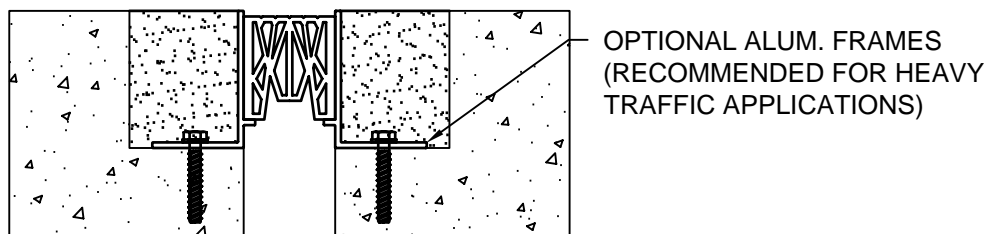
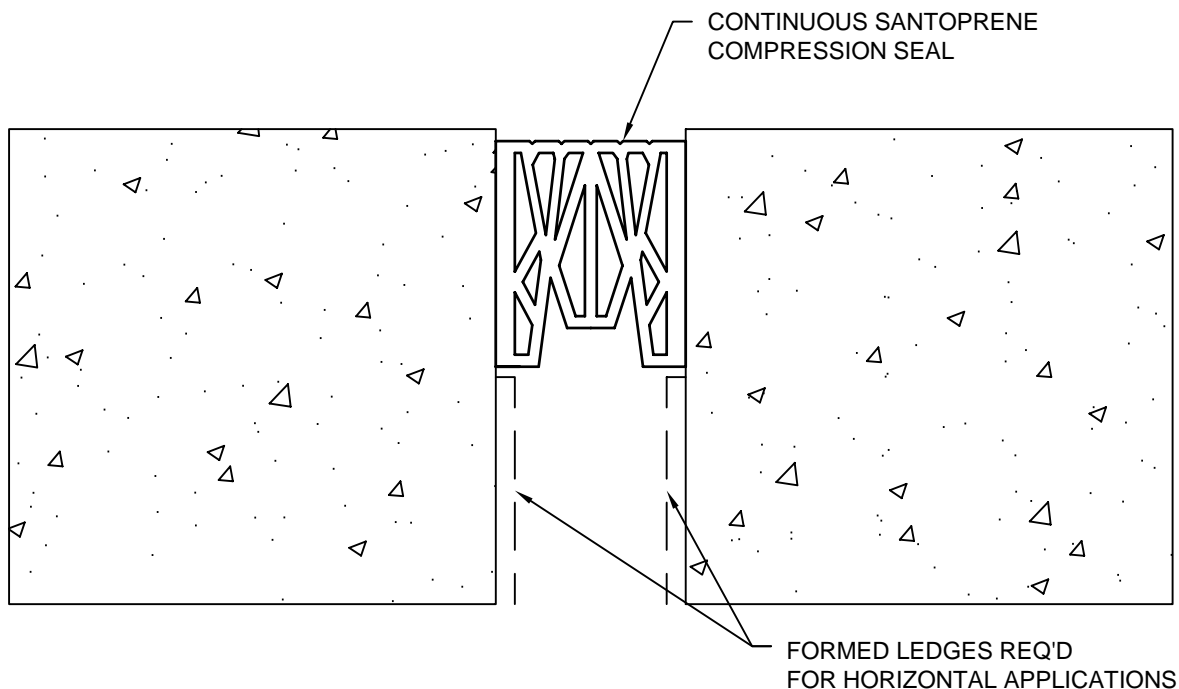


