



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:

ELCFS Series - Top Mount Application

FEATURES

COMPLEMENTARY SEAL COLORS Available in four elastomeric colors: beige, white, gray or black.

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

DETAILS

MATERIAL

6063-T5 Aluminum, Meets ASTB B221 & Santoprene

FINISH Mill

MOVEMENT

- Thermal: Horizontal

MOUNTING Surface

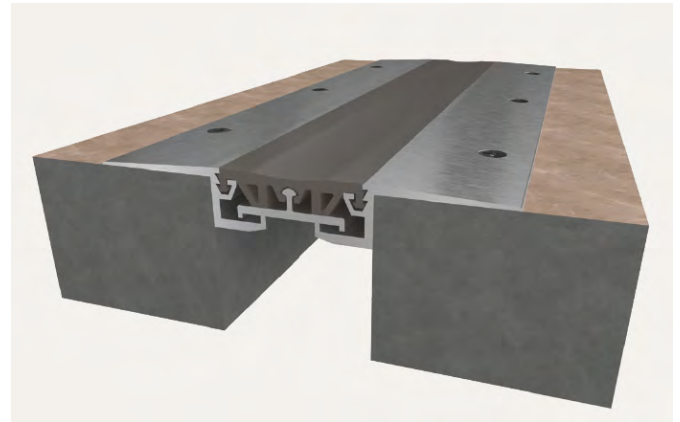
JOINT SIZE 1 inch to 3 inches

LENGTH 10 Linear Feet

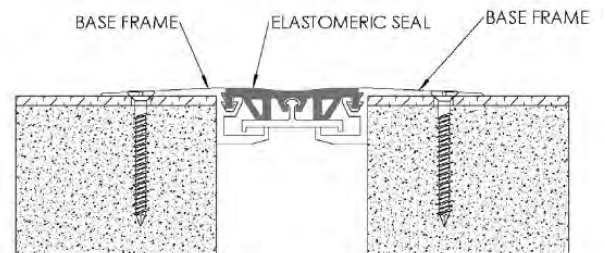
LOAD Pedestrian and Light Cart

INSTALLATION Floor

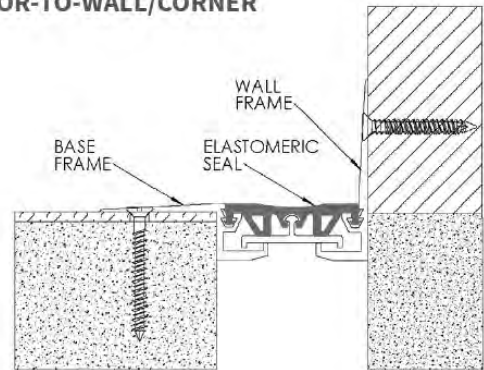
OPTIONS Moisture barrier, fire barrier and additional materials, sizes and finishes upon request



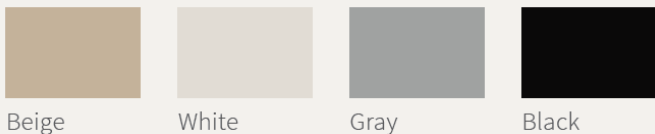
FLOOR-TO-FLOOR



FLOOR-TO-WALL/CORNER



SEAL COLORS



MODELS

MODEL	APPLICATION	JOINT SIZE AT MEAN T°F	EXPOSED SIGHT LINE	TOTAL MOVEMENT
ELCFS-100	Floor to Floor	1" (25mm)	4" (102mm)	.5" (13mm)
ELCFS-200	Floor to Floor	2" (51mm)	5" (127mm)	1" (25mm)
ELCFS-300	Floor to Floor	3" (76mm)	6" (152mm)	1.02" (26mm)
ELCFS-100W	Floor to Wall	1" (25mm)	2.5" (64mm)	.5" (13mm)
ELCFS-200W	Floor to Wall	2" (51mm)	3.5" (89mm)	1" (25mm)
ELCFS-300W	Floor to Wall	3" (76mm)	4.5" (114mm)	1.02" (26mm)

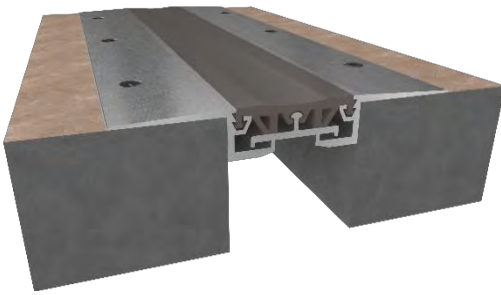


ELCFS-Series Installation Instructions

ELASTOMERIC System – TOP MOUNT

MODEL(S): ELCFS/ELCFSw

ELCFS Floor to Floor Cover System



GENERAL DESCRIPTION

The ELCFS-Series Top Mount system is designed for mounting directly over the expansion joint on top of the flooring material. The beveled edge provides a smooth transition walking surface.

