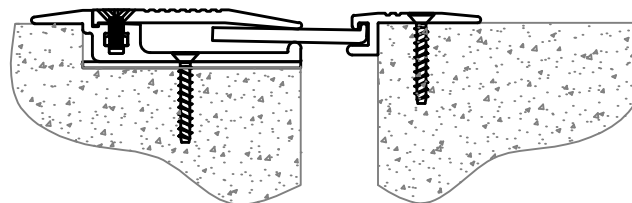
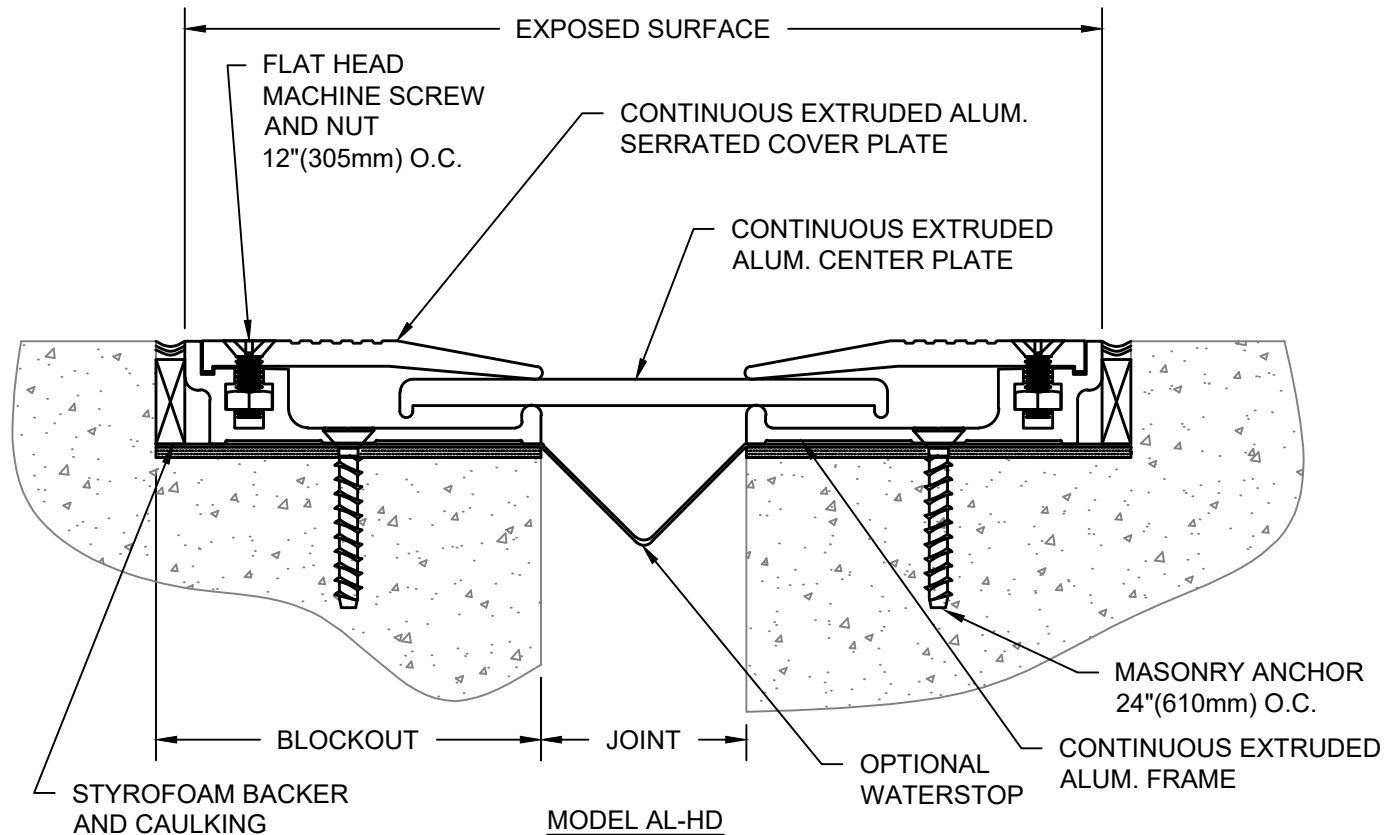


