

EFLP-Series Installation Instructions

SEISMIC PAN SYSTEM

MODEL(S): EFLP/EFLPw

FLOOR TO FLOOR COVER SYSTEM – 2” THROUGH 18” SIZES



GENERAL DESCRIPTION

The Seismic Pan System is commonly used for stone, terrazzo tile and concrete slabs as well as most traditional flooring materials in courtyards and walkways. It's capable of accommodating lateral shear and multi-directional movement including vertical displacement.

GENERAL SAFETY PRECAUTIONS Improper selection, installation, or use can cause personal injury or property damage. It is solely the responsibility of the user, through their own analysis, to select products suitable to the specific application requirements, ensure proper maintenance and use as intended. Follow local, state, and federal regulations for proper installation and operation requirements.

Introduction + Safety

Please read the complete instructions carefully before beginning any work. To ensure proper installation and performance of the product, the following actions must be completed by the installing contractor. Failure to do so will affect product warranty.

Transportation + Storage

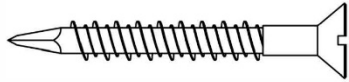
- Inspect all shipments and materials for missing or damaged components and hardware.
- Material must be stored in a clean, dry location.

Preparation

- Locate the packing slip(s) and/or shop drawings.
- Verify that all products listed on the packing slip are included in the package.
- Check the products for damage. If products are damaged, report a freight claim immediately and leave the products in their packaging. If you sign for products without reporting damage, you waive your right to a freight claim and will be responsible for replacement costs.
- Read the instructions thoroughly before beginning installation.



Standard Components



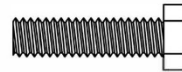
Concrete Threaded Anchor #2764
1/4" x 2-1/4"
Part No. 6526



Bolt 1/4" x 2-1/2" HLN
Part No. 4835



Nut 1/4" Zincplated A307
Part No. 7869



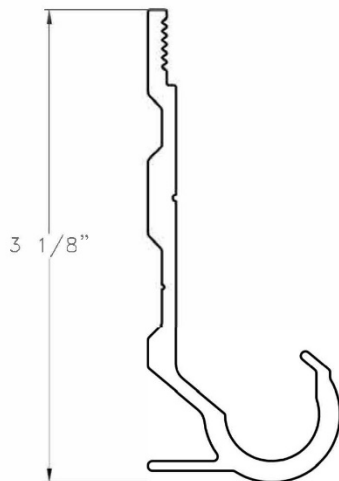
Bolt 1/4" x 1" HLN
Part No. 4836



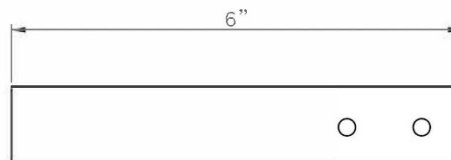
Screw 1/4" x 1" FTPN
Part No. 5634



CapPlug W8 Red Plastic
Part No. 4337

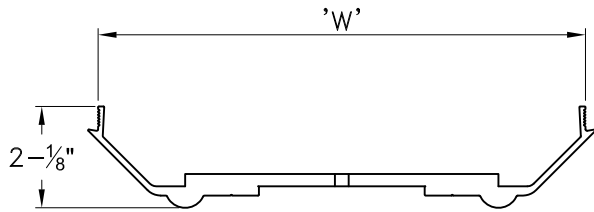


Wall Mount
Part No. 19610



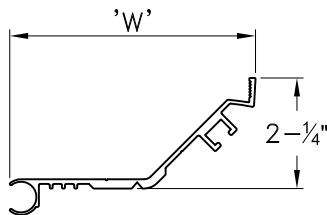
Butt Splice Connector
Part No. 14050

Components shown below vary in size depending on model of system



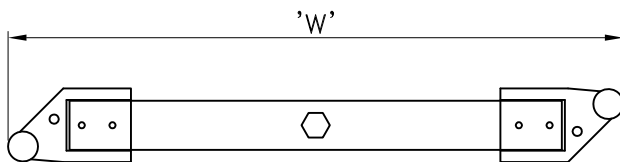
Aluminum Pan

Model #	Part #	"W" dim.
EFLP-200	19656	7.917"
EFLP-400	19650	9.917"
EFLP-600	19652	11.917"
EFLP-800	19626	15.917"
EFLP-1000	19627	17.917"
EFLP-1200	19628	20.917"
EFLP-1600	19617	29.917"
EFLP-1800	19618	31.917"



Aluminum Edge Frame

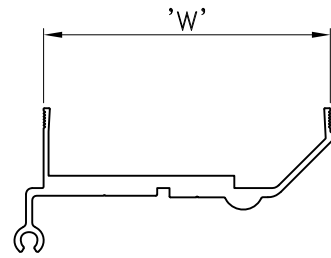
Model #	Part #	"W" dim.
EFLP-400/600	19651	5"
EFLP-800/1000	19609	6"
EFLP-1200	19606	6.50"
EFLP-1600	19607	7.50"
EFLP-1800	19608	9"



Seismic Centering Bar

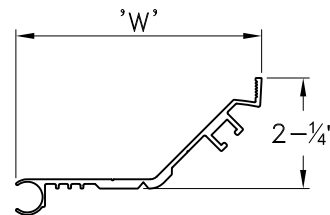
Model #	Part #	"W" dim.
EFLP-400	15642	7 3/8"
EFLP-600	15643	12 3/8"
EFLP-800/1000	15630	18 3/8"
EFLP-1200	15631	22 3/8"
EFLP-1600	15603	26 3/8"
EFLP-1800	15604	38 3/8"

Flush Condition



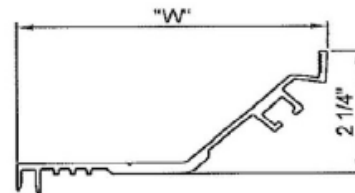
Aluminum Pan

Model #	Part #	"W" dim.
EFLP-200W	19658	3.835"
EFLP-400W	19653	5.835"
EFLP-600W	19654	7.835"
EFLP-800W	19632	10.835"
EFLP-1000W	19633	12.835"
EFLP-1200W	19634	15.835"
EFLP-1600W	19635	20.335"
EFLP-1800W	19636	23.835"



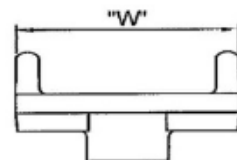
Aluminum Edge Frame

Model #	Part #	"W" dim.
EFLP-400W/600W	19651	5"
EFLP-800W/1000W	19609	6"
EFLP-1200W	19606	6.50"
EFLP-1600W	19607	7.50"
EFLP-1800W	19608	9"



Aluminum Edge Frame

Model #	Part #	"W" dim.
EFLP-200/200W	19657	4 3/4"



Seismic Centering Bar

Model #	Part #	"W" dim.
EFLP-200	11120	10"

Tool List

- Tape measure
- Phillips
- Hex screwdriver
- Slotted Drivers for Anchors
- Levels
- Awls
- Masking tape
- Rubber mallet
- Wooden block
- Trowel
- Chop saw to cut product to length
- Electric drill with 5/32" masonry bit
- Broom & dustpan or vacuum

INSTALLATION

1. Prior to beginning work, installer shall inspect opposing concrete slabs, corners and blockouts for acceptability. For repair (if required) refer to step 2, also, measure joint opening for proper size as called for on shop drawings or CAD detail. *See shop drawings or CAD detail for specific blockout information. **SEE FIGURE 1**

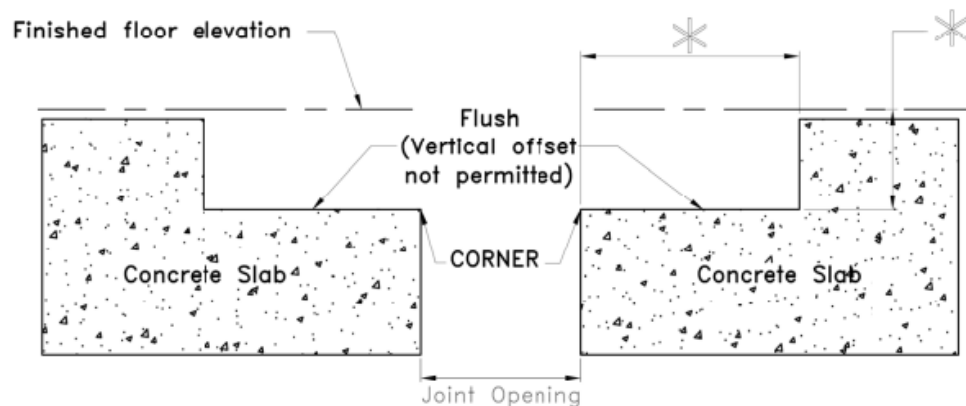


FIGURE 1



2. Repair corner of concrete slab and blockout base following manufacturers written instructions. **SEE FIGURE 2**

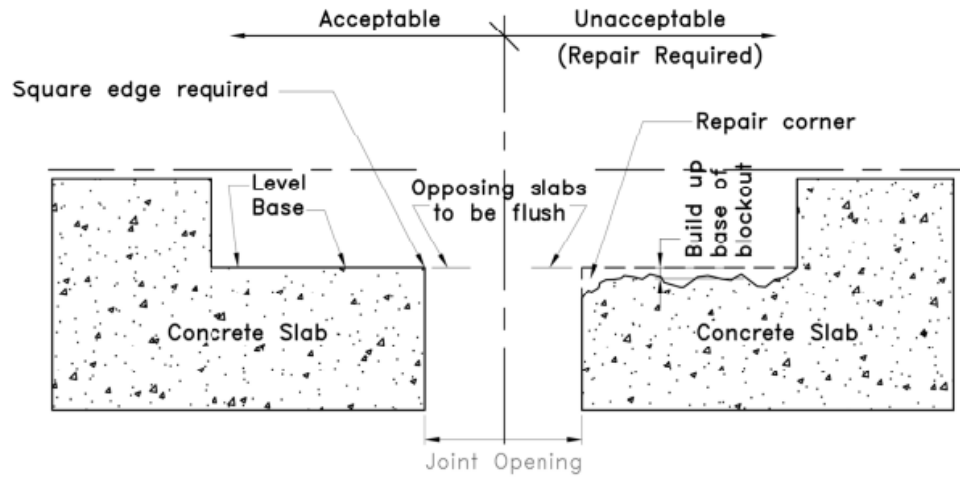


FIGURE 2

3. Insert (4) zinc plated nuts (Part # 7869) into nut cavity of aluminum edge frame. **SEE FIGURE 3a.1** Thread Bolt 1/4" x 2-1/2" HLN (Part # 7869) into each zinc plated nut, spacing at 36" on center (starting 6" from either end). Tighten until bolts are secure. **SEE FIGURE 3a.2**

FIGURE 3a.1

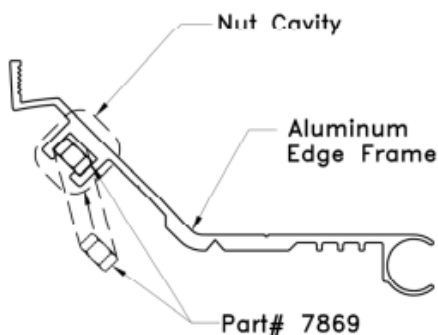
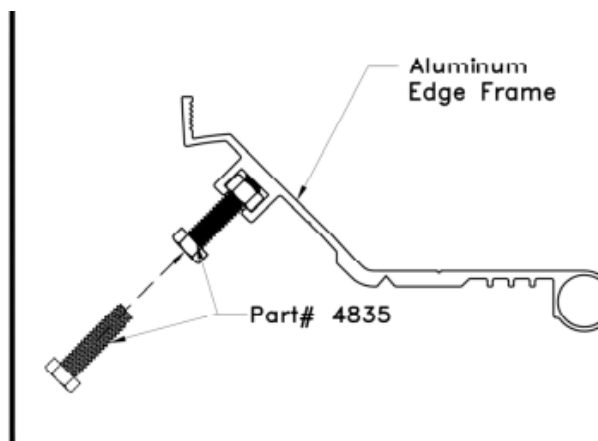
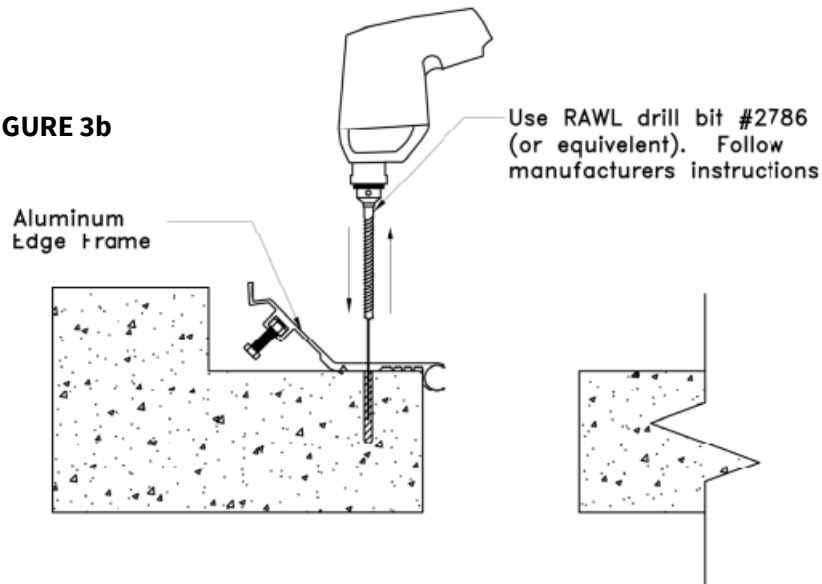


