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: ESFC-Series Seismic Top Plate Block Out Flooring System

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

Address: 13311 Main Road, Akron, NY 14001

Trade Name: ESFC-Series Model No.: ESFC

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: _____

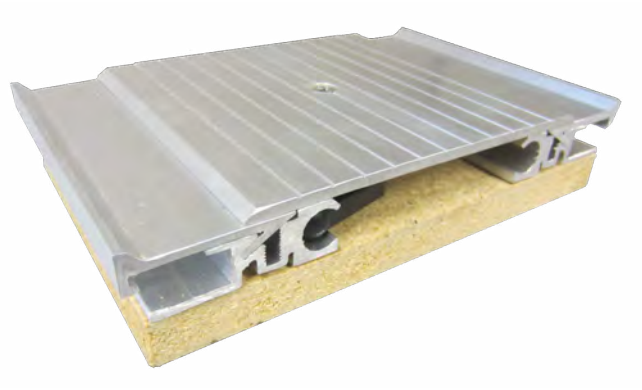
Additional Comments: ☐ Contractor ☐ Subcontractor ☐ Supplier ☐ Manufacturer ☐ A/E ☐ Other:

Form Version: June 2004
CSI Form 13.1A

ESFG/E/C/P Series Seismic System

Interior Joints (Floor)

The Architectural Seismic System is designed to cover expansion control openings in structural, high movement floor joints, when standard aluminum is acceptable.

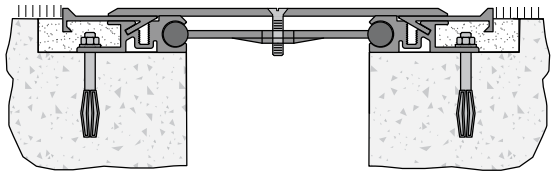


FEATURES

SEISMIC TECHNOLOGY The cover plate stays centered over openings before, during and after a seismic event with the use of the seismic centering bar.

ANTI-SLIP SURFACE Designed with serrations to create an anti-slip surface.

ADA COMPLIANT Heavy-duty loading requirements are met while maintaining a smooth ADA compliant transition.



Floor-to-Floor

DETAILS

MATERIAL 6063-T6 Aluminum

FINISH Mill

MOVEMENT

- Thermal: Horizontal and Vertical
- Seismic: Lateral Shear

MOUNTING Block Out

JOINT SIZE 2 inches to 24 inches

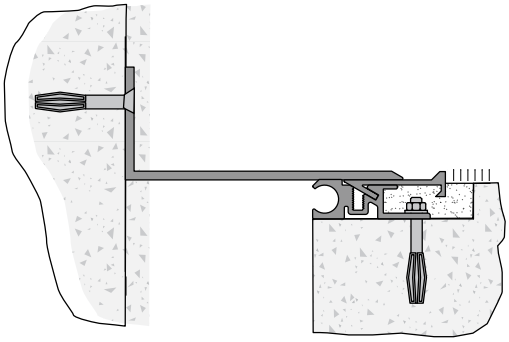
LENGTH 10 Linear Feet

APPLICATION Interior

LOAD Pedestrian and Light Cart

INSTALLATION Floor

OPTIONS Moisture Barrier, Fire Barrier



Floor-to-Wall/Corner

MODELS

FLOOR-TO-FLOOR

MODEL	JOINT SIZE AT MEAN T°F	SYSTEM WIDTH	TOTAL MOVEMENT
ESFG-200	2" (51mm)	5.75" (146mm)	2" (51mm)
ESFG-400	4" (102mm)	10.38" (264mm)	5" (127mm)
ESFG-600	6" (152mm)	13.75" (349mm)	8" (203mm)
ESFG-800	8" (203mm)	15.75" (400mm)	11" (279mm)
ESFG-1000	10" (254mm)	18.75" (476mm)	14" (356mm)
ESFG-1200	12" (305mm)	21.75" (552mm)	17" (432mm)
ESFG-1800	18" (457mm)	31.75" (806mm)	26" (660mm)
ESFG-2400	24" (610mm)	40.75" (1035mm)	35" (889mm)