MODEL AL-HD & AL-HDM INSTALLATION INSTRUCTIONS



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

6/26/2019



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Issue Date: 04/29/96

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Notes

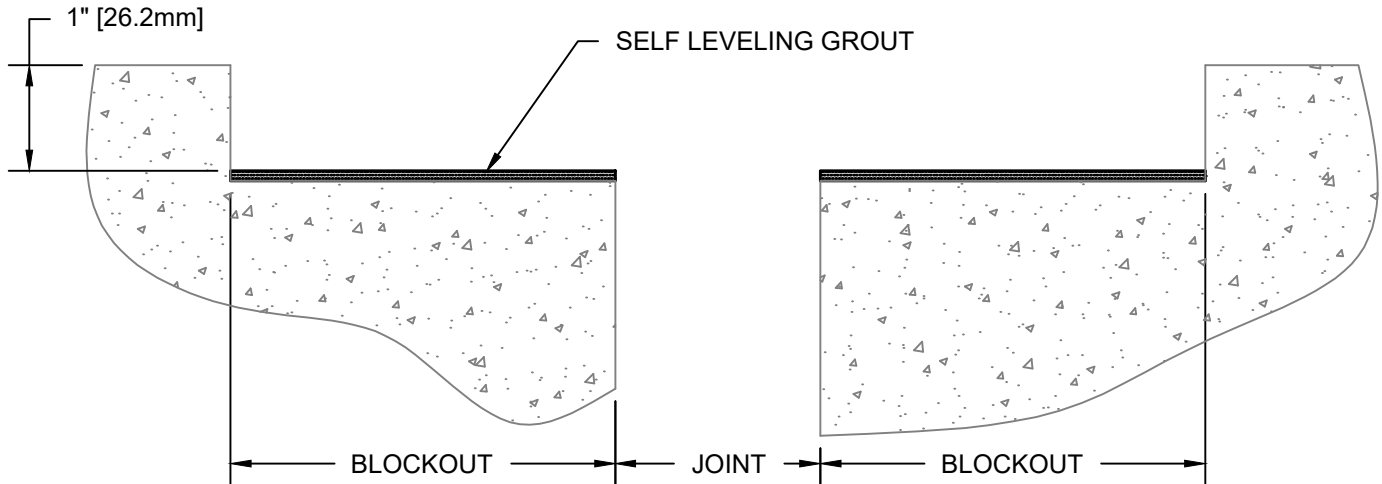
Before beginning installation, review the architectural drawings and approved Construction Specialties Inc. shop drawings to familiarize yourself with the appropriate joint cover models and locations.

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 CS at 800-233-8493.

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

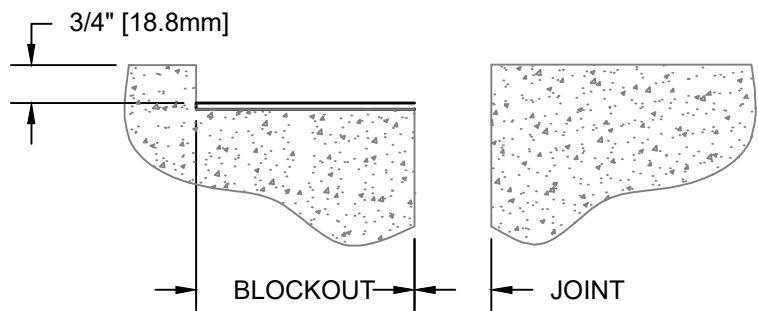
STEP 1

PREPARE BLOCKOUTS



MODEL AL-HD

BLOCKOUT DIMESNIIONS		
MODEL	BLOCKOUT	JOINT
AL-1HD	2 7/8"	1"
AL-2HD	3 3/4"	2"
AL-3HD	5"	3"
AL-4HD	4 1/2"	4"
AL-1HDM	4 3/4"	1"
AL-2HDM	4 1/4"	2"
AL-3HDM	4 1/4"	3"
AL-4HDM	4 1/4"	4"



MODEL AL-HDM

Note: The blockouts must be prepared to receive the joint cover. The blockout width will vary with model as indicated above or as noted on the CS shop drawings.