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 their replacement cost.
- Read the instructions thoroughly before beginning installation.

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
- Adhesive glue

Included with the expansion joint system:

- 3/16” x 1-3/4” Tapcon fastener

Pre-Installation

1. Ensure that the area where the expansion joint system is being installed is smooth and level. High spots should be ground down and low spots filled in.

INSTALLATION

1. Position base member frames in expansion joint per shop drawings. Using the frames as a template, mark and drill 3/16” holes into the finish floor and concrete. Install base member frames with supplied Tapcon fasteners, making sure not to over tighten.

See Figure 1

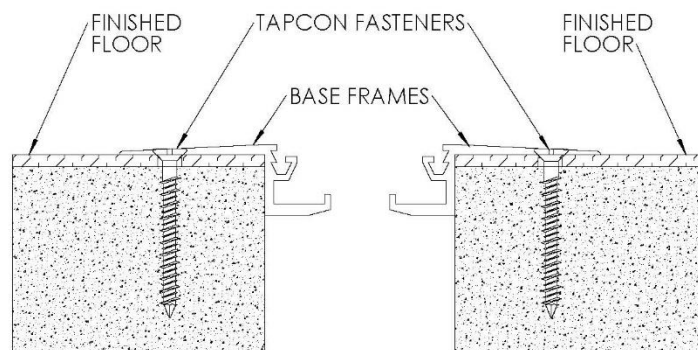


FIGURE 1

2. Place slide plate (not required on 1” joint sizes) in the lower channels of the base frames with the bent ends of the plate pointing downwards. **See Figure 2**

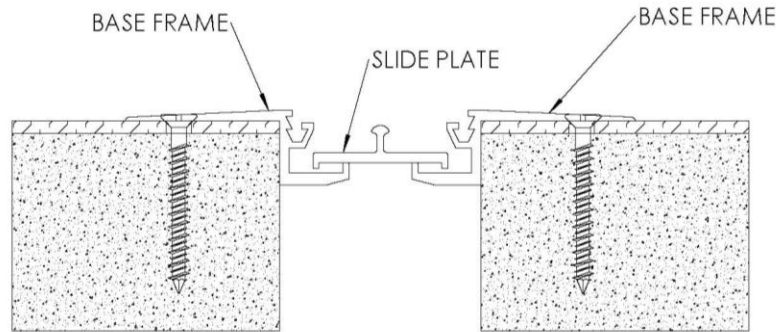


FIGURE 2

3. Position the elastomeric seal into position and push the seal bulbs into the base frame top channels as shown. Make sure the bulbs are seated all the way into the channel. Also, make sure the bottom center channel in the seal is pushed over the protrusion on the slide plate (not required on 1” joint sizes). **See Figure 3**

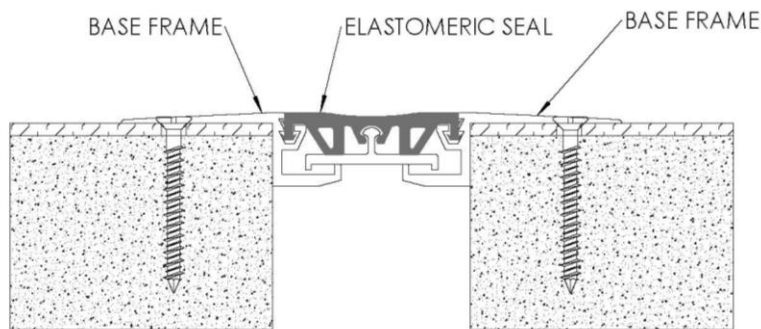
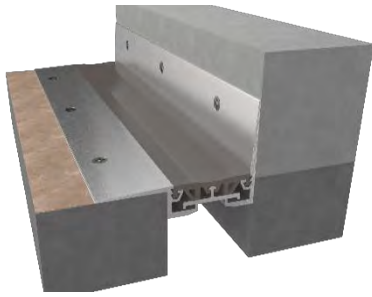


FIGURE 3

ELCFSw Floor to Wall Cover System



GENERAL DESCRIPTION

EMS' ELCFSw Interior Cover System is designed to match the ELCFS cover plate in floor to wall applications.

