Knowledge for Creating and Sustaining the Built Environment

SUBSTITUTION REQUEST

(After the Bidding/Negotiating Phase)

Project: _____ Substitution Request Number: (For Architect to fill in)

_____ From: _____

To: _____ Date: _____

_____ A/E Project Number: _____

Re: _____ Contract For: _____

Specification Title: _____ Description: _____

Section: _____ Page: _____ Article/Paragraph: _____

Proposed Substitution: EFLC-Series Seismic Slide Flooring System

Manufacturer: Erie Metal Specialties, Inc. Phone: 716-542-3991

Address: 13311 Main Road, Akron, NY 14001

Trade Name: EFLC-Series Model No.: EFLC

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 ☐ _____

Form Version: June 2004
CSI Form 13.1A

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:

Form Version: June 2004
CSI Form 13.1A

EFLC Series Flooring System

Interior Joints (Floor)

This metal floor cover is designed for interior applications where low maintenance or tamper-resistant applications are desirable. With a recessed side frame and sloped center plate, this model helps reduce visual line as compared to other metal floor covers.

FEATURES

DURABLE The seismic glide system is an ideal option for commercial environments.

MINIMAL SIGHT LINE With the sliding surface, the sight line remains limited and unchanged as the joint moves.

COORDINATING CORNERS Available with a corner option for a complete floor solution.

DETAILS

MATERIAL 6063-T6 Aluminum

FINISH Mill

MOVEMENT
- Thermal: Horizontal and Vertical
- Seismic: Lateral Shear

MOUNTING Block Out

JOINT SIZE 1 inch to 6 inches

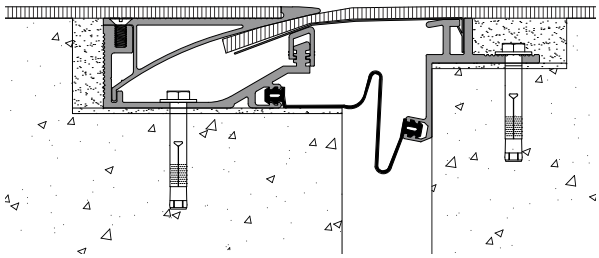
LENGTH 10 Linear Feet

APPLICATION Interior

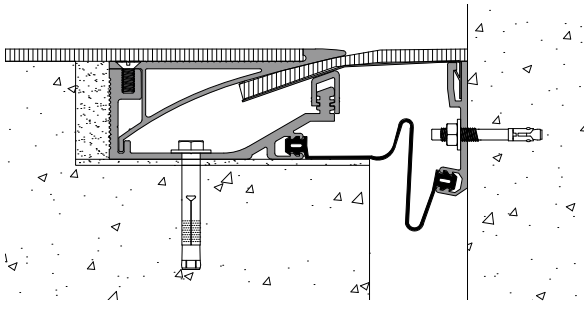
LOAD Pedestrian and Light Cart

INSTALLATION Floor

OPTIONS Moisture Barrier, Fire Barrier



Floor-to-Floor



Floor-to-Wall/Corner

MODELS

MODEL	INSTALLATION	JOINT SIZE AT MEAN T°F	SYSTEM WIDTH	TOTAL MOVEMENT
EFLC-100	Floor-to-Floor	1" (25mm)	9.69" (246mm)	1" (25mm)
EFLC-100W	Floor-to-Wall	1" (25mm)	7.31" (186mm)	2" (51mm)
EFLC-200	Floor-to-Floor	2" (51mm)	9.69" (246mm)	2" (51mm)
EFLC-200W	Floor-to-Wall	2" (51mm)	7.31" (186mm)	2" (51mm)
EFLC-400	Floor-to-Floor	4" (102mm)	9.69" (246mm)	4" (102mm)
EFLC-400W	Floor-to-Wall	4" (102mm)	7.31" (186mm)	4" (102mm)
EFLC-600	Floor-to-Floor	6" (152mm)	13.63" (346mm)	6" (152mm)
EFLC-600W	Floor-to-Wall	6" (152mm)	11.25" (286mm)	6" (152mm)

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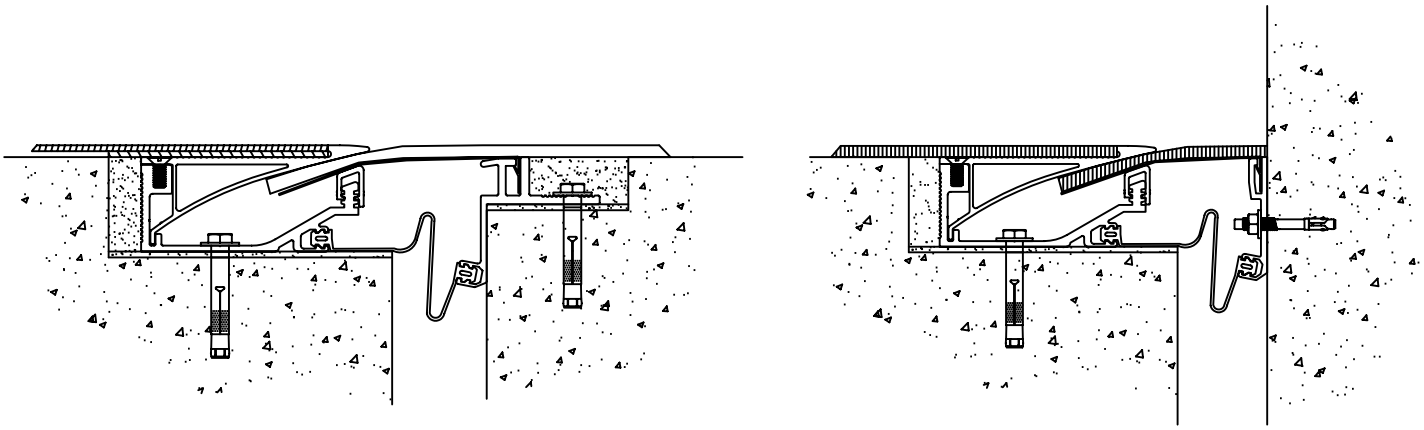


Flow - Professional Series
Model(s) "EFLC" & "EFLC-W" 100-400
Horizontal Expansion Control Systems

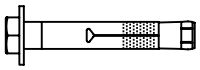
The following installation procedure is very important and must be fully understood prior to beginning any work. To ensure proper installation and performance of expansion joint system the following actions must be completed by the installing contractor. Failure to do so will affect product warranty.

1) Carefully read and understand installation procedure. Contact Technical Service Department for product assitance.
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 product manager for scheduled repair work.