# MODEL CSS INSTALLATION INSTRUCTIONS



## 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**

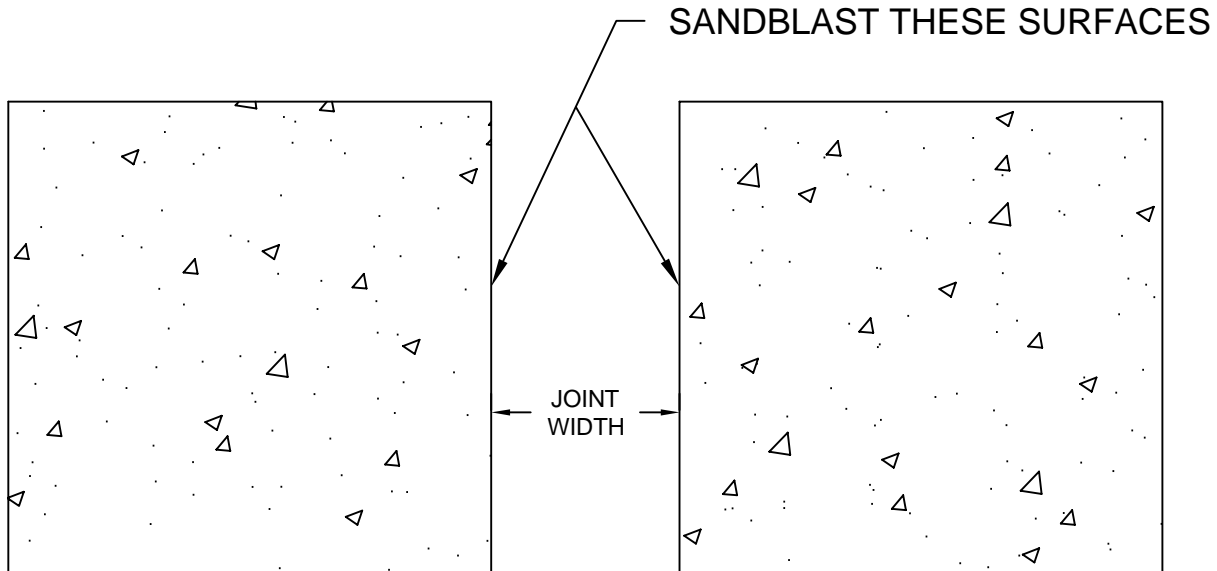
10/19/05

#### **CONSTRUCTION SPECIALTIES, INC.**

P.O. BOX 380  
MUNCY, PA 17756  
PHONE: (570)546-5941 FAX: (570)546-8022

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# GENERAL NOTES:



Before beginning installation, review the architectural drawings and approved Construction Specialties Inc. shop drawings to familiarize yourself with the joint cover models and locations.

Check all of the joint cover components to confirm that the correct joint cover model and size have been received. Also, check for materials that may have been damaged during shipping. Report all incorrect and/or damaged components to C/S at 800-233-8493.

Read through all the steps of these instructions prior to beginning work.

The blockouts must be formed to the specified dimensions detailed on the C/S Shop Drawings.

Blockout surfaces shall be solid, free of voids, dust, release agents or any other contaminants.

Any locations of edge raveling, spalling or other damage to the blockout surfaces must be repaired with a non-latex high strength grout that will provide a sound and square blockout. Sika Grout-Pak recommended.

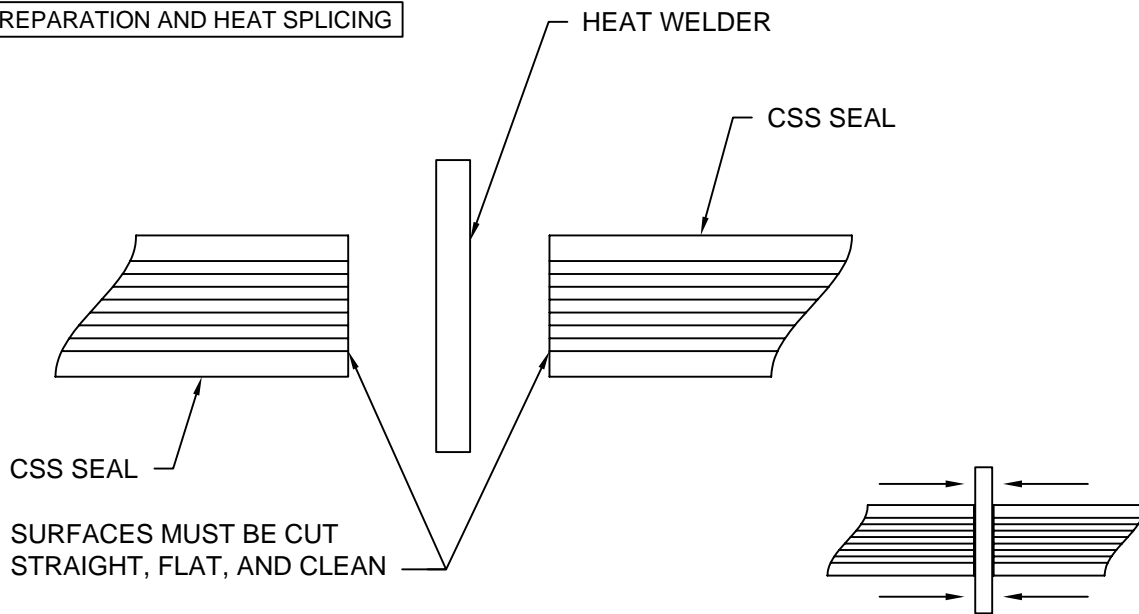
Sandblast the concrete surfaces at all locations where the epoxy will be applied. Sandblasting should expose new concrete and clean the surface of all loose debris and form release agents.