Included with the expansion joint system:

- 3/16" x 1-3/4" Tapcon fastener

Preinstallation

1. Ensure that the area where the expansion joint system is being installed is smooth and level. High spots should be ground down and low spots filled in.

INSTALLATION

1. Position base member frame in expansion joint per shop drawings. Using the frame as a template, mark and drill 3/16" holes in the concrete. Install base member frame with supplied Tapcon fasteners, making sure not to over tighten. **See Figure 1**

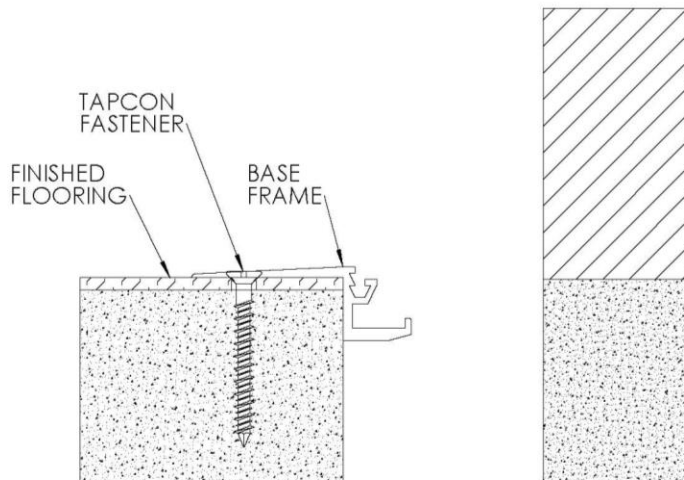


FIGURE 1

2. Position the wall frame into position, making sure the top channel is level with the top channel of the base frame. Attach the wall frame to the wall with appropriate fasteners (by others) for the wall type 18" o.c. **See Figure 2**

Interior Joints (Floor)

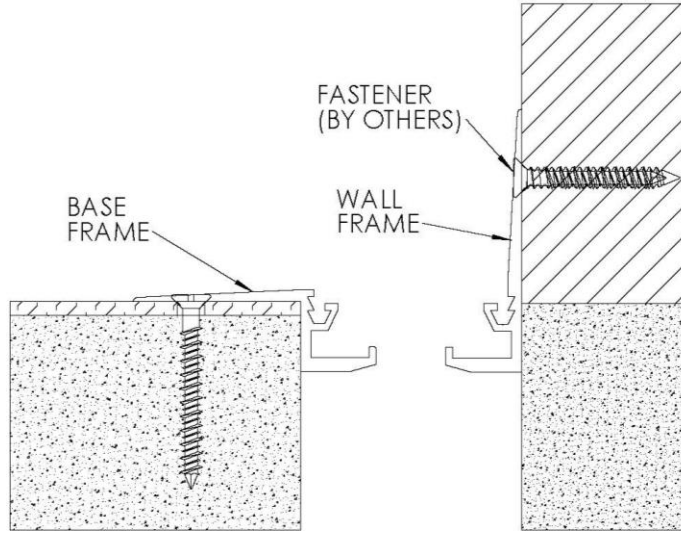


FIGURE 2

3. Place slide plate (not required on 1" joint sizes) in the lower channel of the base frame and wall frame with the bent ends of the plate pointing downwards. **See Figure 3**