FIGURE 3a.2



Utilizing predrilled holes in aluminum edge frame assembly as a template, drill pilot holes using a 3/16" taper masonry drill bit. Use two 5-foot aluminum edge frame sections (1 on each side of a joint opening) when starting on a run of Seismic Pan. **SEE FIGURE 3b**

FIGURE 3b



- a. Fasten aluminum edge frame assembly securely using threaded anchor rawl taper #2764 1/4" x 2-1/4" (Part No. 6526) **SEE FIGURE 3c**

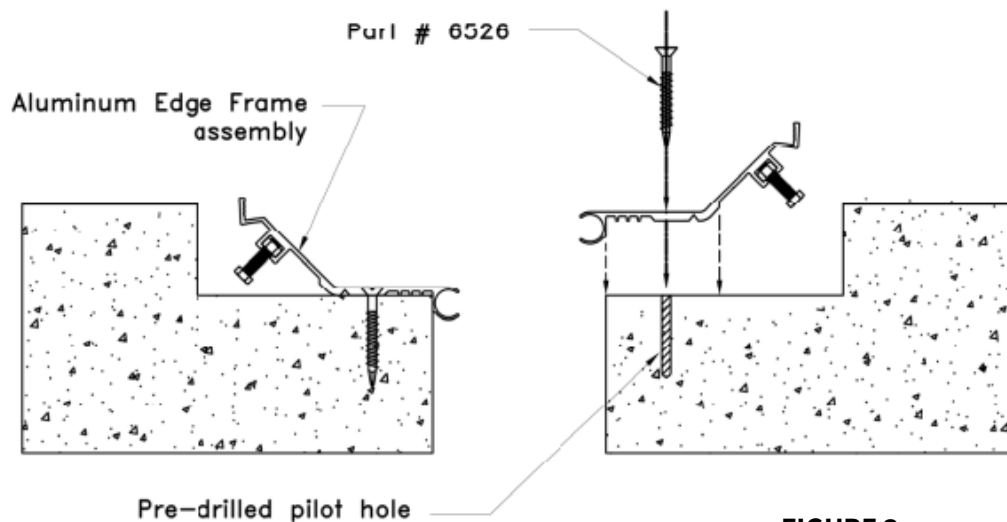


FIGURE 3c

4. Insert seismic-centering bars into circular aluminum cavity as work progresses from
FIGURE 3c. Space bars at 18" o.c. SEE FIGURE 4

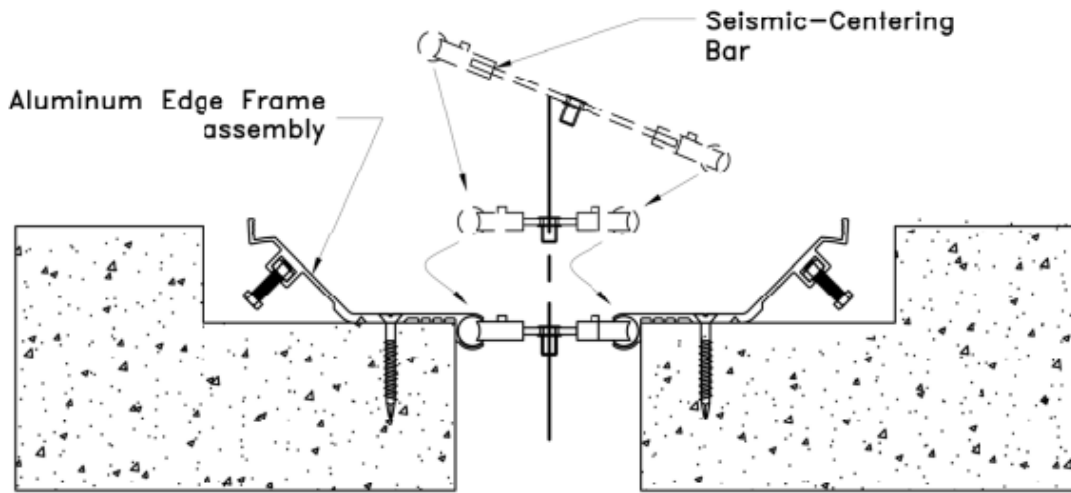


FIGURE 4

5. After aluminum edge frames and seismic-centering bars are installed, start adding butt splice connections to one end of each aluminum pan using factory holes provided and part no. 5634 (Screw 1/4" x 1" FTPN). **SEE FIGURE 5**

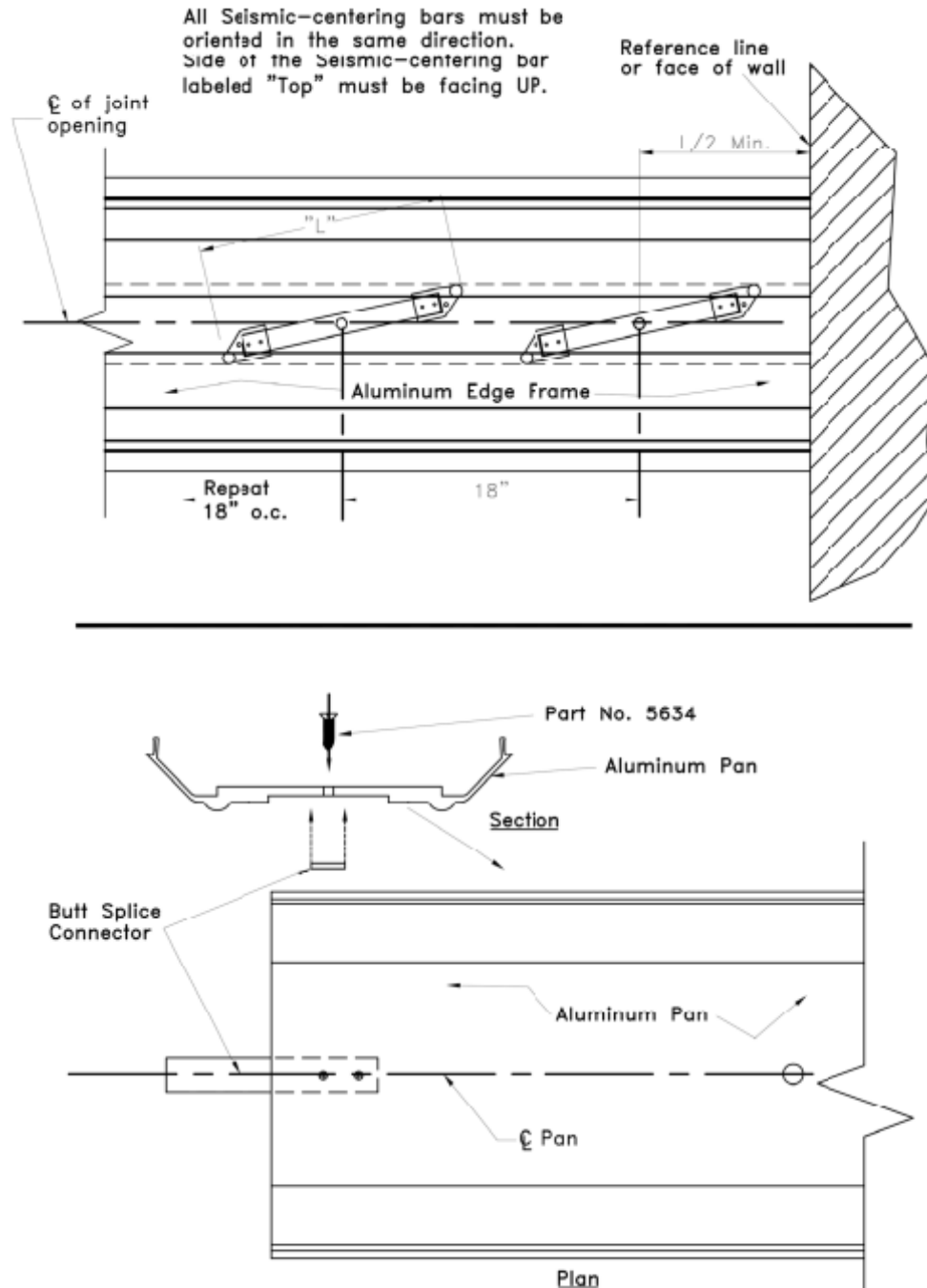


FIGURE 5

6. Use heavy tape to cover unused splice connector holes (this will be at the first aluminum pan to be installed against the wall). Take measurement “X” of aluminum pan and align first self-centering bar to this dimension as shown. This step is to double check for accuracy before installing aluminum pan. **SEE FIGURE 6**

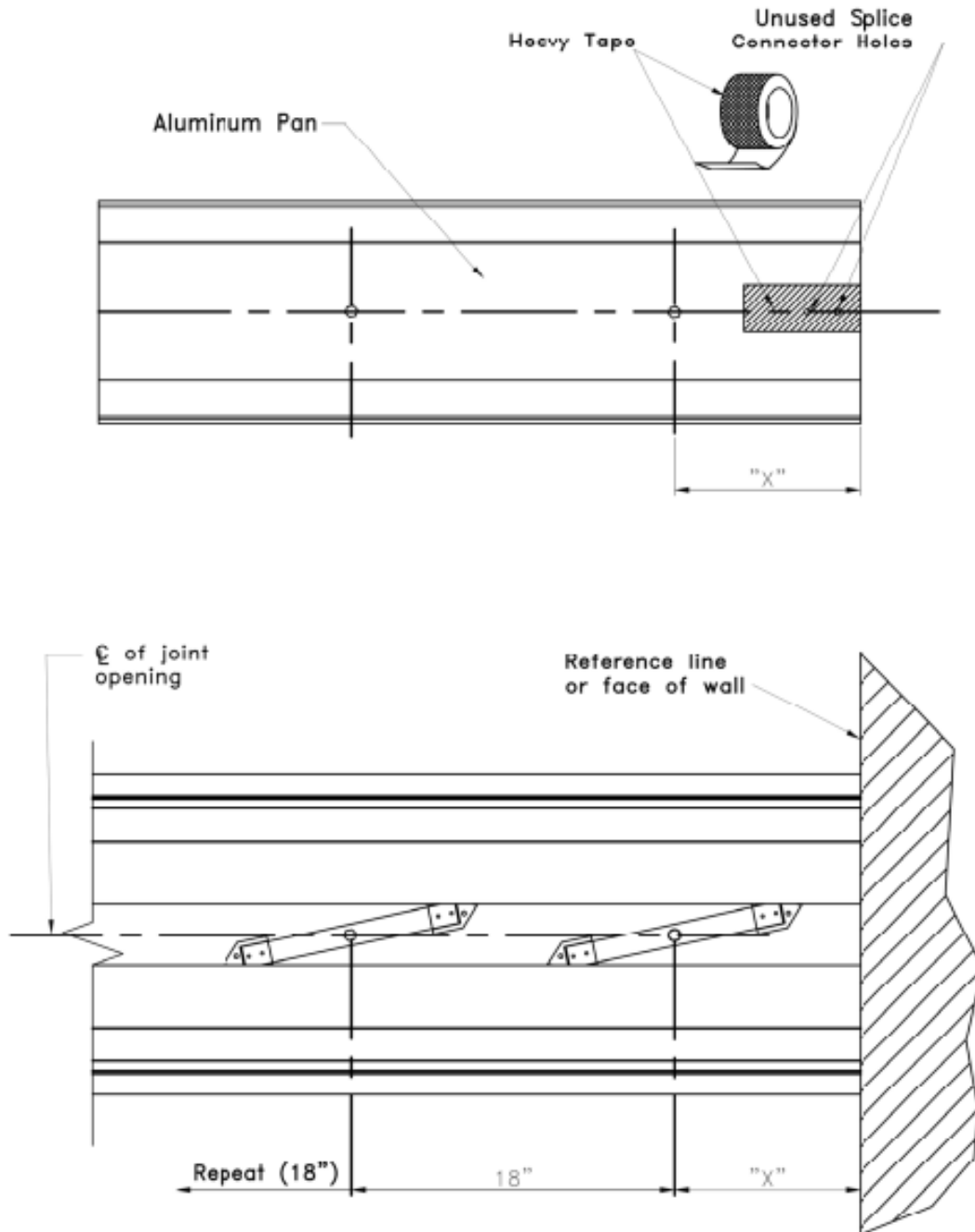


FIGURE 6

7. Center the aluminum pan on joint opening while keeping end of pan snug with wall / reference line. Use Phillips head screwdriver to fine tune alignment of seismic-centering bars to associated predrilled holes in aluminum pan. **SEE FIGURE 7**