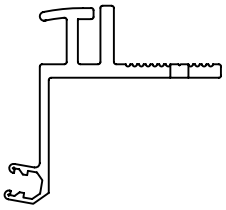
PN: N20100

Standard Components

¼" X ⅝" Csk Flathead Machine Screw PN 5620



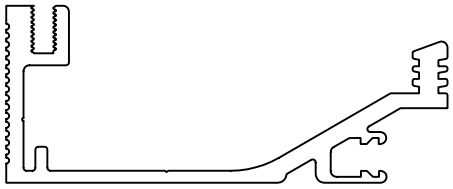
⅜" X 2–¼" Anchor PN 6514



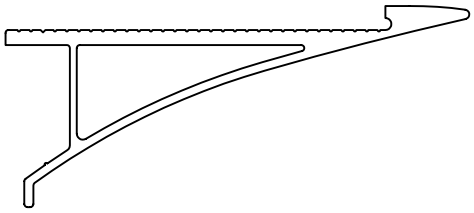
Aluminum Floor Leaf Mount Extrusion PN 18120

Aluminum Adjustable Spring Support PN 17035

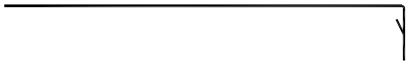
Prima–Lub PN 2720



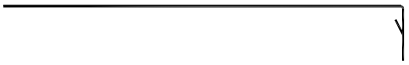
Aluminum Base Support PN 18049



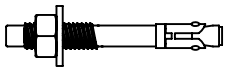
Aluminum Exposed Trim Surface PN 17048



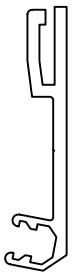
Spring Steel Leaf Spring PN 17009



*Spring Steel Leaf Spring PN 17011



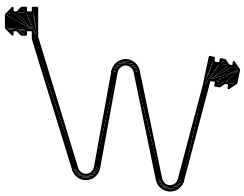
* ¼" X 2–¼" Anchor PN 6581



*Aluminum Wall Mount Leaf Extrusion PN 18044

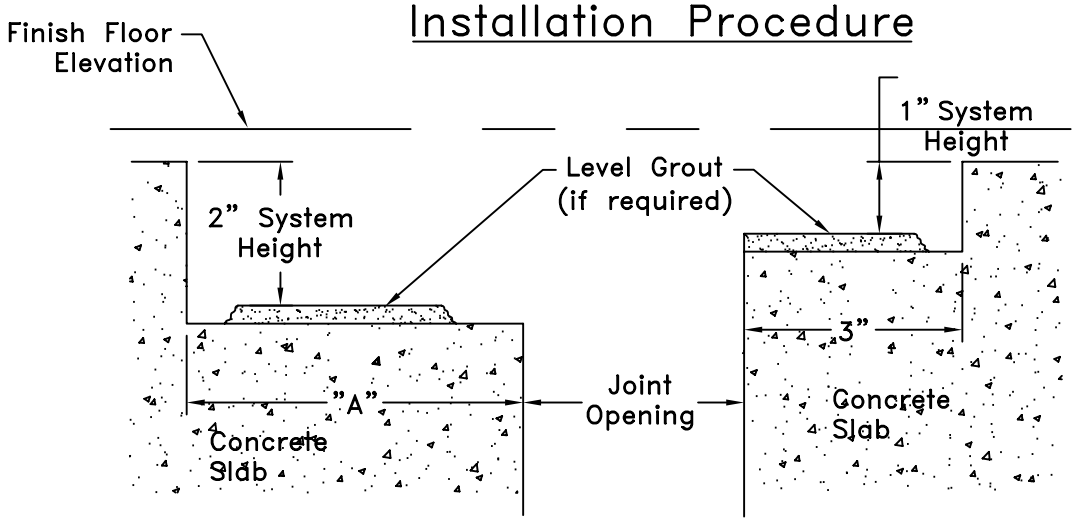
*Components required for corner condition installation.

Components shown below vary in size depending on model of system



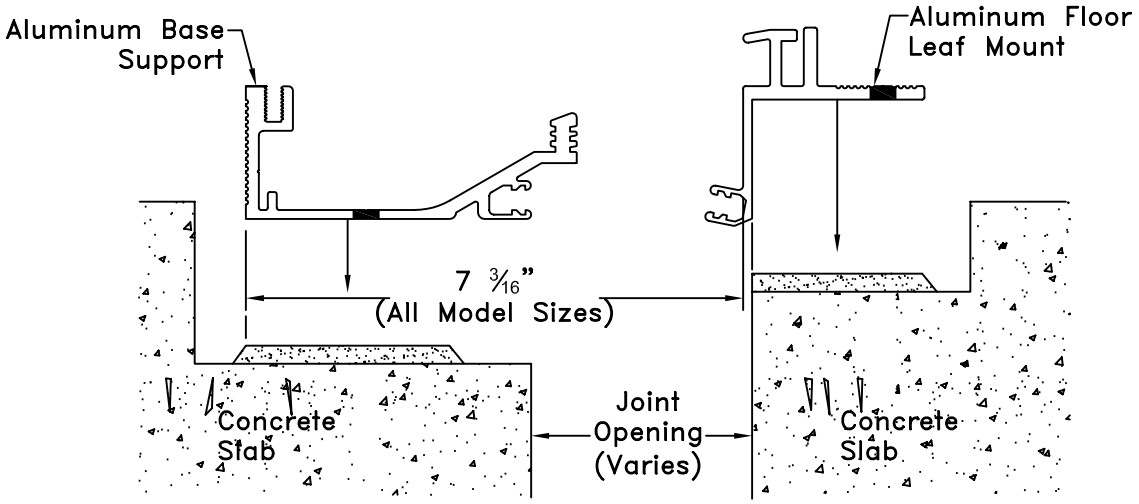
Moisture Barrier PN 1181

Installation Procedure



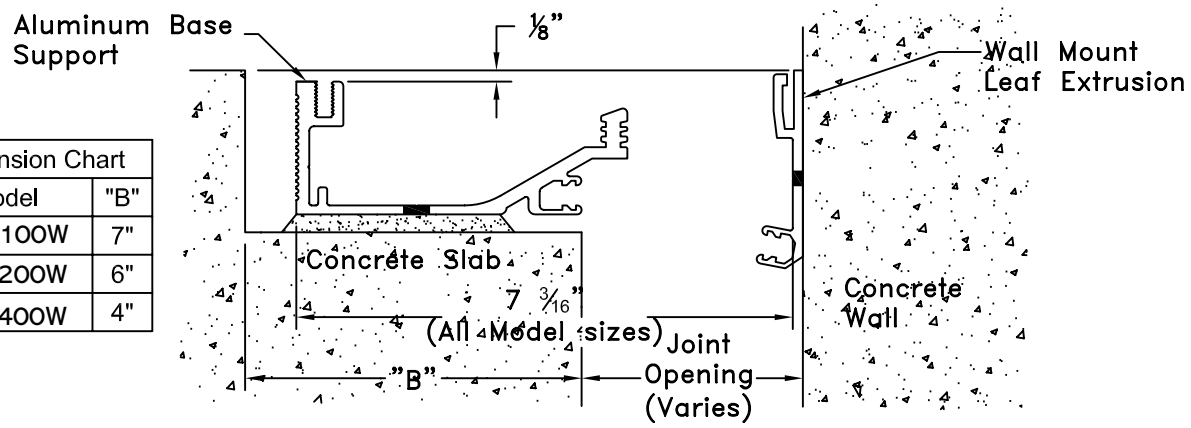
Dimension Chart	
Model	"A"
EFLC-100	7"
EFLC-200	6"
EFLC-400	4"

1 Prepare concrete block out for installation of expansion joint. Variations in block out dimensions must be corrected prior to beginning work.



