



SUBSTITUTION REQUEST

(After the Bidding/Negotiating Phase)

Project: _____ Substitution Request Number: _____

 From: _____
 To: _____ Date: _____

 A/E Project Number: _____
 Re: _____ Contract For: _____

Specification Title: _____ Description: _____
 Section: _____ Page: _____ Article/Paragraph: _____

Proposed Substitution: _____
 Manufacturer: _____ Phone: _____
 Address: _____
 Trade Name: _____ Model No.: _____
 Installer: _____ Phone: _____
 Address: _____

History: New product 1-4 years old 5-10 years old More than 10 years old

Differences between proposed substitution and specified product: _____

Point-by-point comparative data attached — REQUIRED BY A/E

Reason for not providing specified item: _____

Similar Installation:

Project: _____ Architect: _____
 Address: _____ Owner: _____
 _____ Date Installed: _____

Proposed substitution affects other parts of Work: No Yes; explain _____

Savings to Owner for accepting substitution: _____ (\$ _____).

Proposed substitution changes Contract Time: No Yes [Add] [Deduct] _____ days.

Supporting Data Attached: Drawings Product Data Samples Tests Reports _____

SUBSTITUTION REQUEST

(After the Bidding/Negotiating Phase — Continued)

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
 - Same warranty will be furnished for proposed substitution as for specified product.
 - Same maintenance service and source of replacement parts, as applicable, is available.
 - Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
 - Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived.
 - Proposed substitution does not affect dimensions and functional clearances.
 - Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.
 - Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.
-

Submitted by: _____

Signed by: _____

Firm: _____

Address: _____

Telephone: _____

Attachments:

A/E's REVIEW AND ACTION

- Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
- Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
- Substitution rejected - Use specified materials.
- Substitution Request received too late - Use specified materials.

Signed by: _____ Date: _____

Additional Comments: Contractor Subcontractor Supplier Manufacturer A/E
 Other:

EFLP Series Flooring System

Interior Joints (Floor)



DETAILS

MATERIAL 6063-T6 Aluminum

FINISH Mill

MOVEMENT

- Thermal: Horizontal and Vertical
- Seismic: Lateral Shear

MOUNTING Block Out

JOINT SIZE 2 inches to 18 inches

LENGTH 10 Linear Feet

LOAD Pedestrian and Light Cart

INSTALLATION Floor

OPTIONS Moisture Barrier, Fire Barrier

MODELS

FLOOR-TO-FLOOR

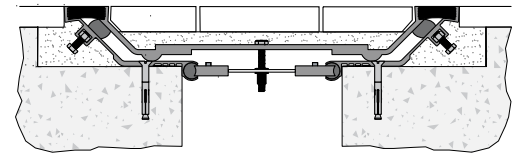
MODEL	JOINT SIZE AT MEAN T°F	SYSTEM WIDTH	TOTAL MOVEMENT
EFLP-200	2" (51mm)	10.8125" (275mm)	3" (76mm)
EFLP-400	4" (102mm)	12.88" (327mm)	4.75" (121mm)
EFLP-600	6" (152mm)	14.88" (378mm)	7.75" (197mm)
EFLP-800	8" (203mm)	18.88" (480mm)	10.75" (273mm)
EFLP-1000	10" (254mm)	20.88" (530mm)	13.75" (349mm)
EFLP-1200	12" (305mm)	23.88" (607mm)	16.75" (425mm)
EFLP-1600	16" (406mm)	29.88" (759mm)	22.75" (578mm)
EFLP-1800	18" (457mm)	34.88" (886mm)	25.75" (654mm)

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.

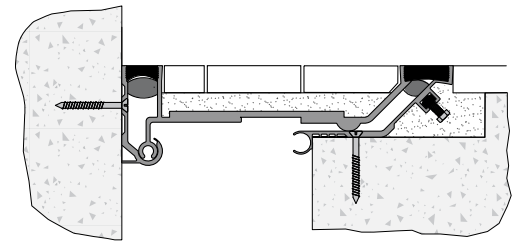
FEATURES

DEEP WELL PAN Designed for terrazzo tile when large sections of tile are common.

DURABLE The backfilled concrete strengthens the design for long lasting performance.



Floor-to-Floor



Floor-to-Wall/Corner

FLOOR-TO-WALL/CORNER

MODEL	JOINT SIZE AT MEAN T°F	SYSTEM WIDTH	TOTAL MOVEMENT
EFLP-200W	2" (51mm)	6.4375" (164mm)	1.375" (35mm)
EFLP-400W	4" (102mm)	8.44" (214mm)	3" (76mm)
EFLP-600W	6" (152mm)	10.44" (265mm)	5.5" (140mm)
EFLP-800W	8" (203mm)	13.44" (341mm)	8" (203mm)
EFLP-1000W	10" (254mm)	15.44" (392mm)	10.5" (267mm)
EFLP-1200W	12" (305mm)	17.94" (456mm)	13" (330mm)
EFLP-1600W	16" (406mm)	22.94" (583mm)	18" (457mm)
EFLP-1800W	18" (457mm)	26.44" (672mm)	20.5" (521mm)



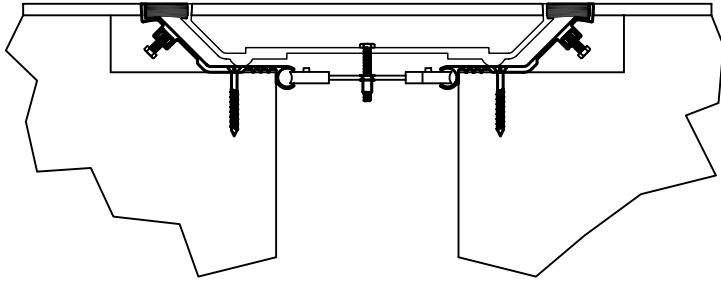
Erie Metal Specialties, Inc.
13311 Main Road
Akron, NY 14001

Phone: 716-542-3991
Website: www.eriemetal.com
E-Mail: sales@eriemetal.com

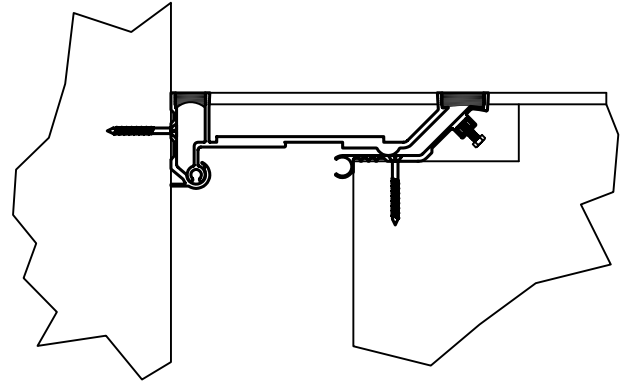


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Model EFLP - Flush Condition
See Sheets 1 - 14



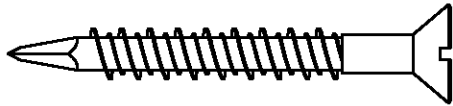
Model EFLP - Corner Condition
See Sheets 15 - 25

Seismic Pan - Professional Series
Model(s) EFLP
Horizontal Expansion Control System

The following installation procedure is very important and must be fully understood prior to beginning any work. To ensure proper installation and performance of the expansion joint system the following actions must be completed by the installing contractor. Failure to do so will affect product warranty.

- 1) Carefully read and understand installation procedure. Contact Technical Service Department for product assistance.
- 2) Inspect all shipments and materials for missing or damaged components and hardware. Contact Customer Service with order number and invoice for prompt assistance.
- 3) Inspect substrate or adjacent construction for acceptance before beginning work. Report unacceptable construction to the project manager for scheduled repair work.

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



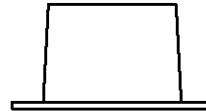
Nut 1/4" Zincplated A307
Part No. 7869



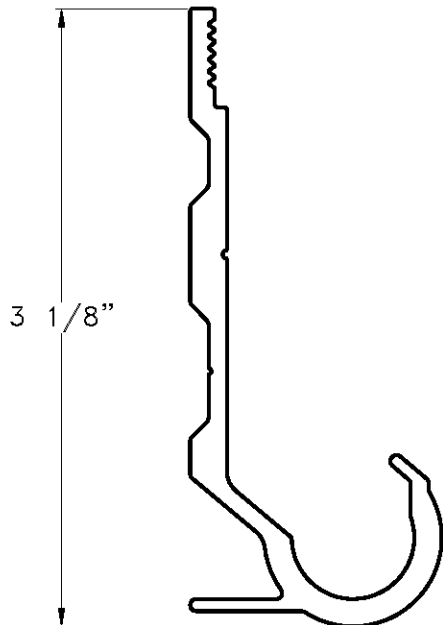
Bolt 1/4" x 1" HLN
Part No. 4836



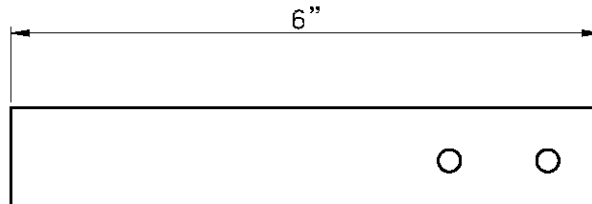
Screw 1/4" x 1" FTPN
Part No. 5634



CapPlug W8 Red Plastic
Part No. 4337



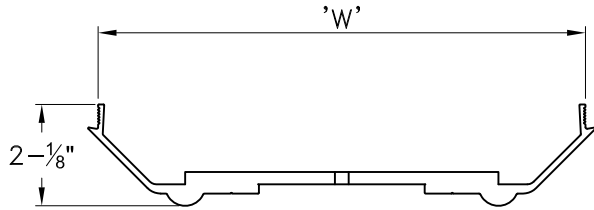
Wall Mount
Part No. 19610



Butt Splice Connector
Part No. 14050

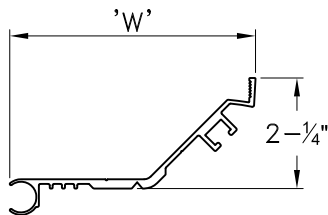
Concrete Filler
Part No. 1020550
Not supplied with expansion
joint system - Purchased separately

Components shown below vary in size depending on model of system



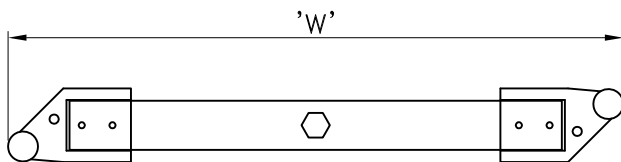
Aluminum Pan

Model #	Part #	'W' dim.
EFLP-400	19624	9.917"
EFLP-600	19625	11.917"
EFLP-800	19626	15.917"
EFLP-1000	19627	17.917"
EFLP-1200	19628	20.917"
EFLP-1600	19617	26.917"
EFLP-1800	19618	31.917"



Aluminum Edge Frame

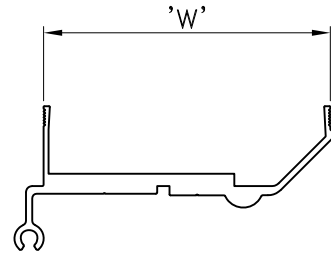
Model #	Part #	'W' dim.
EFLP-400/600	19612	5.00"
EFLP-800/1000	19609	6.00"
EFLP-1200	19606	6.50"
EFLP-1600	19607	7.50"
EFLP-1800	19608	9.00"



Seismic Centering Bar

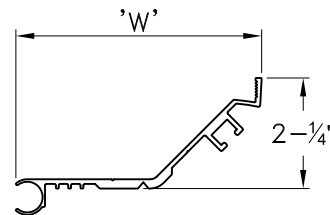
Model #	Part #	'W' dim.
EFLP-400	15642	7.375"
EFLP-600	15643	12.375"
EFLP-800/1000	15630	18.375"
EFLP-1200	15631	22.375"
EFLP-1600	15603	26.375"
EFLP-1800	15604	38.375"

Flush Condition



Aluminum Pan

Model #	Part #	'W' dim.
EFLP-400W	19630	5.835"
EFLP-600W	19631	7.835"
EFLP-800W	19632	10.835"
EFLP-1000W	19633	12.835"
EFLP-1200W	19634	15.835"
EFLP-1600W	19635	20.835"
EFLP-1800W	19636	23.835"

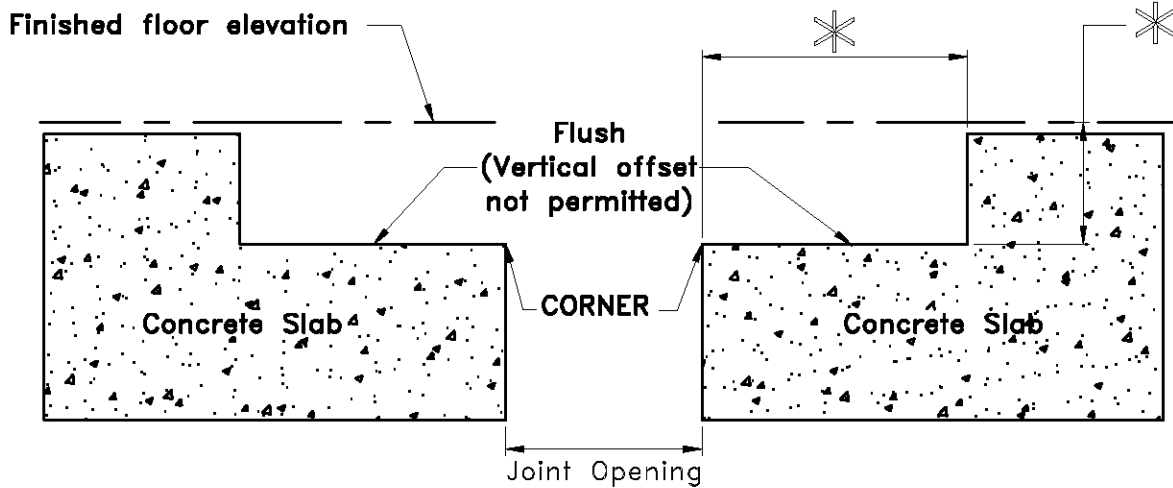


Aluminum Edge Frame

Model #	Part #	'W' dim.
EFLP-400W/600W	19612	5.00"
EFLP-800W/1000W	19609	6.00"
EFLP-1200W	19606	6.50"
EFLP-1600W	19607	7.50"
EFLP-1800W	19608	9.00"

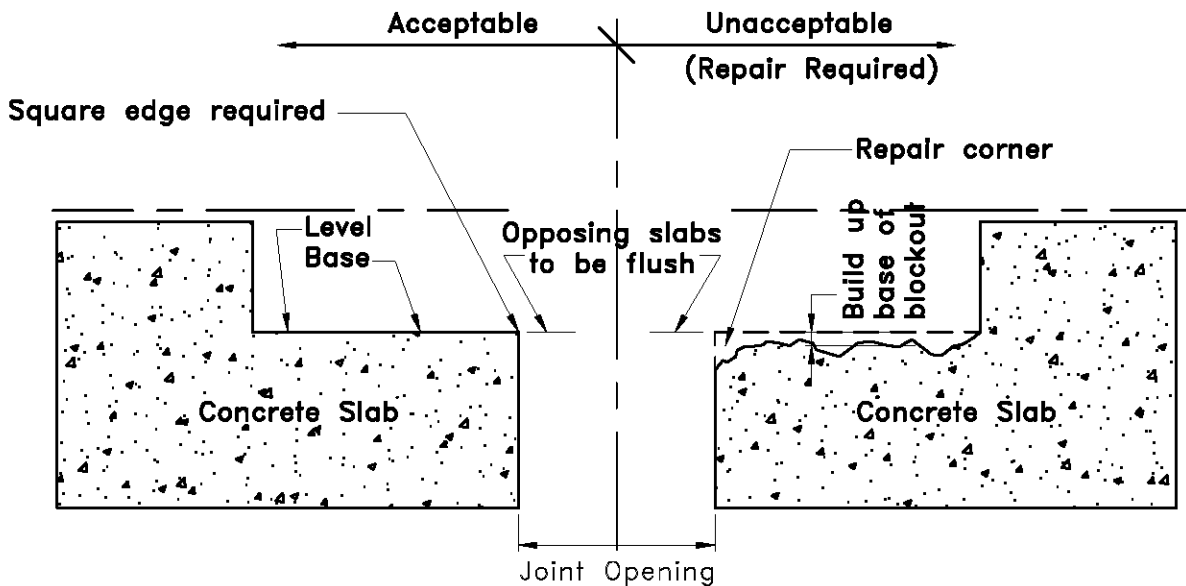
Corner Condition

Installation procedure for flush condition



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.



2

Repair corner of concrete slab and blockout base following manufacturers written instructions.