- 1.1) For Models AL- HD the blockout depth will typically be 1"(25.4mm) and Models AL-HDM 3/4" (18.8mm) depth. However, the depth may be adjusted as needed to accommodate a floor finish material when required and as indicated on the architectural drawings and/or CS shop drawings.
- 1.2) It is recommended that the blockout be formed a minimum of 1/8" deeper to allow the blockouts to be leveled for installation of the joint cover. Apply a high-strength self leveling grout to the base of the blockouts to provide a continuous, solid, flat and level base for the joint cover. (Note: The blockouts must be level across the width of the joint.)

STEP 2

FRAME INSTALLATION

LOCK NUT
12"(305mm) O.C.

WATERSTOP
(IF REQ'D)

MODEL AL-HD

FRAME

MASONRY ANCHOR
24"(610mm) O.C.

MASONRY ANCHOR
24"(610mm) O.C.

LOCK NUT
12"(305mm) O.C.

FRAME

MODEL AL-HDM

HINGE FRAME

Note:

If a 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 CS Seismic Expansion Joint aluminum frames. If a Waterstop is to be installed in the joint, please review the Waterstop Installation Instructions supplied, and if required install the Waterstop **BEFORE** installation of CS Seismic Expansion Joint Aluminum Frames.

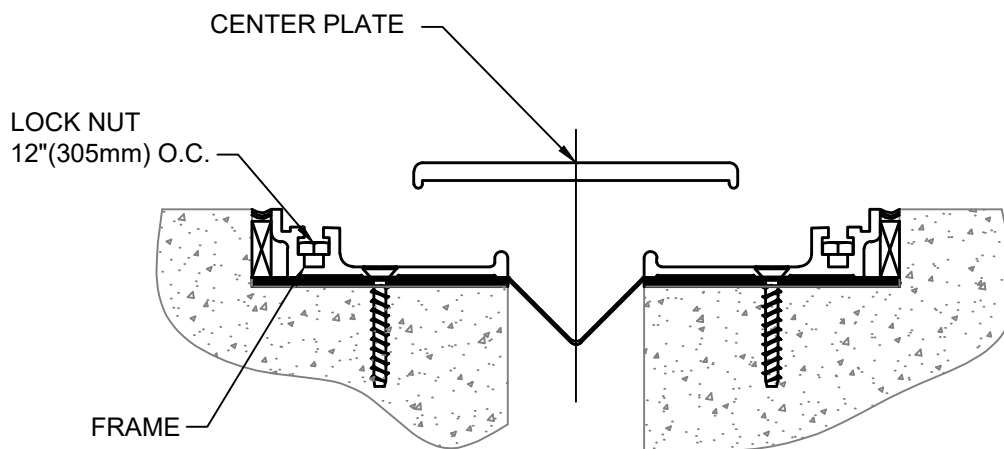
- 2.1) Begin installation of the Frame by placing a length of Frame into the breakout. Cut the Frame to length as needed. The Frame is to sit level, flat and parallel to the edge of the joint. The Frame should not overhang the edge of the slab or sit above the top surface of the slab.
- 2.2) Using the Frame as a template, mark the locations in the breakout for the anchor bolts. Remove the Frame and drill the holes for the anchor bolts. The holes are to be drilled with the appropriate size and type of drill bit as indicated by the manufacturer of the anchor bolts, as supplied by CS.
- 2.3) Before repositioning the Frame, insert the appropriate number of Lock Nuts (12" o.c.) into the nut slot of the Frame. Reposition the Frame and anchor the Frame to the slab with the CS supplied anchor bolts following the manufacturer's guidelines.
- 2.4) Repeat the installation procedures for any additional lengths of Frame.