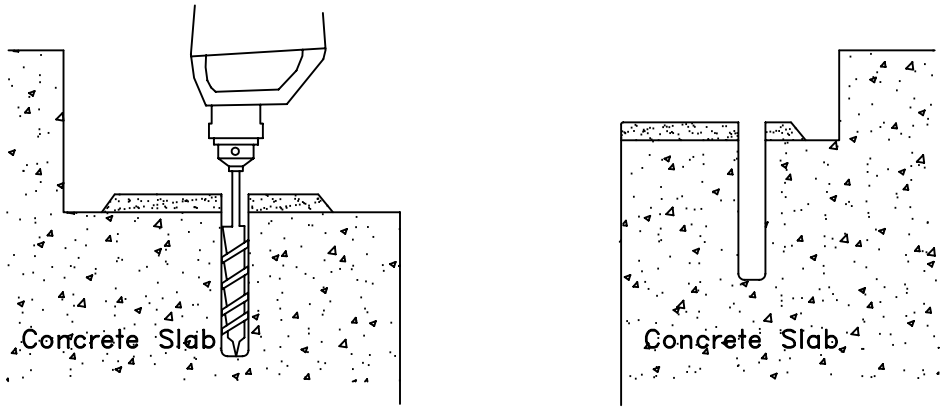
2 Floor – Position Aluminum base support and Aluminum floor leaf mount extrusion on block out as shown. Mark anchor locations.
Note: Aluminum base support and Aluminum Floor leaf mount must have FULL BEARING on grout or slab.

(Corner Condition)

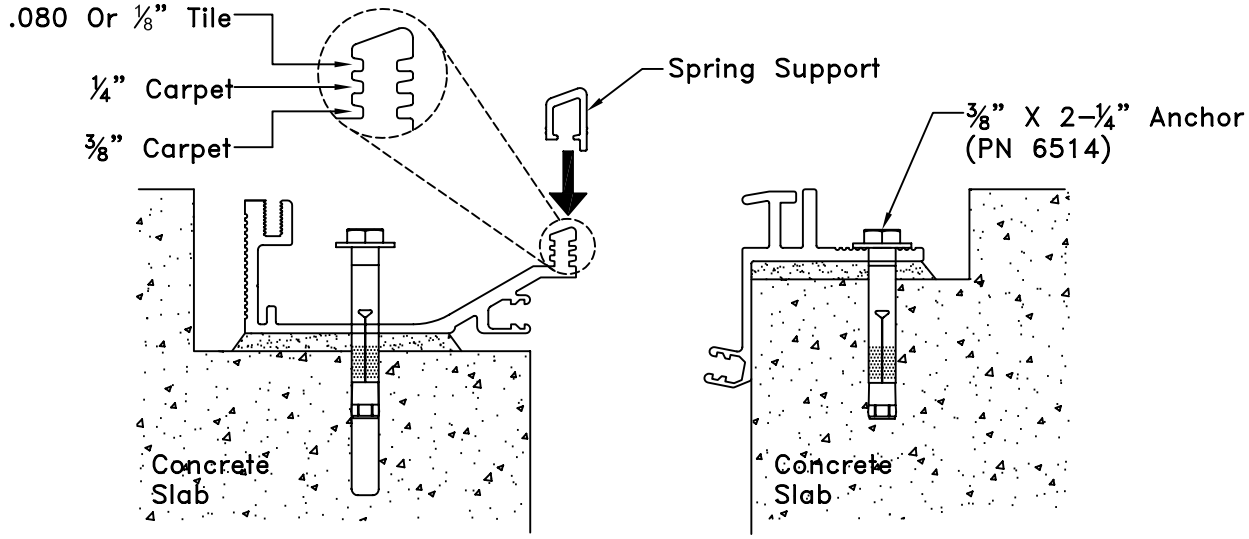


Dimension Chart	
Model	"B"
EFLC-100W	7"
EFLC-200W	6"
EFLC-400W	4"

2A Corner – Align top of wall leaf mount extrusion 1/8" above top of Aluminum base member as shown. Mark anchor locations.
Note: Aluminum base support and Aluminum Floor leaf mount must have FULL BEARING on grout or slab.