Figure 3a.1

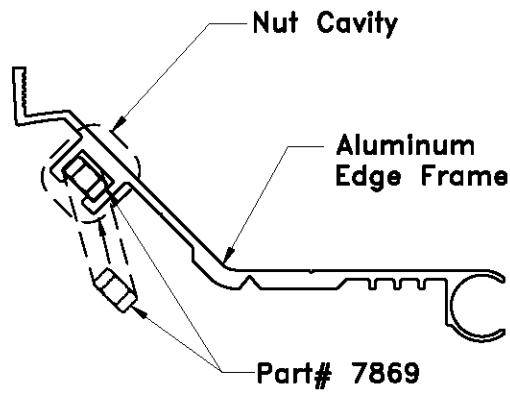
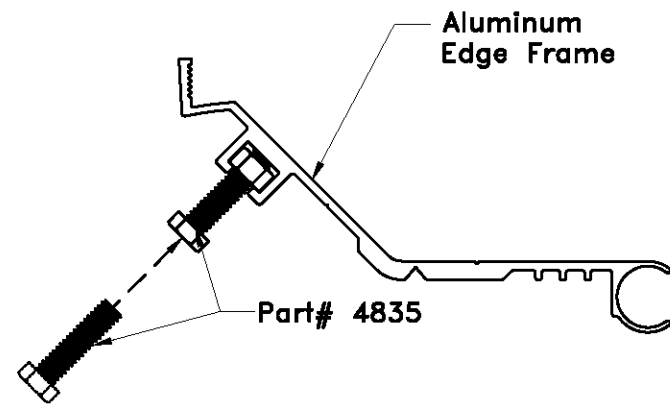


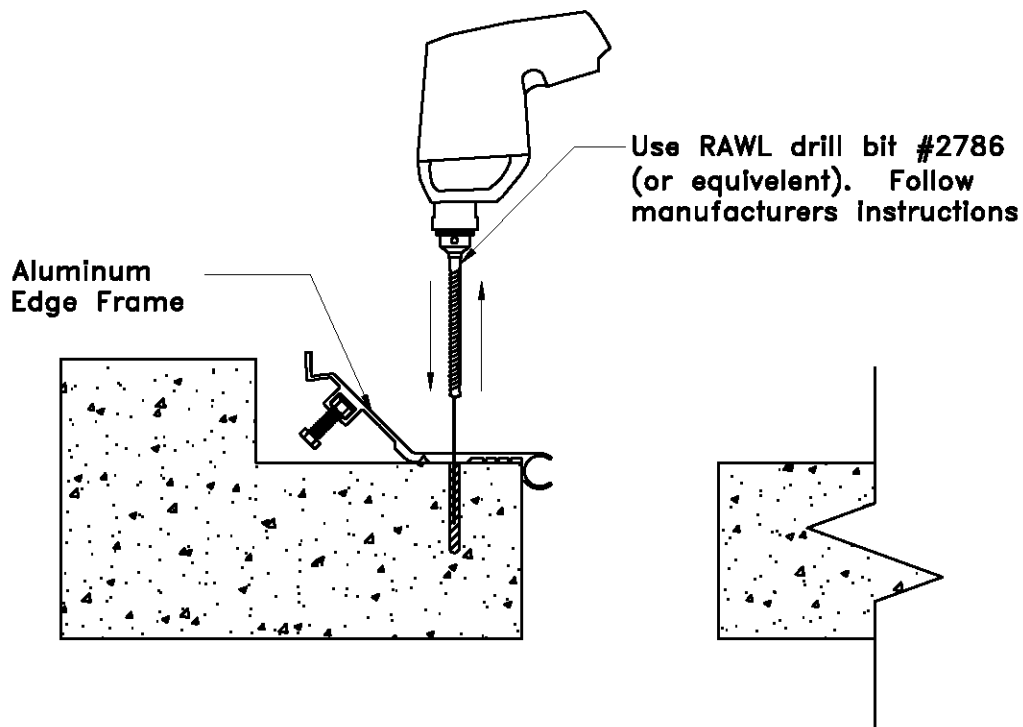
Figure 3a.2



3a

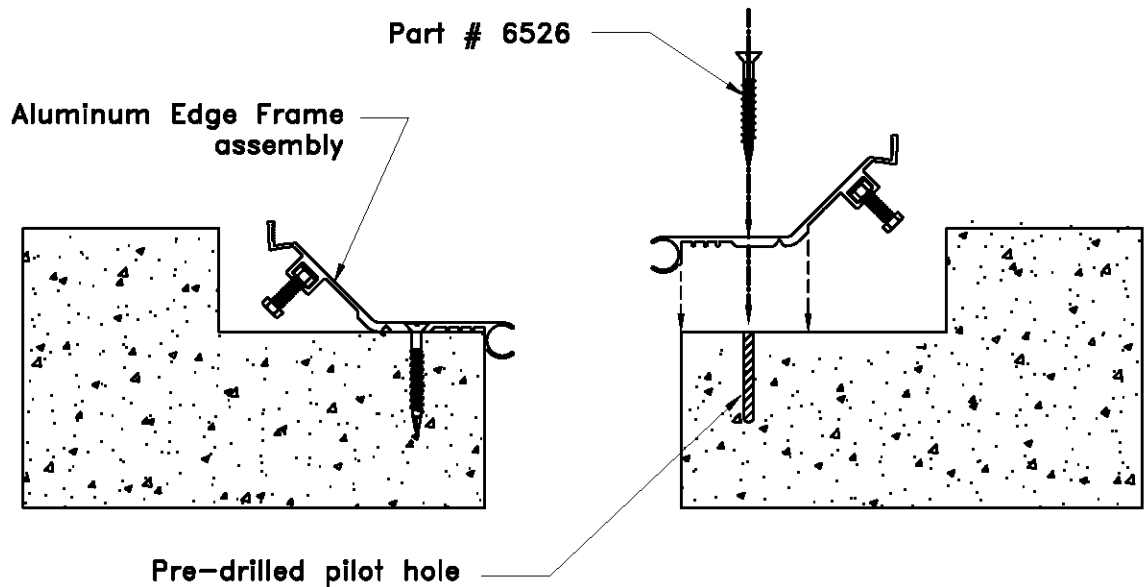
Figure 3a.1 - Insert (4) ZINC PLATED NUTS (Part # 7869) into NUT CAVITY of ALUMINUM EDGE FRAME.

Figure 3a.2 - 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.

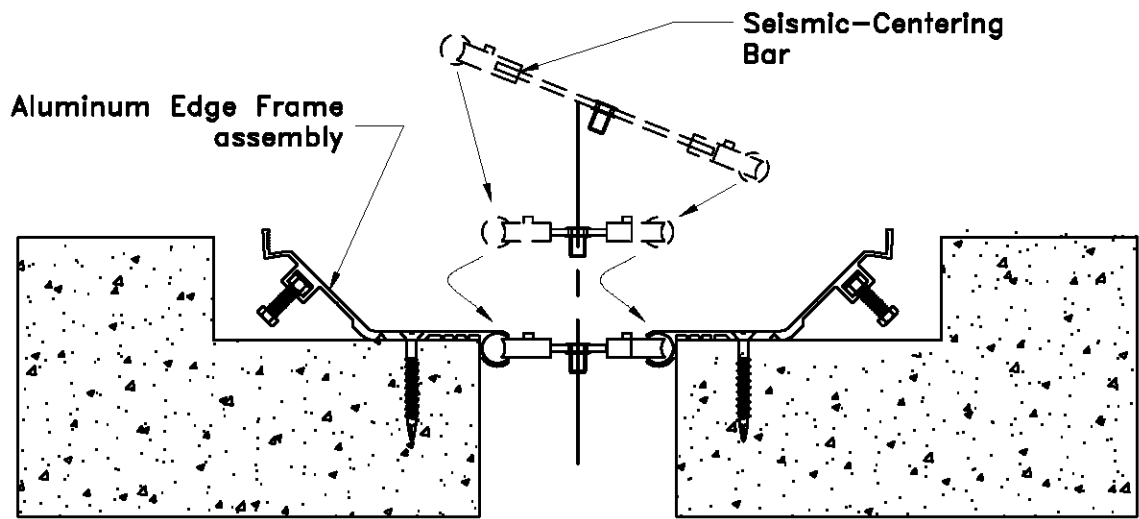


3b

Utilizing pre-drilled holes in Aluminum edge frame assembly as a template, drill pilot holes using a 3/16" TAPPER Masonry drill Bit. Use two 5 foot Aluminum Edge frame sections (1 on each side of joint opening) when starting a run of Seismic Pan. See step 6.

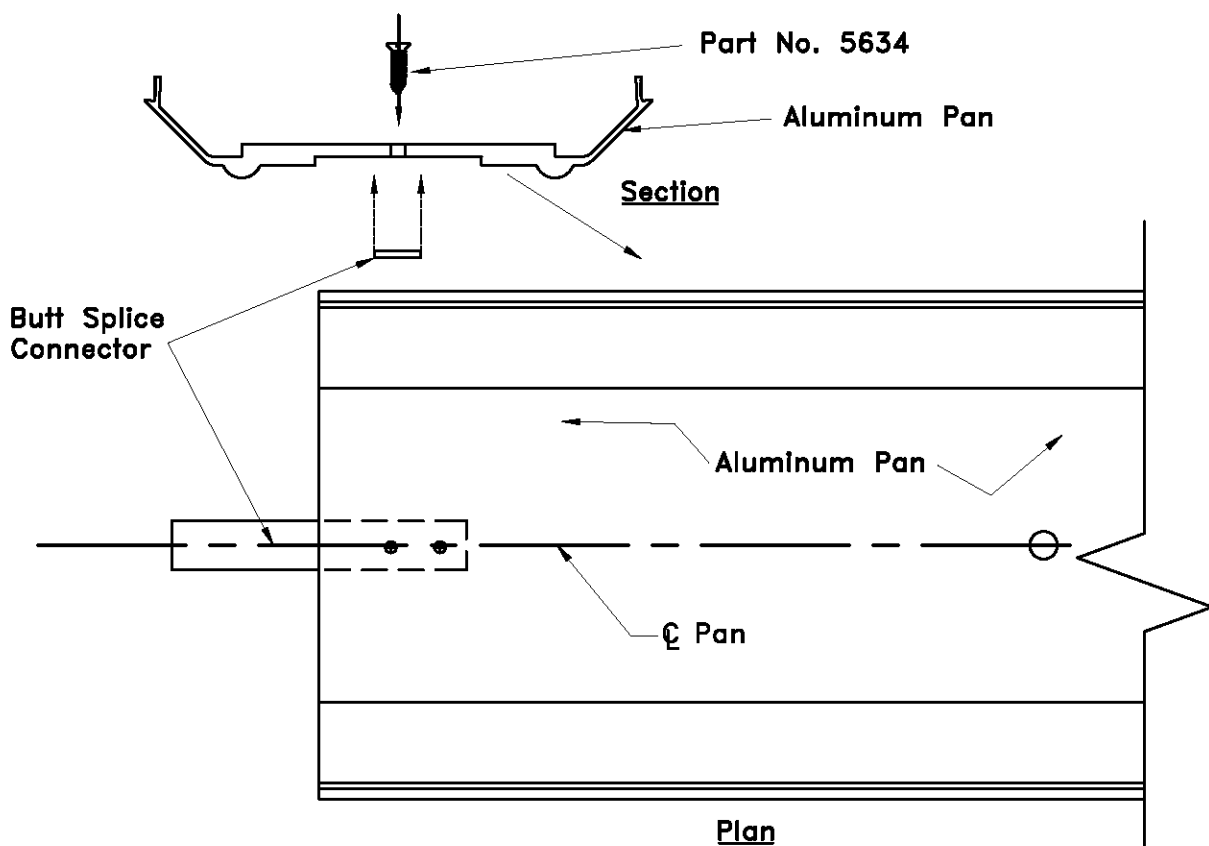
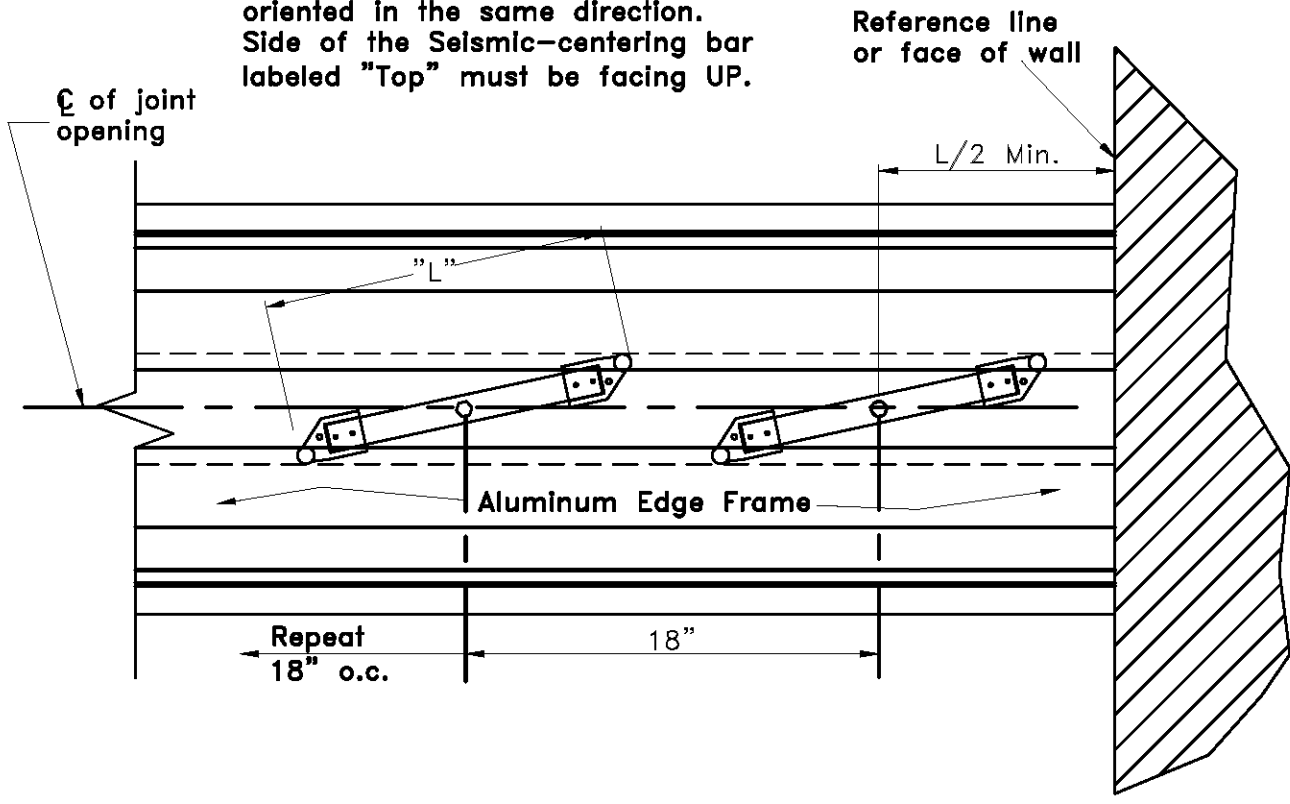


3c Fasten Aluminum Edge Frame Assembly securely using Threaded Anchor Rawl Tapper #2764 1/4" x 2-1/4" (Part No. 6526)



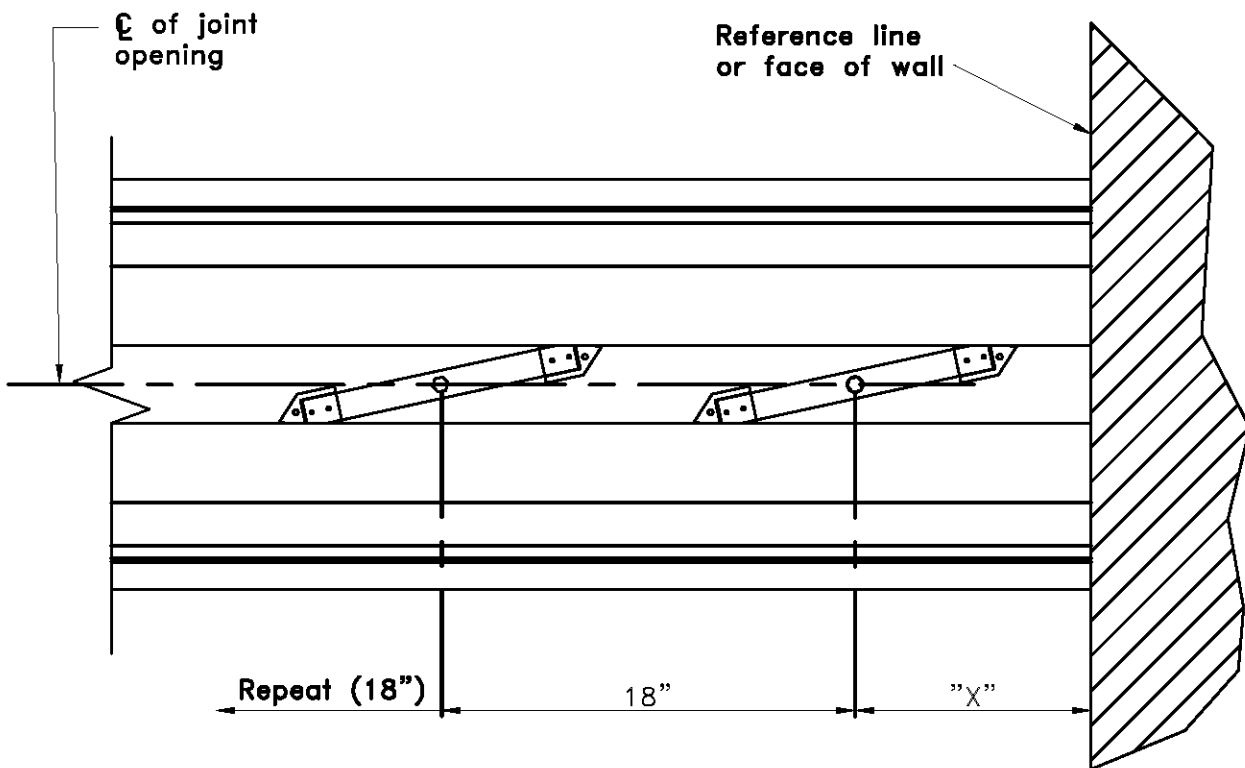
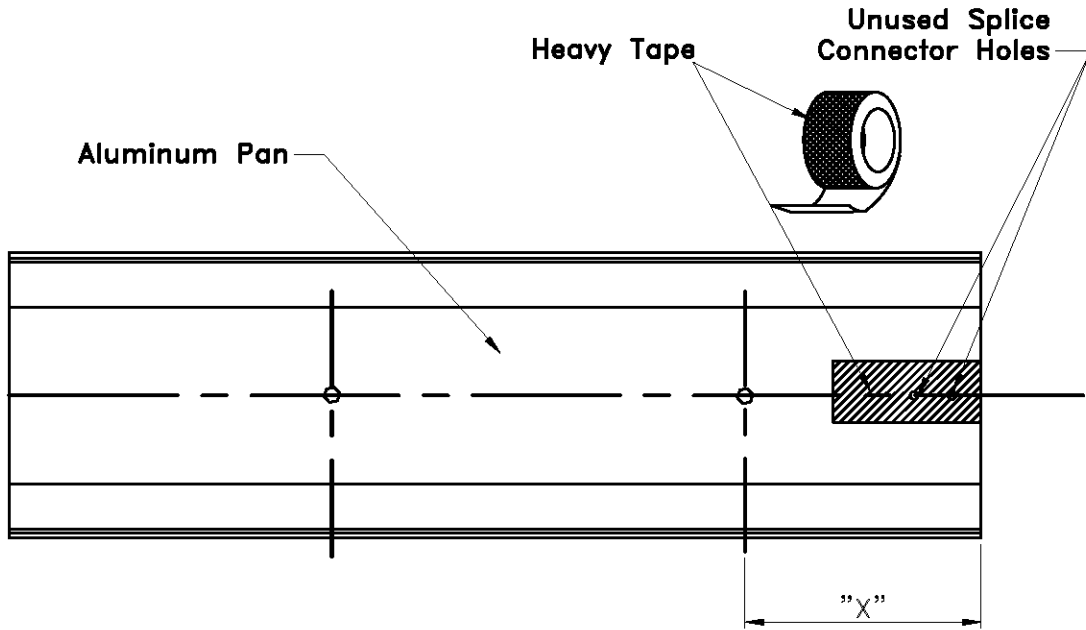
4 Insert Seismic-centering bars into circular aluminum cavity as work progresses from step 3c. Space bars at 18" o.c. See plan next page.

All Seismic-centering bars must be oriented in the same direction. Side of the Seismic-centering bar labeled "Top" must be facing UP.