FLOOR-TO-WALL/CORNER

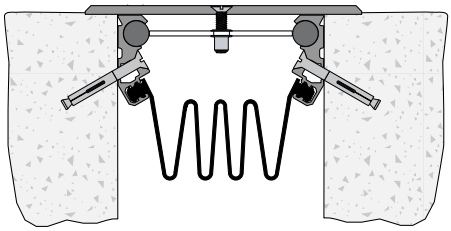
MODEL	JOINT SIZE AT MEAN T°F	SYSTEM WIDTH	TOTAL MOVEMENT
ESFG-200W	2" (51mm)	3.88" (99mm)	1.5" (38mm)
ESFG-400W	4" (102mm)	7.19" (183mm)	4" (102mm)
ESFG-600W	6" (152mm)	9.88" (251mm)	6.5" (165mm)
ESFG-800W	8" (203mm)	11.88" (302mm)	9" (229mm)
ESFG-1000W	10" (254mm)	14.38" (365mm)	11.5" (292mm)
ESFG-1200W	12" (305mm)	16.88" (429mm)	14" (356mm)
ESFG-1800W	18" (457mm)	24.88" (632mm)	21.5 (546mm)
ESFG-2400W	24" (610mm)	32.38" (822mm)	29" (737mm)

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

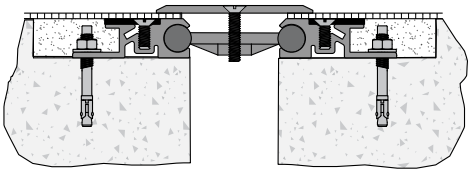
Phone: 716-542-3991
Website: www.eriemetal.com
E-Mail: sales@eriemetal.com

ESFG/E/C/P Series Seismic System (Cont.)

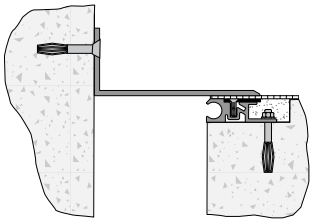
Interior Joints (Floor)



