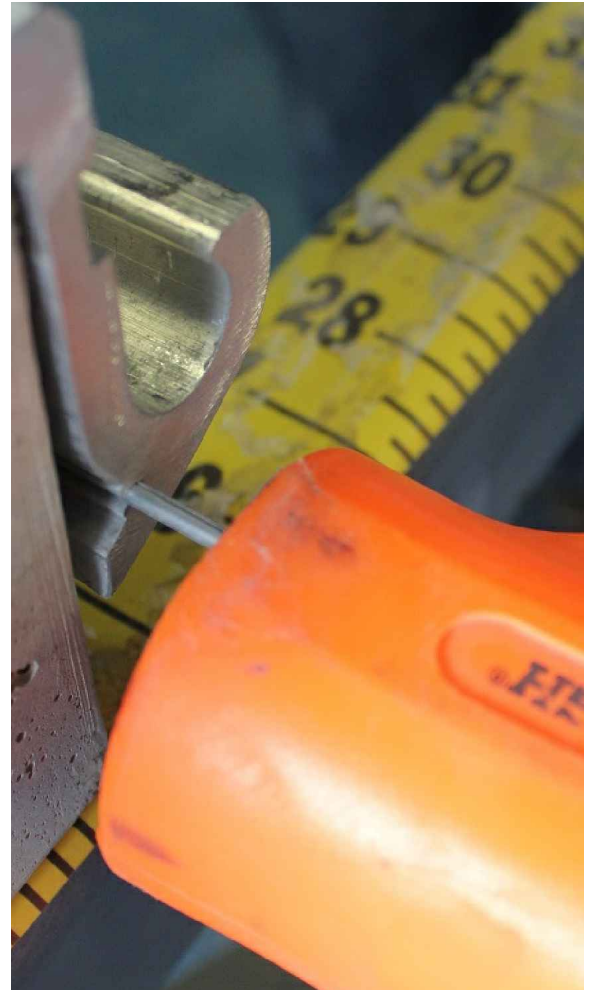
- 4.7 Set the Cover Plate into position aligning with the end of hinge frame. Begin to thread the machine screw through the Cover Plate and into the T-Slot Nut. Thread the screws by hand. This should be done for each of the plate anchors before proceeding to the next step.
- 4.8 When all the screws are started by hand, again work back across the plate to tighten the screws.

STEP 5

ADDITIONAL LENGTHS OF COVER INSTALLATION

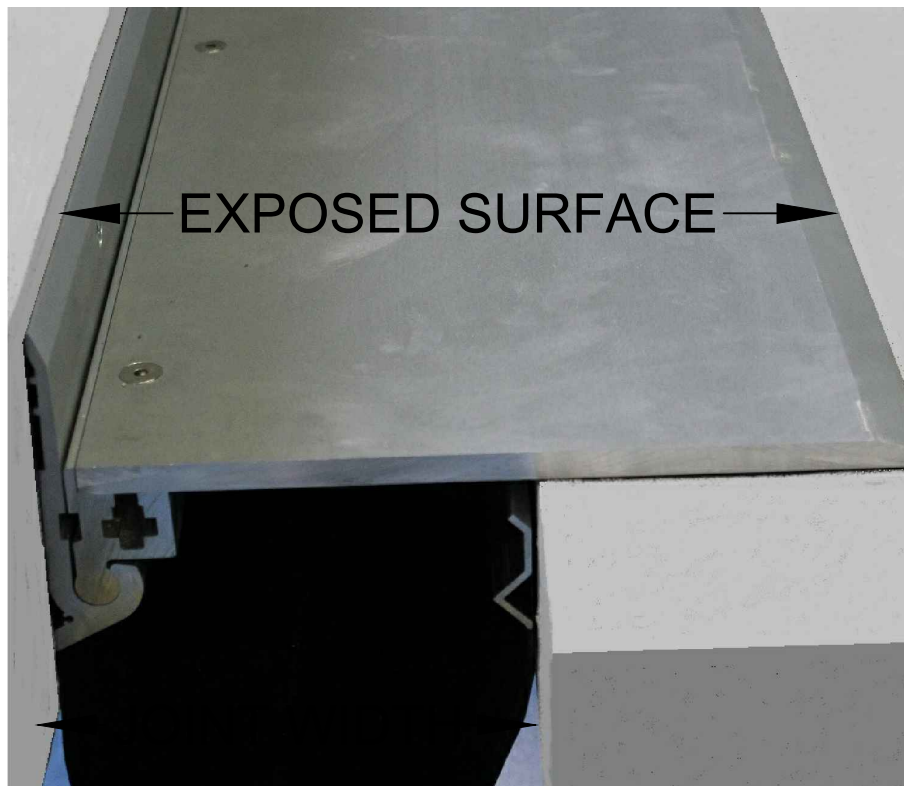
Step 5: (When additional lengths of cover are needed for the run.)

- 5.1. To assist in maintaining the alignment of the exposed top edge of Base Frames and the Wall Frames alignment pins are to be placed in the Frame sections prior to installation. The grooved end of the Alignment pins is inserted approximately 1/2 its length into each of the extrusion bosses of the next length of Frame.
- 5.2. Position the adjacent lengths of Frame and insert the alignment pins into the extrusion bossed of the previous frame.
- 5.3. Following the instructions from Step 1, position, drill and anchor each additional length of Base Frame / Wall Frame.
- 5.4. As you approach the end of the run, the last length of Frame may have to be cut to the appropriate length.



STEP 6

COMPLETE INSTALLATION



Step 6:

- 6.1 When installation of the CS Parking Expansion Joint Cover has been completed, remove all residue and foreign matter from the area and joint cover.
- 6.2 Clean the CS Joint Cover and adjoining surfaces with proper cleaner.
- 6.3 Protect the Joint Cover until the Architect's final inspection.