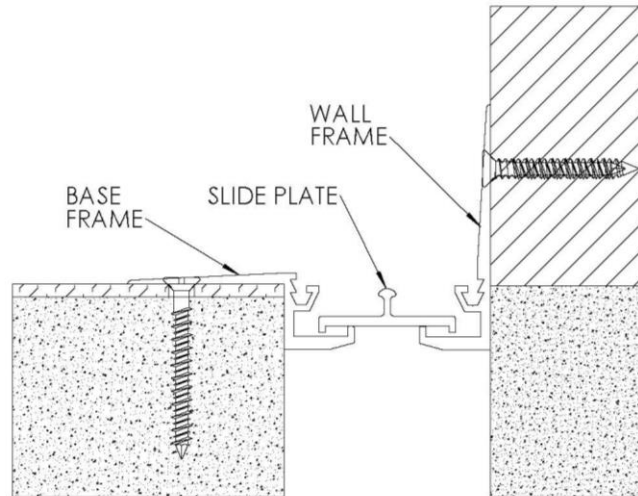


FIGURE 3



4. Position the elastomeric seal into position and push the seal bulbs into the base frame and wall frame top channels as shown. Make sure the bulbs are seated all the way into the channel. Also, make sure the bottom center channel in the seal is pushed over the protrusion on the slide plate (not required on 1” joint sizes). **See Figure 4**

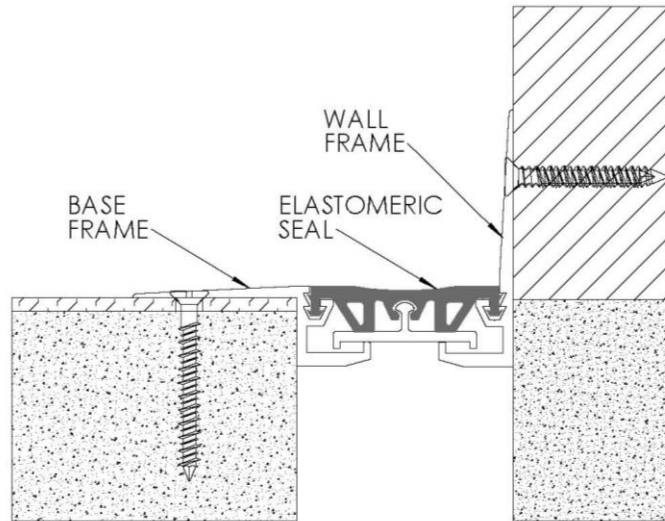


FIGURE 4

FIELD SPLICE FOR FLAT ELASTOMERIC SEAL

1. Determine the angle needed and cut ends of seal in a miter box with a sharp, non-serrated knife. **See Figure 1**

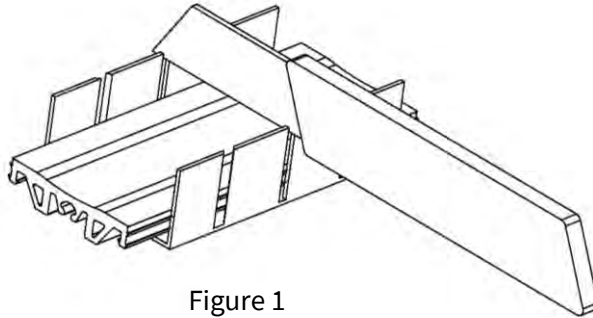


Figure 1

2. Using a solvent (by others) that is safe for elastomeric materials clean the ends of the seals. **See Figure 2**

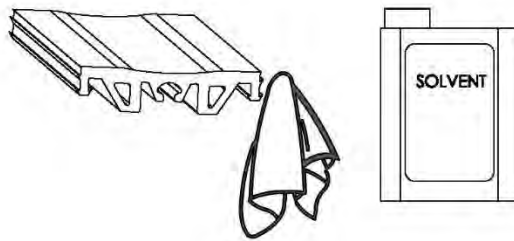


Figure 2

3. Apply a super glue, cyanoacrylate type (non-gel) or similar adhesive (by others) and follow instructions by the adhesive manufacturer. **See Figure 3**

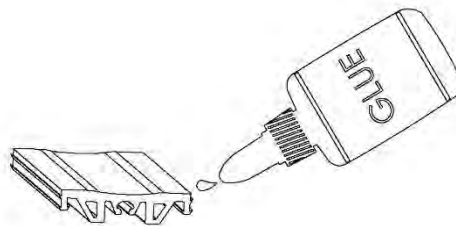


Figure 3

4. Check the splices after the adhesive has cured and reapply adhesive as necessary. Allow 15 minutes prior to installing seal. It typically takes 24 hours for adhesive to fully cure and achieve proper working strength. Ensure that the splice of the seal is not within 2” of a joint in the aluminum extrusion. **See Figure 4**