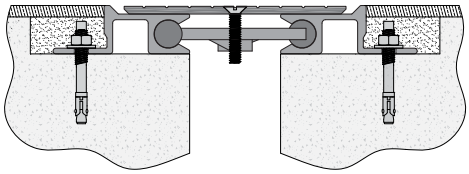
Floor-to-Floor
Model: ESFE



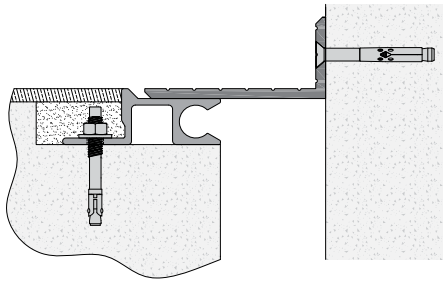
Floor-to-Floor
Model: ESFC



Floor-to-Wall/Corner
Model: ESFC/W



Floor-to-Floor
Model: ESFP



Floor-to-Wall/Corner
Model: ESFP/W

MODELS

MODEL	APPLICATION	JOINT SIZE AT MEAN T°F	SYSTEM WIDTH	TOTAL MOVEMENT
Surface Mount				
ESFE-400	Surface Mount	4" (102mm)	6.5" (165mm)	4" (102mm)
ESFE-600		6" (152mm)	9.5" (241mm)	7" (178mm)
ESFE-800		8" (203mm)	12.5" (318mm)	10" (254mm)
ESFE-1000		10" (254mm)	15.5" (394mm)	13" (330mm)
ESFE-1200		12" (305mm)	18.5" (470mm)	16" (406mm)
ESFE-1800		18" (457mm)	27.5" (699mm)	25" (635mm)
Top Plate				
ESFC-200	Block Out	2" (51mm)	3.5" (89mm)	2" (51mm)
ESFC-400		4" (102mm)	6.5" (165mm)	5" (127mm)
ESFC-600		6" (152mm)	9.5" (241mm)	8" (203mm)
ESFC-800		8" (203mm)	12.5" (318mm)	11" (279mm)
ESFC-1000		10" (254mm)	15.5" (394mm)	14" (356mm)
ESFC-1200		12" (305mm)	18.5" (470mm)	17" (432mm)
ESFC-1800		18" (457mm)	27.5" (699mm)	26" (660mm)
ESFC-2400		24" (610mm)	36.5" (927mm)	35" (889mm)
ESFC-200W	Block Out	2" (51mm)	2.75" (70mm)	1.5" (38mm)
ESFC-400W		4" (102mm)	5.25" (133mm)	4" (102mm)
ESFC-600W		6" (152mm)	7.75" (197mm)	6.5" (165mm)
ESFC-800W		8" (203mm)	10.25" (260mm)	9" (229mm)
ESFC-1000W		10" (254mm)	12.75" (324mm)	11.5" (292mm)
ESFC-1200W		12" (305mm)	15.25" (387mm)	14" (356mm)
ESFC-1800W		18" (457mm)	22.75" (578mm)	21.5" (546mm)
ESFC-2400W		24" (610mm)	30.25" (768mm)	29" (737mm)
Top Plate - No Bump System				
ESFP-200	Block Out	2" (51mm)	5.75" (146mm)	2" (51mm)
ESFP-300		3" (76mm)	7.75" (197mm)	5" (127mm)
ESFP-400		4" (102mm)	7.75" (197mm)	5" (127mm)
ESFP-500		5" (127mm)	11.75" (299mm)	8" (203mm)
ESFP-600		6" (152mm)	11.75" (299mm)	8" (203mm)
ESFP-800		8" (203mm)	15.19" (386mm)	11" (279mm)
ESFP-1000		10" (254mm)	17.81" (452mm)	14" (356mm)
ESFP-1200		12" (305mm)	20.81" (529mm)	17" (432mm)
ESFP-1800		18" (457mm)	30.19" (767mm)	26" (660mm)
ESFP-2400		24" (610mm)	37.19" (945mm)	34.5" (876mm)
ESFP-200W	Block Out	2" (51mm)	3.88" (98mm)	2" (51mm)
ESFP-300W		3" (76mm)	5.38" (137mm)	4" (102mm)
ESFP-400W		4" (102mm)	5.88" (149mm)	5" (127mm)
ESFP-500W		5" (127mm)	8.38" (213mm)	7" (178mm)
ESFP-600W		6" (152mm)	8.88" (225mm)	8" (203mm)
ESFP-800W		8" (203mm)	13.06" (332mm)	10.8" (273mm)
ESFP-100W0		10" (254mm)	13.94" (354mm)	12.8" (324mm)
ESFP-1200W		12" (305mm)	16.42" (417mm)	15.4" (390mm)
ESFP-1800W		18" (457mm)	24.09" (612mm)	23" (584mm)
ESFP-2400W		24" (610mm)	30.59" (777mm)	29.3" (743mm)

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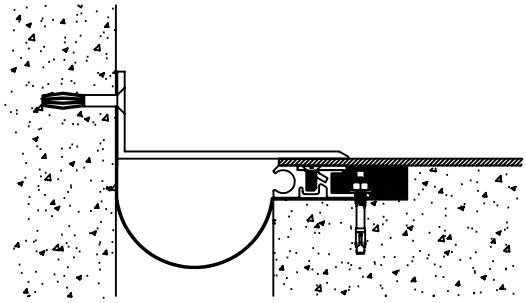
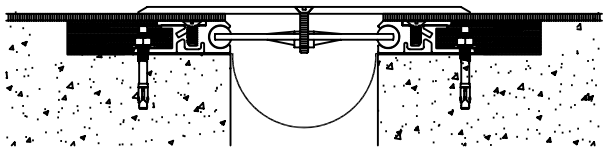
Floor to Wall



Floor to Floor



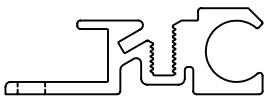
Seismic Floor Series
Model(s) ESFC
Horizontal Expansion Control Systems

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 systems 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.