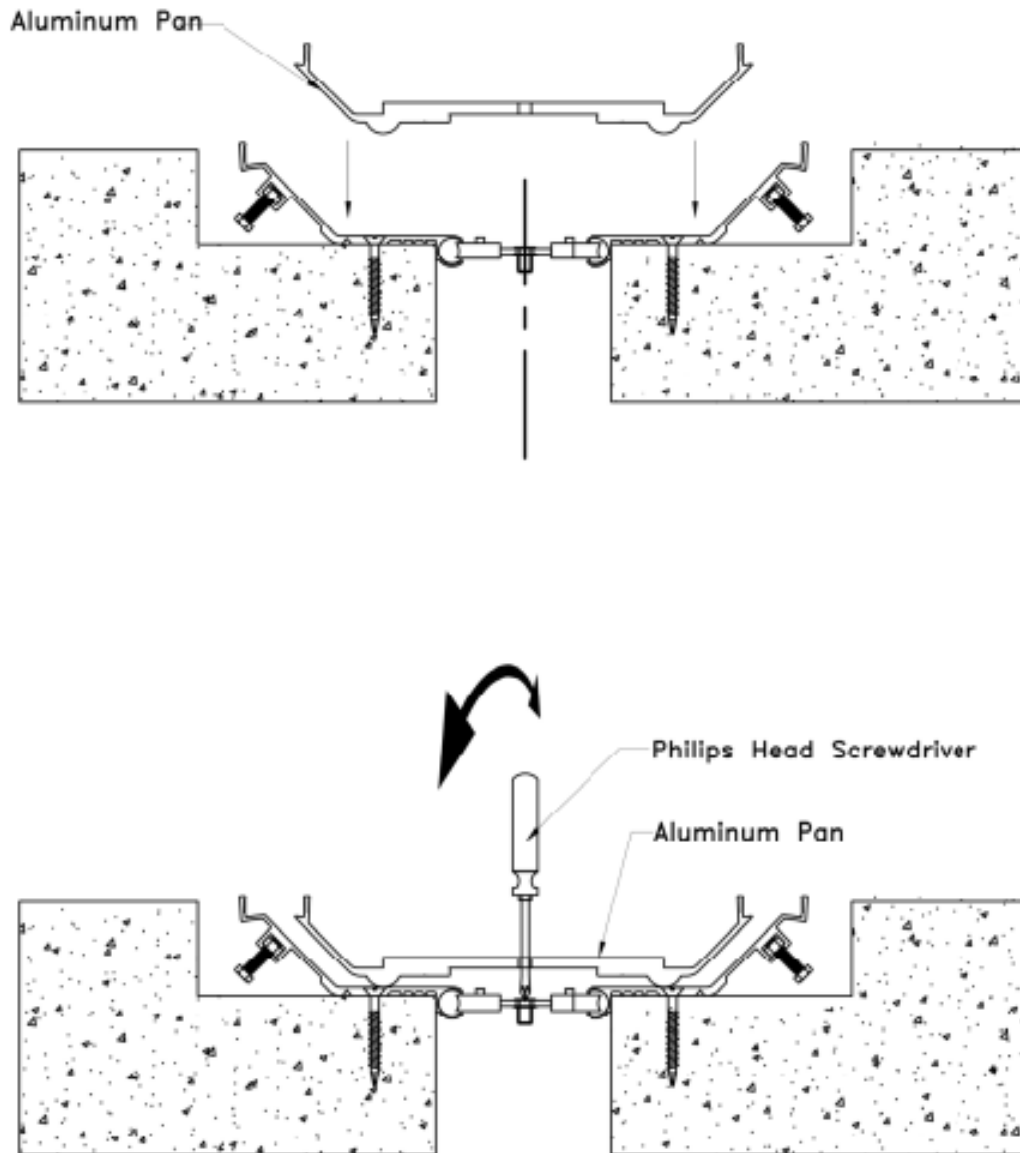


FIGURE 7

8. Insert Part No. 4835 through predrilled holes in aluminum pan and seismic-centering bar and do not overtighten. Cover bolt heads with cap plugs (Part no. 4337).

SEE FIGURE 8

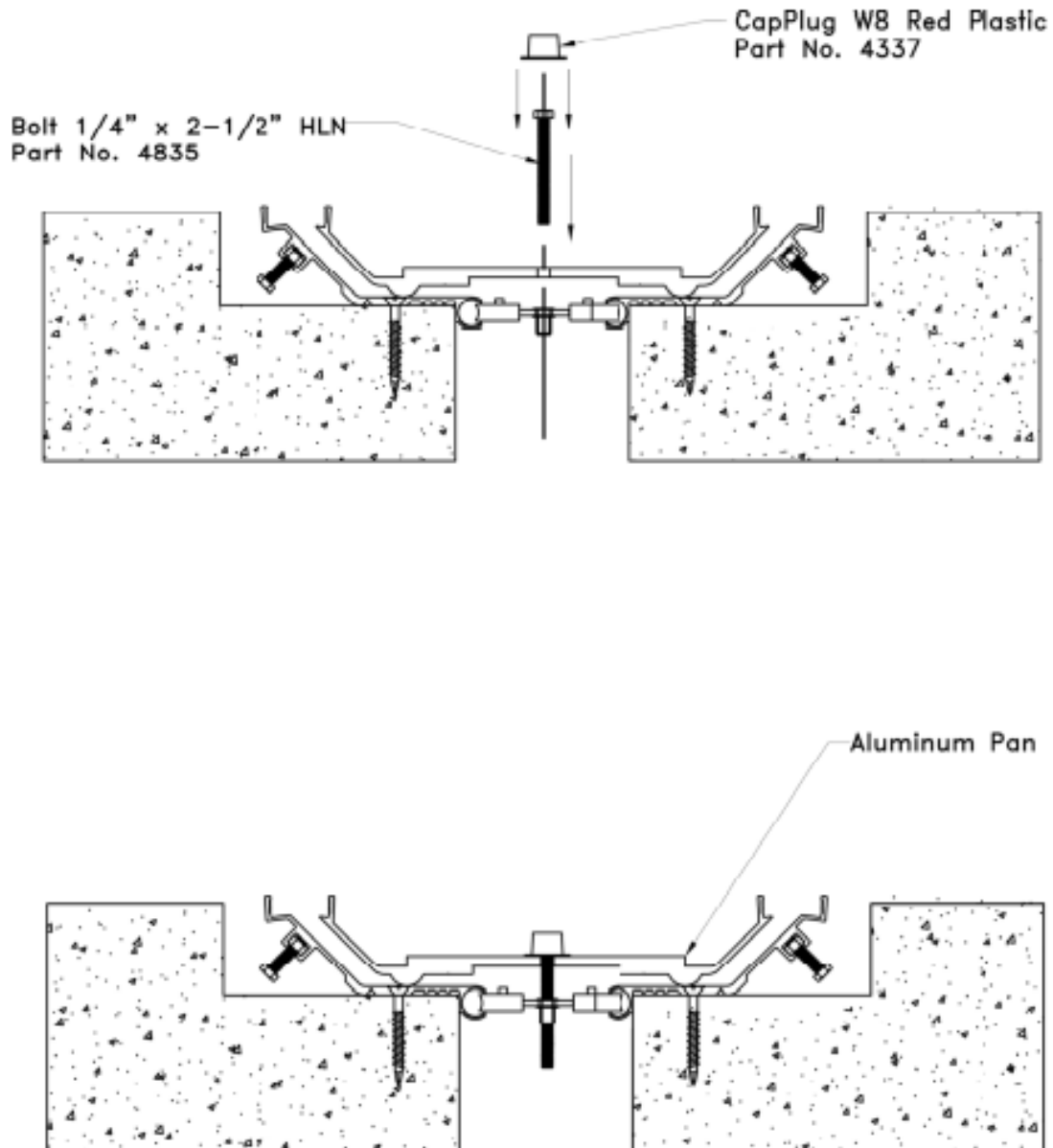


FIGURE 8

9. Repeat steps 5, 6, & 7 to align seismic-centering bars for next section of aluminum pan. Be sure to start threading seismic-centering bars for this section (do not completely tighten seismic-centering bars (as noted in Step 8) until Step 10). Ensure aluminum pan sections butt tightly together and that the outside edges align from section to section.

SEE FIGURE 9

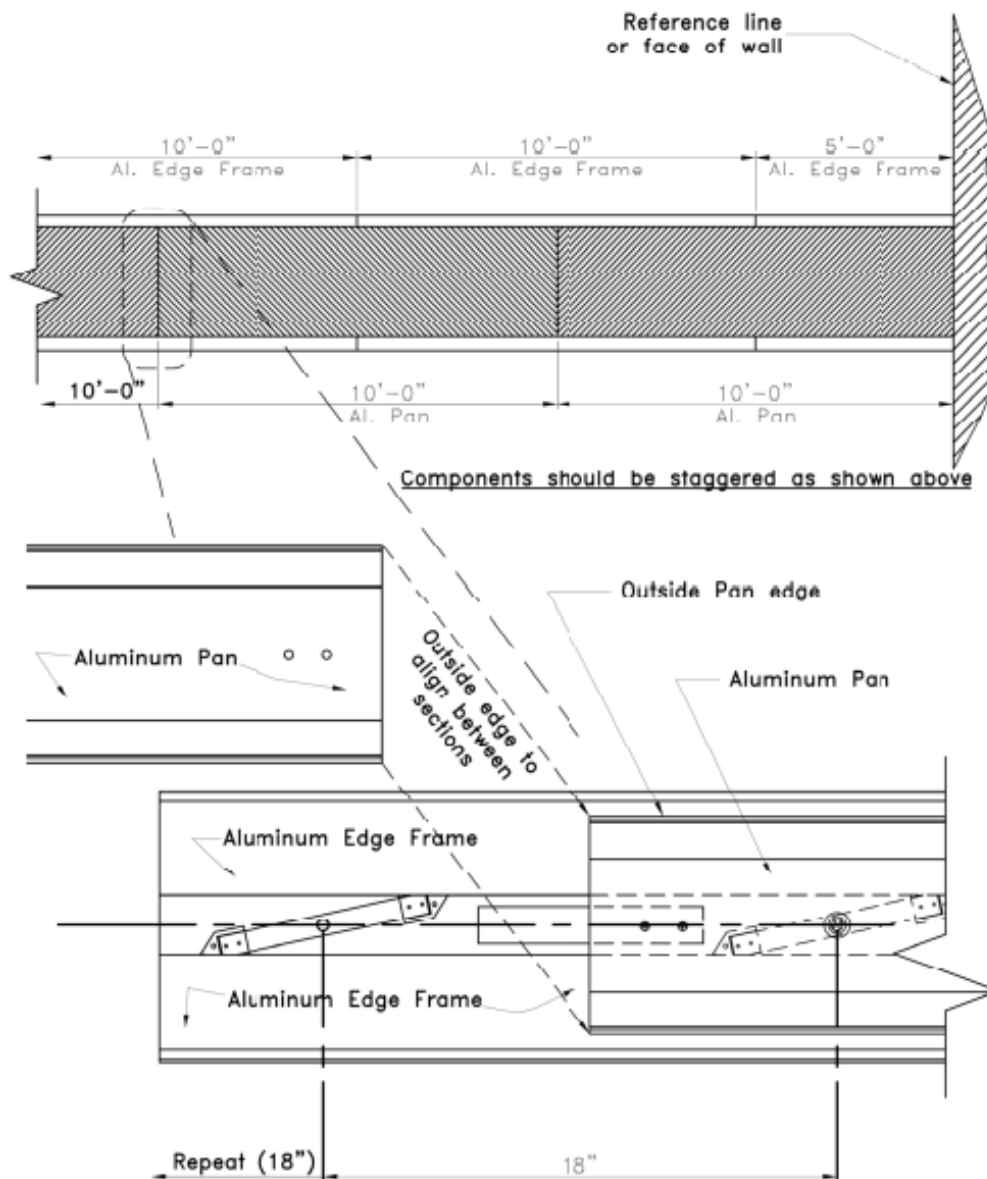


FIGURE 9

10. Using the splice connector holes in aluminum pan as a guide, firmly tap in guide marks into the aluminum splice connector below utilizing either a nail setter or hole punch. Predrill 3/16" dia. Pilot hole in connector. Use self-tapping screw (Part No. 5634) to complete splicing of pan system together. Tighten seismic-centering bar bolts in newly spliced aluminum pan section. **SEE FIGURE 10**