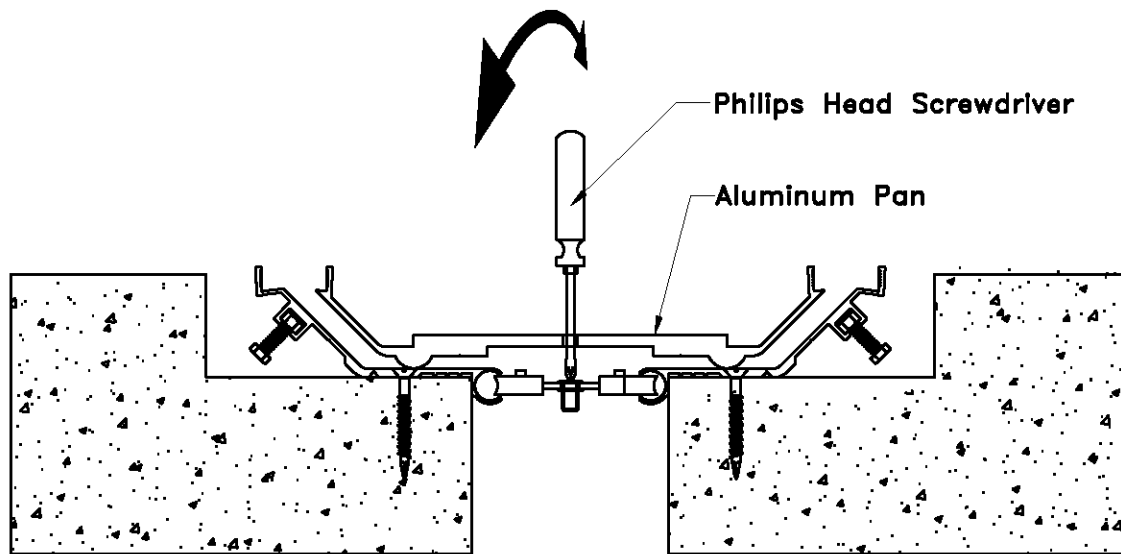
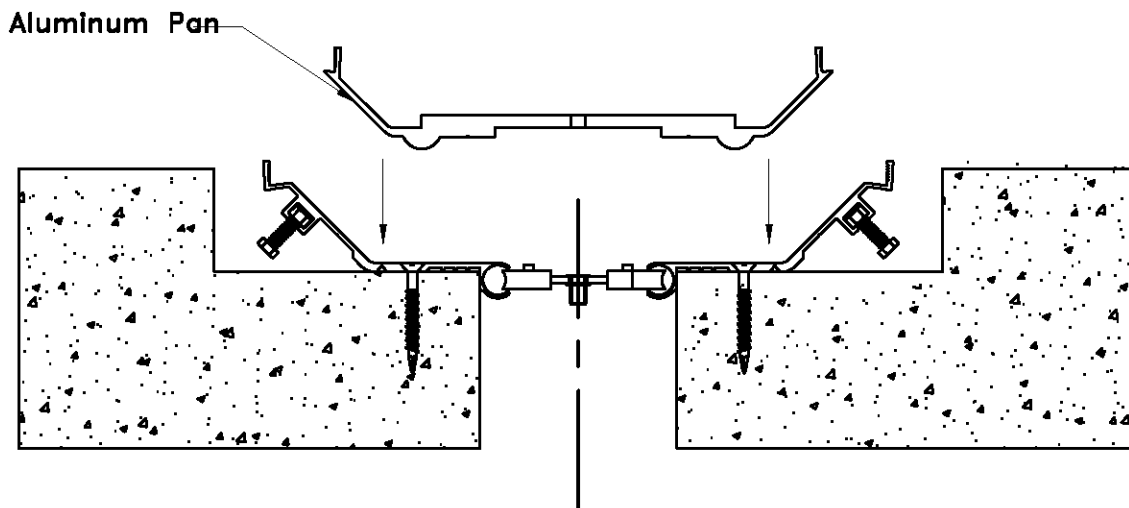


5

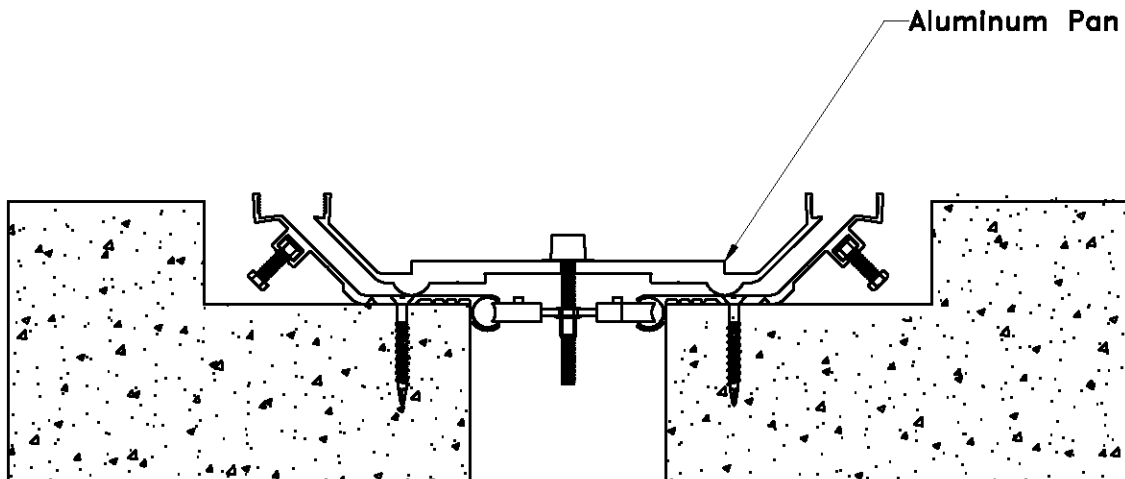
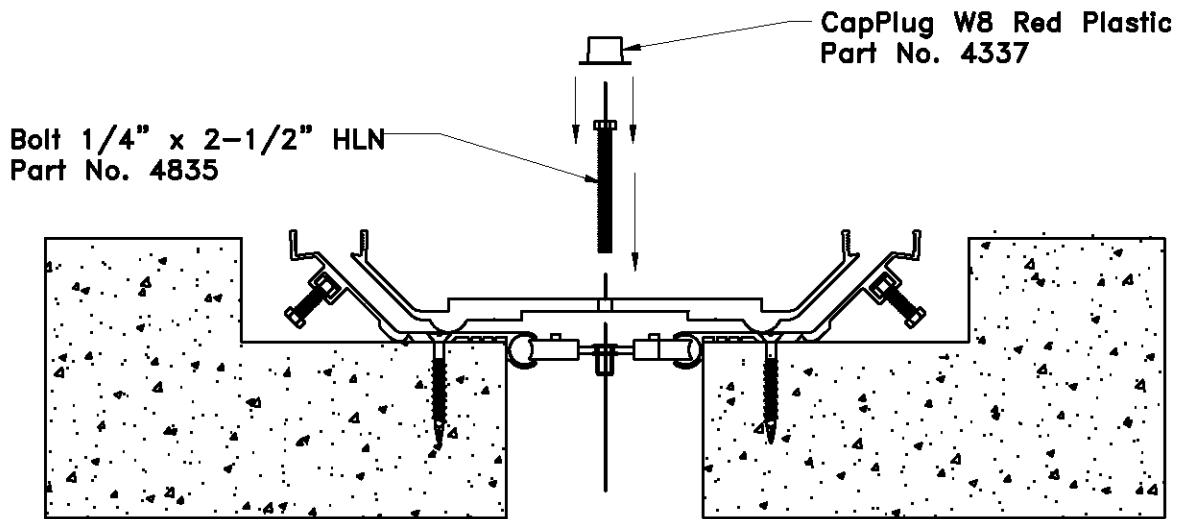
After aluminum edge frames and Seismic-centering bars are installed, start adding butt splice connectors to one end of each aluminum pan using factory holes provided and part no. 5634 (Screw 1/4" x 1" FTPN)



- 6** Use Heavy Tape to cover un-used splice connector holes (this will be at the first aluminum pan to be installed against the wall). Take Measurement "X" from Aluminum Pan and align first self-centering bar to this dimension as shown. This step is to double check for accuracy before installing the Aluminum Pan



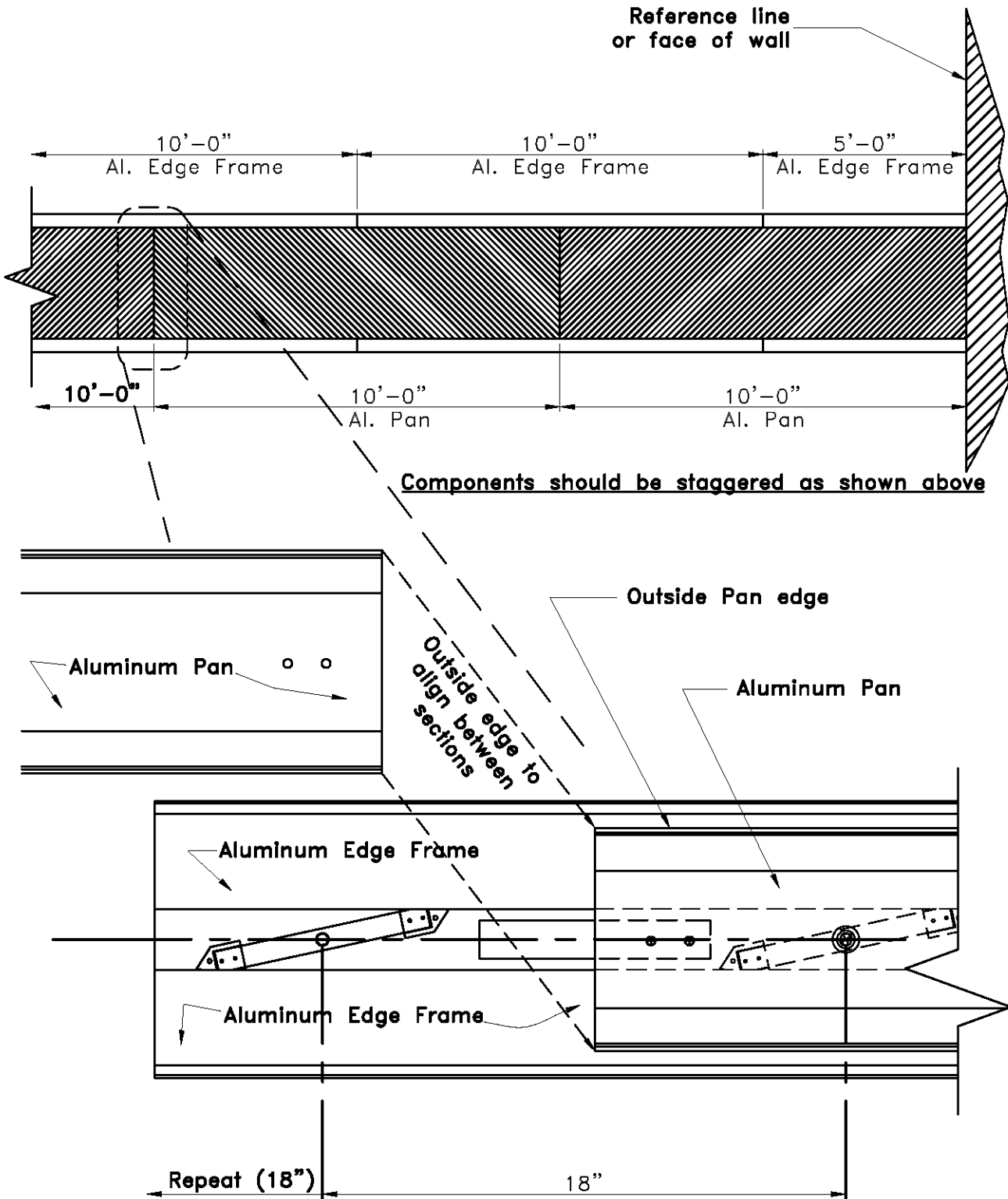
- 7** Center the Aluminum Pan on joint opening while keeping end of pan snug with wall / reference line. Use philips head screwdriver to fine-tune alignment of seismic-centering bars to associated pre-drilled holes in Aluminum Pan.



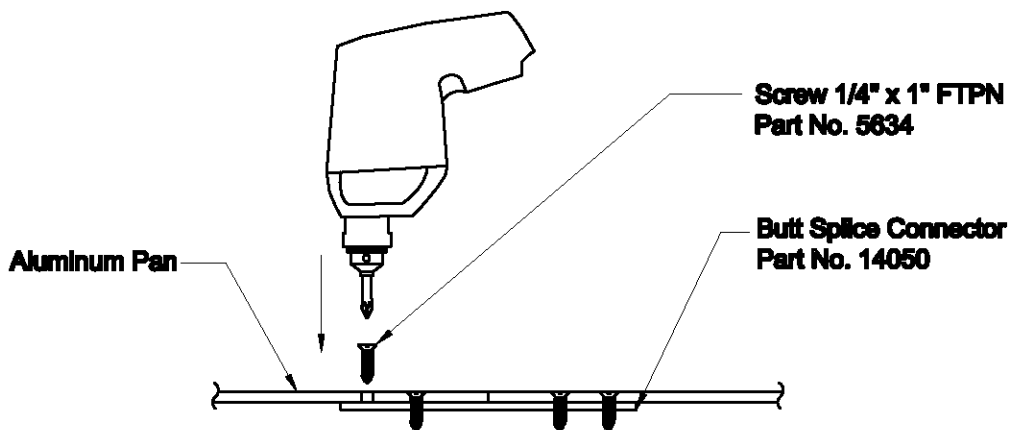
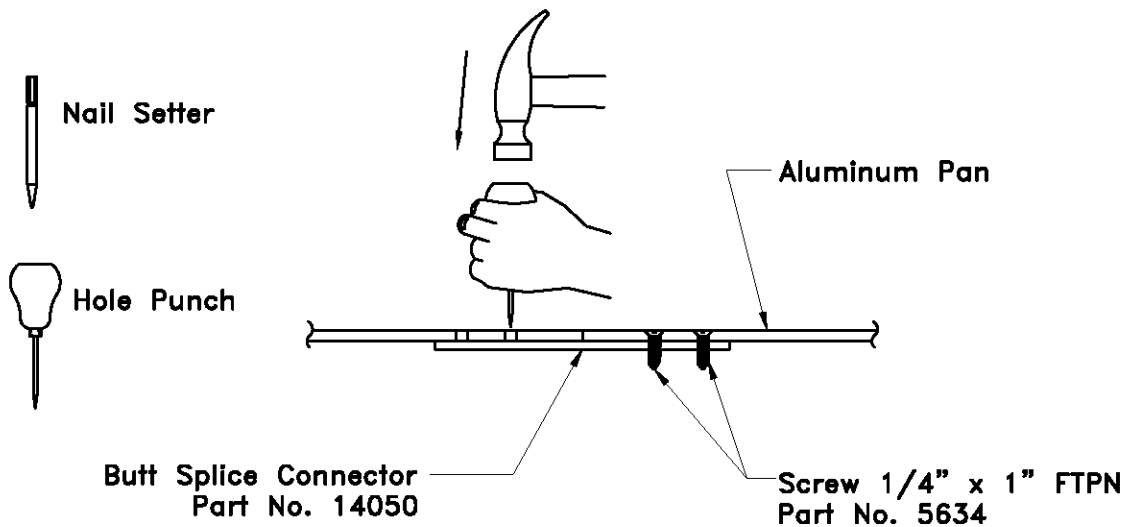
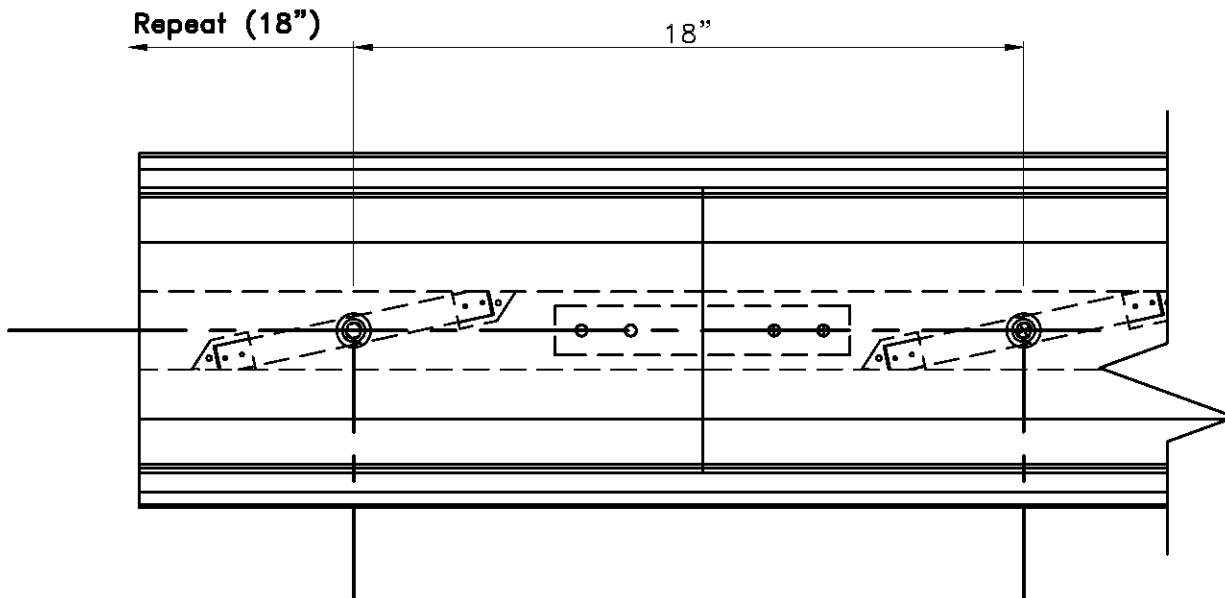
8 Insert Part No. 4835 through pre-drilled holes in Aluminum Pan and seismic-centering bars and tighten to _____ inch-lbs. Cover bolt heads with CapPlugs (Part no. 4337).