New to Existing Applications Only:

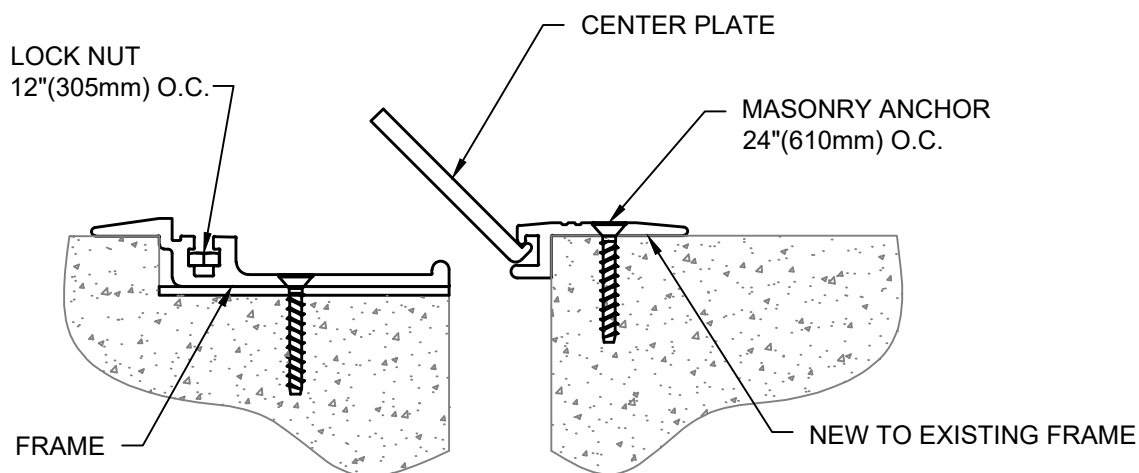
- 2.5) Begin installation of the Hinge Frame by placing a length of Hinge Frame on the corner of floor slab as shown above. The Hinge Frame is to sit level, flat and parallel to the edge of the joint.
- 2.6) Using the Hinge Frame as a template, mark the locations of the Hinge Frame anchor bolts.
- 2.7) Remove the Hinge Frame and drill the holes for the anchor bolts. **Note:** The holes are to be drilled with the appropriate size and type of drill bit as indicated by the manufacturer of the anchor bolts.
- 2.8) Reposition the Hinge Frame and anchor the Hinge Frame to the slab with the CS supplied anchor bolts following the manufacturer's guidelines.
- 2.9) Repeat for additional lengths of Hinge Frame as needed.