All finished exposed surfaces of the expansion joint cover system and the surrounding concrete should be masked/covered with paper and tape to prevent the epoxy from staining or adhering to these surfaces.

Note: See Step 4 for Optional Frame Installation, Page 5, if Frames are req'd.

# STEP 1

## SEAL PREPARATION AND HEAT SPLICING



- 1.1) Uncoil the length(s) of Seal to be installed, lay each piece out flat and allow the Seal some time to flatten before it is bonded in place. The higher the temperature of the Seal the faster it will relax to flat and straight. Seals should be placed in direct sunlight if possible to reduce the amount of time required.
- 1.2) Place each length of Seal next to the area where it is to be installed. If the run is longer than the length of Seal, then a heat splice must be created between the two pieces of Seal.
- 1.3) To create the heat splice each end of the Seal to be spliced must be cut straight, flat and clean. Any irregularities in the ends of the Seal will create problems throughout the entire splicing process.
- 1.4) Each surface to be spliced must be cleaned with solvent and allowed to completely flash off before applying any heat. Do not use water to clean the Seal. The water trapped in the cells will draw heat away from the splice during the heat welding process.
- 1.5) Each end of the Seal must be aligned with the other section to be spliced. Place the Heat Welder or Hot Plate between the two lengths of Seal so each surface of the splice is touching the Heat welder. The Heat Welder should maintain a temperature of 520°F during the splicing process.
- 1.6) Hold the Seals against the Heat Welder until the face of the Seal begins to melt about a 1/16". The duration of time required to melt the surface of the Seal will vary depending on the temperature of the Heat Welder and the conditions at the job site.
- 1.7) Remove the Heat Welder and press the Seals together carefully aligning the outside walls of the seal profile. Molten material will mushroom out from the location of the splice when the Seals are pressed together. This is called "flash".
- 1.8) Hold the Seals together for approximately 30 to 60 seconds or until the surface of the Seal cools and a good bond is created.
- 1.9) Use a Soldering Iron to smooth any inconsistencies or close small gaps in the splice, then trim and remove the remaining flash with a sharp knife, being careful not to cut into the Seal.

### Note:

Heat Splicing is a difficult process that takes practice. It is recommended trial splices be created between short lengths of scrap Seal prior to attempting the splices for the actual installation.