Note:

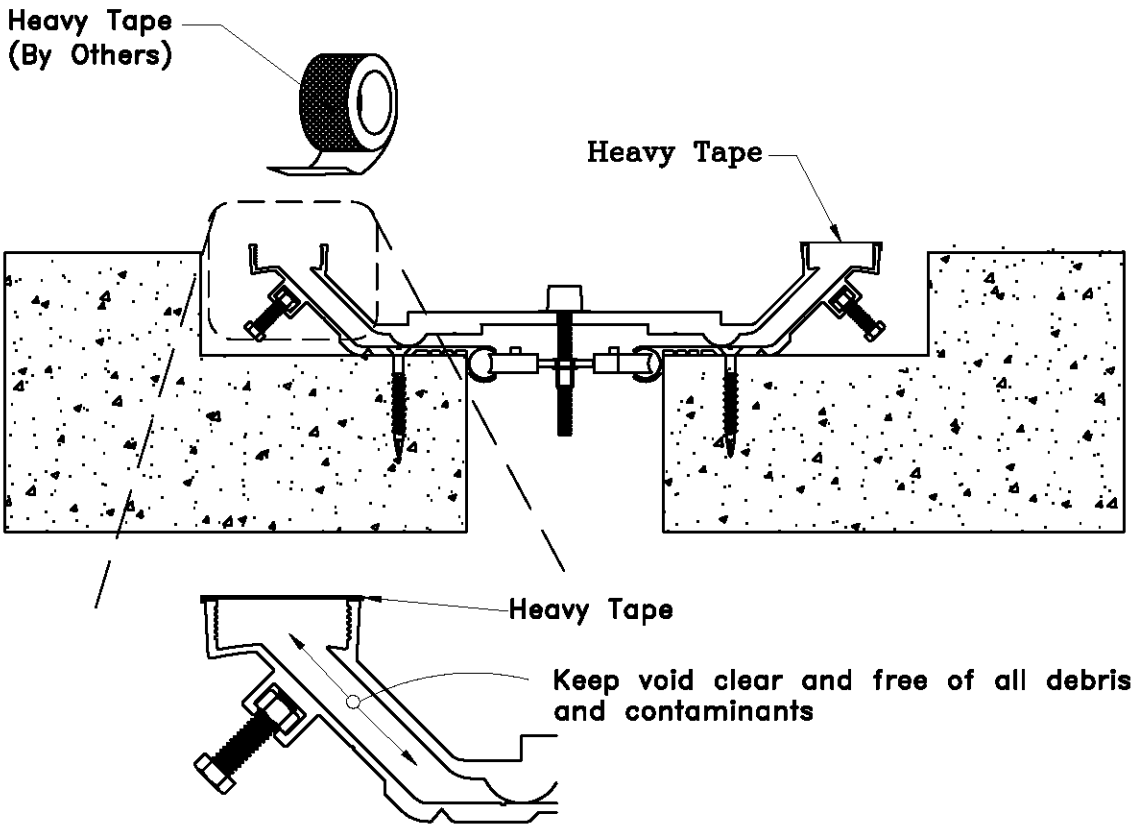
-Installation Tip: Calibrate battery operated drill / driver to proper inch-lb setting. Periodically inspect for proper torque utilizing "clicker" wrench.



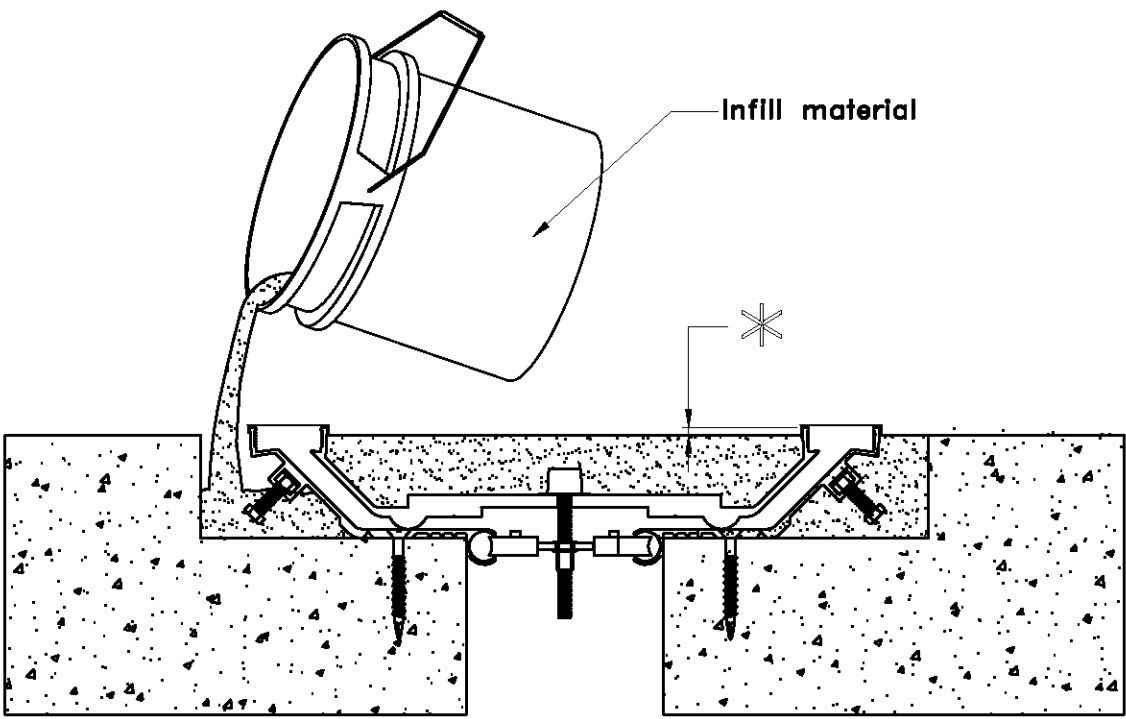
9 Repeat steps 5, 6, & 7 to align seismic-centering bars for next section of Aluminum Pan. Be sure to start threading seismic-centering bars for this section (do not completely tighten seismic-centering bars (as noted in step 8) until Step 10 is complete). Ensure Aluminum pan sections butt tightly together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



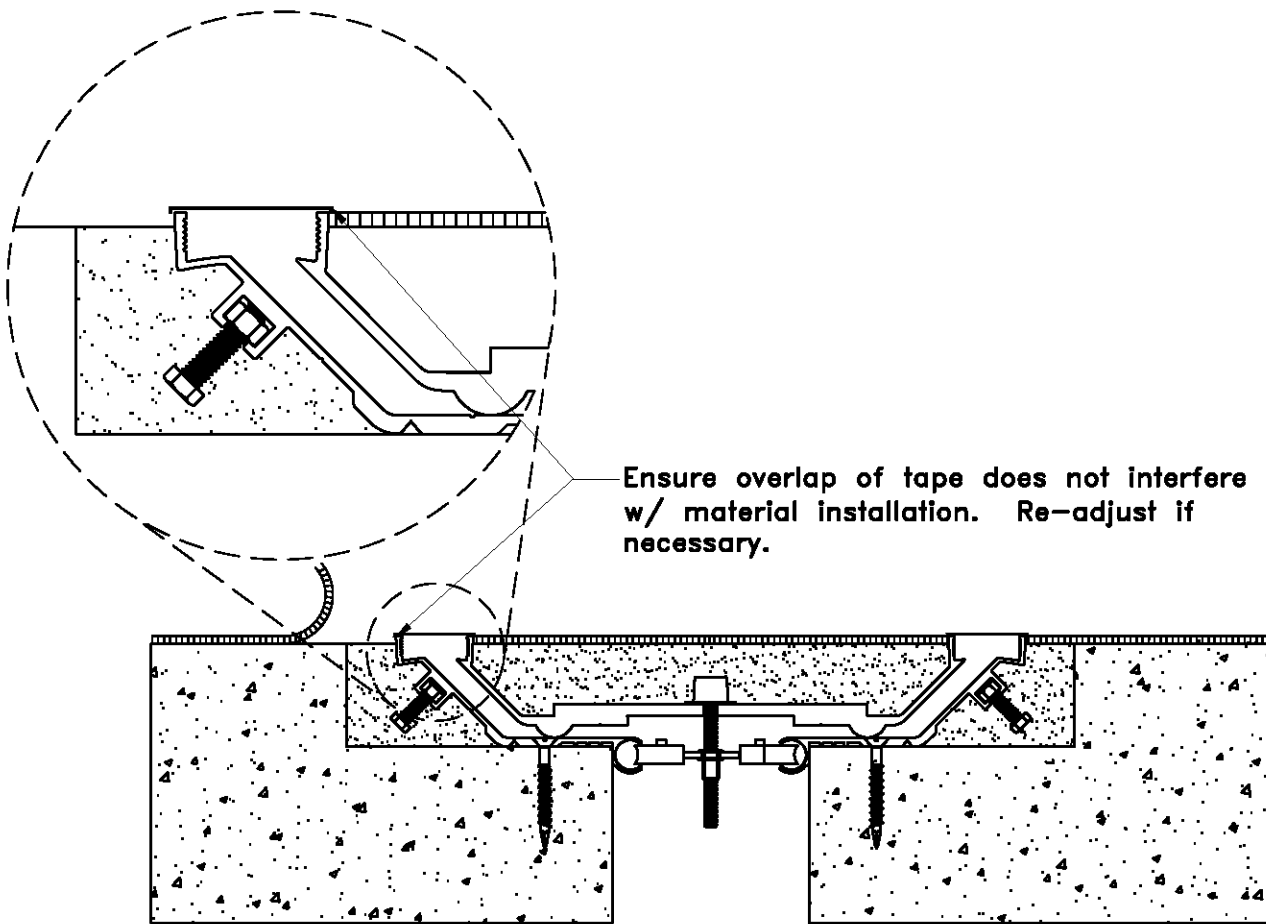
10 Using the splice connector holes in the Aluminum Pan as a guide, firmly tap in guide marks into the aluminum splice connector below utilizing either a nail setter or hole punch. Pre-drill $3/16$ " dia. pilot hole in connector. Use self tapping screws (Part No. 5634) to complete splicing of pan systems together. Tighten seismic-centering bar bolts in newly spliced Aluminum Pan Section.



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

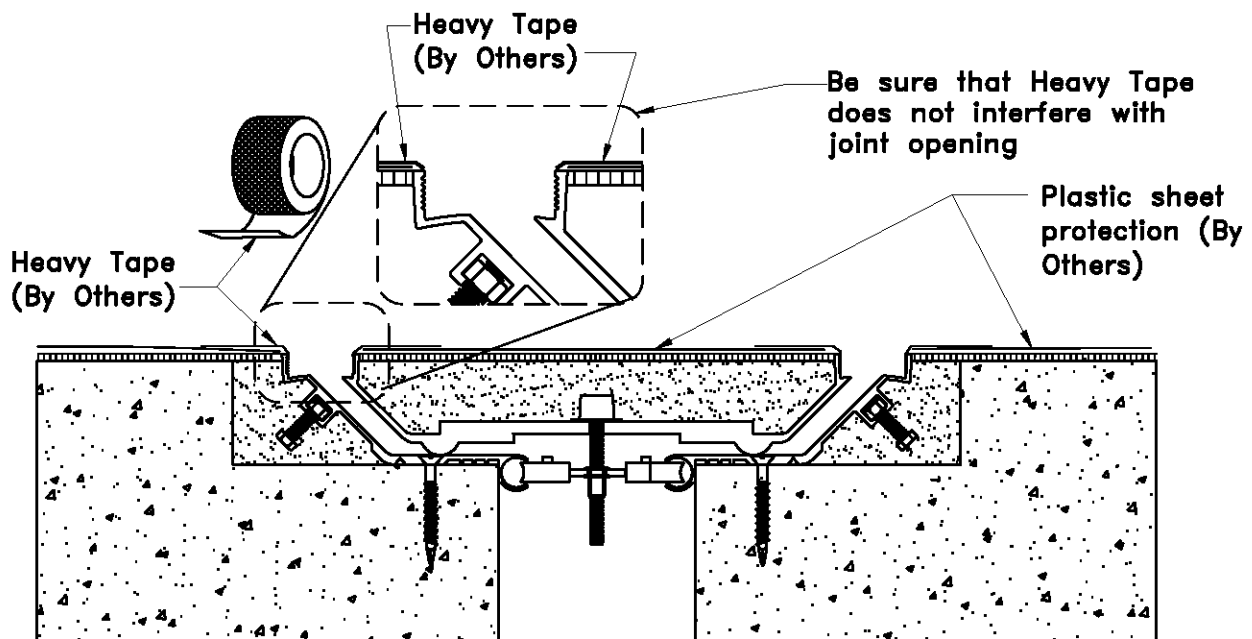


12 Pour Infill material into blockout voids and Pan cavity. *Warning! Leave required recess for finish floor finish material thickness and proper placement

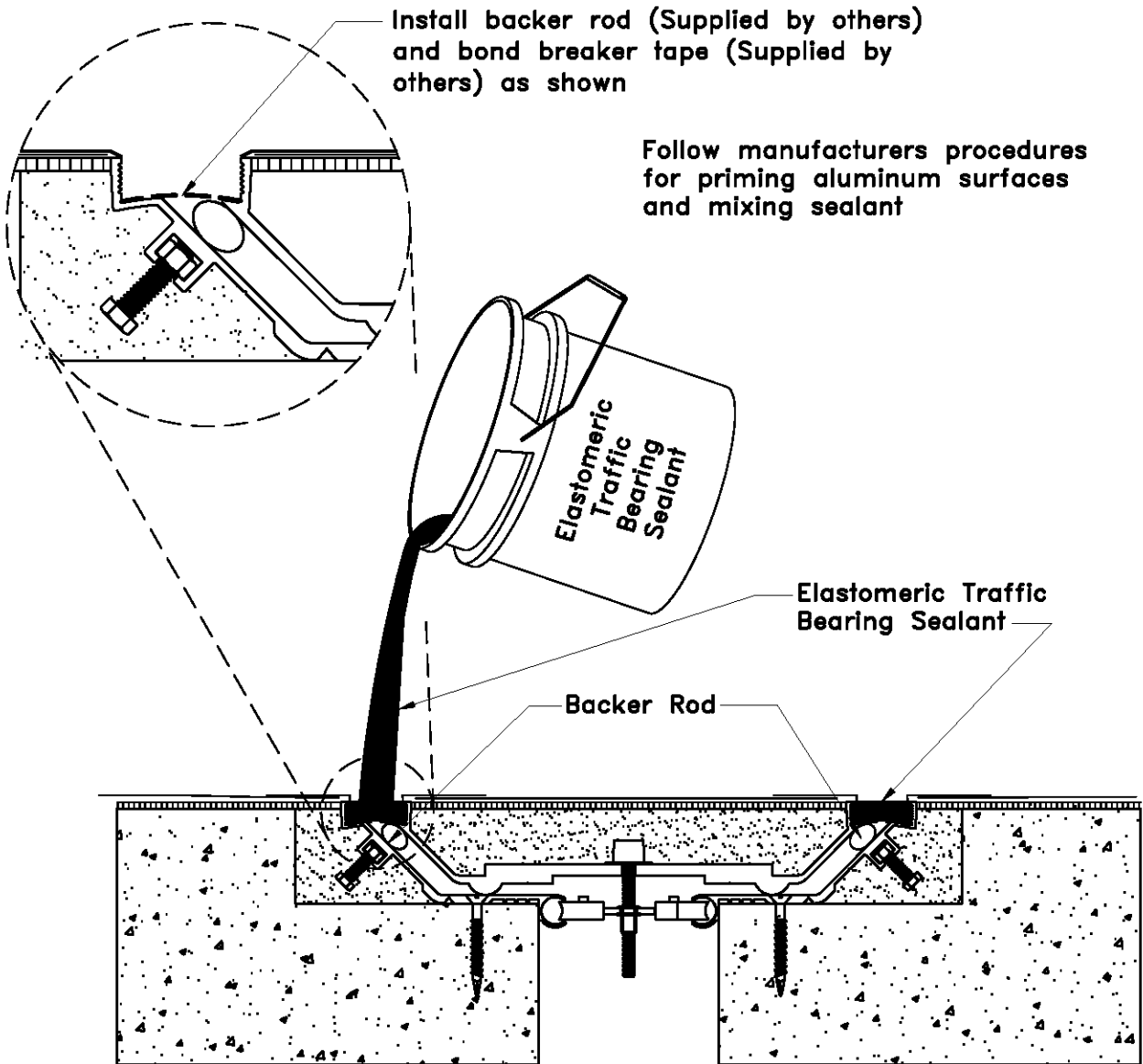


Carpet Shown – Finish floor material by others

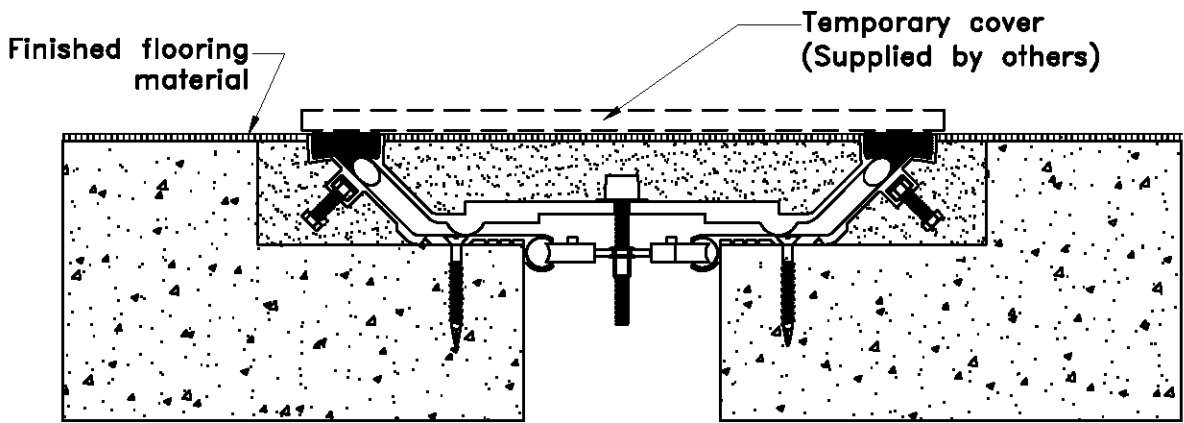
13 Install finished floor material. Be sure to keep joint opening protected (See Step 11)



14 Remove Heavy Tape from joint opening. Protect surrounding finish floor material using Heavy Tape and Heavy Gauge Plastic Sheeting