STEP 3

CENTER PLATE INSTALLATION



MODEL AL-HD

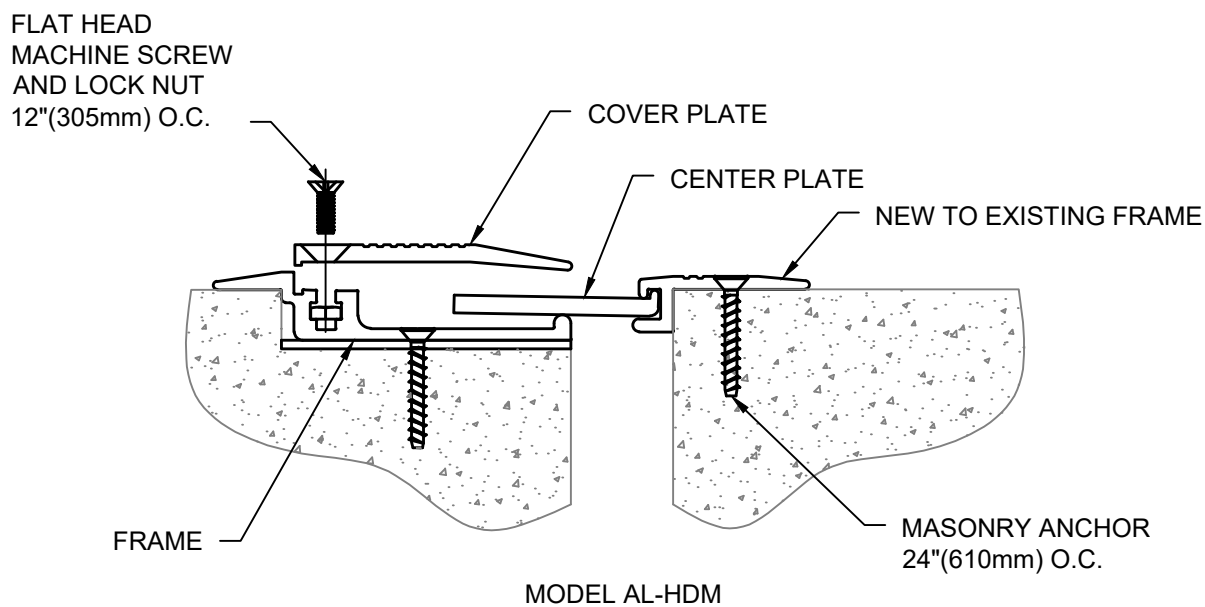
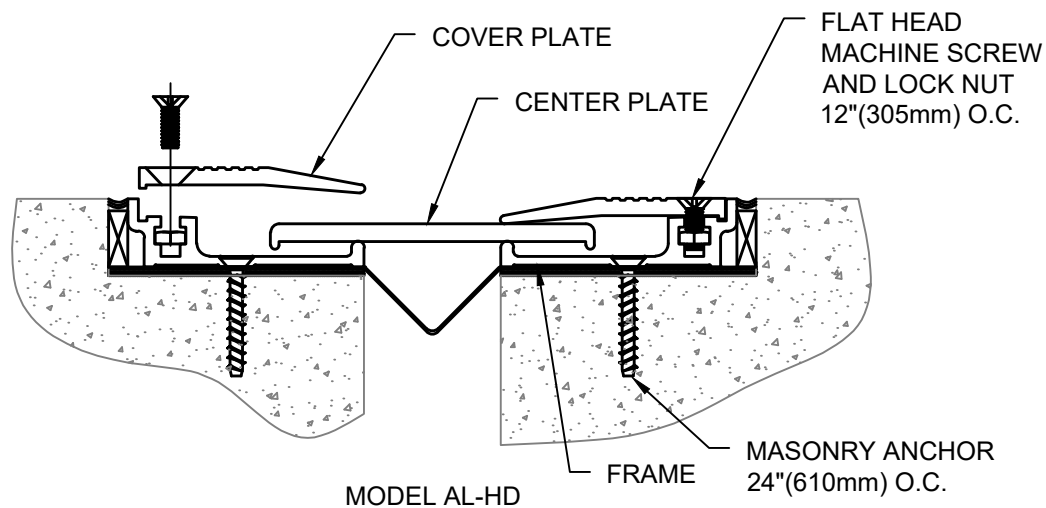


MODEL AL-HDM

- 3.1) Begin installation of the Center Plate by placing a length of Center Plate over the joint. Cut the Center Plate to length as needed.
- 3.2) Install the AL-HD Center Plate by placing it on top of the Frames, keeping it centered over the joint, as shown above.
- 3.3) Install the New To Existing Center Plate by holding the plate at approx. a 45° angle and insert the Hinge end of the Plate into the slot of the New to Existing Frame. Then rotate the Center Plate down to rest on the Frame.