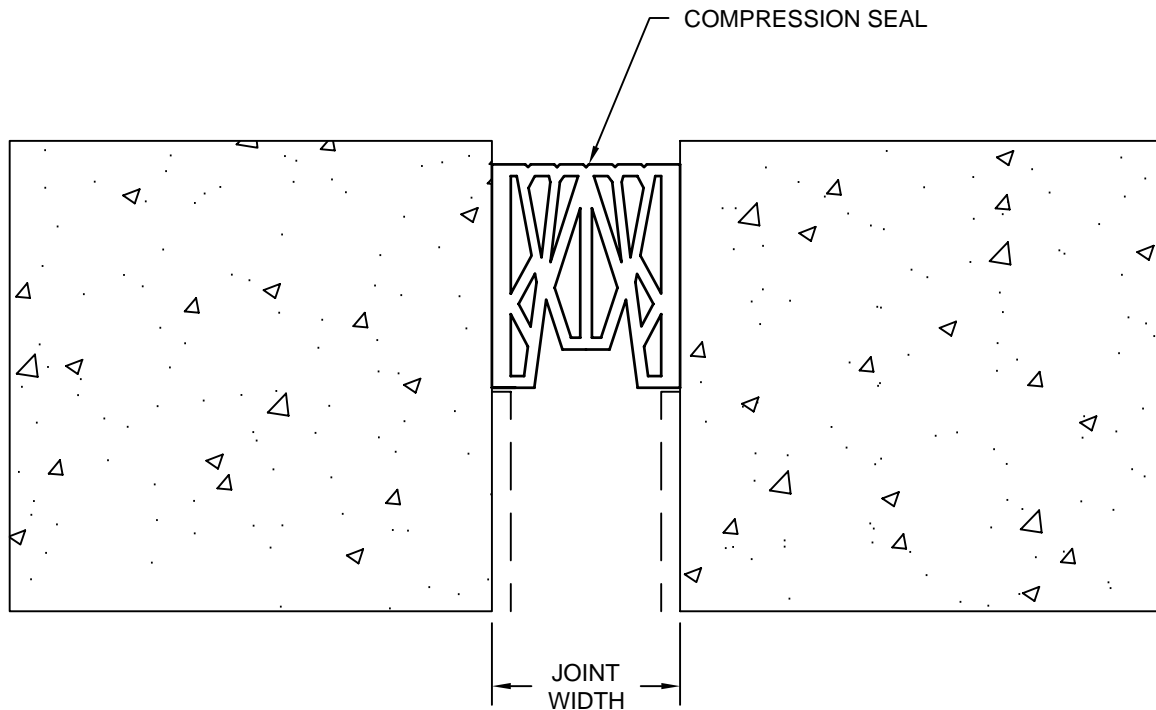
# STEP 2

## MIXING THE EPOXY

- 2.1) Pour the entire contents of the C/S Lubricant Adhesive Part A and Part B into a clean bucket or large container.
- 2.2) Mix thoroughly with a 3/4" paddle mixer until the components are well blended, and a consistent color.
- 2.3) Apply lubricant adhesive to the vertical surfaces of the joint where the seal will be in contact with the concrete.

# STEP 3

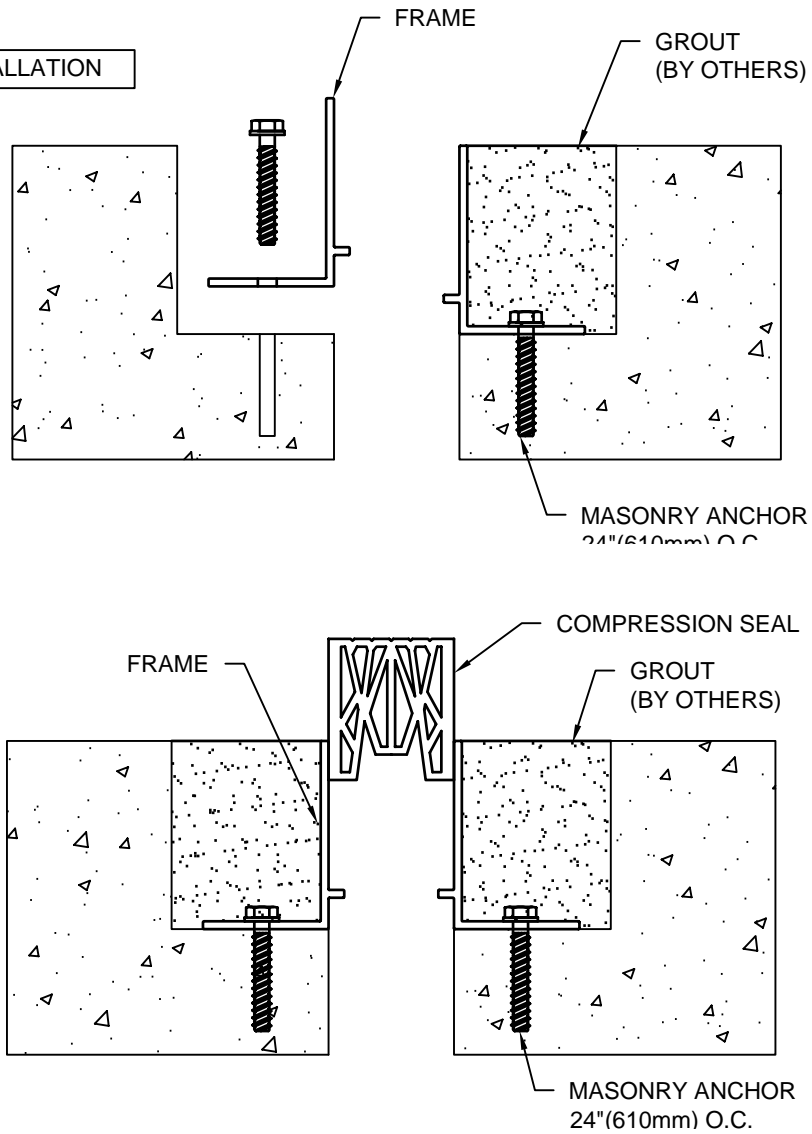
## SEAL INSTALLATION



- 3.1) Compress the Seal and insert it into the joint. Care should be taken when installing any sections containing heat splices.
- 3.2) Press the Seal into the joint to a depth of 1/4" below the surface of the concrete, unless otherwise specified on the C/S Shop Drawings.