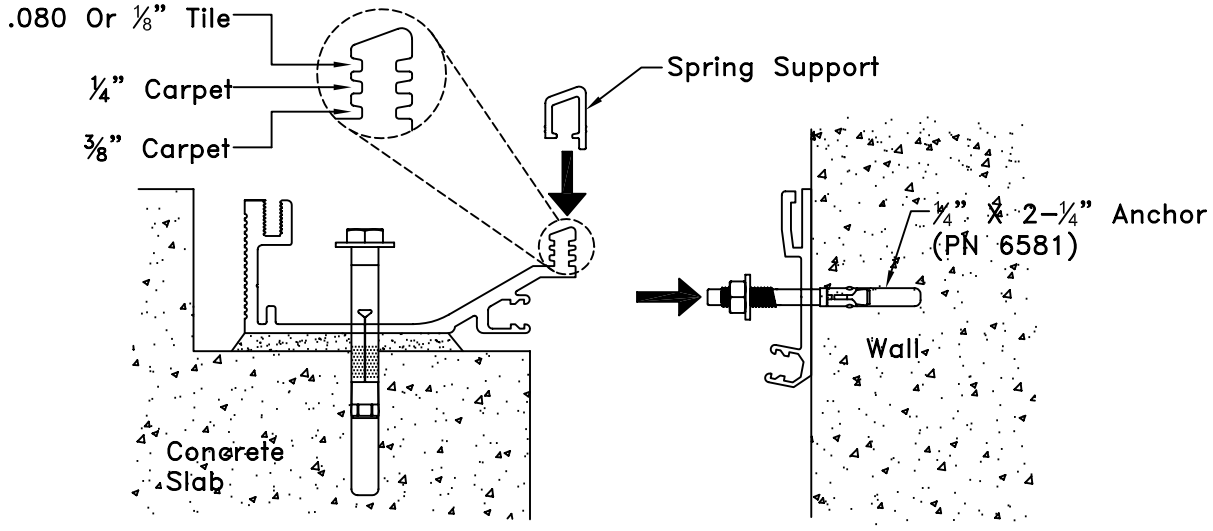


3 Drill holes for ⅜" x 2–¼" anchor to proper depth. Clean out holes.

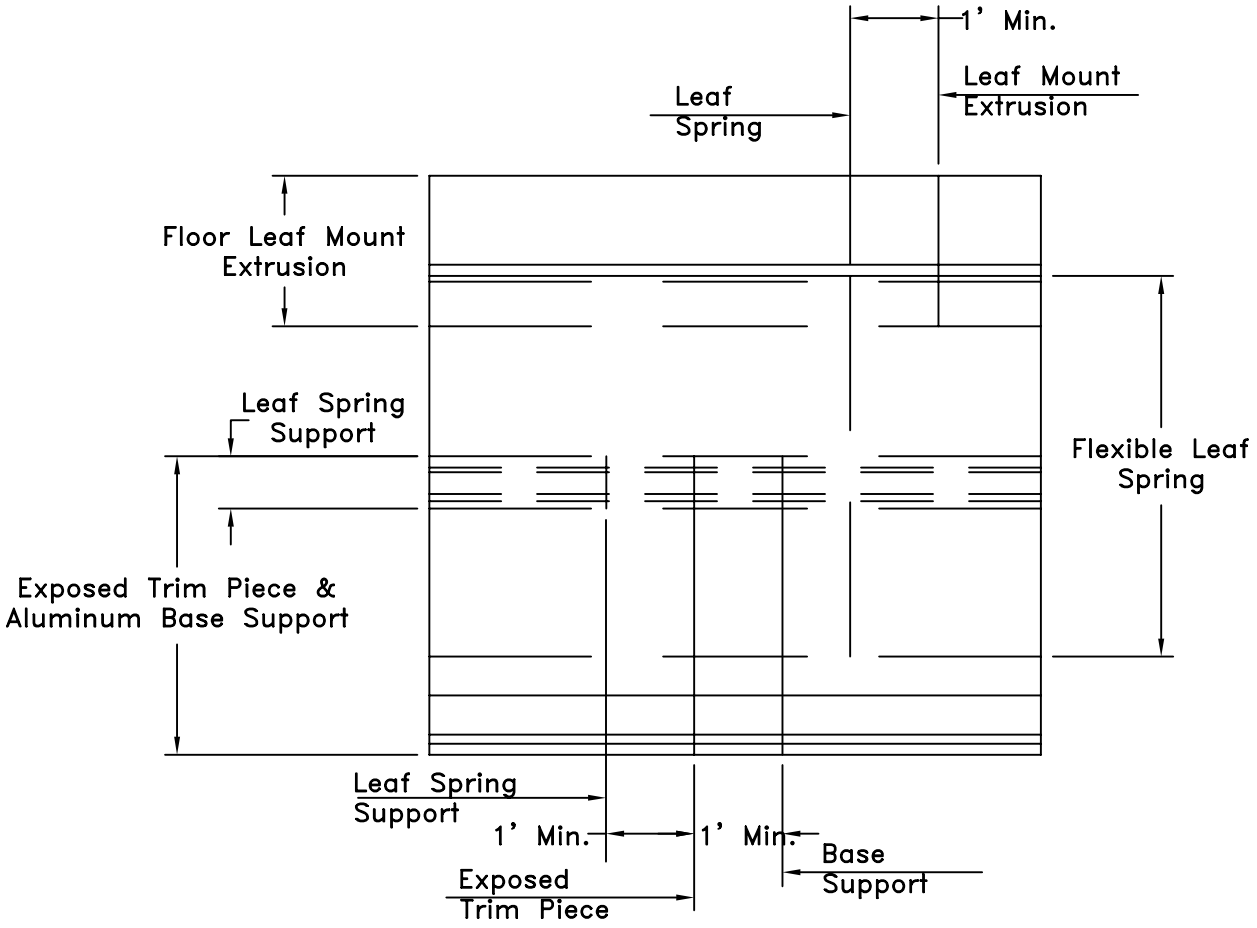


4 Floor – Slide spring support into proper slot of Aluminum base member. Adjust it according to the detail above depending on floor covering being used. Then utilizing manufacturers anchors , mount and secure Aluminum base Extrusion and Aluminum Floor Leaf Mount Extrusion to Concrete Slab.

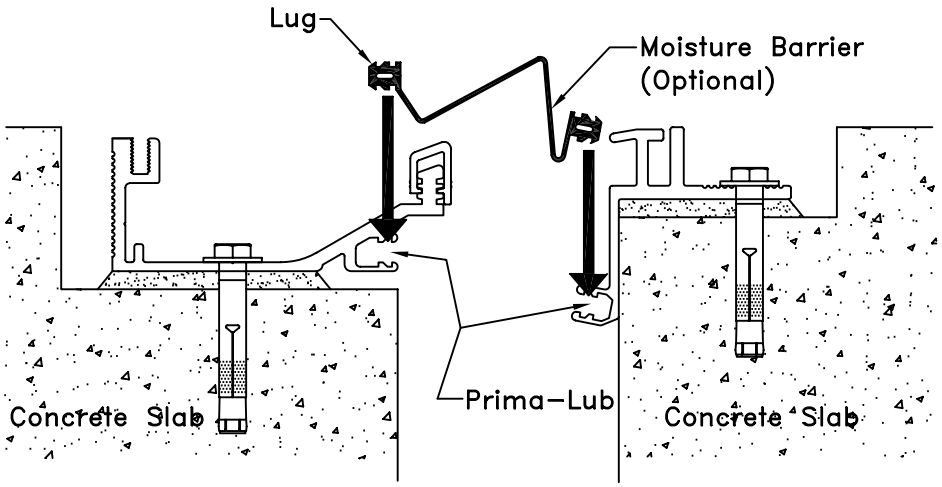
Corner Condition



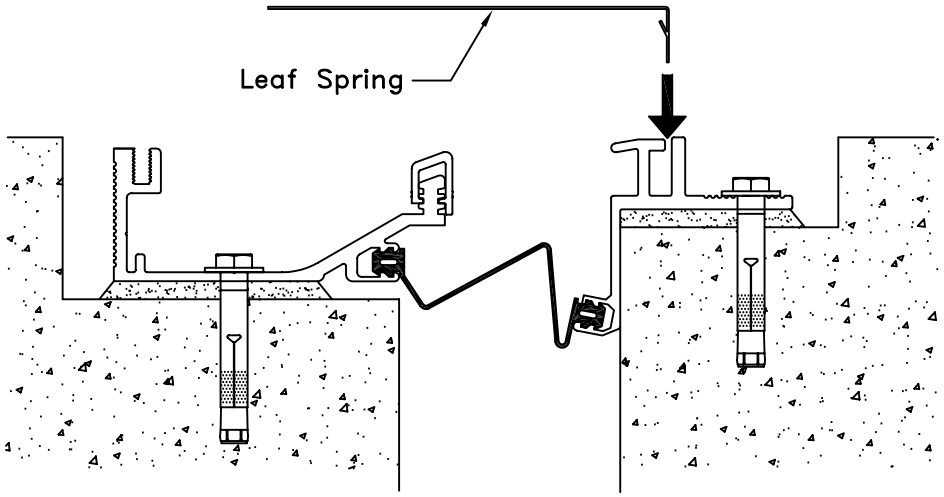
4A Corner – Slide spring support into proper slot of Aluminum base member. Adjust it according to the detail above depending on floor covering being used. Then utilizing manufacturers anchors , mount and secure Aluminum base Extrusion and Aluminum Floor Leaf Mount Extrusion to Concrete Slab.