PN: N20132

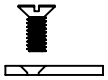
Standard Components



Aluminum base assembly
(P/N 15804)

1/4" x 1 1/4" CSK flat head
machine screw (P/N 5621)

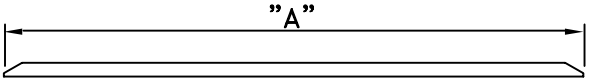
1/4" x 2 1/4" Hilti Kwik Bolt
with nut and washer
(P/N 6581)



Aluminum extension (P/N 12039B)
with 1/4" x 5/8" CSK flat head
machine screw (P/N 5620)

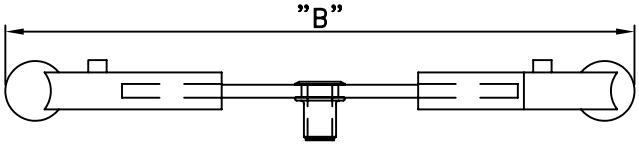
1/4" x 2" CSK flat head threaded
concrete anchor (P/N 5621)
(Corner Condition Only)

Components shown below vary in size depending on model of system



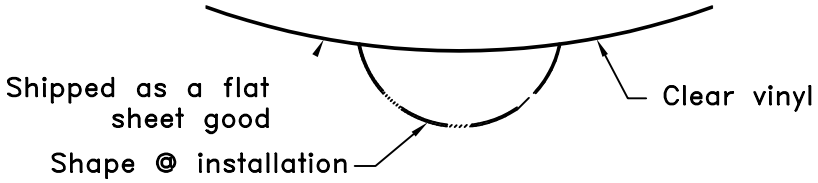
3/16" thick center slide plate
(Refer to chart for Part Numbers)

Model	P/N	"A"	Model	P/N	"A"
ESFC-200	12030	3 1/2"	ESFC-1000	12023	15 1/2"
ESFC-400	12032	6 1/2"	ESFC-1200	12027	18 1/2"
ESFC-600	12033	9 1/2"	ESFC-1800	12028	27 1/2"
ESFC-800	12028	12 1/2"	ESFC-2400	12029	36 1/2"



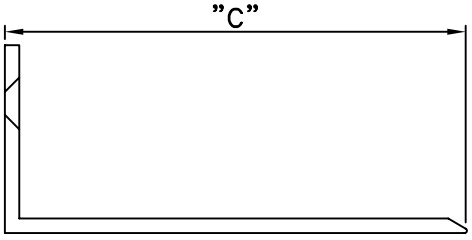
Self-centering bar
(Refer to chart for Part Numbers)

Model	P/N	"B"	Model	P/N	"B"
ESFC-200	11089	7"	ESFC-1000	15630	18 3/8"
ESFC-400	15642	7 3/8""	ESFC-1200	15631	22 3/8"
ESFC-600	15643	12 3/8"	ESFC-1800	15644	32 3/8"
ESFC-800	15630	18 3/8"	ESFC-2400	15604	38 3/8"



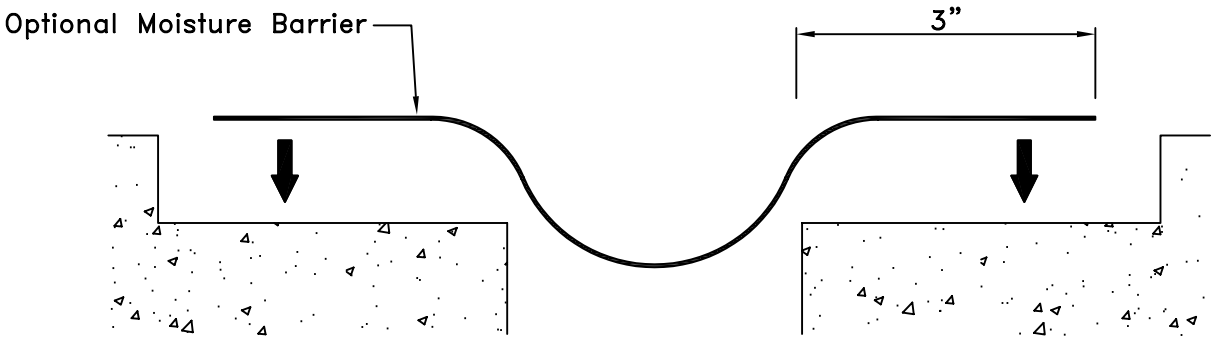
Optional Moisture Barrier

Shown below are extra components needed for floor-to-wall installation.