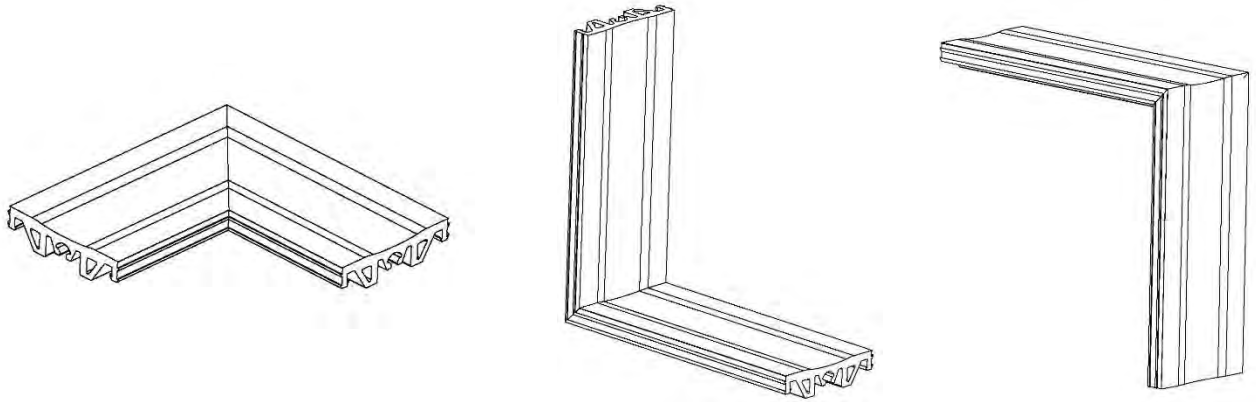


Figure 4



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13311 Main Road
Akron, NY 14001
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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) "ELCF", "ELCFC", "ELCFS", "ELCFT"

Horizontal Expansion Control Systems

PART 1 - GENERAL

1.01 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 elastomeric seals, base members and support plates.
- 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 expansion 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 each 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 .
- 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 specified.



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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 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.

PART 2 - PRODUCT

2.01 General

- A. Provide a low-profile expansion joint system that has been designed to accommodate new or existing construction. Incorporate a colorable elastomeric seal that demonstrates ability to remain flat during normal movement cycles. Provide a complete system that exhibits a flush transition between opposing slabs and adjacent finish floor surfaces that complies with ADA guidelines.

Furnish EMS Inc., Low Profile-Floor (Model "ELCF"), Plaza (Model "ELCFS") carpet (Model "ELCFC") or tile (Model "ELCFT") Expansion Control System for interior floors as indicated on drawings.

2.02 Components and Materials

- A. Aluminum Extrusions - Design low height profile with cavity to receive locking lug of elastomeric profile. Provide alternate profiles for concrete slabs with and without blockouts. Where surface mounted profiles are utilized, provide non-slip walking surface designed with a tapered edge to meet the finish floor surface. Material to conform to properties of ASTM B221, alloy 6061-T6 or 6063 T-5.
- B. Aluminum Shapes - Material to conform to ASTM B209, alloy 6061-T6 or 5005-H34.
- C. Elastomeric Seals - Material shall be a flexible extruded Santoprene or manufacturer's alternate material exhibiting a shore A hardness of 64 +/- 5 with U.V. stabilizer. Provide multi-cellular profile with internal webs that form a truss-like structure that transfers service loads to adjacent aluminum extrusions without the need for support plates. The profile shall be flexible and exhibit a non-slip exposed surface that remains flat during normal movement cycles.



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- D. Anchorage - Provide 1/4" (#12) diameter x 1 3/4" lg. (min.) threaded concrete anchor. Style of anchor and head configuration will be determined by type of extrusion profile utilized. Spacing shall be 24" c.c. maximum for block out condition and 24" c.c. for surface mounted profiles without block outs.
- E. Accessories - Provide necessary and related parts required for complete installation. Where project requirements dictate watertight performance, utilize manufacturer's standard adhesives and bedding compounds to install the system's components.
- F. Block out Repair (recommended) - Utilize 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

- G. Block out Infill (recommended) - Utilize a 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

- H. 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 in accordance with ASTM E-119 at full rated period by a nationally recognized testing and inspecting organization. Supply Fire Barrier as governed by joint opening and fire rating.