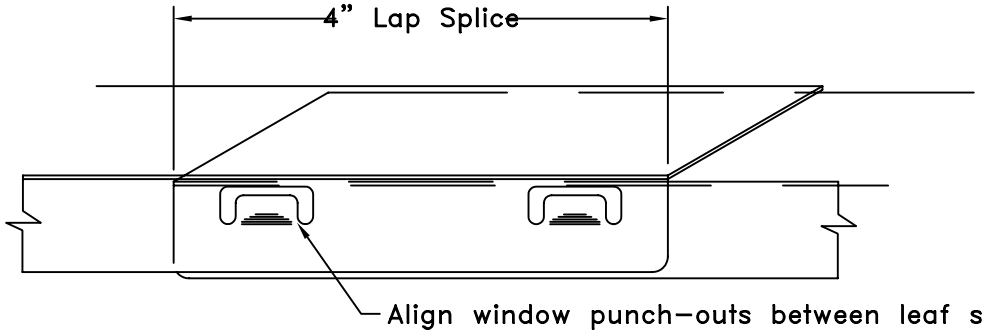
5 Stagger all splices in accordance with detail illustrated above to provide a stronger assembly and durable installation.



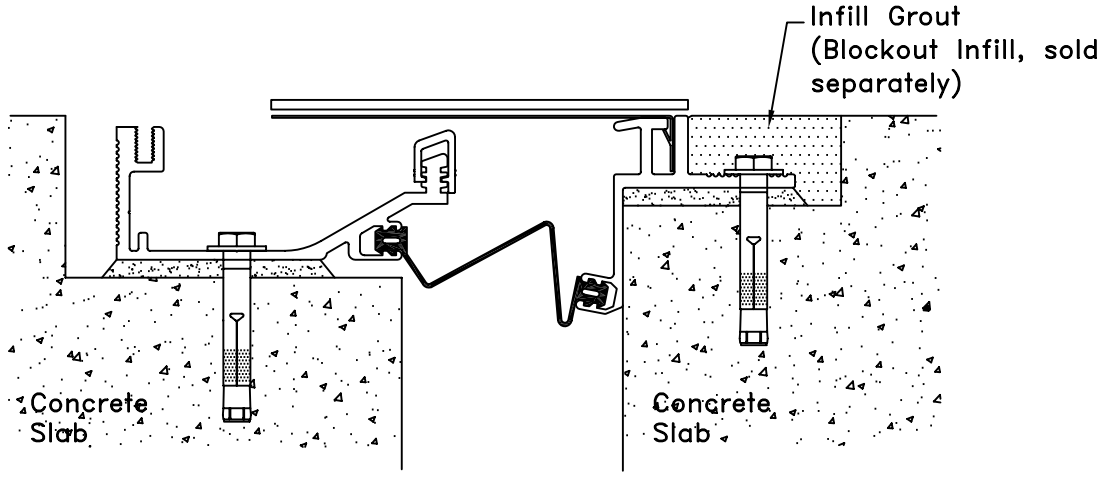
6 (Optional)
Brush apply prima-lub adhesive into extrusion cavity and install moisture barrier exercising care not to damage moisture barrier,ensure full engagement of locking lug.



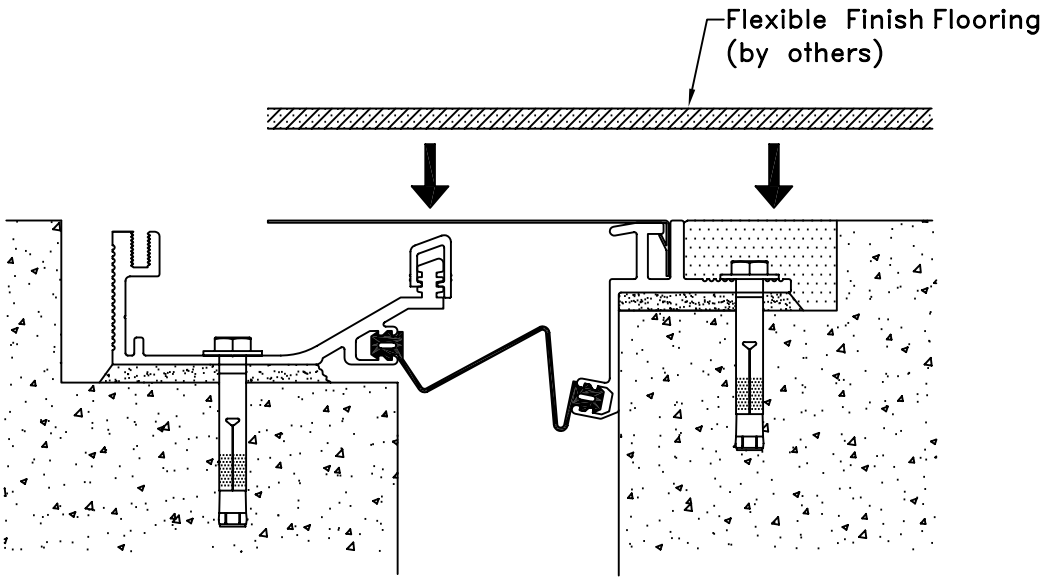
7 Snap leaf spring into leaf mount extrusion. Ensure top surface of leaf mount extrusion is flush with top surface of leaf spring.