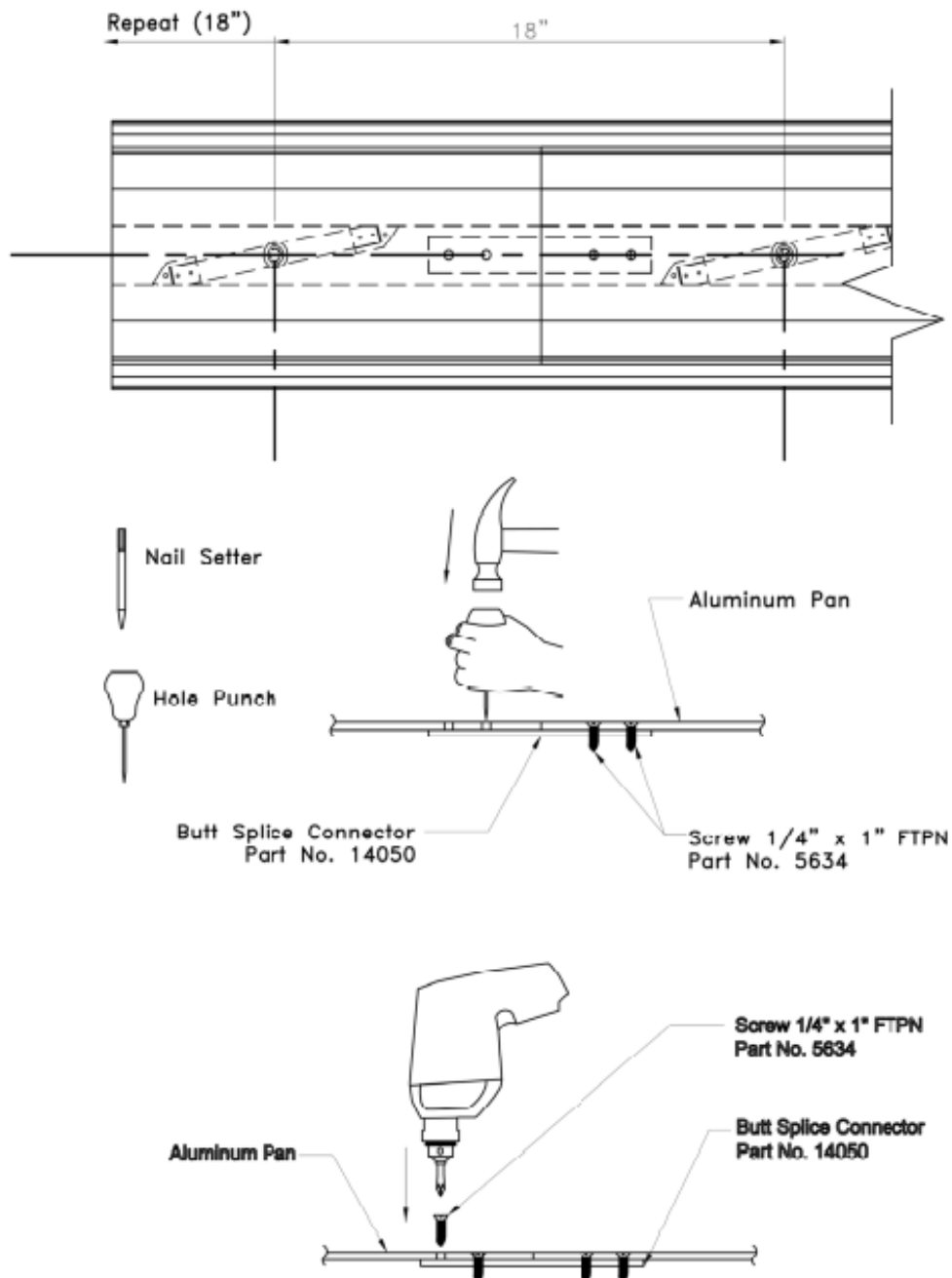


FIGURE 10

11. Use heavy tape continuously to protect joint opening through the next final steps.

SEE FIGURE 11

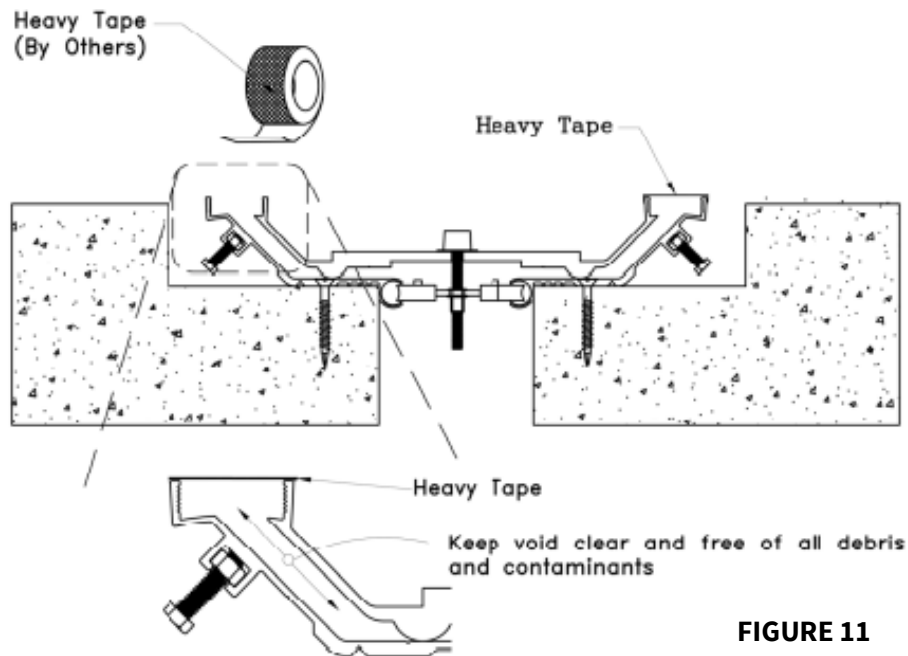


FIGURE 11

12. Pour infill material into blockout voids and pan cavity. *Warning! Leave required recess for floor finish, finish material thickness, and proper placement. **SEE FIGURE 12**

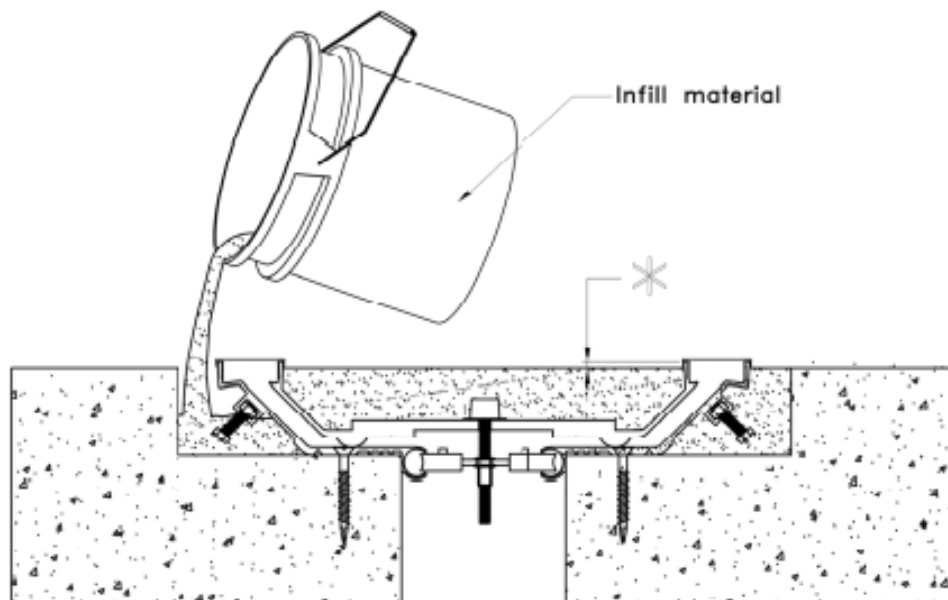


FIGURE 12

13. Install finished floor material. Be sure to keep joint opening protected. (See step 11).

SEE FIGURE 13

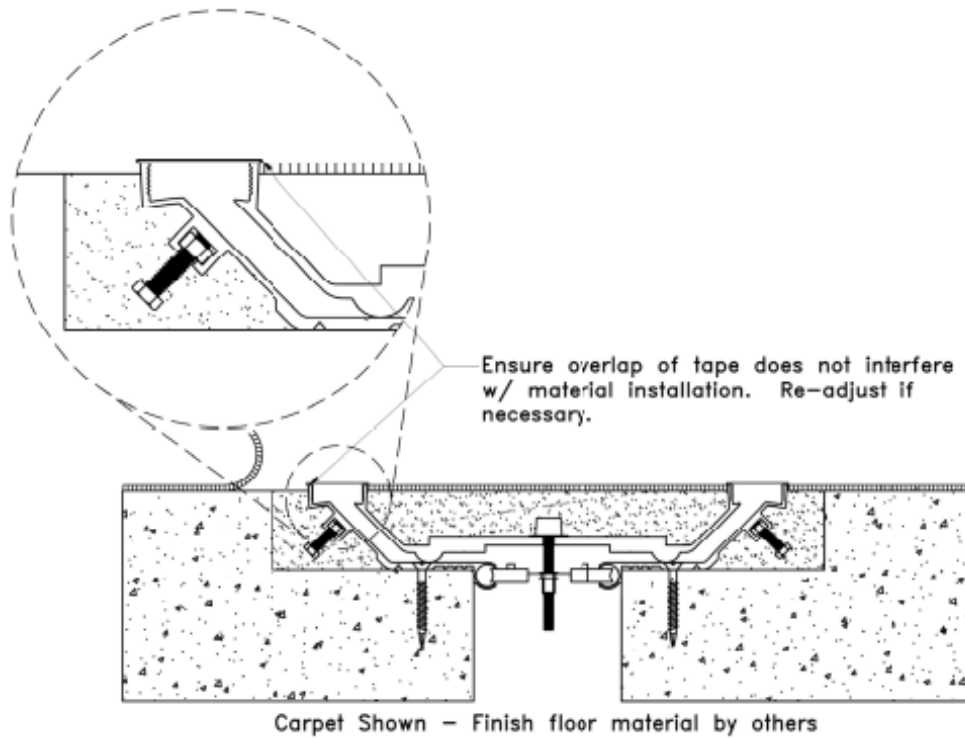


FIGURE 13

14. Remove heavy tape from joint opening. Protect surrounding finish floor material using heavy tap and heavy gauge plastic sheeting. **SEE FIGURE 14**