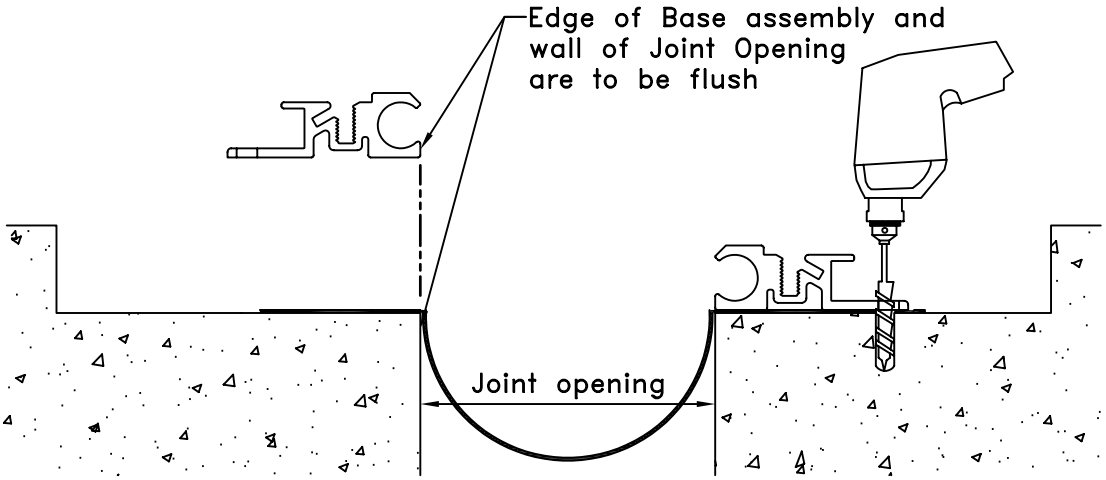


3/16" Aluminum Corner cover plate
(Refer to chart for Part Numbers)

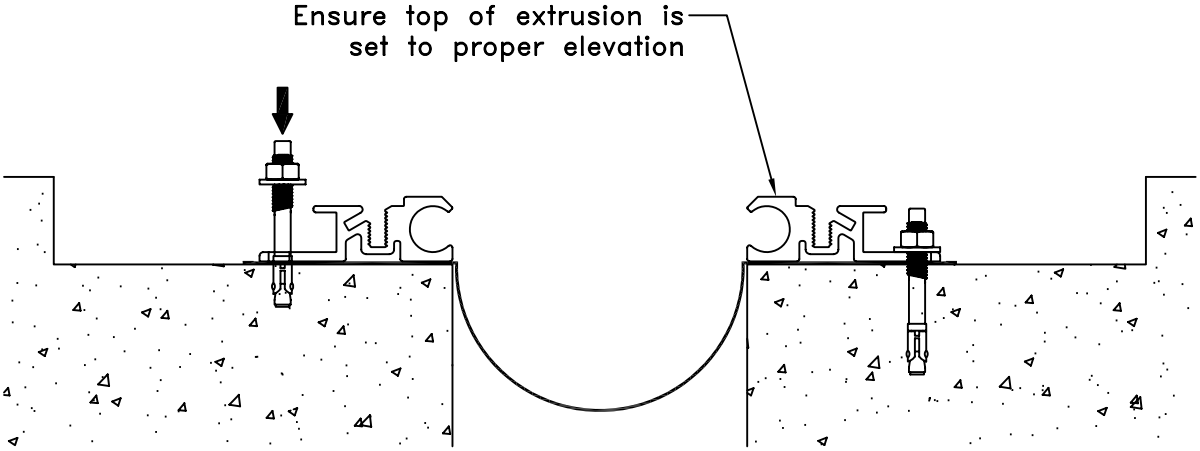
Model	P/N	"C"	Model	P/N	"C"
ESFC-200	11089	7"	ESFC-1000	15630	18 3/8"
ESFC-400	15642	7 3/8""	ESFC-1200	15631	22 3/8"
ESFC-600	15643	12 3/8"	ESFC-1800	15644	32 3/8"
ESFC-800	15630	18 3/8"	ESFC-2400	15604	38 3/8"