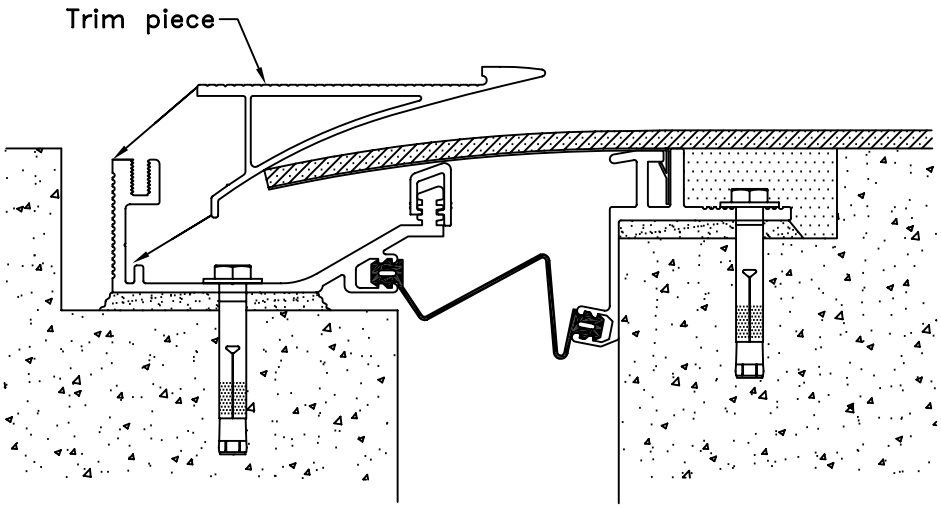
8 Stagger all splices in accordance with detail illustrated above to provide a stronger assembly and durable installation.



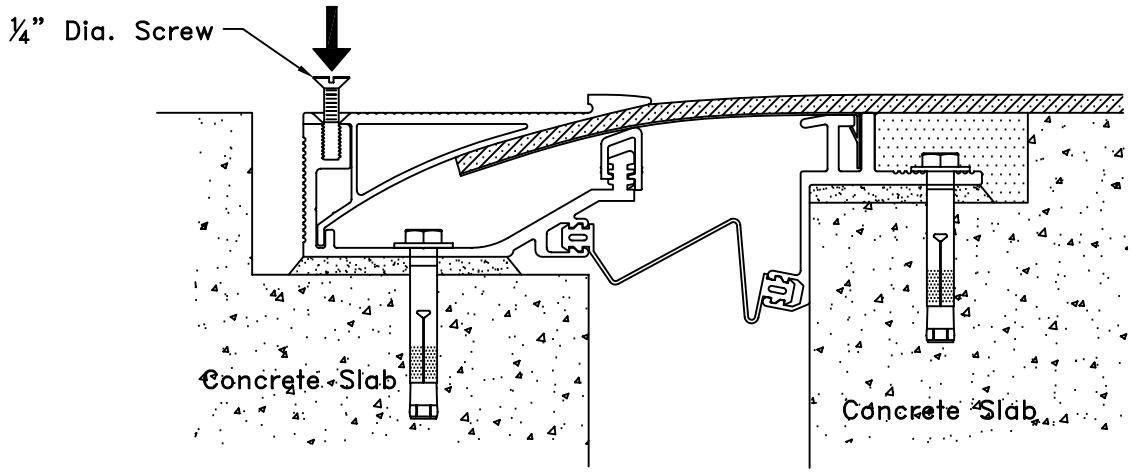
9 Install Grout into blockout on Leaf Spring Side after Leaf Spring and anchors have been installed.
Note: Protect surfaces during placement of blockout infill.



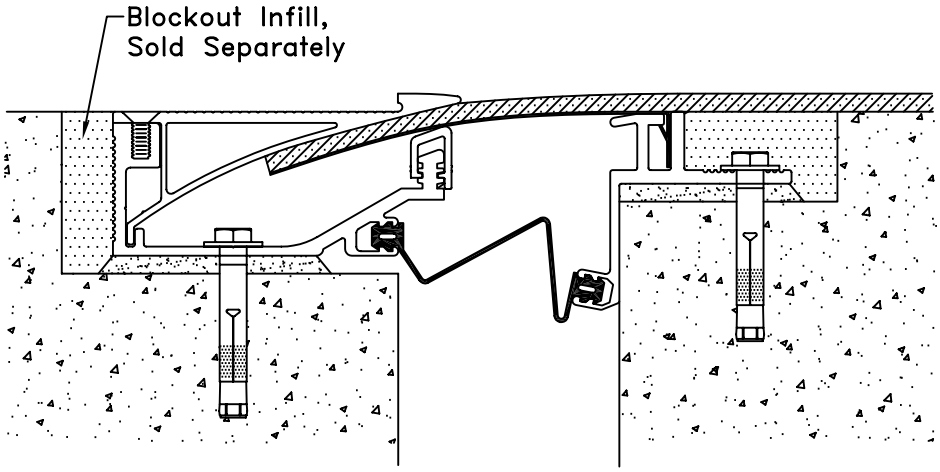
10 Install flooring material on leaf spring side ONLY.
Note: Follow flooring manufacturers application procedures for proper installation of flooring material. Prepare leaf spring for carpet tape or adhesive as recommended by flooring manufacturer.



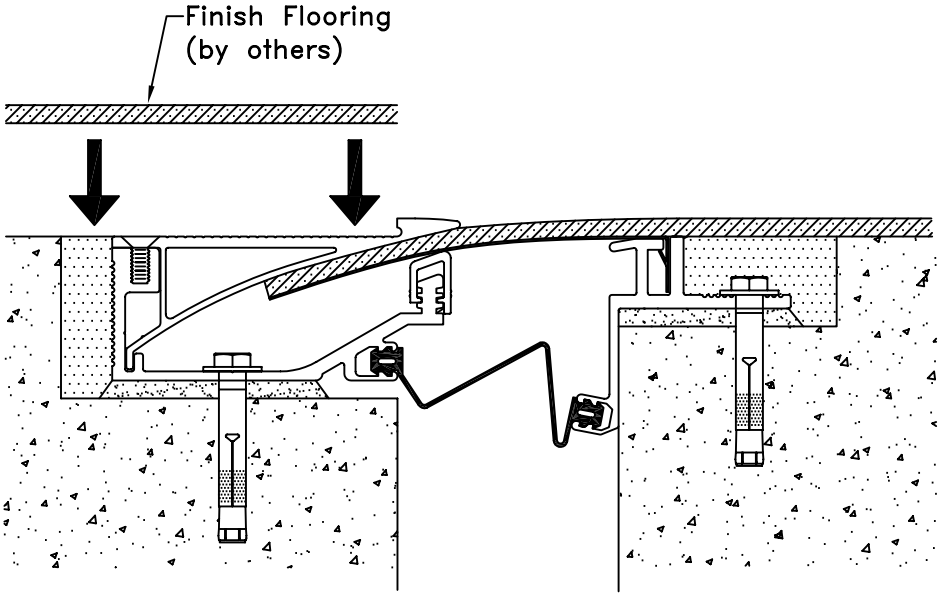
11 Slide trim piece into place, pushing down on the leaf spring as shown.



12 Maintain pressure on trim piece. Fasten trim piece to base extrusion utilizing ¼" dia csk machine screw until flush with surface.



13 Install Grout into blockout on the base support side.
Note: Protect surfaces during placement of blockout infill.



14 Finish installing flooring material on trim piece, following flooring manufacturers application procedures for proper installation of flooring material.