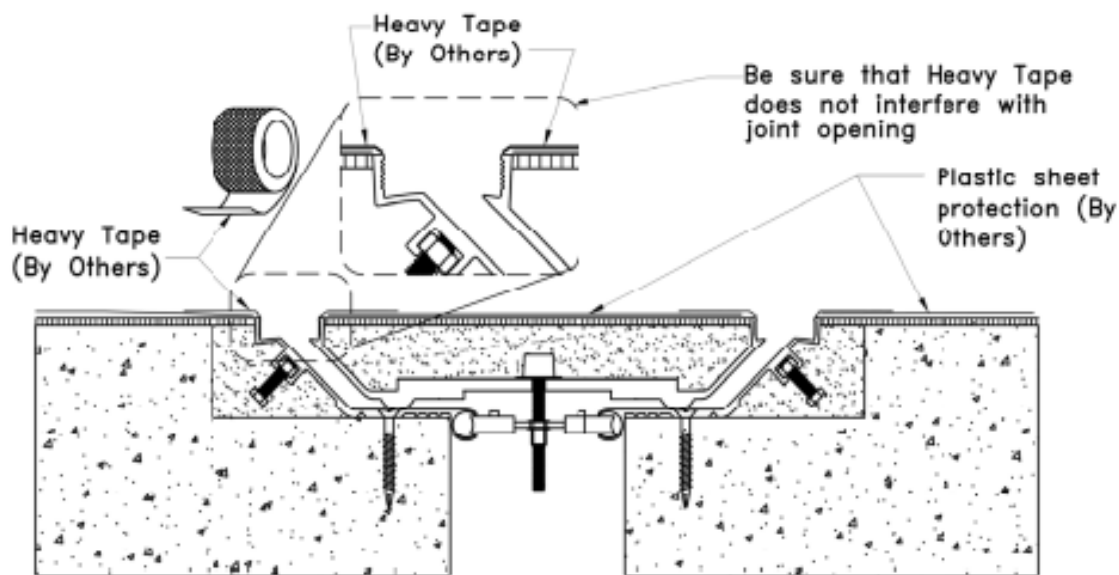


FIGURE 14

15. Install backer rod, bond breaker tape (supplied by others) & sealant (supplied by others).

SEE FIGURE 15

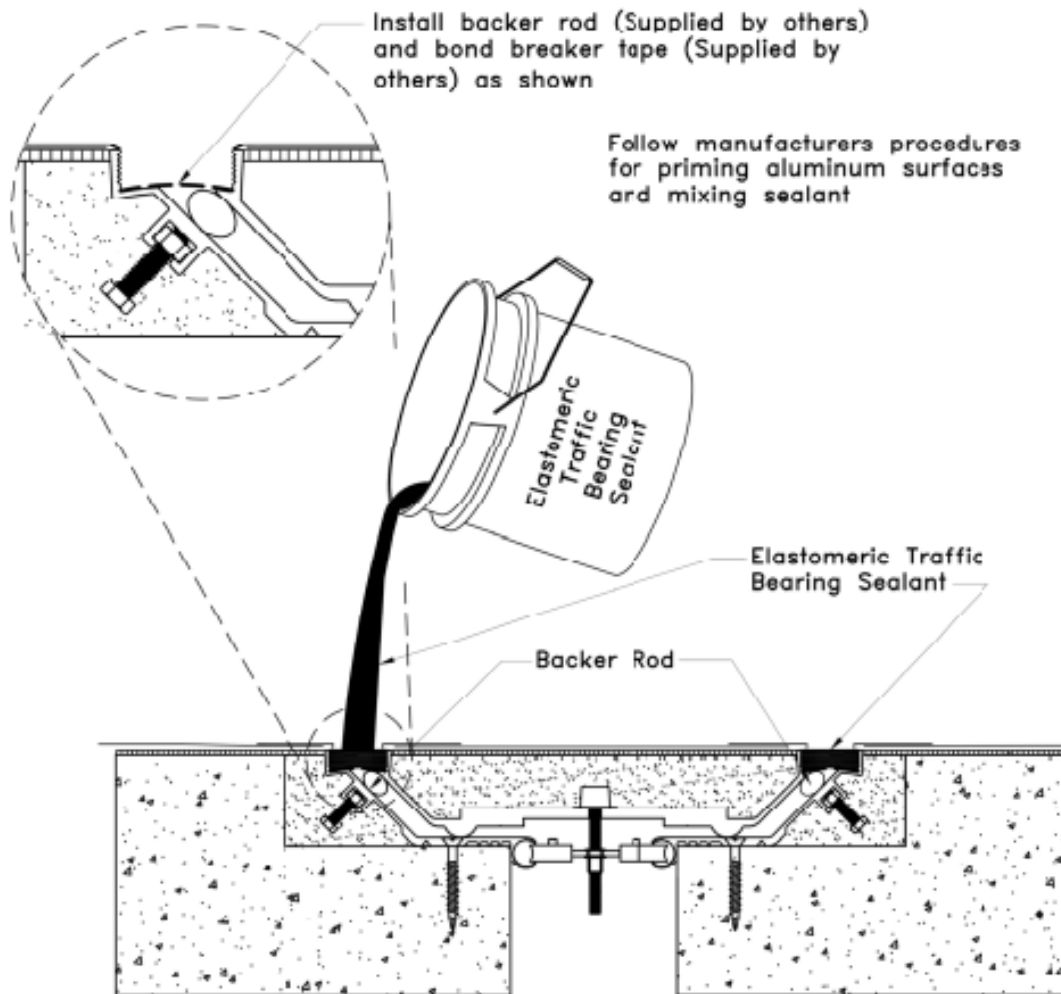


FIGURE 15

16. Install contract shell cover and protect the finished expansion joint assembly from damage during installation of finish floor materials. The expansion joint assembly is a finished product. Damage to expansion joint finishes and components are excluded from warranty. **SEE FIGURE 16**

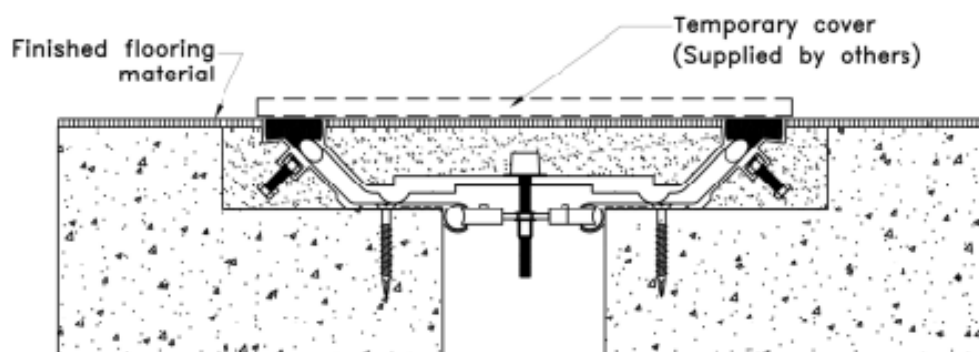
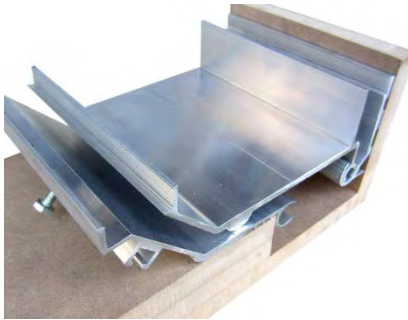


FIGURE 16

EFLPw Wall to Corner / Ceiling to Corner Cover System



GENERAL DESCRIPTION

EFLPw Seismic Pan System is designed to match the EFLP system in corner applications.

Pre-Installation

1. Ensure that the area where the expansion system is being installed is smooth and level.

INSTALLATION

1. Prior to beginning work, installer shall inspect opposing concrete slabs, corners and blockouts for acceptability. For repair (if required) refer to step 2, also, measure joint opening for proper size as called for on shop drawings or CAD detail. **SEE FIGURE 1**
*See shop drawings or CAD detail for specific blockout information.

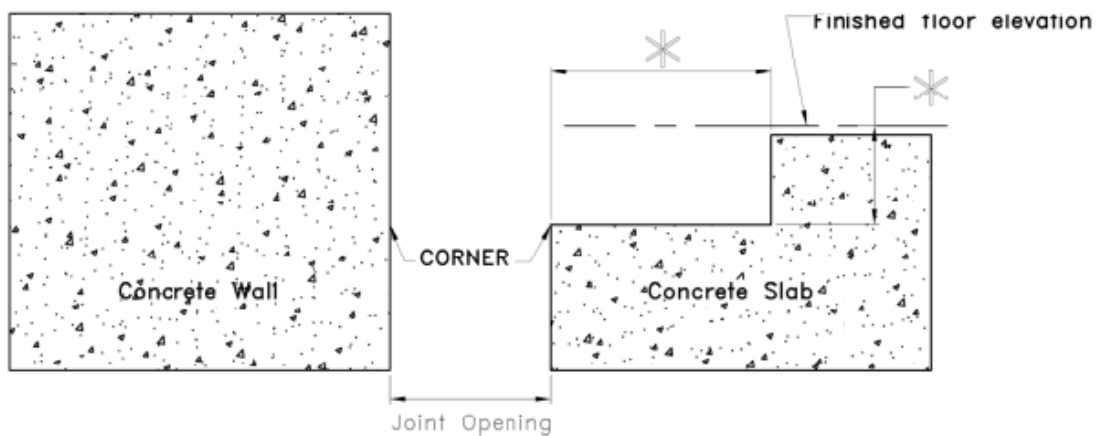


FIGURE 1

2. Repair corner of concrete slab and blockout base following manufacturers written instructions. **SEE FIGURE 2**



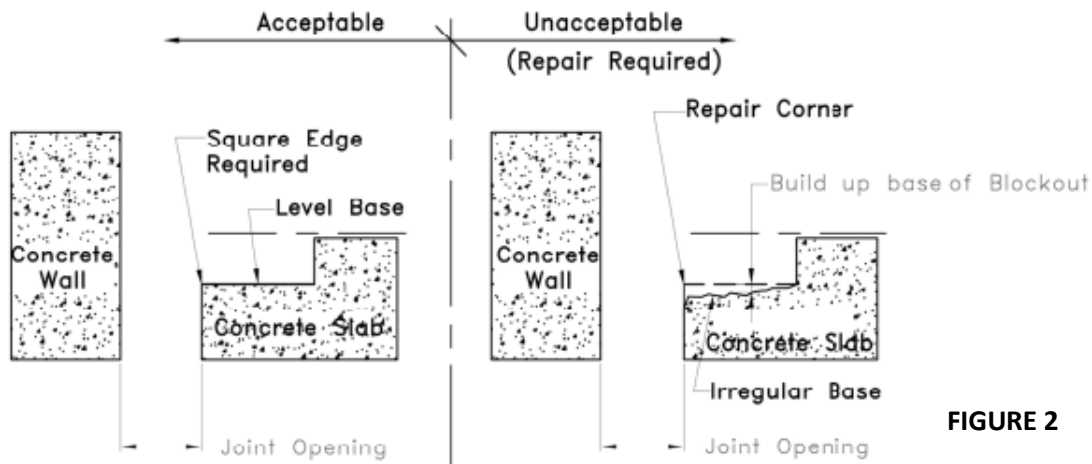


FIGURE 2

3. Insert (4) zinc plated nuts (Part # 7869) into nut cavity of aluminum edge frame. **SEE FIGURE 3a.1** Thread bolt 1/4" x 2-1/2" HLN (Part # 7869) into each zinc plated nut, spacing at 36" on center (starting 6" from either end). Tighten until bolts are secure. **SEE FIGURE 3a.2**

FIGURE 3a.1

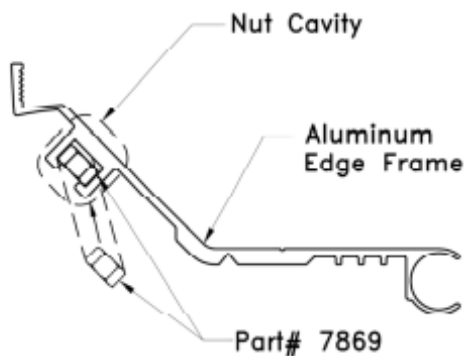
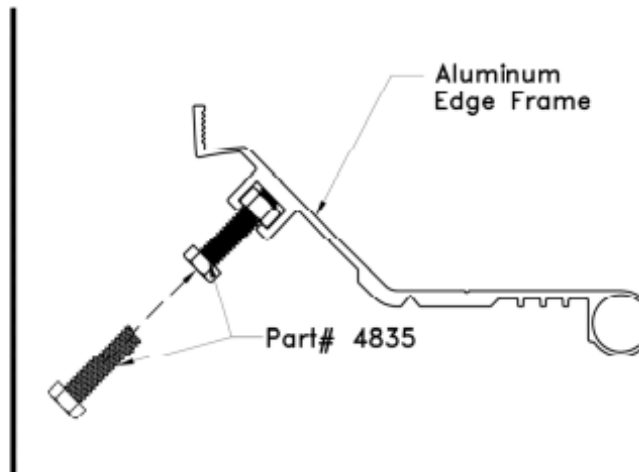


FIGURE 3a.2



Utilizing predrilled holes in aluminum edge frame assembly as a template drill pilot holes using a 3/16" taper masonry drill bit. Use two 5-foot aluminum edge frame sections (1 on each side of a joint opening) when starting a run of seismic pan. See step 6. **SEE FIGURE 3b**

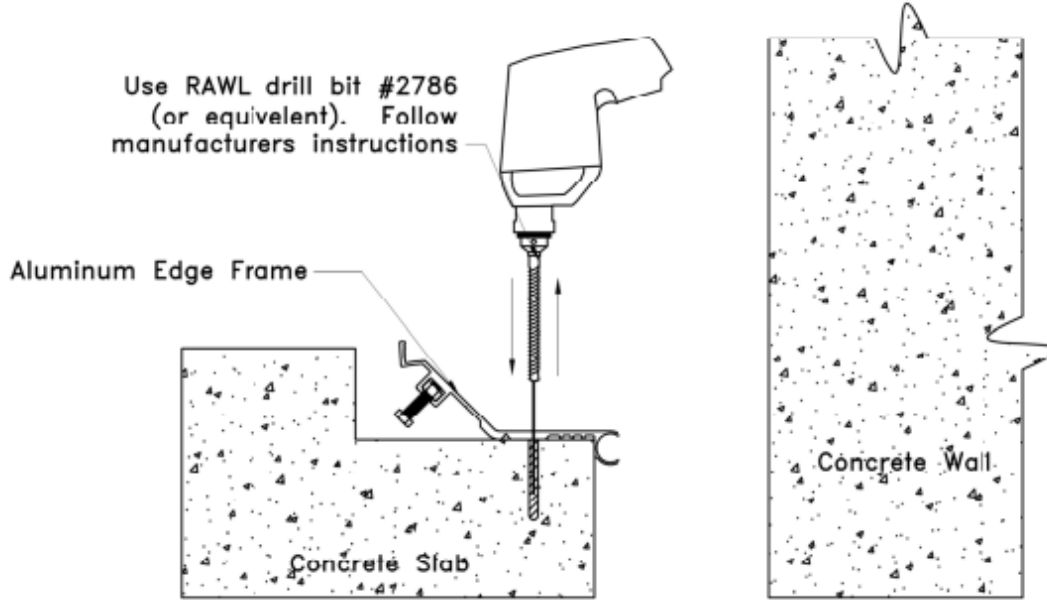


FIGURE 3b

- a. Fasten aluminum edge frame assembly securely using threaded anchor rawl tapper #2764 1/4" x 2-1/4" (Part No. 6526) utilizing predrilled countersunk holes.