# STEP 4

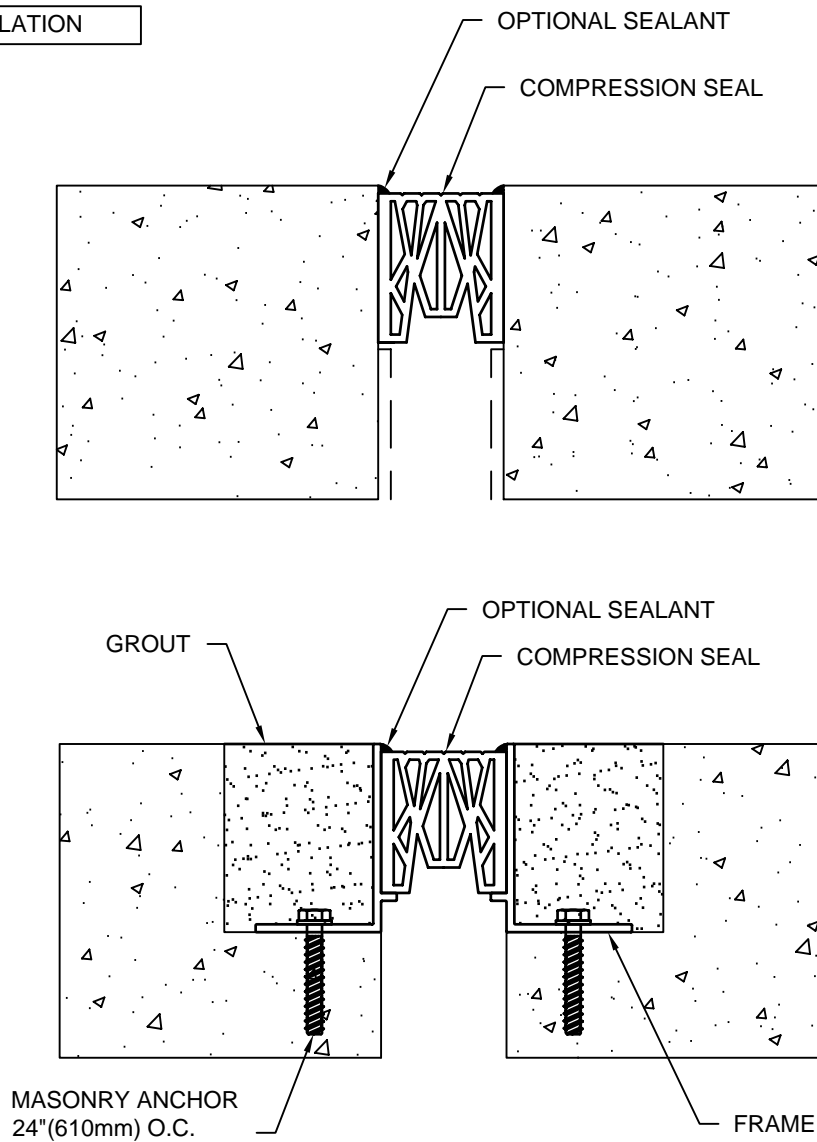
## OPTIONAL FRAME INSTALLATION



- 4.1) Install the Frames by placing a length of Frame into the blockout. Cut to length as needed.
- 4.2) Frames should be placed parallel in both horizontal and vertical planes (see detail above).
- 4.3) Using the Frame as a template, mark the location of the C/S supplied anchor bolts.
- 4.4) Remove and drill holes in accordance to the Hardware manufacturer's guidelines.
- 4.5) Reposition and anchor the Frame using the C/S supplied anchor bolts.
- 4.6) Apply grout into blockout space between the Frame and surrounding concrete surface. Grout must be level and sound prior to installing the Seal.
- 4.7) Continue with Seal Installation, Step 2.

# STEP 5

## COMPLETE INSTALLATION



- 5.1) Remove the protective tape and paper from the finish cover surfaces and the surrounding concrete.
- 5.2) Prevent traffic from crossing the joint until the epoxy has cured.
- 5.3) For added weather protection, areas of seal to receive sealant should be primed with Lord Engineered Adhesives 459T Adhesion Enhancer, apply a 1/4" bead of urethane sealant along the exposed edges of the seal.
- 5.4) This completes the installation of the CSS Seal Models.