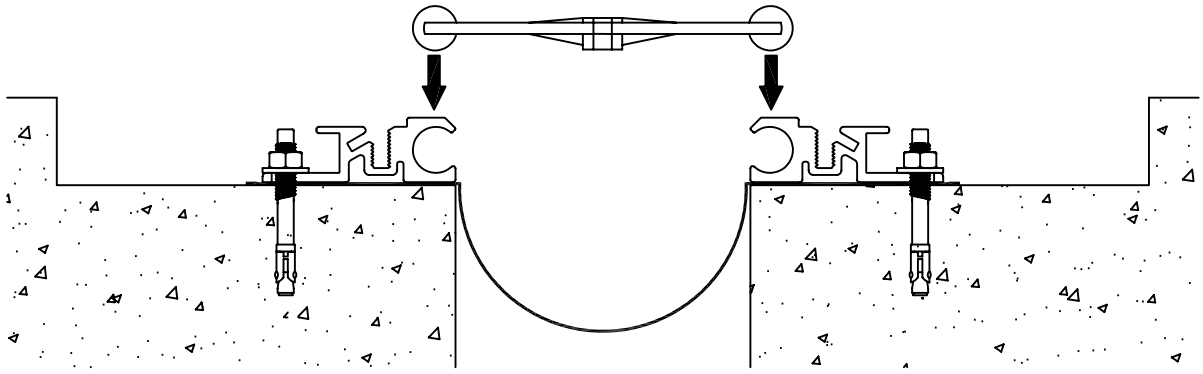
1 (optional)
Position moisture barrier in to blockout. Maintain proper overlap and temporarily affix with duct tape (if required).



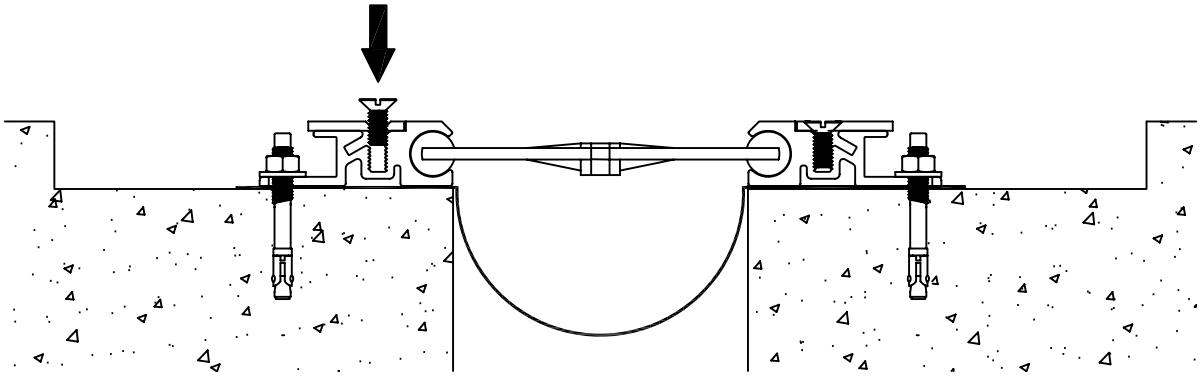
2 Position base member on block out so cavity of base member is flush with edge of opening. Using base member as a template and with its position fixed, drill hole for 1/4” x 2–1/4” hilti bolt to proper depth. Clean out holes.