SEE FIGURE 3c

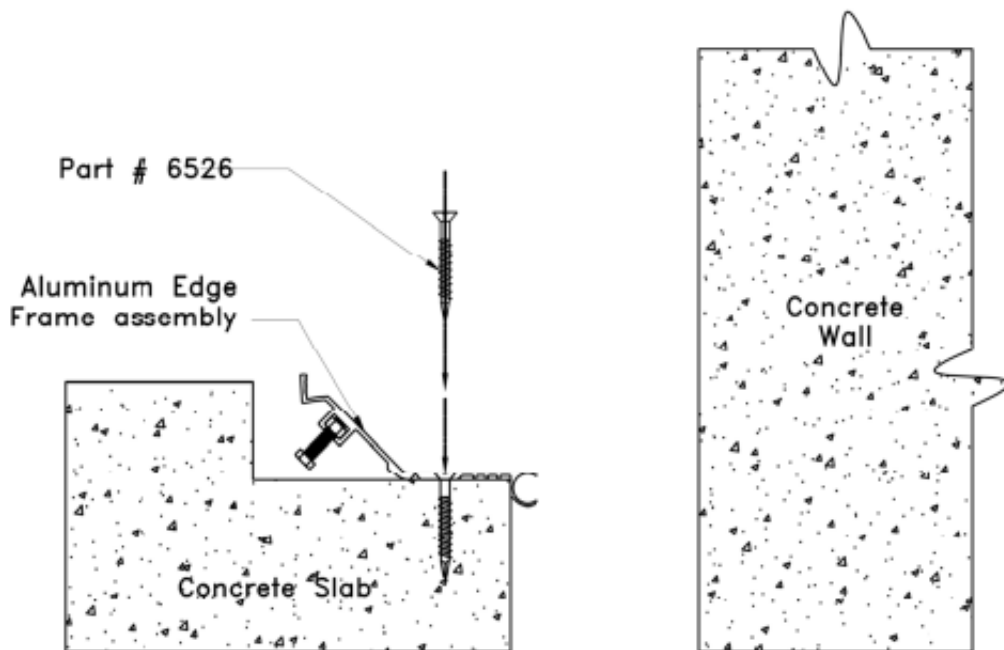
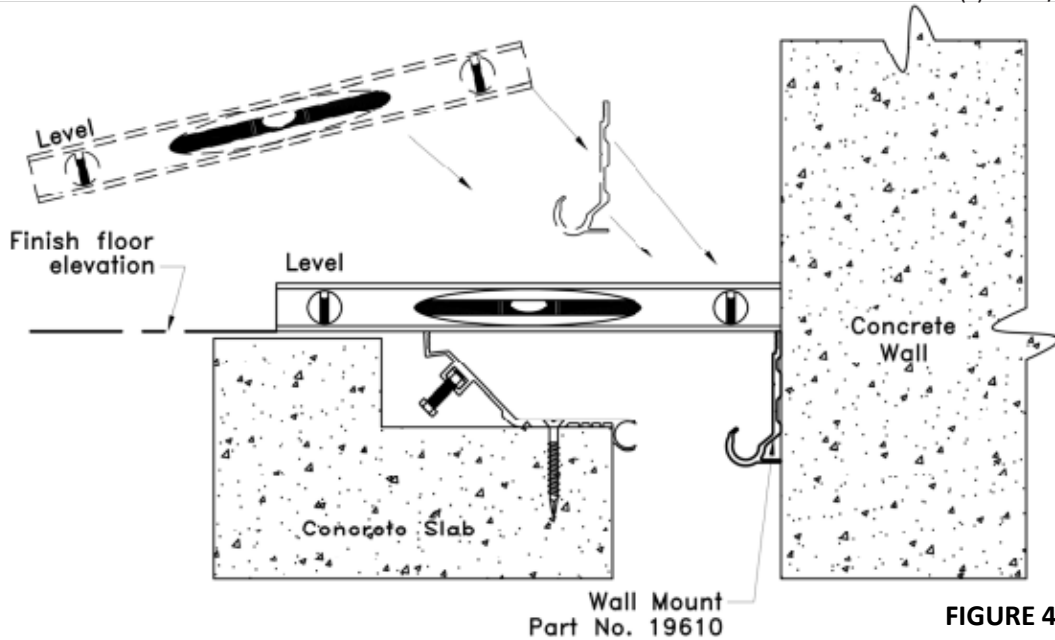
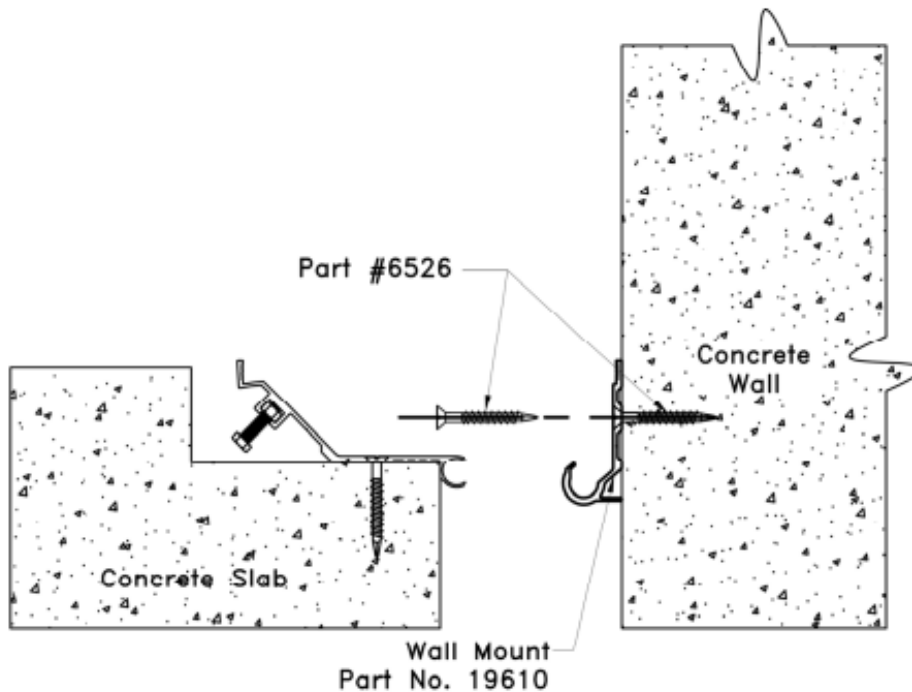


FIGURE 3c

4. In preparation for fastening wall mount extrusion (Part No. 19610). Hold extrusion against wall and making sure that it is level with the adjacent aluminum edge frame assembly. Snap a chalk line to insure level installation. Use 5-foot piece wall mount at start of each join run. **SEE FIGURE 4a**



Fasten Wall Mount with (Part No. 6526) utilizing predrilled countersunk holes. **SEE FIGURE 4b**



5. After aluminum edge frames and seismic-centering bars are installed, start adding butt splice connectors to one end of each aluminum pan using factory holes provides and Part No. 5634 (Screw 1/4" x 1" FTPN). **SEE FIGURE 5**

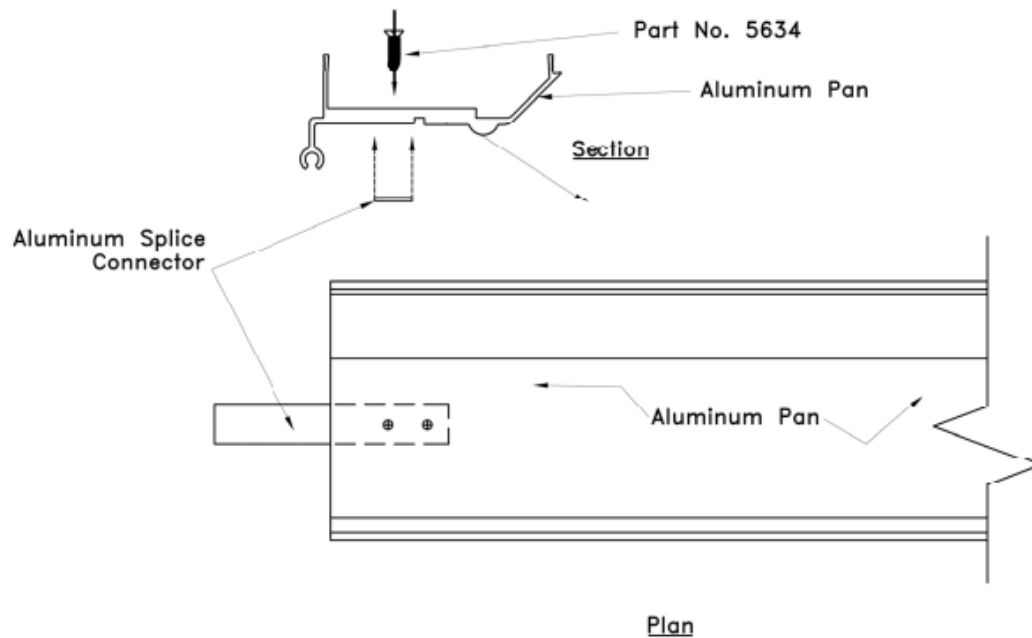


FIGURE 5

6. Use heavy tape to cover unused splice connector holes. (This will be at the first aluminum pan to be installed against the wall). **SEE FIGURE 6**