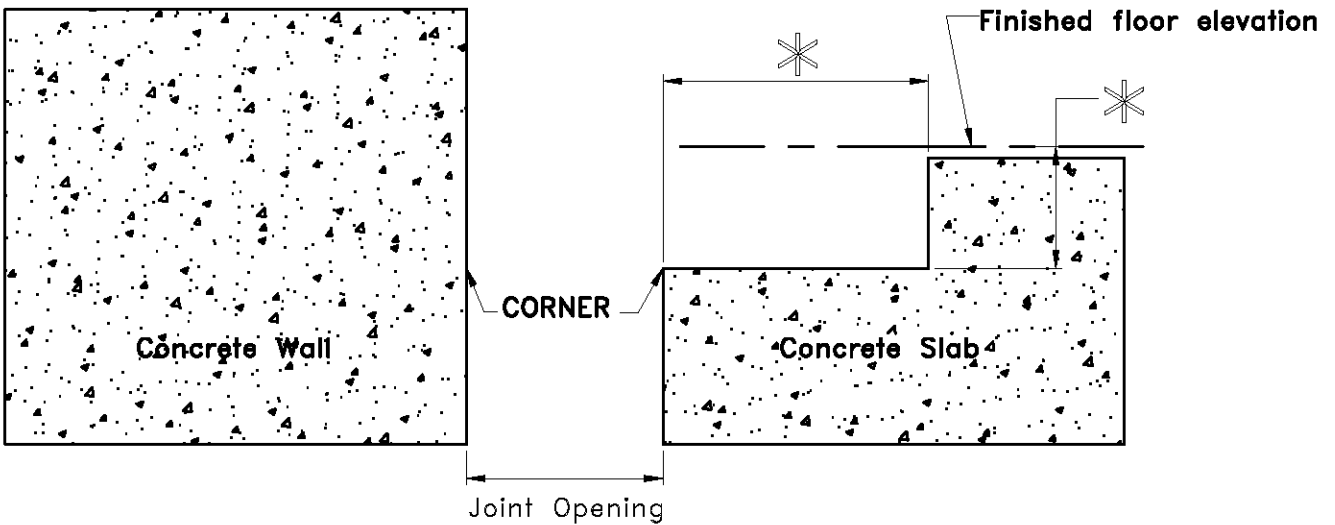


15 Install Backer Rod, Bond Breaker Tape (Supplied by others) & Sealant (Supplied by others).

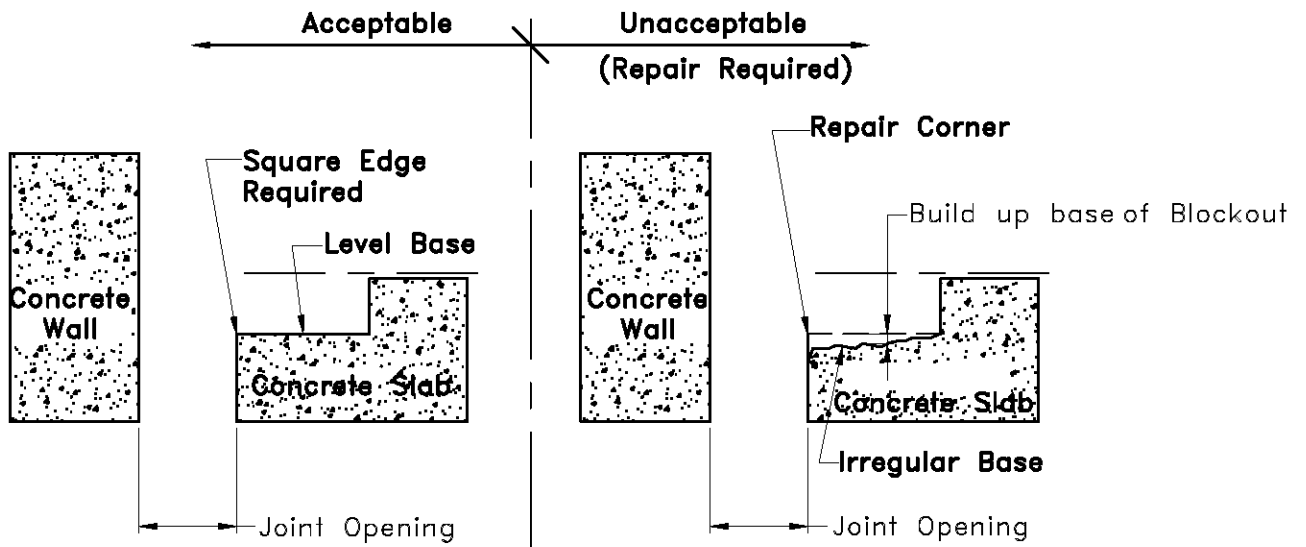


16 Installing contractor shell cover and protect the finished expansion joint assembly from damage during installation of finish floor materials. The expansion joint assembly is a finished product. Damage to expansion joint finishes and components are excluded from warranty

Installation procedure for corner condition



- 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.



- 2 Repair corner of concrete slab and blockout base following manufacturers written instructions.

Figure 3a.1

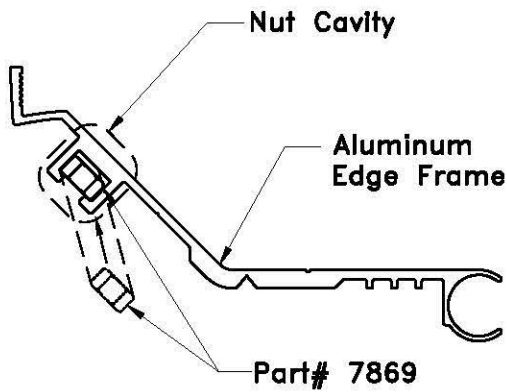
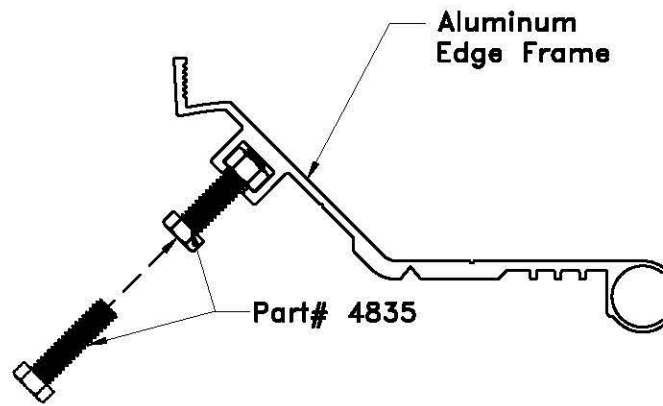


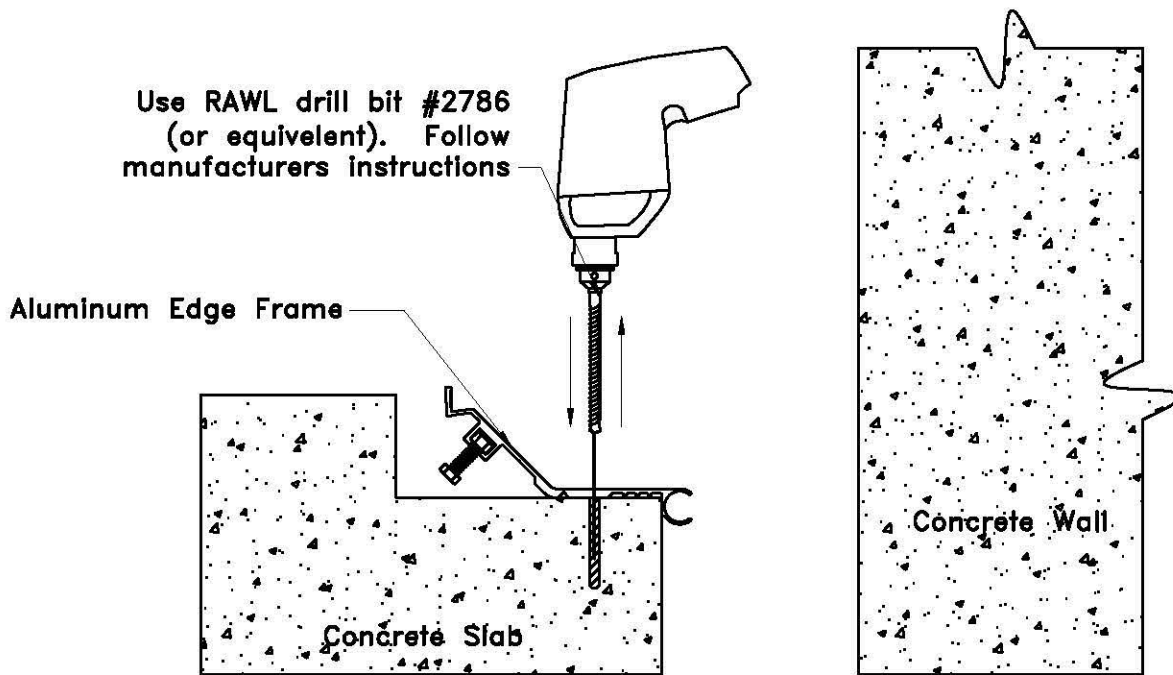
Figure 3a.2



3a

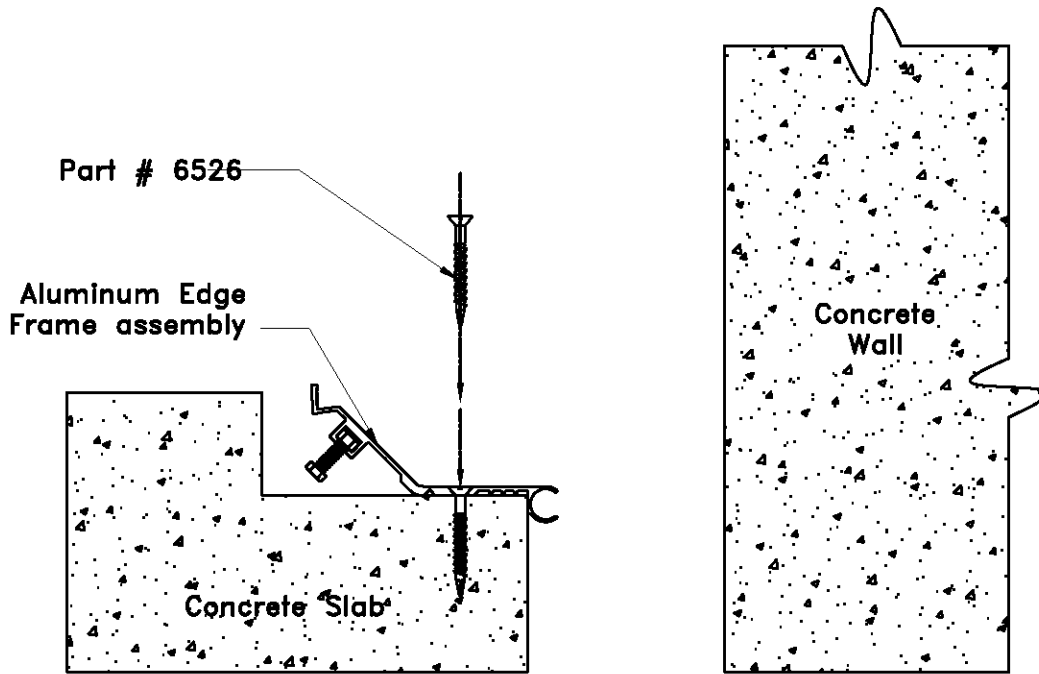
Figure 3a.1 - Insert (4) ZINC PLATED NUTS (Part # 7869) into NUT CAVITY of ALUMINUM EDGE FRAME.

Figure 3a.2 - 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.



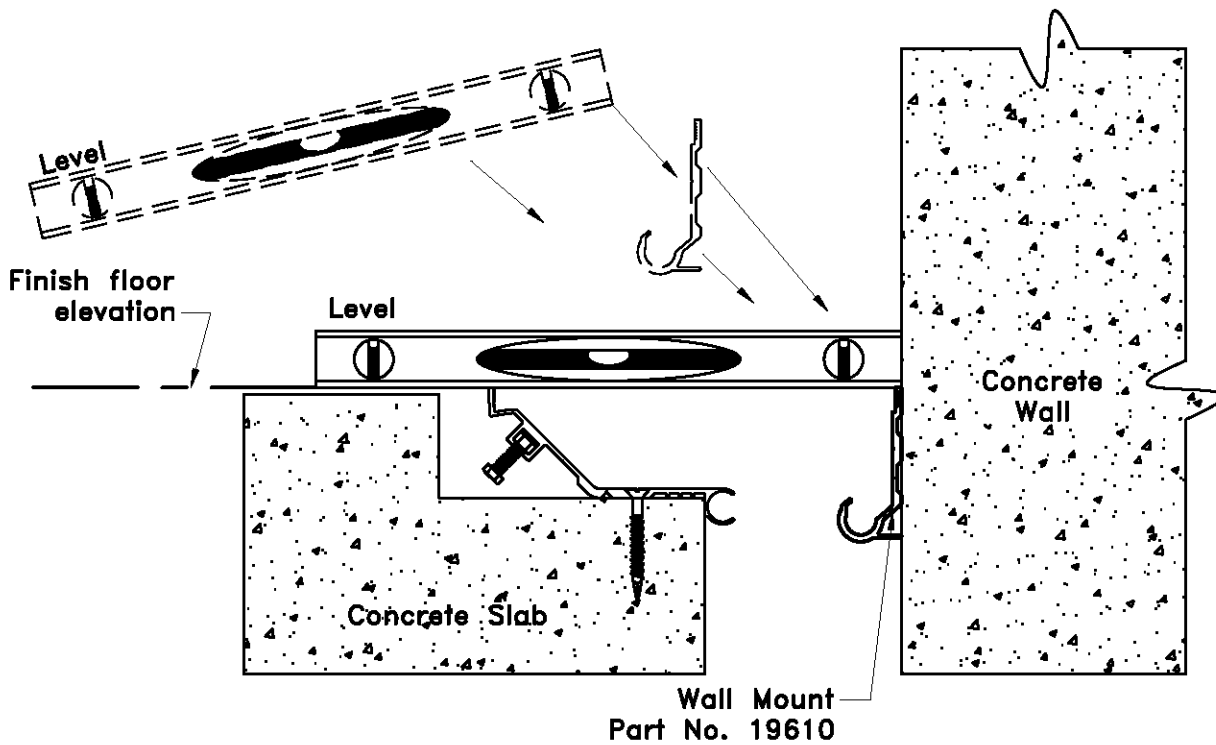
3b

Utilizing pre-drilled holes in Aluminum edge frame assembly as a template, drill pilot holes using a 3/16" TAPPER Masonry drill Bit. Use two 5 foot Aluminum Edge frame sections (1 on each side of joint opening) when starting a run See step 6.



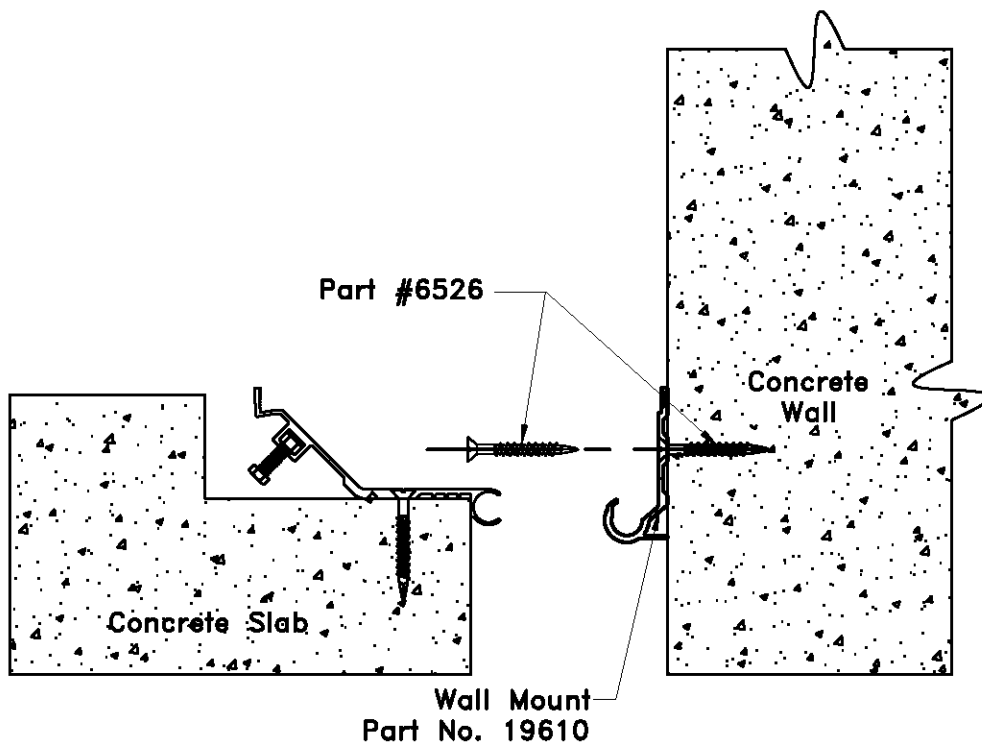
3c

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.



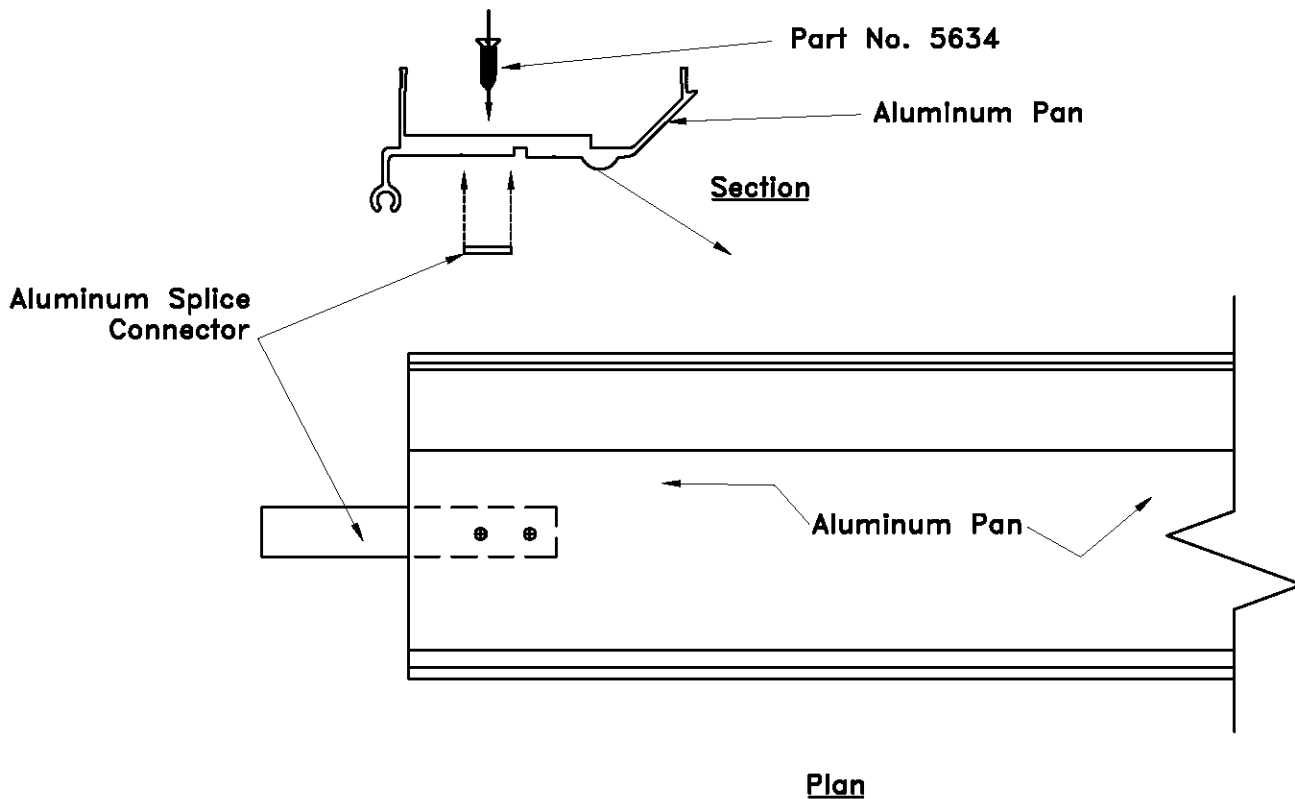
4a

In preparation for fastening Wall Mount Extrusion (Part No. 19610), hold ext 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 joint run.