Erie Metal Specialties, Inc.
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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) "EFLC", "EFLC-W"

Seismic Expansion Control Systems

PART 1 - GENERAL

A.01 Work Included

A. The work shall consist of furnishing and installing expansion joints in accordance with the details shown on the plans and the requirements of the specifications. The joints are proprietary designs utilizing extruded profiles, elastomeric seals and preformed shapes.

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 products in manufacturer's original, intact, labeled containers 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 .

A. 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.

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.

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- 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 floor construction that is specific to the project. Typical catalog cut sections will not be considered.

A Verifiable list of prior installations showing prior and successful experience with the proposed Systems.

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

1.05 Quality Assurance

A. Warranty: The expansion control system's performance shall be warranted for a period of 1 year. 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.

B. Manufacturer: Shall have a minimum ten (10) years experience specializing in the design and manufacture of Architectural Expansion Control Systems.

C. Products: Expansion control systems must be installed with manufacturer's blockout repair and infill material(s).

B. Maintenance: The manufacturer shall provide the owner-operator a preventive maintenance guideline for Expansion Control Systems

PART 2 - PRODUCT

2.01 General

A. Provide seismic joint system that incorporates a flexible stainless steel leaf spring that is mechanically snap locked into the leaf mount extrusion using no fasteners. The system shall be capable of accommodating flexible finish floor materials up to 3/8 inch by utilizing an adjustable leaf spring support. The system shall show no visible aluminum surfaces except for that of a narrow trim strip extending across the finish floor or wall surface. Throughout the normal thermal movement cycle the system shall be capable of vertical displacement while providing a smooth transition particularly at walking surfaces between opposing floor slabs. (Leaf spring and trim strip profile features that do not provide a smooth transition across the joint opening will not be considered).

B. Furnish Erie Metal Specialties, Expansion Control System Model "EFLC" for interior floors as indicated on drawings.

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2.02 Components and Materials

A. Leaf Spring - Material shall conform to A.I.S.I. 301 Stainless Steel. Spring shall be tempered and secured to the retainer by a snap, lock fit. Mechanical attachments to secure the spring element or rotation of the same during movement will not be permitted.

B. Exposed Trim Strip Extrusion - Material shall conform to properties of ASTM B221, Aluminum Alloy 6063-T6. The profile shall exhibit a visible exposed finish strip not exceeding 7/8 inch in width and provide a smooth angular sloping leg that guides the leaf spring during movement cycles. The profile shall be snapped into the base extrusion by appropriate locking features and a continuous threaded channel utilizing manufacturers recommended hardware.

C. Floor Base Extrusion - Material shall conform to properties of ASTM B221, Aluminum Alloy 6063-T6. The profile shall exhibit a vertical pillar incorporating pre-engineered slot locations to receive the adjustable leaf spring support.

D. Adjustable Leaf Spring Support - Material shall conform to properties of ASTM B221, Aluminum Alloy 6063-T6. The profile shall exhibit a sloped top surface with a minimum width of 1/2 inch to receive and support the leaf spring. The profile shall have the capability of accommodating flexible finish floor material thickness' ranging from .080" to .375" by its attachment to the corresponding slot location on the floor base extrusion.

E. Leaf Mount Extrusion - Material shall conform to properties of ASTM B221, Aluminum Alloy 6063-T6. The profile shall exhibit a semi-closed rectangular cavity designed to receive and lock the leaf spring into position without the use of fasteners. Profiles that utilize fasteners and promote rotation of the spring element will not be permitted.

F. Moisture Barrier - Material shall be flame retardant, extruded PVC in accordance with ASTM D412. Durometer 60± 5. The profile shall be designed with side lugs that ensure a snap lock fit into a corresponding aluminum cavity.

G. Anchors - Provide 3/8" diameter by 2-1/4" LG Zinc plated hex head concrete expansion anchor with washer. At wall mounted aluminum profiles utilize 1/4" diameter anchors. Spacing shall be 18" o.c. maximum.

H. Accessories - Provide necessary and related parts and fasteners required for complete installation.

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I. Block-out Repair - Utilize manufacturer's single component rapid strength repair mortar meeting the following data requirements.

Compressive strength, psi (ASTM C 109)

2 hours	1,500
24 hours	4,500
7 days	8,000
28 days	9,000

J. Blockout Infill - Utilize manufacturer's non-catalyzed, non-shrink grout containing mineral aggregate meeting the following data requirements.

Compressive strength at plastic consistency, psi

3 days	6,000
7 days	7,000
28 days	8,500

2.03 Fabrication

A. Aluminum extrusions and stainless steel leaf springs to be shipped in standard 10 ft. lengths and shall be cut to length on jobsite where required. Extrusions shall be miter cut in the field to conform to directional changes unless otherwise contracted with expansion joint manufacturer.

B. Moisture Barrier seals shall be shipped in the longest practical continuous length in manufacturer's standard shipping carton.

C. Fire Barriers - Ship manufacturer's standard assembly including fire caulks, sealants (if applicable) and hardware for the required hourly rating with ends prepared for field splicing. Assemblies shall be miter cut in the field to accommodate changes in direction.