STEP 4

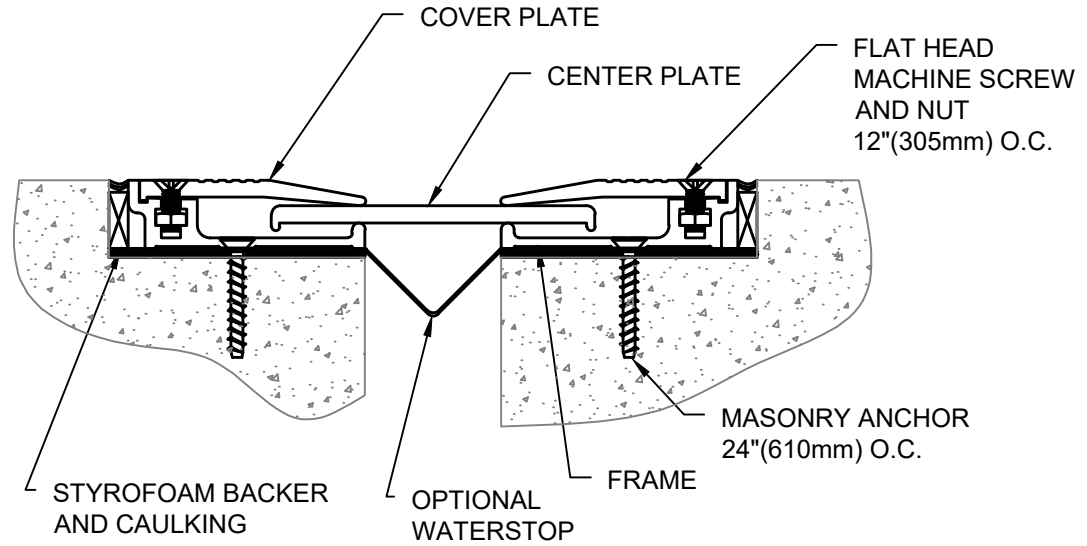
COVER PLATE INSTALLATION



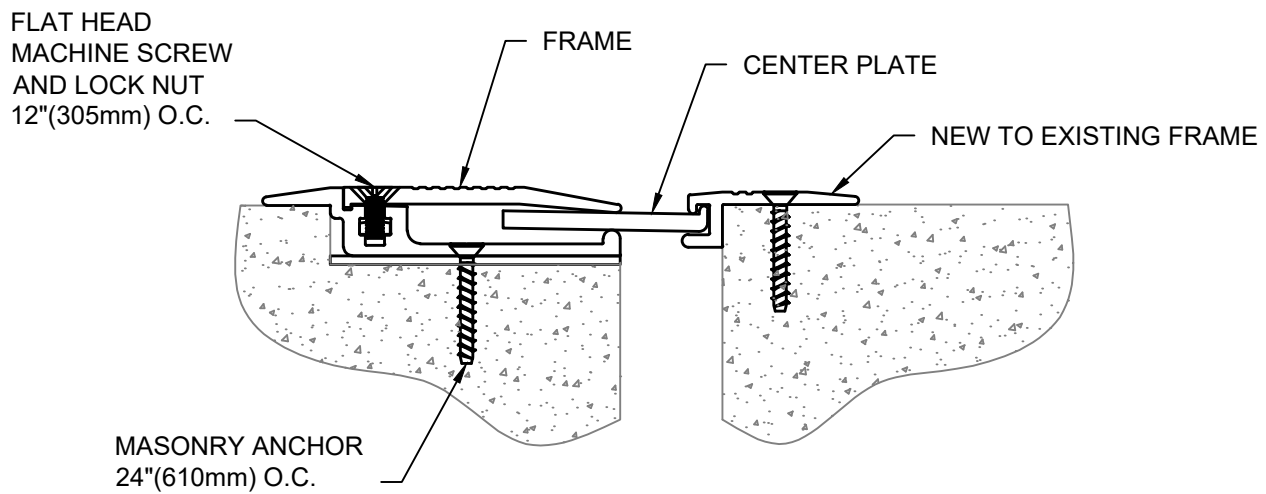
- 4.1) Place the Cover Plate on top of the Frame.
- 4.2) Align the Lock Nuts with the holes in the Cover Plate and attach Cover Plate to Frame using machine screws as shown above.
- 4.3) Tighten machine screws securely.
- 4.4) Repeat the installation procedures for the other side of joint and any additional lengths of Cover Plate.

STEP 5

COMPLETE INSTALLATION



MODEL AL-HD



MODEL AL-HDM

- 5.1) When installation of the CS Floor Expansion Joint Cover has been completed, remove all residue and foreign matter from the area and joint cover.
- 5.2) Clean the CS Joint Cover and the adjoining surface with proper cleaner.
- 5.3) Protect the Joint Cover until the Architect's final inspection.