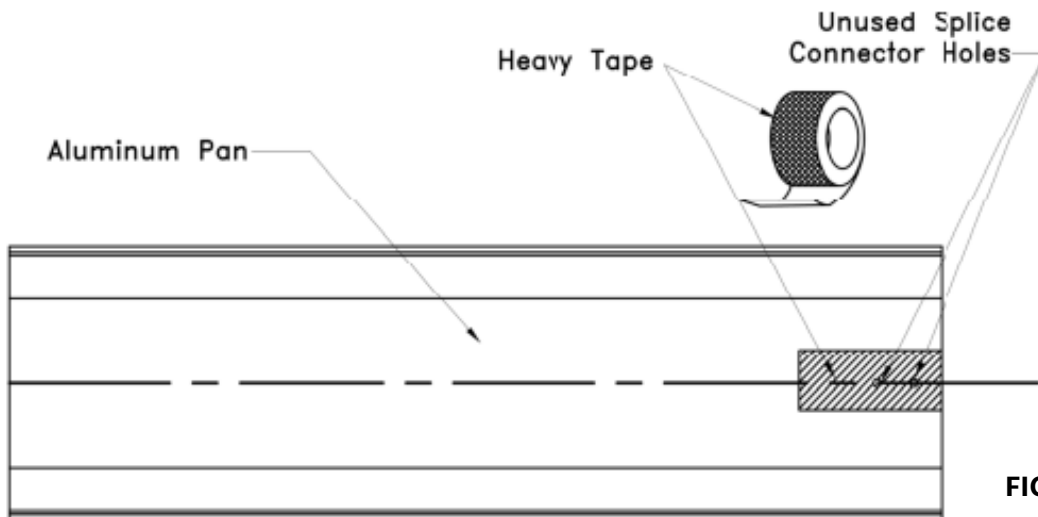


FIGURE 6

7. Gently set aluminum pans into place as shown above. See steps 8 & 9 for splicing procedure. **SEE FIGURE 7**

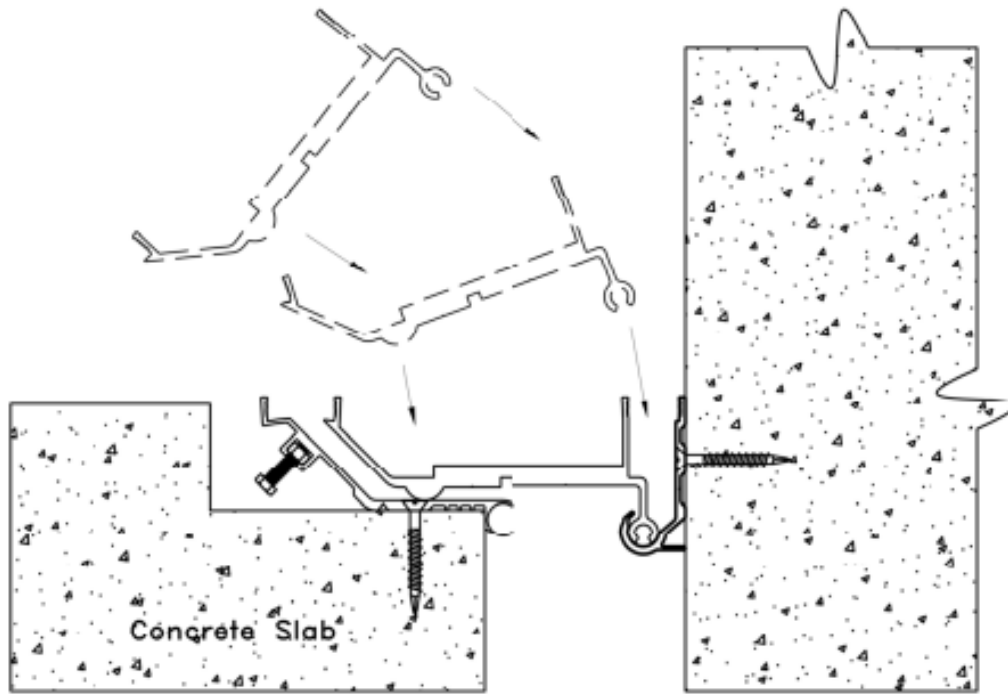


FIGURE 7

8. Set in next aluminum pan snug against previously laid in aluminum pan. See step 9 for splicing the two together. Ensure aluminum pan sections butt tightly together and that the outside edge align from section to section. **SEE FIGURE 8**

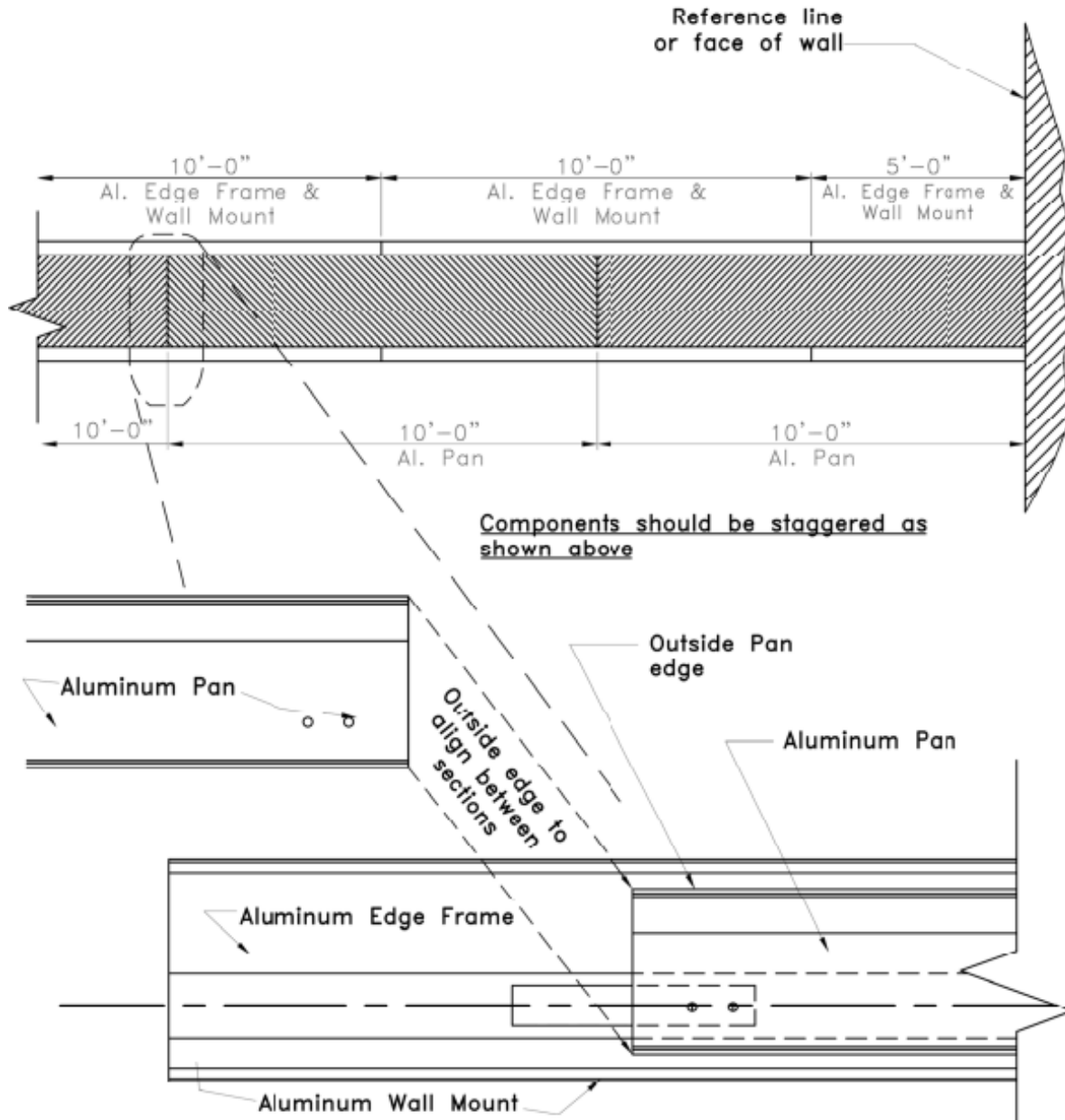


FIGURE 8

- Using the splice connector holes in the aluminum pan as a guide, firmly tap in the guide marks into the aluminum splice connector below utilizing either a nail setter or a hole punch. Pre-drill 3/16" dia. Pilot hole in connector. Use self-tapping screws (Part No. 5634) to complete splicing of pan systems together. **SEE FIGURE 9**

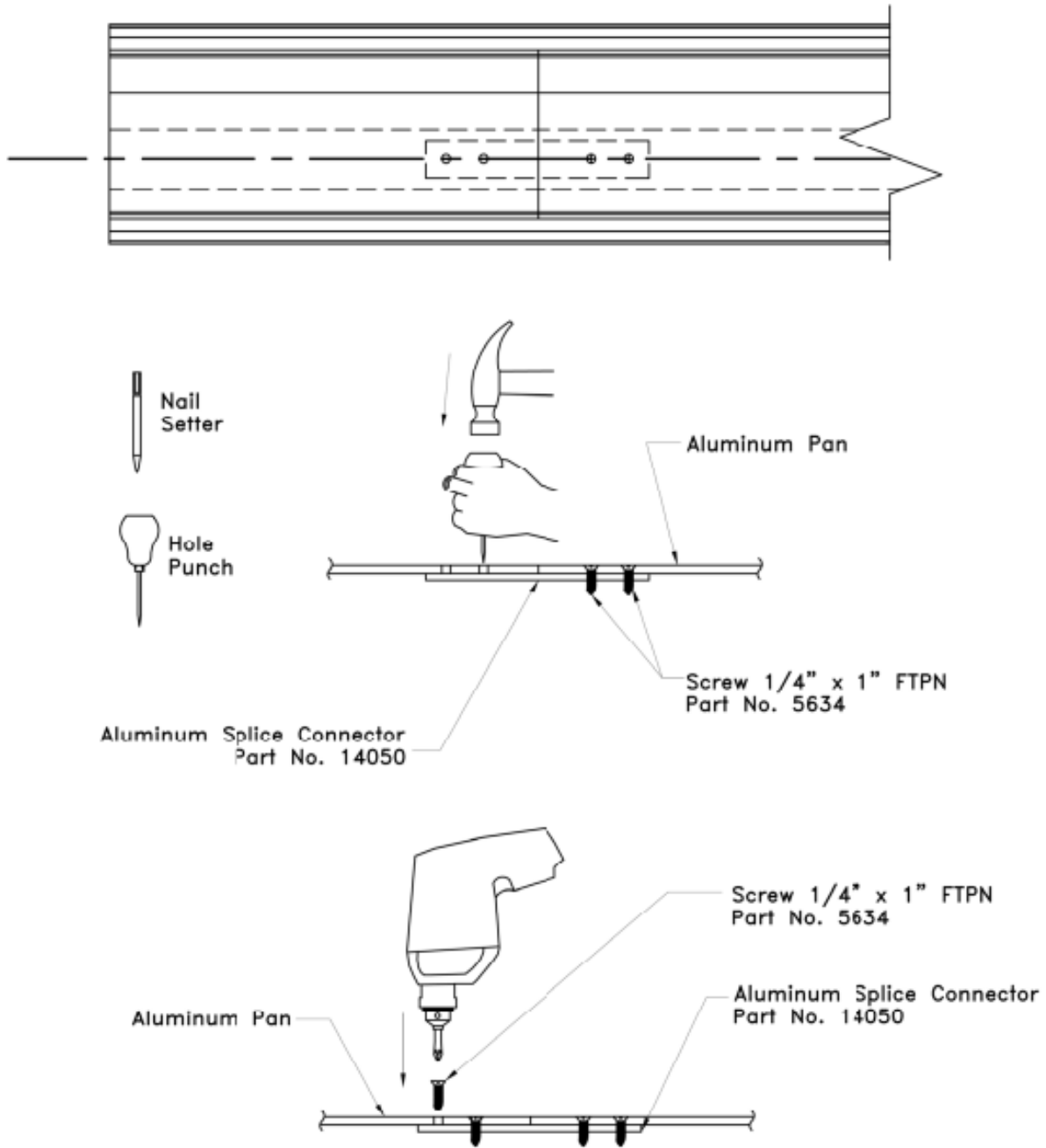


FIGURE 9

10. Use heavy tape continuously to protect joint opening through the next final steps.

SEE FIGURE 10



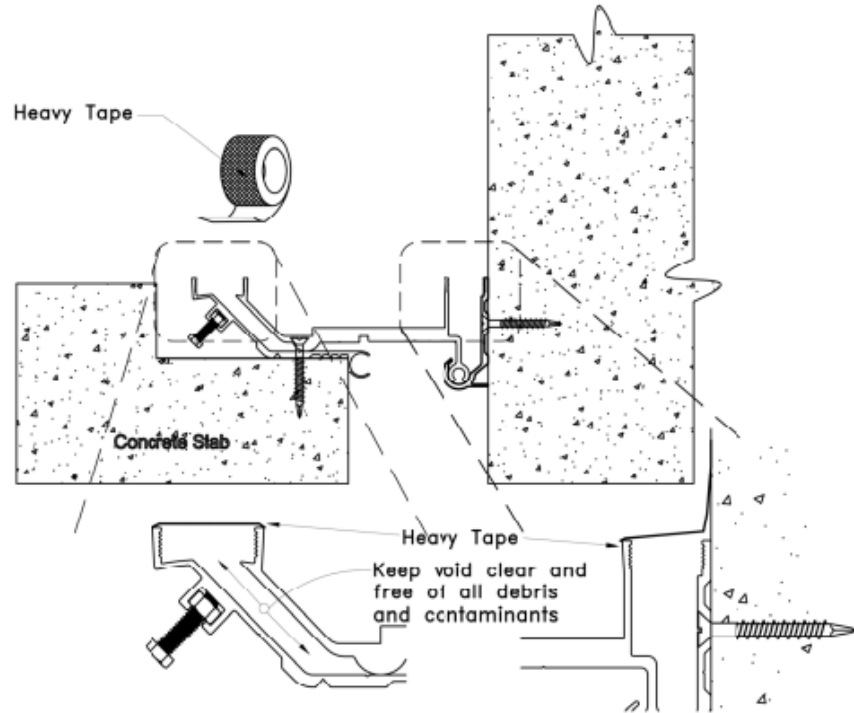


FIGURE 10

11. Pour infill material into blockout voids and pan cavity. * Warning! Leave required recess for finish floor finish material thickness and proper placement. **SEE FIGURE 11**