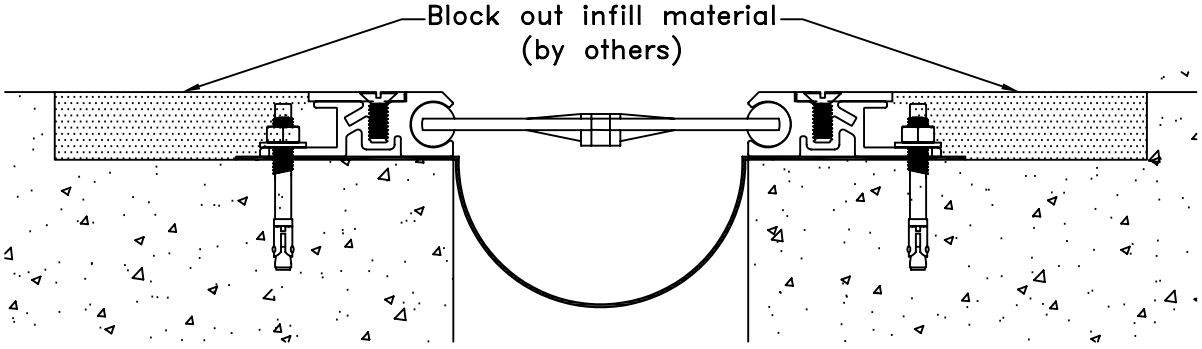
3 Follow hilti’s recommendations for proper anchor installation. Remove all debris from moisture barrier by utilizing shop vac. Caution: do not install all base members prior to reviewing step 6.



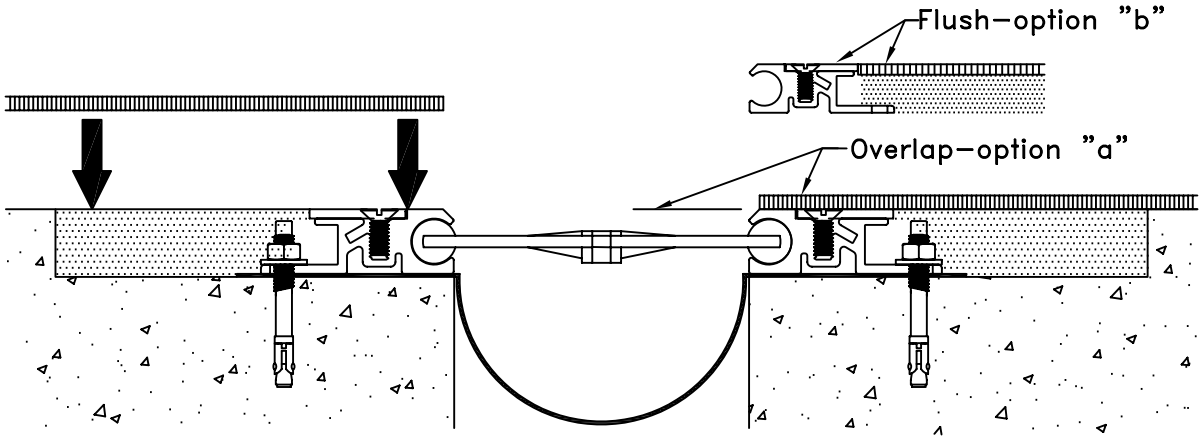
4 As work progresses with placement of base members, install self–centering bars by sliding the spherical ends of the bars into and through the circular cavities of the base members. Set at an approximate spacing of 18" O.C. Ensure that the "top" indicator is facing up and that all bars are in same orientation.