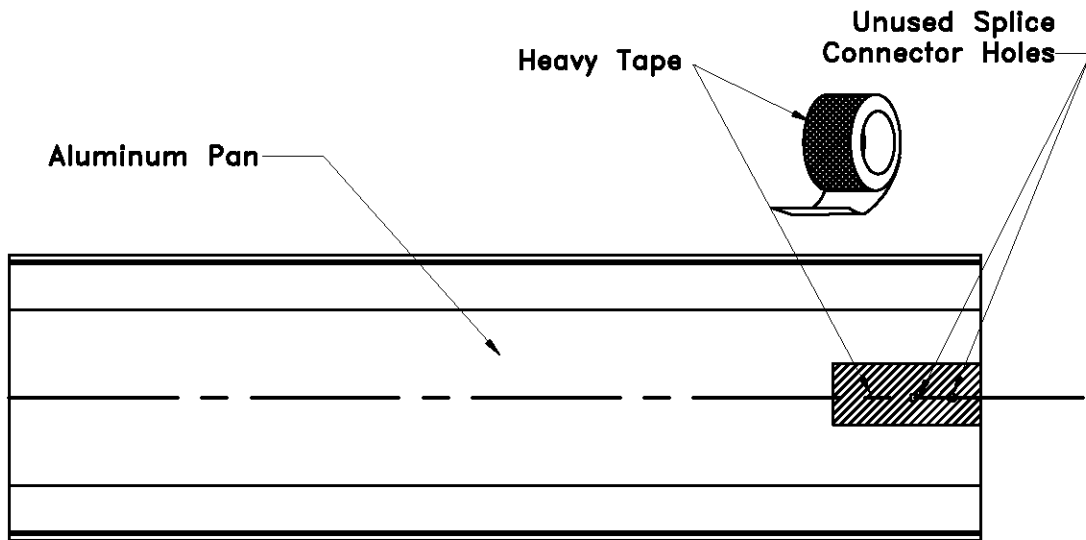
4b

Fasten Wall Mount with part no. 6526 utilizing pre-drilled countersunk holes.

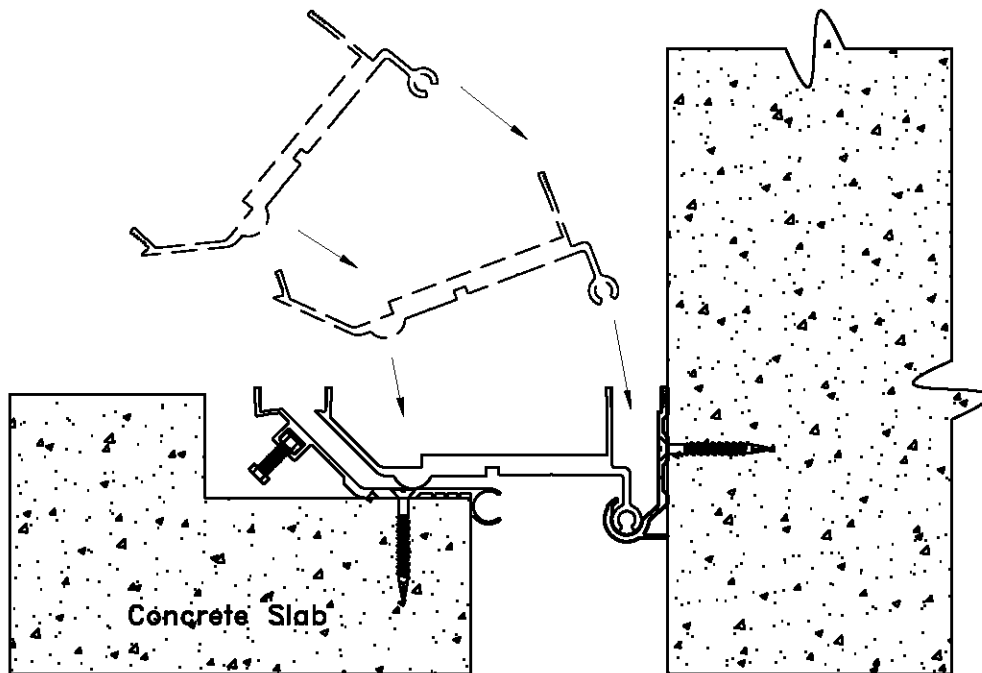


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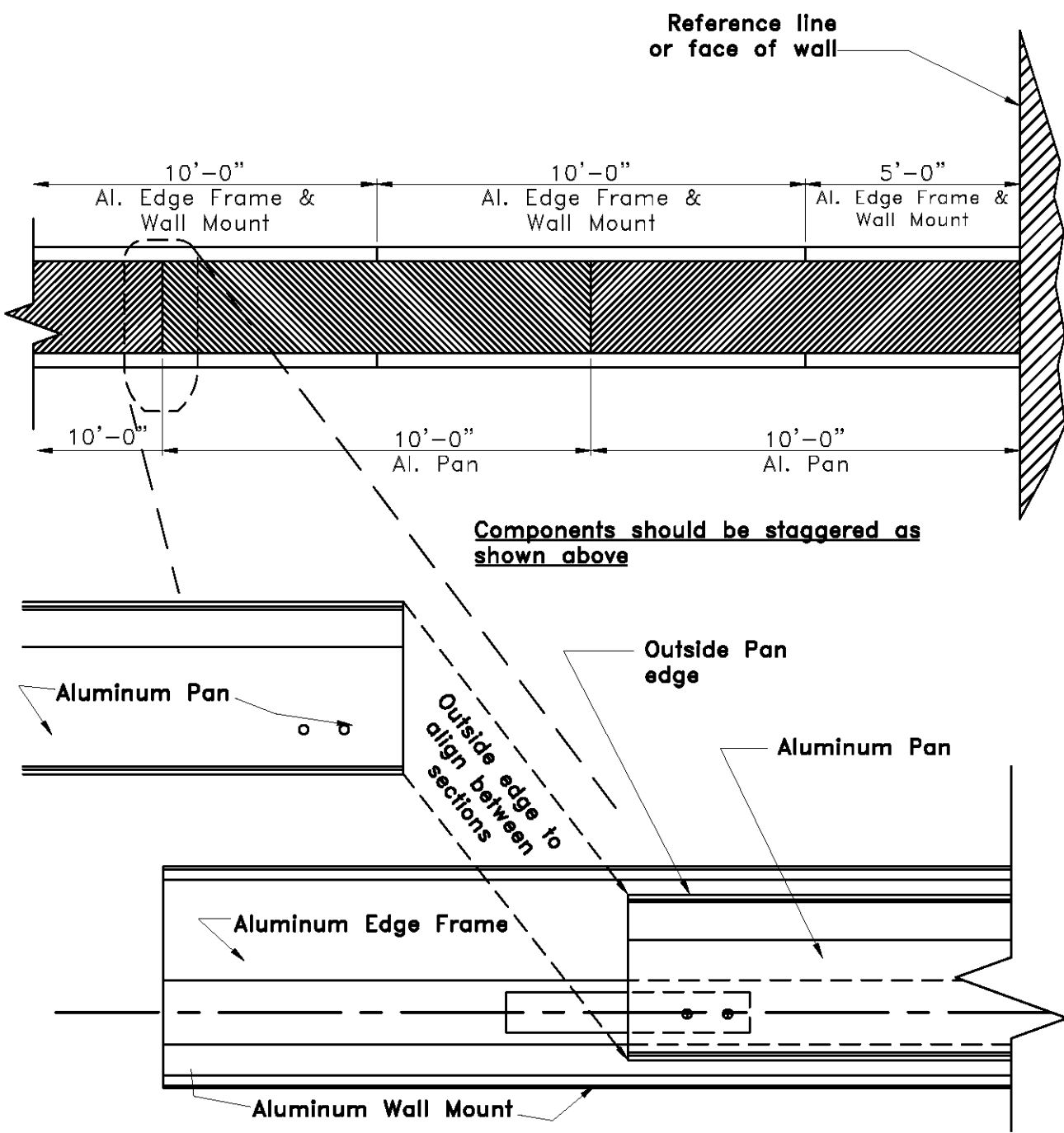
After aluminum edge frames and Seismic-centering bars are installed, start adding butt splice connectors to one end of each aluminum pan using factory holes provided and part no. 5634 (Screw 1/4" x 1" FTPN)



- 6** Use Heavy Tape to cover un-used splice connector holes (this will be at the first aluminum pan to be installed against the wall).
-

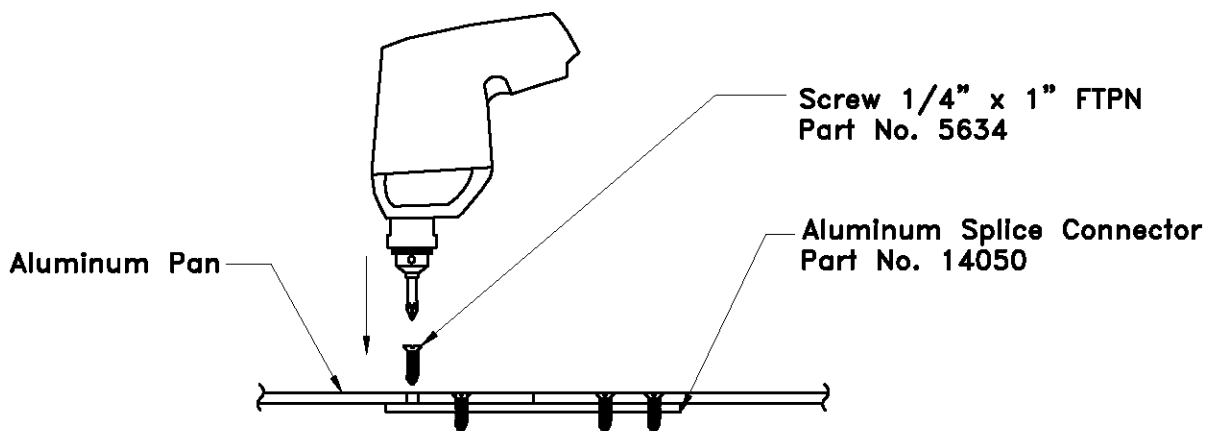
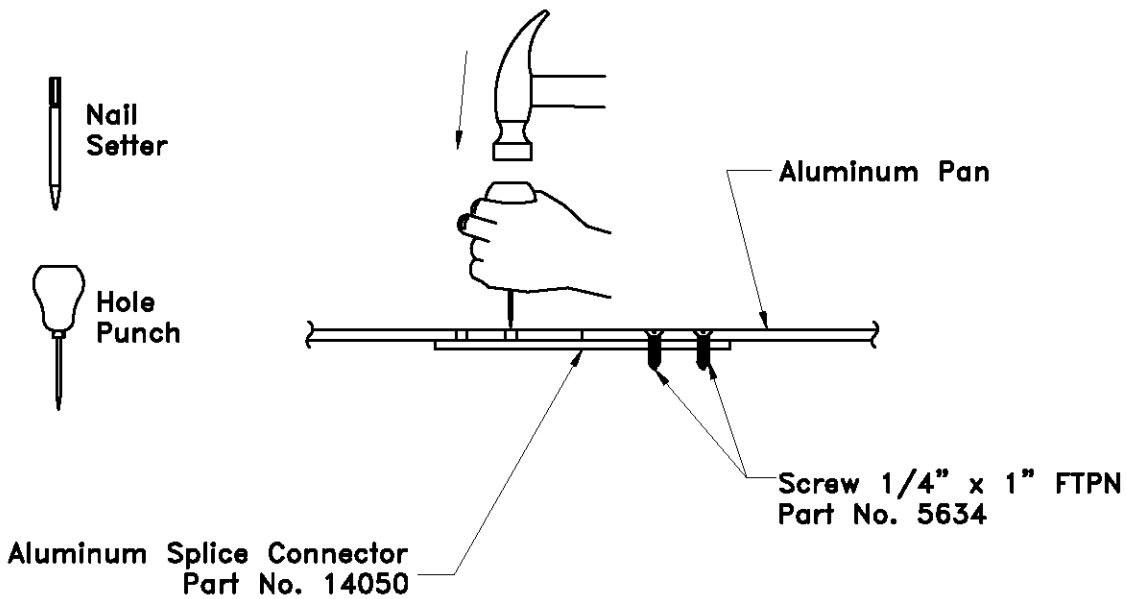
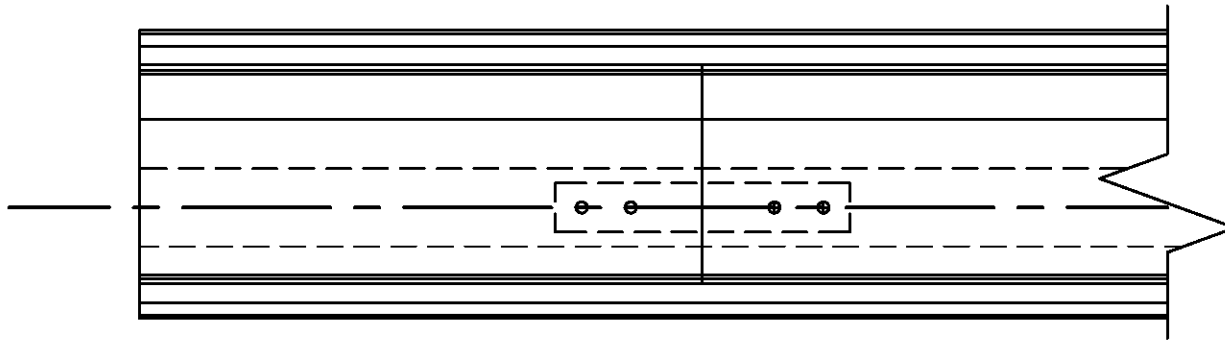


- 7** Gently set Aluminum Pans into place as shown above. See Steps 8 & 9 for splicing procedure

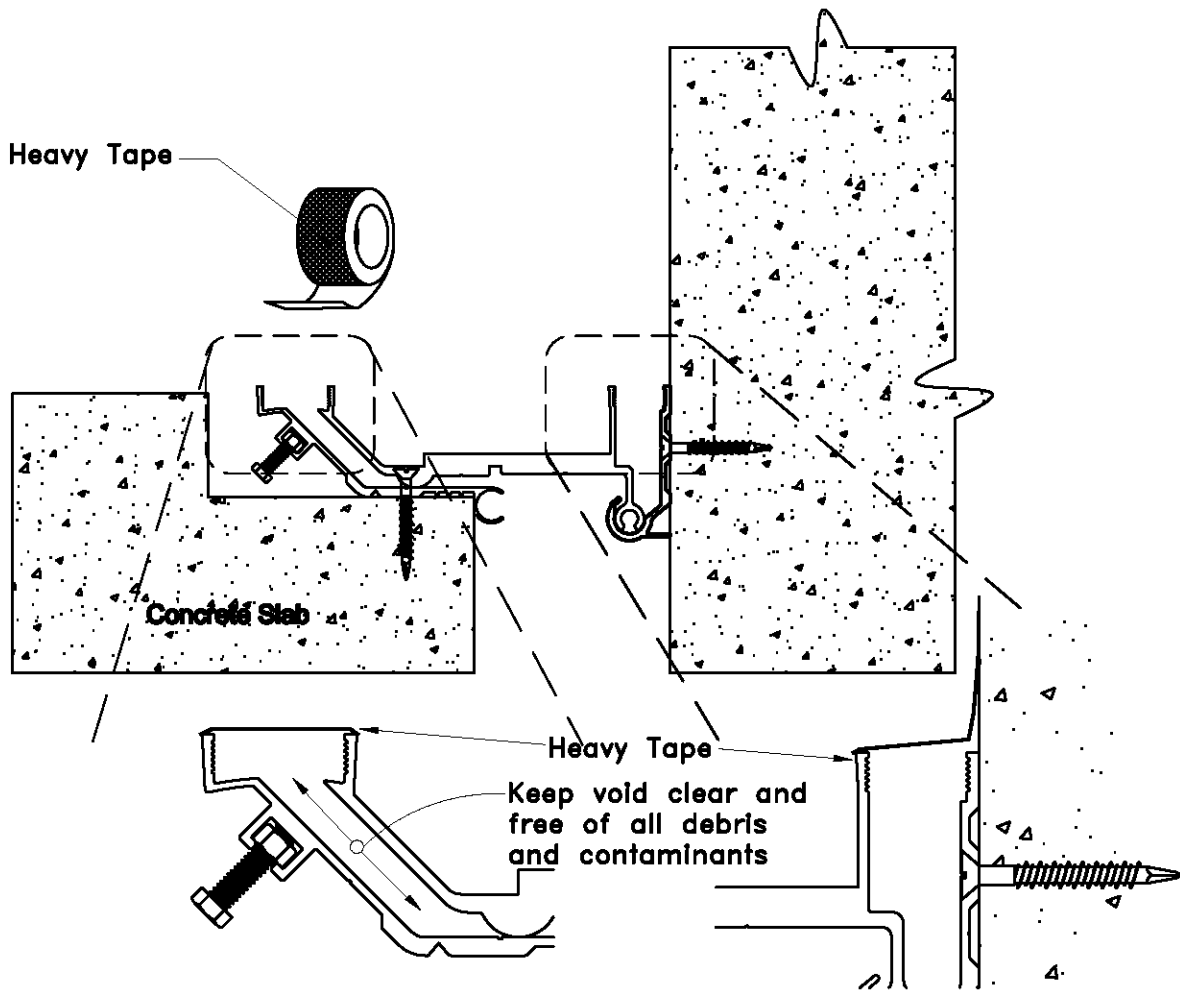


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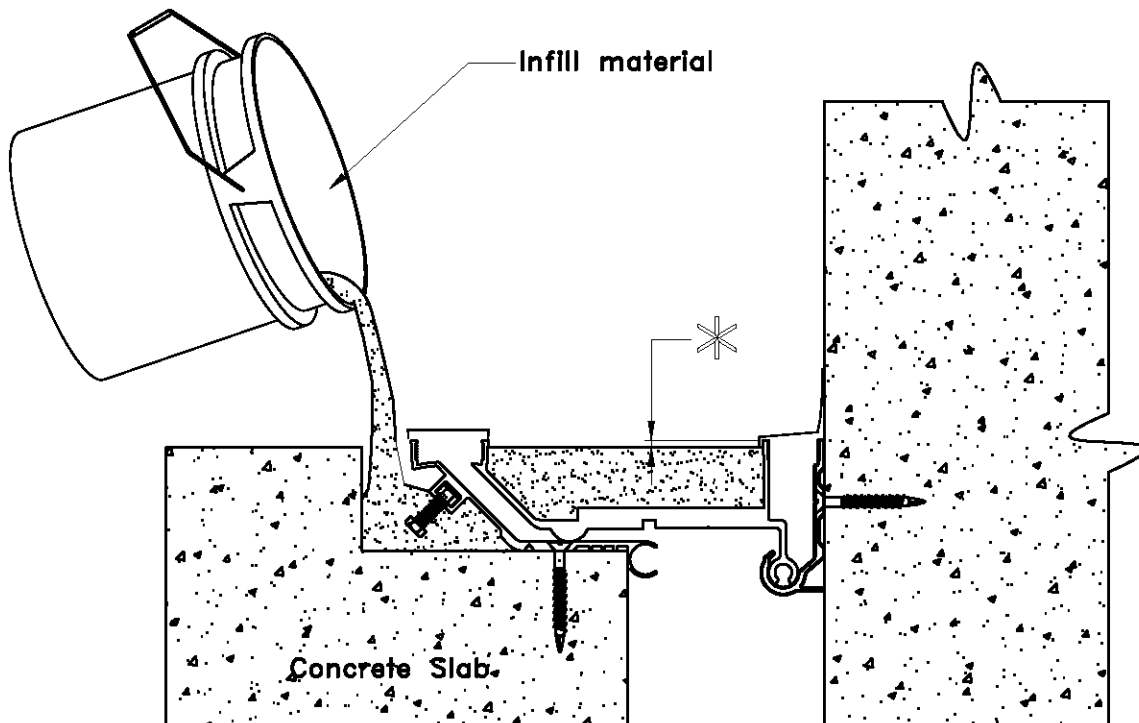
Set in next Aluminum Pan snug against previously laid in Aluminum Pan. See Step 9 for splicing the two together. Ensure Aluminum pan sections butt tightly together and that the outside edges align from section to section.