2.03 Fabrication

- A. Aluminum extrusions to be shipped in standard 10ft. 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. Anchor holes shall be shop drilled in accordance with manufacturer's drawings.



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- C. Elastomeric seals shall be shipped in the longest practical continuous length in manufacturer's standard shipping carton.
- D. Fire Barriers - Ship manufacturer's standard assembly for the required hourly rating. 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.
- B. Elastomeric seal shall be supplied in standard color offering: black, beige or gray. Optional custom colors available. Select from manufacturers standard color offering.
- C. Surfaces of aluminum extrusions that will be in direct contact with concrete where moisture is present shall receive manufacturer's recommended coating.

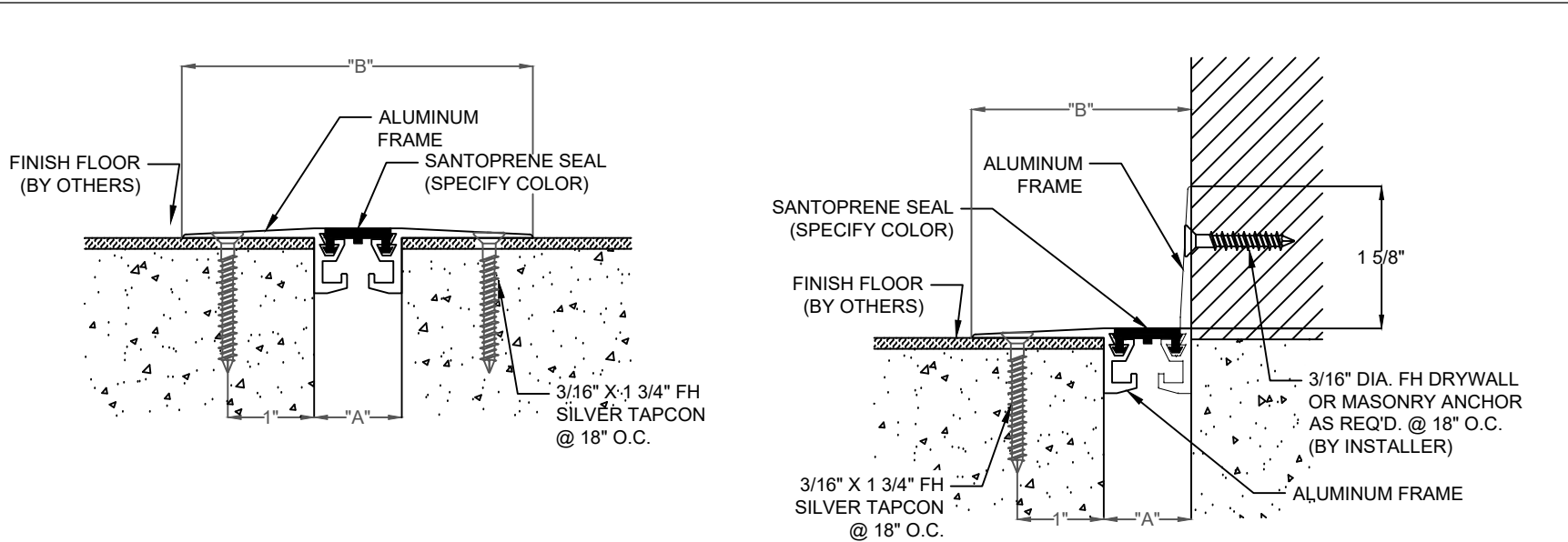
PART 3 - EXECUTION

3.01 Installation

- A. Protect all expansion joint component parts from damage during installation of flooring materials, work in adjacent areas and thereafter until completion of structure.
- B. 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.
- C. 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 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 elastomeric material or metal finishes.