2.04 Finishes

A. Aluminum extrusions shall be supplied in standard mill finish.

PART 3 - EXECUTION

3.01 Installation

A. Install all Expansion Control Systems utilizing manufacturer's blockout repair and infill material(s).

Erie Metal Specialties, Inc.
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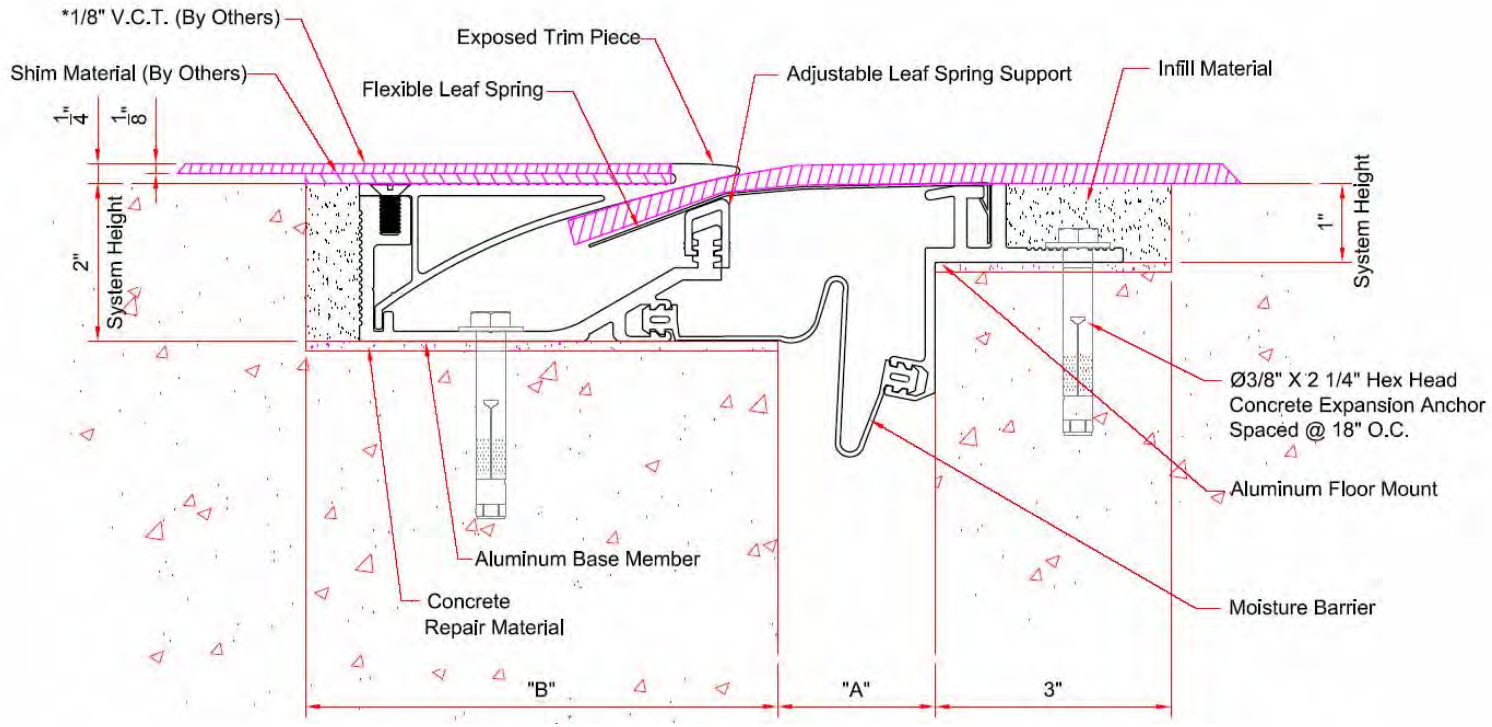
B. Protect all expansion joint component parts from damage during installation, placement of concrete and thereafter until completion of structure.

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.

3.02 Clean and Inspect

A. Upon completing installation the contractor shall clean all exposed metal surfaces with a suitable cleaner that will not harm or attack the finish. Inspect for any damage that may have resulted from other work or building trades.



( ) - Denotes Millimeters

* Architect To Verify Flexibility Of Tile With Flooring Manufacturer

DIMENSION CHART						
MODEL	SYSTEM HEIGHT	A			B	TOTAL MOVEMENT
		AT INSTALL	ALLOW MIN	ALLOW MAX		
EFLC-100	2”(51)	1”(25)	5/8”(16)	1 5/8”(41)	7”(178)	1”(25)
EFLC-200	2”(51)	2”(51)	1”(25)	3”(76)	6”(152)	2”(51)
EFLC-400	2”(51)	4”(102)	2”(51)	6”(152)	4”(102)	4”(102)

NO.	Description	Date	By

ERIE METAL SPECIALTIES

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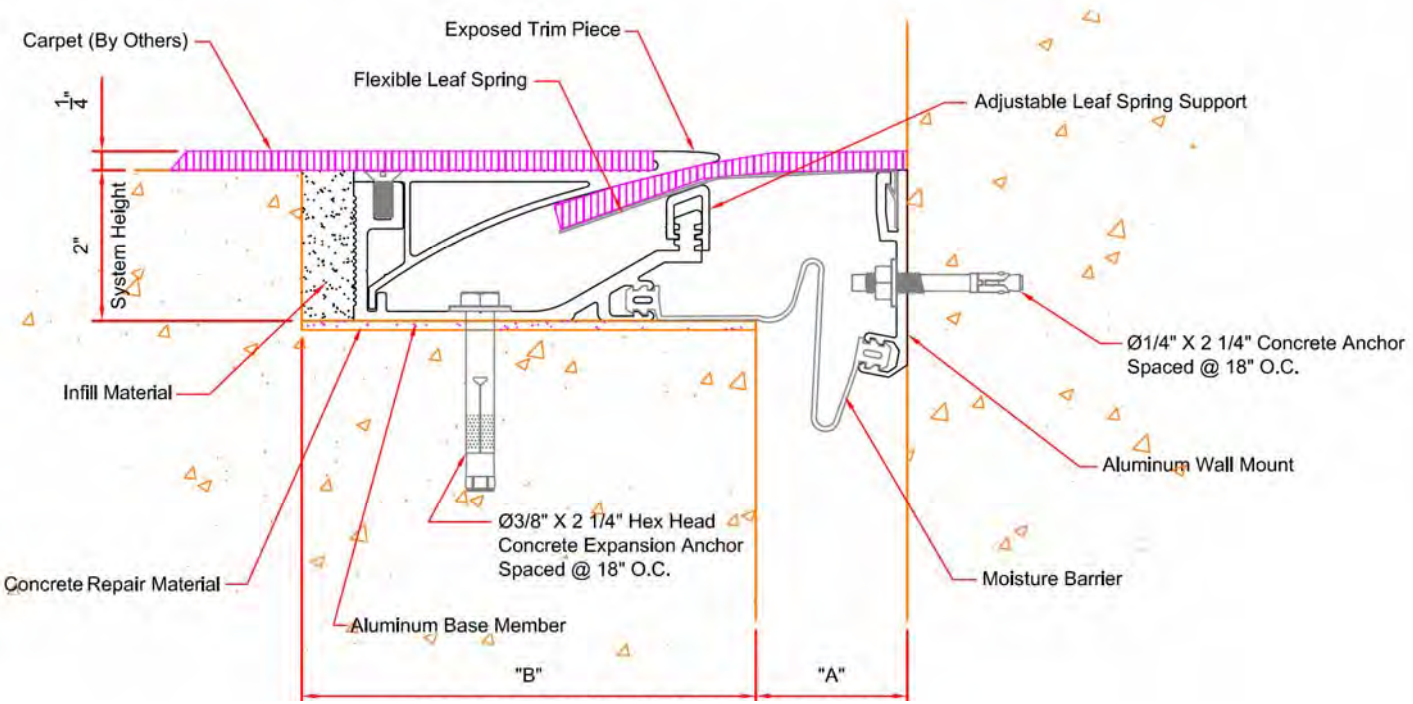
PROJECT:

TITLE:

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



( ) - Denotes Millimeters

DIMENSION CHART						
MODEL	SYSTEM HEIGHT	A			B	TOTAL MOVEMENT
		AT INSTALL	ALLOW MIN	ALLOW MAX		
EFLC-100W	2”(51)	1”(25)	5/8”(16)	1 5/8”(41)	7”(178)	1”(25)
EFLC-200W	2”(51)	2”(51)	1”(25)	3”(76)	6”(152)	2”(51)
EFLC-400W	2”(51)	4”(102)	2”(51)	6”(152)	4”(102)	4”(102)

NO.			

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