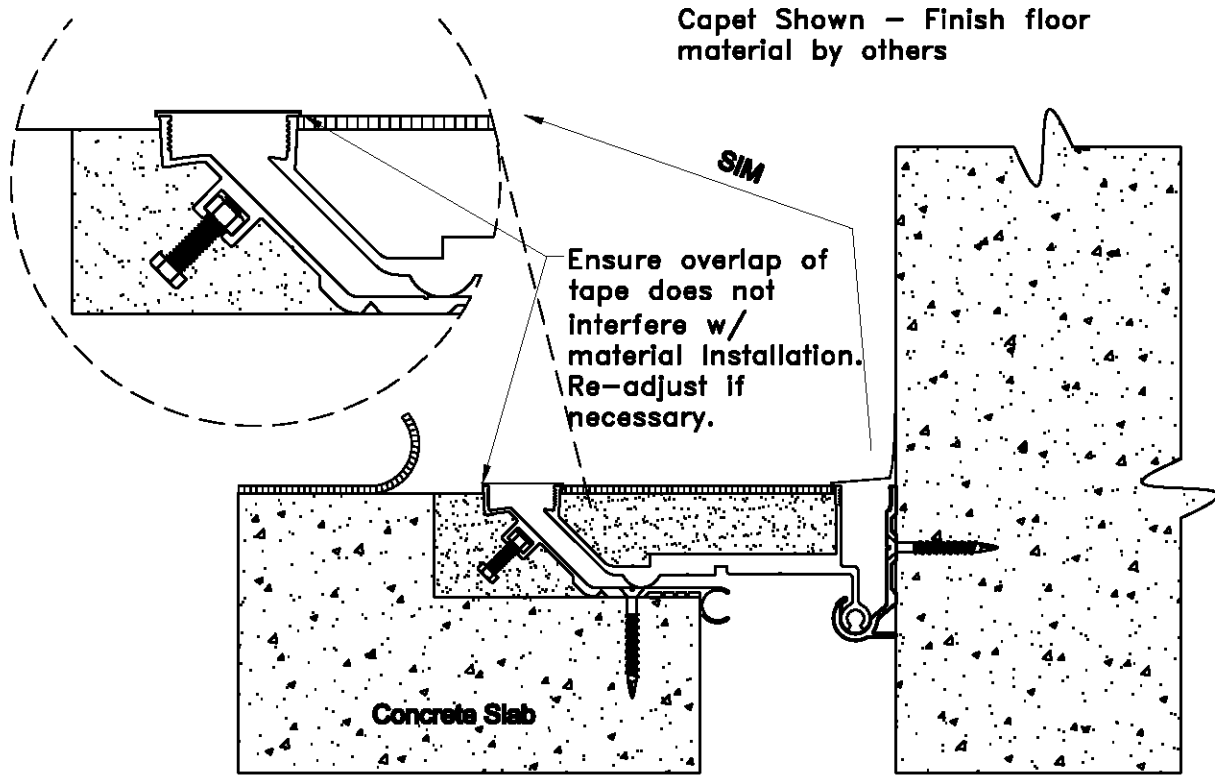
- 9** Using the splice connector holes in the Aluminum Pan as a guide, firmly tap in guide marks into the aluminum splice connector below utilizing either a nail setter or hole punch. Pre-drill 3/16" dia. pilot hole in connector. Use self tapping screws (Part No. 5634) to complete splicing of pan systems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



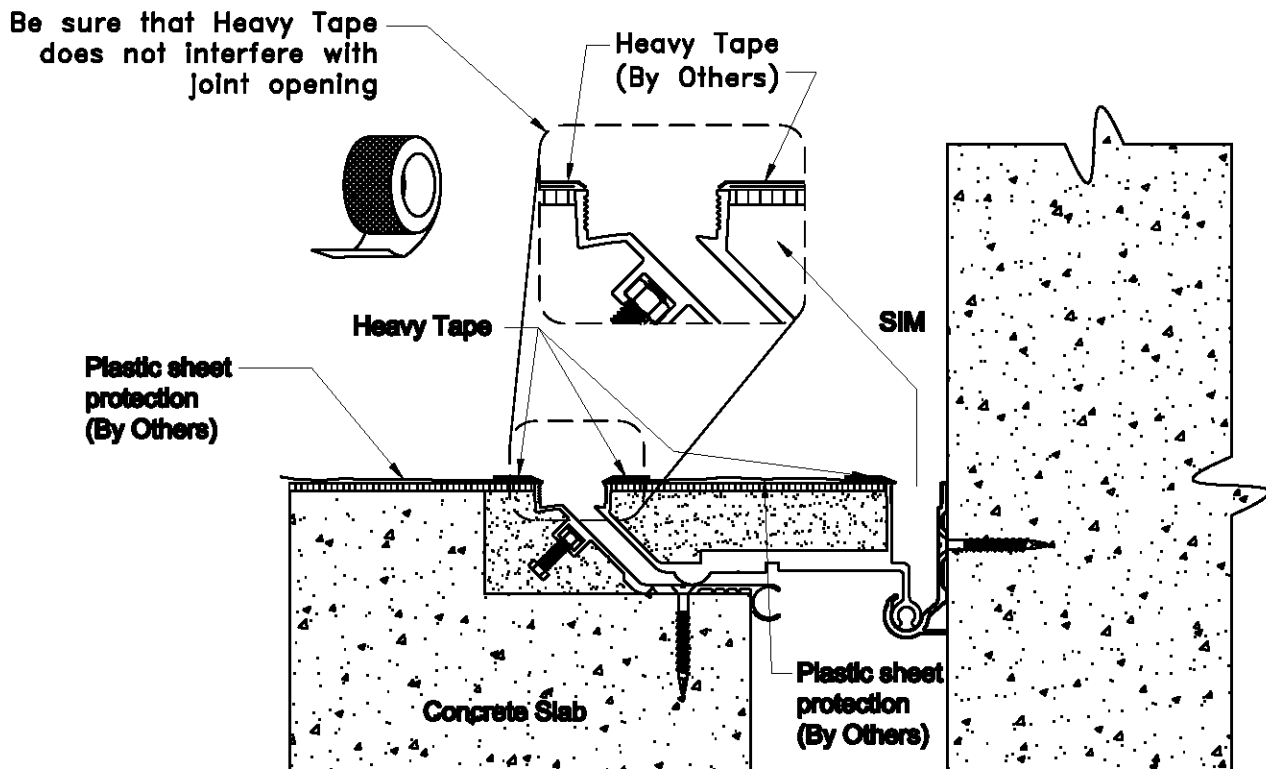
10 Use heavy tape continuously to protect joint opening through the next final steps.



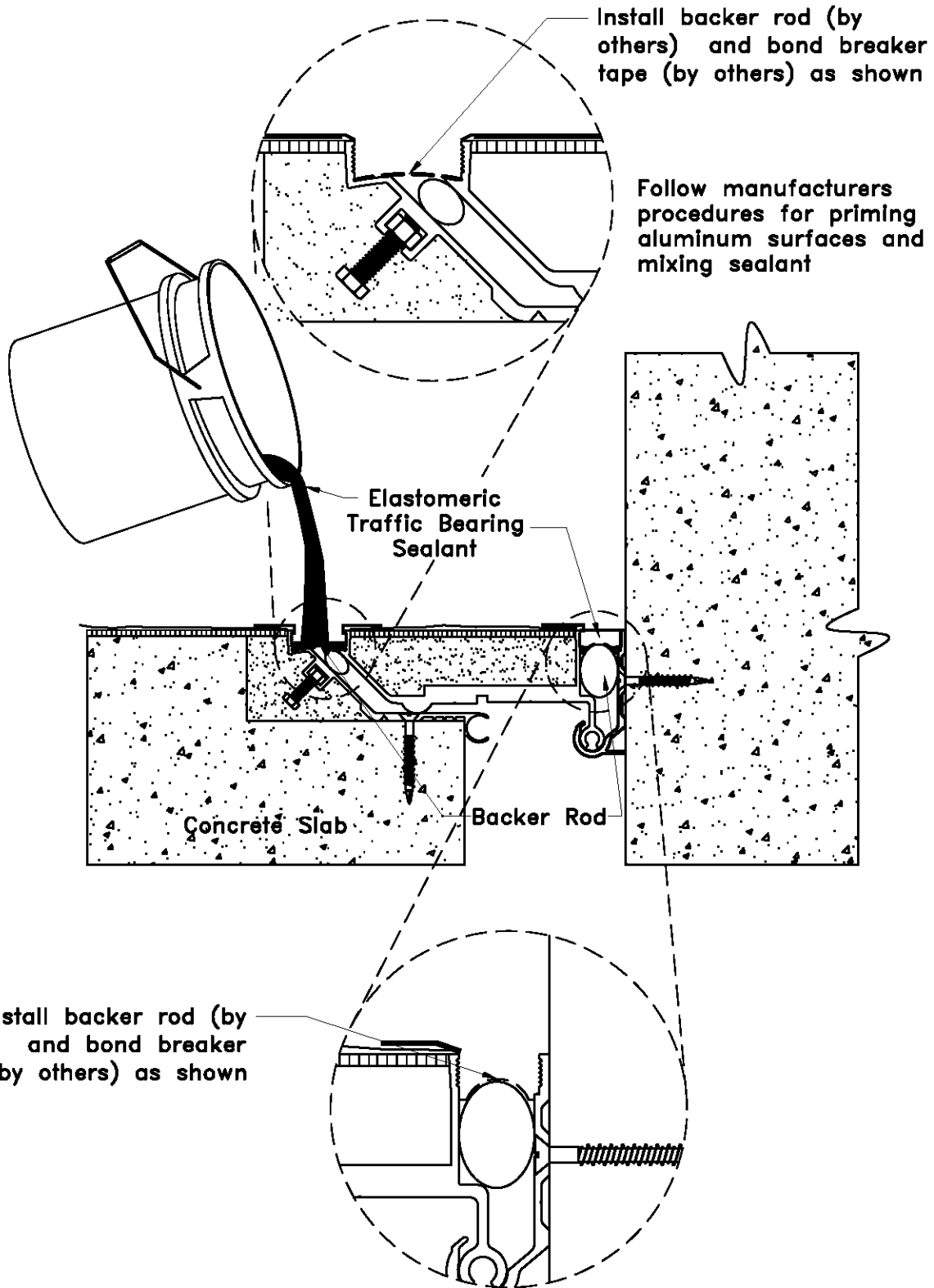
11 Pour infill material into blockout voids and Pan cavity. *Warning! Leave required recess for finish floor finish material thickness and proper placement 23



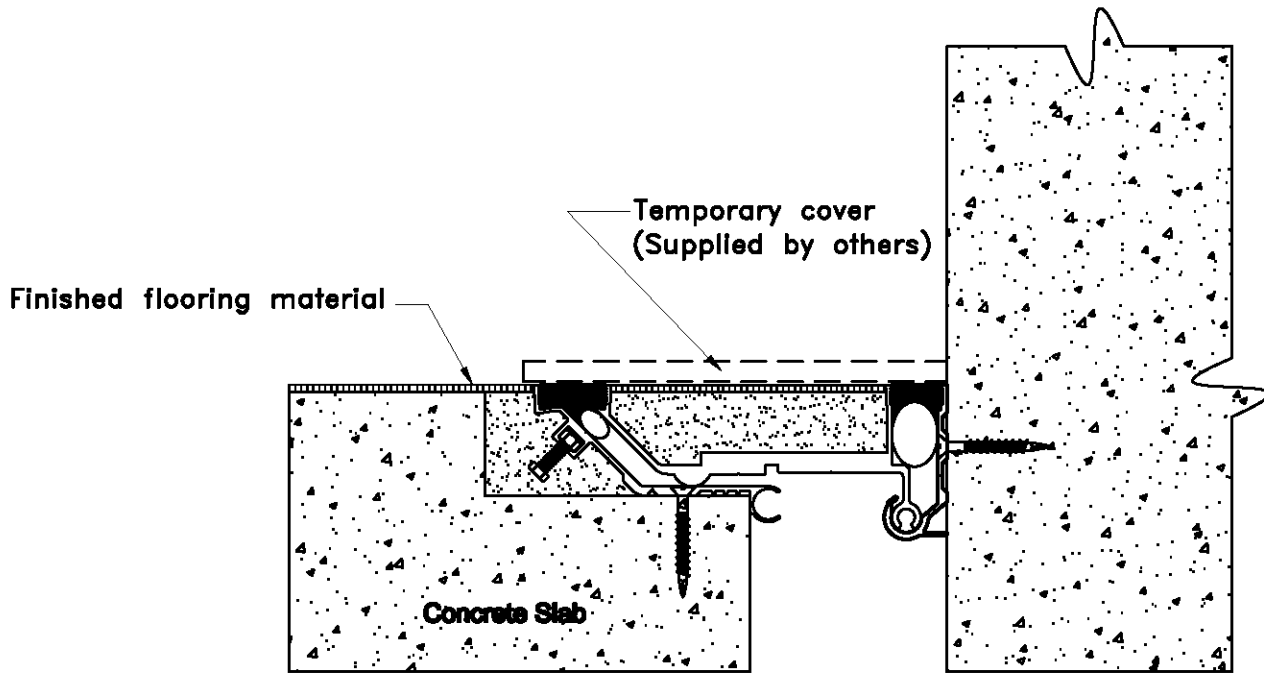
12 Install flooring material. Keep joint opening protected until surrounding flooring installation is complete



13 Remove Heavy Tape from joint opening. Protect surrounding finish floor material using Heavy Tape and Heavy Gauge Plastic Sheeting



14 Install Backer Rod, Bond Breaker Tape (Supplied by others) & Sealant (Supplied by others)



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



Erie Metal Specialties, Inc.
13311 Main Road
Akron, NY 14001
Phone: 716-542-3991
Fax: 716-542-3996
E-mail: sales@eriemetal.com
Website: www.eriemetal.com

SPECIFICATION

Section 07 95 13

Erie Metal Specialties, Interior Architectural Systems

Model(s) "EFLP", "EFLP-W"

Horizontal Seismic Control System

PART 1 - GENERAL

1.01 Work Included

- A. The work shall consist of furnishing and installing seismic joints in accordance with the details shown on the plans and the requirements of the specifications. The joints are proprietary custom designs utilizing extruded edge frames and structural pan designed to displace vertically during seismic activity.
- B. Related Work
 - Cast-in-place concrete
 - Miscellaneous and ornamental metals
 - Flashing and sheet metal
 - Sealants and caulking

1.02 Submittals

- A. Template Drawings - Submit typical seismic joint cross-section(s) indicating pertinent dimensioning, general construction, component connections, and anchorage methods.

1.03 Product Delivery, Storage and Handling

- A. Deliver system components in manufacturer's original, intact, labeled packaging and store under cover in a dry location until installed. Store off the ground; protect from weather and construction activities.

1.04 Acceptable Manufacturer

- A. All joints shall be supplied by; Erie Metal Specialties, Inc. • 13311 Main Road • Akron • New York • 14001 • Phone (716) 542-3991 • Fax (716) 542-3996 • sales@eriemetal.com • www.eriemetal.com .
- B. Alternate manufacturers and their products will be considered, provided they meet the design concept and are produced of materials that are equal to or superior to those called for in the base product specification.



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13311 Main Road
Akron, NY 14001
Phone: 716-542-3991
Fax: 716-542-3996
E-mail: sales@eriemetal.com
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- C. Any proposed alternate systems must be submitted and receive approval 21 days prior to the bid. All post bid submittals will not be considered. This submission shall be in accordance with MATERIALS AND SUBSTITUTIONS.

- Any manufacturer wishing to submit for prior approval must provide the following:

A working 6" sample of the proposed system with a letter describing how system is considered superior to the specified system.

A project proposal drawing that illustrates the recommended alternate system installed in the horizontal construction that is specific to the project. Typical catalog cut sections will not be considered.

Any substitution products not adhering to all specification requirements within will not be considered.

1.05 Quality Assurance

- A. Manufacturer: Shall have 10-years experience manufacturing and designing expansion joint systems. Alternate manufacturers will be considered provided they submit written proof that they have manufactured expansion joint systems for 10-years. Lesser manufacturers will not be considered.
- B. Warranty: The Professional Series expansion control system's performance shall be warranted when installed by the manufacturer's factory trained installer. Installation shall be in strict accordance with manufacturer's technical specifications, details, installation instructions and general procedures in effect for normal intended usage and suitable applications under specified design movements and loading conditions.
- C. Products: Expansion Control Systems must be installed with manufacturer's block out repair and infill material(s).
- D. Application: The specified expansion control systems shall be installed by a Certified Applicator, factory trained and certified in the proper installation of the specified expansion control system and fire barrier system.

PART 2 - PRODUCT

2.01 General

- A. Provide horizontal seismic control system capable of accommodating multi-directional seismic movement without stress to its components during thermal movement. System shall consist of a structural pan designed to displace vertically and to receive finish floor treatments up to 1 ¼ inch in thickness. The pan plate shall be designed of width and thickness required to satisfy project movement and a 150 PSF distributed live load. Incorporate semi-circular continuous bearing surface at underside of pan assembly to enhance horizontal motion and vertical rotational movement. For floor to wall condition design system to include hinged feature at pan to wall connection for smooth upward displacement during seismic activity. Secure pan to edge frames by utilizing manufacturer's



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pre-engineered seismic-centering bar and anchor system to horizontal slab utilizing manufacturer's standard anchor. Design system to receive traffic bearing elastomeric sealant to accommodate limited seasonal thermal movement. Sealant shall be considered sacrificial during seismic activity.

Furnish EMS, Inc model "EFLP" Seismic Control System for horizontal joint locations as indicated on drawings. Custom engineered systems available. Standard system supplied unless architect submits specific project requirements in writing to manufacturer for design evaluation.