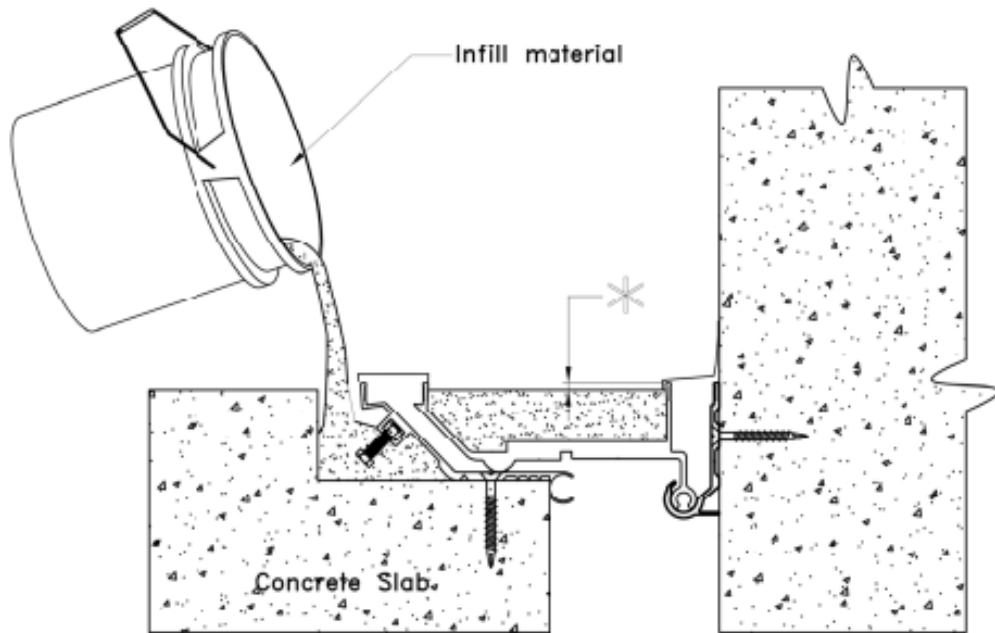


FIGURE 11

12. Install flooring material. Keep joint opening protected until surrounding flooring installation is complete. **SEE FIGURE 12**

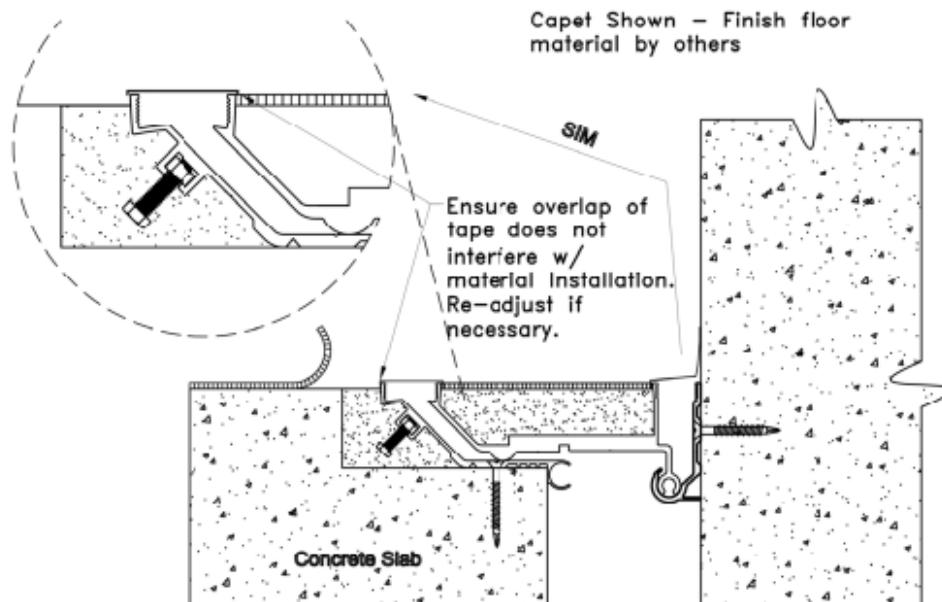


FIGURE 12

13. Remove heavy tape from joint opening. Protect surrounding finish floor material using heavy tape and heavy gauge plastic sheeting. **SEE FIGURE 13**

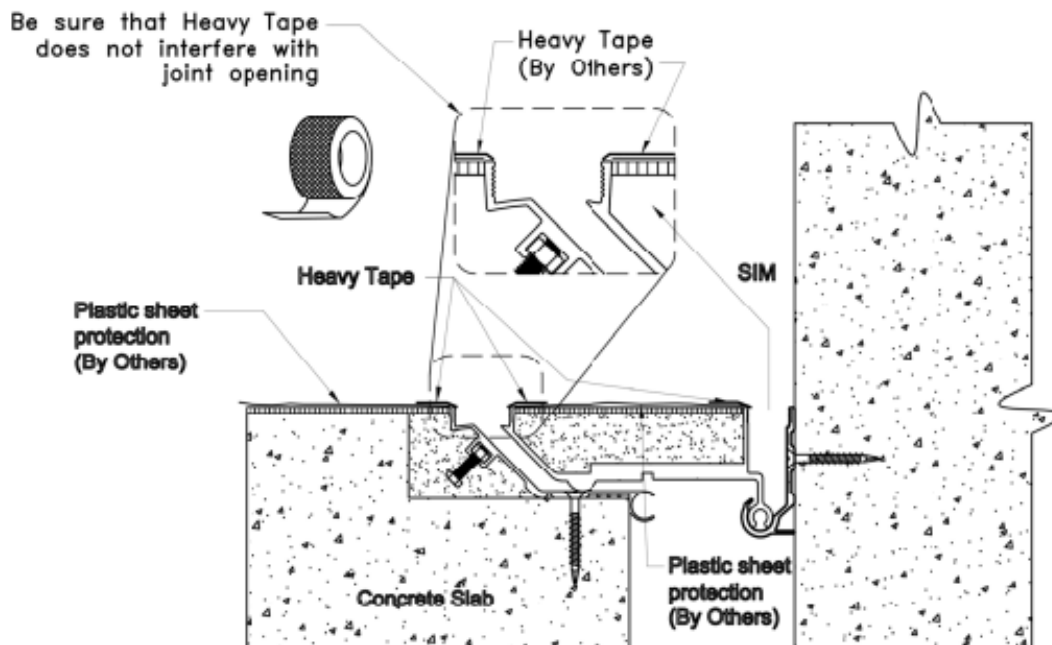
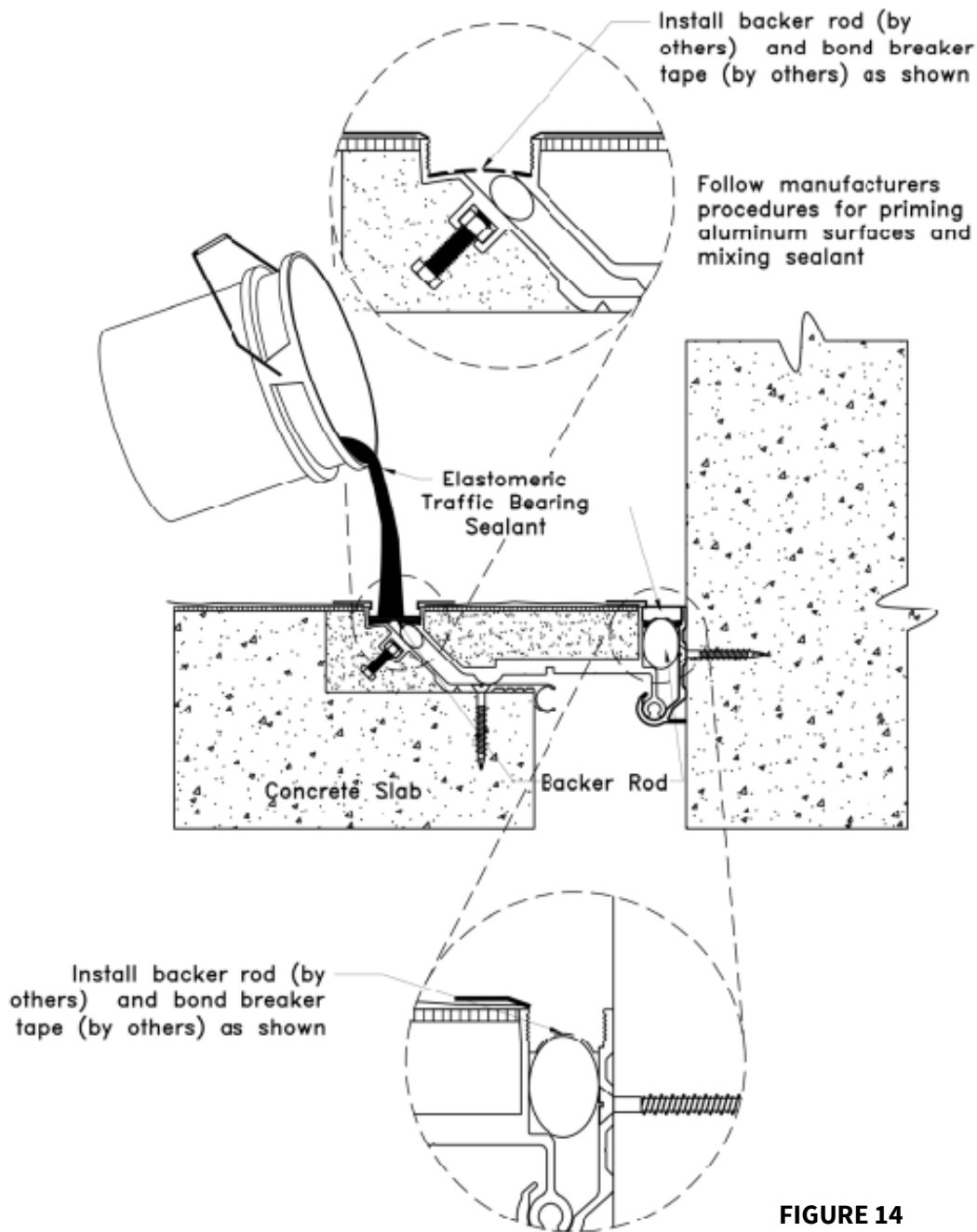


FIGURE 13

14. Install back rod, bond breaker tap (supplied by others) & sealant (supplied by others).

SEE FIGURE 14



15. Installing contractor shell cover and protect the finished expansion joint assembly from damage during installation of finish floor materials. The expansion joint assembly is a finished product. Damage to expansion joint finishes and components are excluded from warranty. **SEE FIGURE 15**

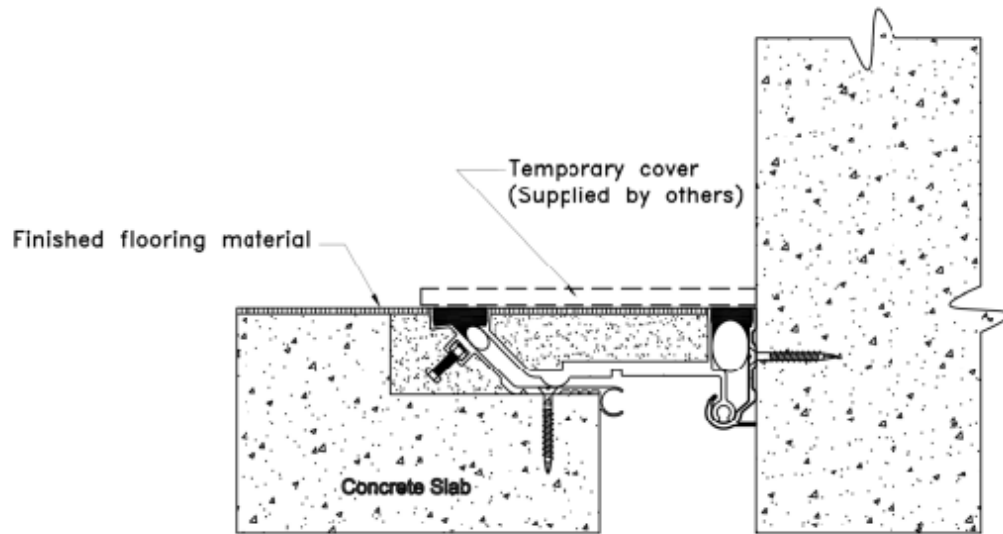


FIGURE 15