SEAL COLOR SELECTOR
 BLACK _____ WHITE _____
 BEIGE _____ GRAY _____

FLOOR - FLOOR/WALL SURFACE MOUNT SYSTEM

EXPOSED FINISH: MILL
 MOVEMENT: +/- 25% JOINT WIDTH
 STOCK LENGTHS: 10'-0"

PRODUCT	Application	Joint Size "A" @ Mean T°F	Exposed Site line "B" IN(MM)	Total Movement IN (MM)
ELCFS-100	Floor-Floor	1.00" (25)	4.00" (102)	0.50" (13)
ELCFS-100W	Floor-Wall	1.00" (25)	2.50" (64)	0.50" (13)

NO.	Description	Date	By
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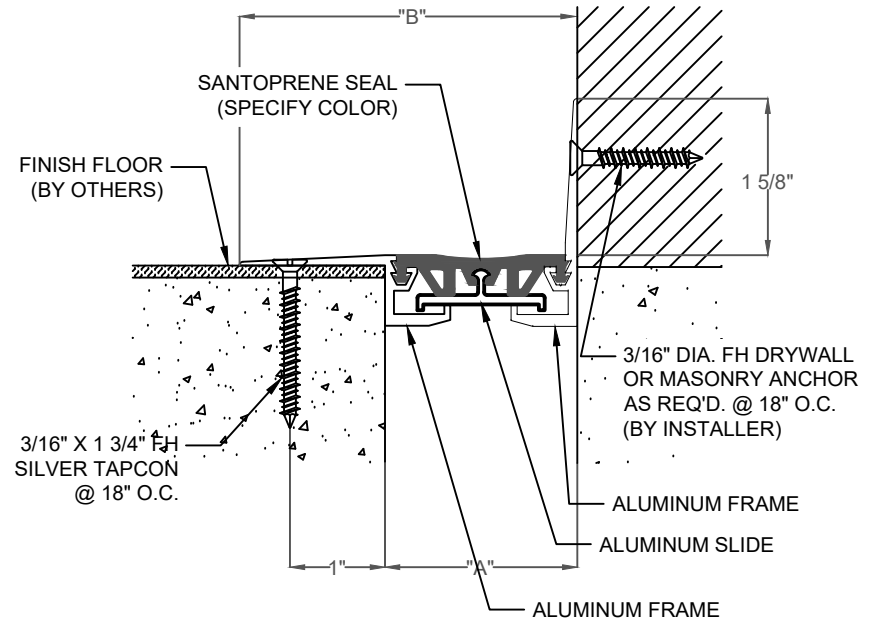
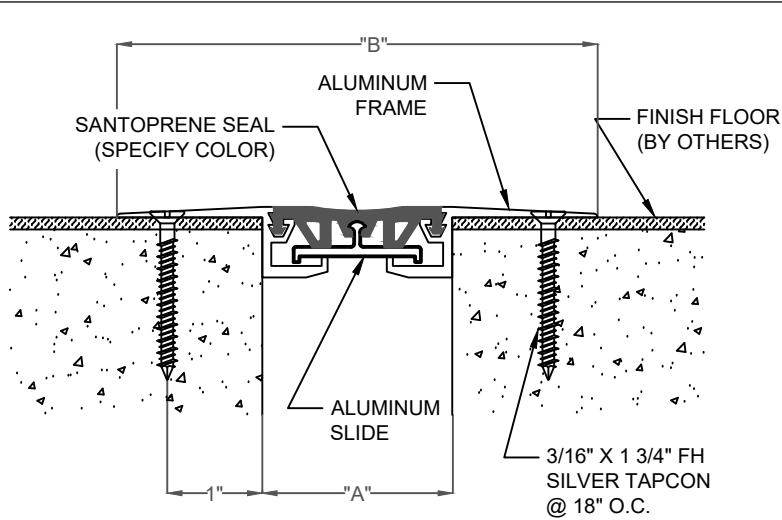


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PROJECT: _____

TITLE: ELCFS-100/100W

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.: ELCFS-1



SEAL COLOR SELECTOR			
BLACK	_____	WHITE	_____
BEIGE	_____	GRAY	_____

FLOOR - FLOOR/WALL SURFACE MOUNT SYSTEM

EXPOSED FINISH: MILL
 MOVEMENT: +/- 25% JOINT WIDTH
 STOCK LENGTHS: 10'-0"

PRODUCT	Application	Joint Size "A" @ Mean T°F	Exposed Site line "B" IN(MM)	Total Movement IN (MM)
ELCFS-200	Floor-Floor	2.00" (51)	5.00" (127)	1.00" (25)
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ELCFS-200W	Floor-Wall	2.00" (51)	3.50" (89)	1.00" (25)
ELCFS-300W	Floor-Wall	3.00" (76)	4.50" (114)	1.02" (26)

NO.	Description	Date	By
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PROJECT: _____

TITLE: ELCFS-200/200W, 300/300W

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