2.02 Components and Materials

- A. Aluminum Extrusions - Material to conform to properties of ASTM B221, alloy 6063-T6.
- B. Edge Frames - Provide aluminum extruded profile conforming to properties of ASTM B221, alloy 6063-T6. All surfaces to receive elastomeric sealant shall be serrated to promote enhanced adhesion. Satisfy impact loading anchorage requirements by incorporating a continuous cavity properly sized to receive 1/4" dia. hex nut.
- C. Pan - Provide minimum 1/4" thick aluminum plate conforming to ASTM B209, alloy 6061-T6. For 16" and 18" openings provide 3/8" thick plate. Slide plate to be secured to joint assembly utilizing a pre-engineered self-centering bar that freely rotates in all directions. Preformed metal devices that utilize tension or compression to maintain and secure slide plate will not be allowed. Modify pan to include gusset plates for heavy-duty applications.
- D. Seismic-Centering Bar - Shall exhibit circular sphered ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Bar shall be molded or manufactured incorporating corrosion resistant nylon components with sphered ends and 1" wide standard cross member for standard applications. Provide 1 1/2" wide cross member where heavy-duty application is required. Spacing shall be a maximum of 18" o.c.

During seismic activity design centering bar to permit vertical displacement of metal cover during accelerated inward and outward movement without evidence of fatigue and permanent deformation. Concurrently provide secure connection between plate and underlying system components to maintain proper positioning and contact to adjoining surfaces.

Bar shall exhibit the following physical properties to demonstrate ability to resist corrosion and fatigue.

PHYSICAL PROPERTIES

Molded End Profile:	
Material :	Nylon
Color:	Black
Tensile Strength @ break:	ASTM D638 25,500 psi
Cross-Member:	
Material:	Pre-tempered spring steel



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Damage Mitigation - Test Requirements: Seismic-centering bar must exhibit ability to disengage (controlled release) from expansion joint edge member(s) when seismic movement exceeds the specified maximum allowable opening. Submit independent test report demonstrating required design of seismic-centering bar.

Requirements -

Equipment: Instron Machine

Orientation: Specimen subjected to tensile load with cross member parallel to direction of load.

Specimens: Test 4(min)– select at random.

Disengagement range (lbs) : 800 (min.) – 1250 (max.)

E. Moisture Barrier - Not supplied with standard system.

Option “A” (medium-duty)

Provide fabric reinforced tear resistant clear vinyl sheet material. Minimum thickness shall be .026”.

Optional “B” (heavy-duty)

Provide EMS Flexible Gutter utilizing fabric reinforced neoprene sheet material .060” thickness. Incorporate drain tubes if drainage of moisture is required.

F. Block out Repair - Utilize a rapid strength repair mortar.

G. Block out Infill - Utilize non-catalyzed, non-shrink grout containing mineral aggregate.

H. Anchorage - Provide minimum ¼” dia. x 2 ¼” lg. threaded concrete anchor with csk. flathead at maximum 18” o.c. spacing to secure aluminum edge frame to adjacent construction. At back of frame provide ¼” dia. x ¾” long anchor bolts at 36” o.c. At wall mounted frame provide spacing at 15” o.c. and appropriate style of anchor as determined by wall construction.

I. Accessories - Provide necessary and related parts, and fasteners required for complete installation including connector plates and hardware for butt splices between pans. Provide stainless steel hex head bolt with plastic cap to secure pan assembly to self-centering bar.

J. Fire Barrier Assembly - Designed for indicated or required dynamic structural movement without material degradation or fatigue. Tested in maximum joint width conditions with a field splice as a component of the expansion joint cover and cycle tested by a nationally recognized testing and inspecting organization. Supply Fire Barrier (2-way movement) as governed by joint opening and fire rating. Provide (4-way movement) where movement parallel to joint opening is expected.

K. Colored Elastomeric Sealant (by others) - Material shall be a two-component polyurethane. Comply with federal specification TT-S-0027-E(3) with a shore A hardness of 25. Installer shall provide required backer rod profile to ensure proper performance of sealant. Silicone sealants may be substituted to provide enhanced movement capabilities.



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2.03 Fabrication

A. Extrusions, pan and edge frame profiles to be shipped in standard 10 ft. lengths and shall be cut to length on job site where required. Profiles shall be miter cut in the field to conform to directional changes unless otherwise contracted with expansion joint manufacturer. Where factory transitions are required installing contractor shall provide field measurements to the manufacturer for evaluation and costing.

B. Fire Barriers

Ship manufacturer's standard assembly including splice sealants and hardware for the required hourly rating. Assemblies shall be miter cut in the field to accommodate changes in direction. Where factory transitions are required installing contractor shall provide field measurements to the manufacturer for evaluation and costing.

2.04 Finishes

All aluminum extrusions and shapes shall be supplied in standard mill finish.

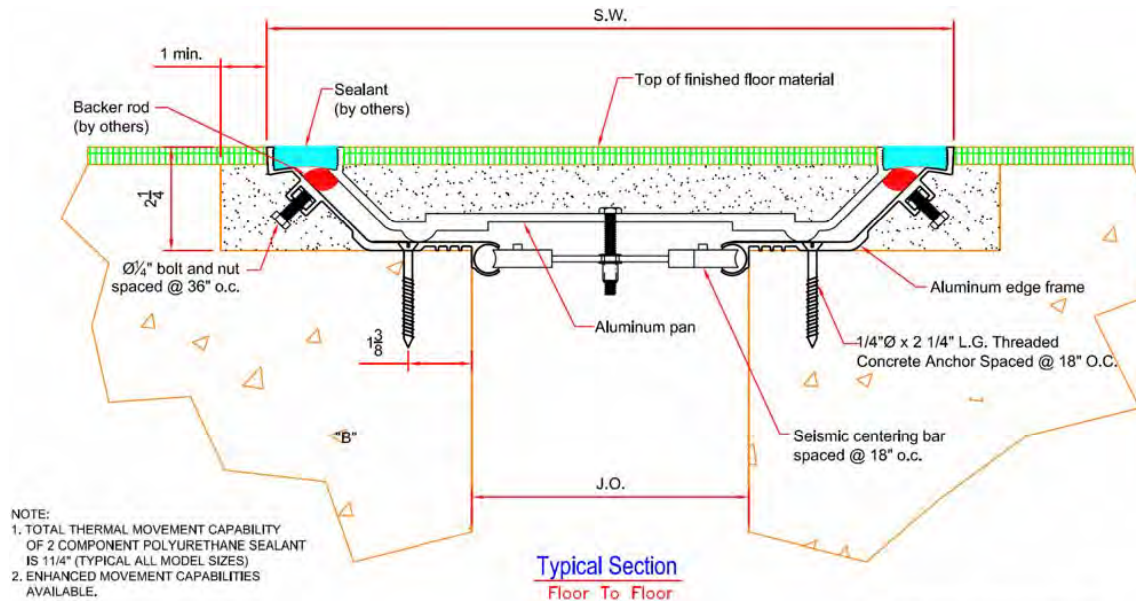
PART 3 - EXECUTION

3.01 Installation

- A. Install all Expansion Control Systems utilizing manufacturer's block out repair and infill material.
- B. Protect all seismic control joint components from damage during installation, placement of concrete, finishes and thereafter until completion of structure.
- C. Expansion joint systems shall be installed in strict accordance with the manufacturer's typical details and instructions along with the advice of their qualified representative.
- D. Expansion joint systems shall be set to the proper width for the ambient temperature at the time of installation. This information is indicated in the contract plans.
- E. Two component polyurethane sealants shall be installed in strict accordance with the sealant manufacturer's instructions along with the advice of their qualified representative.

3.02 Clean and Protect

- A. Protect system and its components during construction. After work is complete in adjacent areas clean exposed surfaces with a suitable cleaner that will not harm or attack the finish.



DIMENSION CHART

MODEL	Joint Opening (J.O.)						Total Seismic Movement		S.W		B (min)	
	at install		allow min		allow max				at install			
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm		
EFLP-400	4	100	1 1/4	32	6	152	4 3/4	121	12 7/8	327	6	152
EFLP-600	6	152	1 1/4	32	9	229	7 3/4	197	14 7/8	378	6	152
EFLP-800	8	203	1 1/4	32	12	305	10 3/4	273	18 7/8	479	7	178
EFLP-1000	10	254	1 1/4	32	15	381	13 3/4	349	20 7/8	530	7	178
EFLP-1200	12	305	1 1/4	32	18	457	16 3/4	425	23 7/8	606	7	178
EFLP-1600	16	406	1 1/4	32	24	610	22 3/4	578	29 7/8	759	8	203
EFLP-1800	18	457	1 1/4	32	27	686	25 3/4	654	34 7/8	886	10	254

Note: J.O. minimum and maximum values are after seismic movement occurs

NO.			

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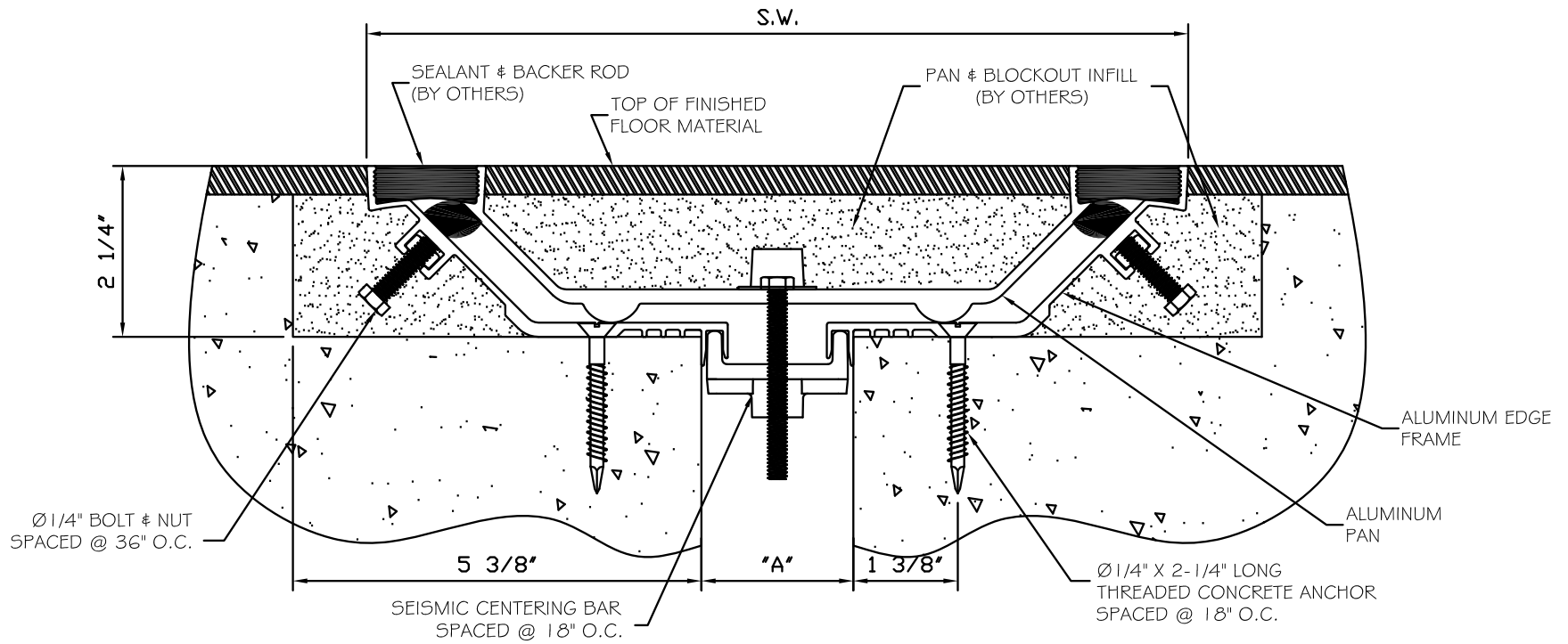


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PROJECT:

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Checked By: SLP	Date: 10/21/17
Scale: NTS	EMS Job #:
Sheet No.: 1 of 1	Drawing No.:



DIMENSION CHART					
MODEL	"A" @ MIN	"A" @ MID	"A" @ MAX	TOTAL SEISMIC MOVEMENT	SYSTEM WIDTH
EFLP-200	1"(25)	2"(51)	4"(102)	3"(76)	10-13/16"(275)

() - DENOTES MILLIMETERS

NOTES:

- TOTAL THERMAL MOVEMENT CAPABILITY OF 2".
- COMPONENT POLYURETHANE SEALANT IS 1-1/4" (TYP ALL MODEL SIZES)

NO.	Description	Date	By

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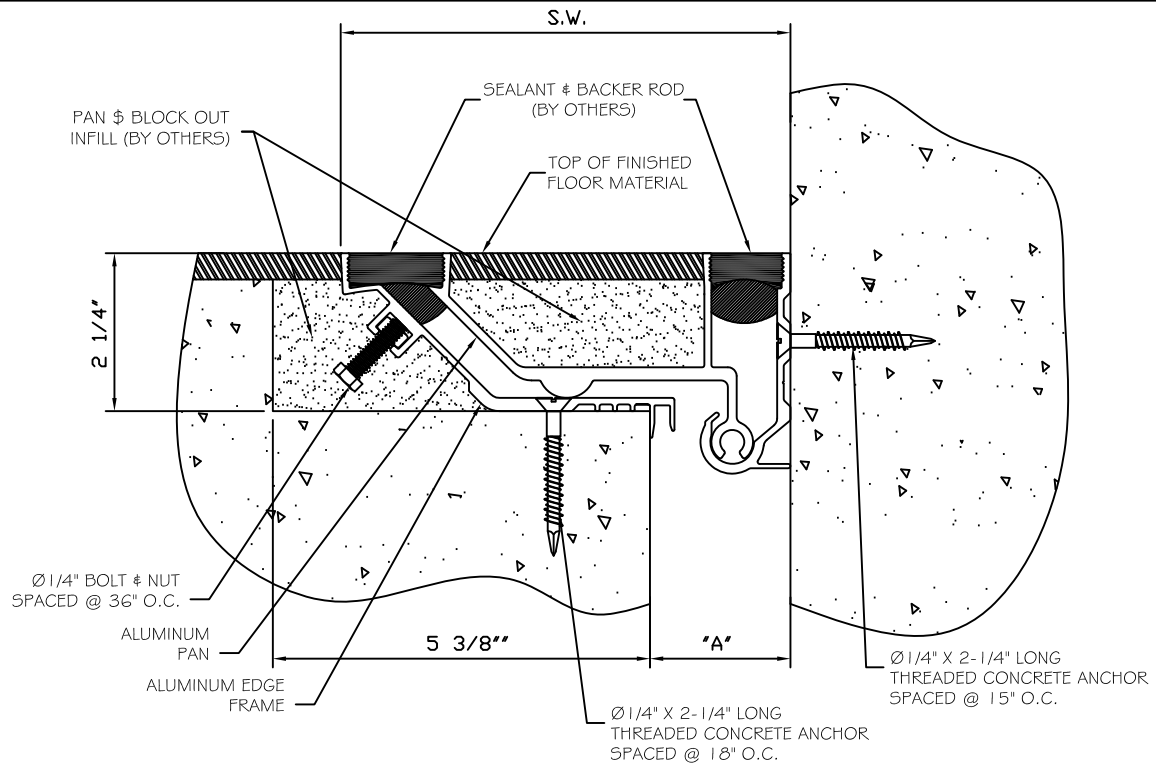


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Scale: NTS	EMS Job #:
Sheet No.: 1 of 1	Drawing No.:



DIMENSION CHART					
MODEL	"A" @ MIN	"A" @ MID	"A" @ MAX	TOTAL SEISMIC MOVEMENT	SYSTEM WIDTH
EFLP-200W	5/8"(41)	2"(51)	3"(76)	1-3/8"(35)	6-7/16"(164)

() - DENOTES MILLIMETERS

NOTES:

1. TOTAL THERMAL MOVEMENT CAPABILITY OF 2".
2. COMPONENT POLYURETHANE SEALANT IS 5/8" (TYP ALL MODEL SIZES)

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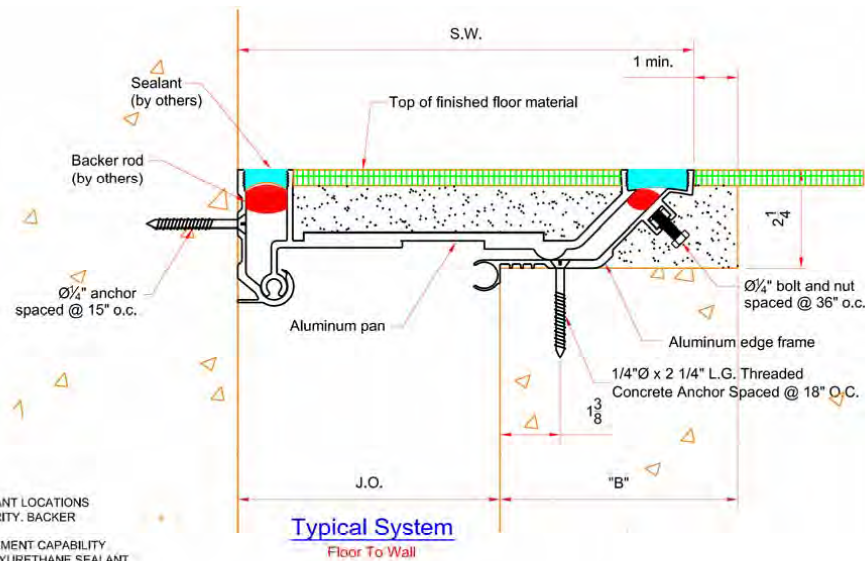


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Sheet No.: 1 of 1	Drawing No.:



NOTE:
 1. BACKER ROD AT SEALANT LOCATIONS NOT SHOWN FOR CLARITY. BACKER ROD BY OTHERS.
 2. TOTAL THERMAL MOVEMENT CAPABILITY OF 2 COMPONENT POLYURETHANE SEALANT IS 5/8" (TYPICAL ALL MODEL SIZES)
 3. ENHANCED MOVEMENT CAPABILITIES AVAILABLE.

Note: Exposed Aluminum Surfaces Mill Finish (standard)

DIMENSION CHART

MODEL	Joint Opening (J.O.)						Total Seismic Movement		S.W.		B (min)	
	at install		allow min		allow max				at install			
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm		
EFLP-400W	4	100	2	51	5	127	3	76	8 7/16	214	6	152
EFLP-600W	6	152	2	51	7 1/2	191	5 1/2	140	10 7/16	265	6	152
EFLP-800W	8	203	2	51	10	254	8	203	13 7/16	341	7	178
EFLP-1000W	10	254	2	51	12 1/2	318	10 1/2	267	15 7/16	392	7	178
EFLP-1200W	12	305	2	51	15	381	13	330	17 15/16	456	7	178
EFLP-1600W	16	406	2	51	20	508	18	457	22 15/16	583	8	203
EFLP-1800W	18	457	2	51	22 1/2	572	20 1/2	521	26 7/16	672	10	254

Note: J.O. minimum and maximum values are after seismic movement occurs

NO.			



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