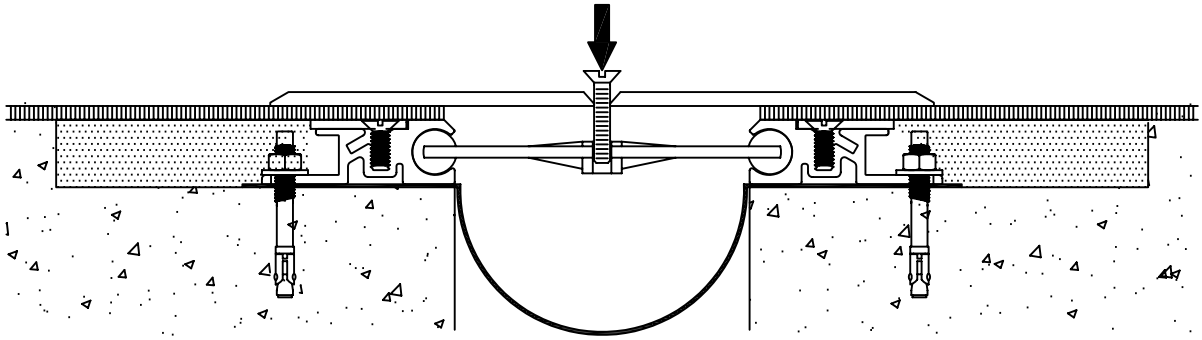
5 Attach aluminum extension to base member with 1/4" x 5/8" CSK flat head machine screw.



6 Fill block out with high quality non–shrink cementitious filler material. Use Grout or equivalent filler for infill material. Protect surfaces during placement of filler material.

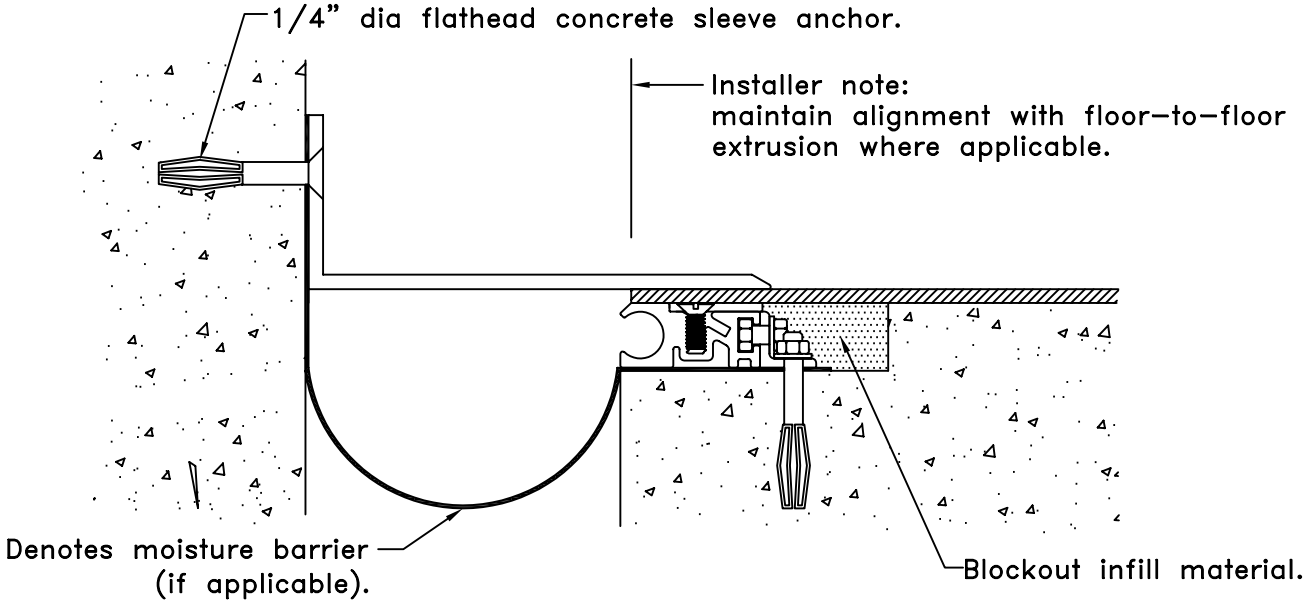


7 Install flooring material. Ensure flush installation with top of expansion joint system. Caution – contact flooring manufacturer to discuss product application and procedure for proper installation. Check contract documents to determine if finish floor material is set flush with or overlaps top of base member.



8 Position the center slide plate over expansion opening. Align pre–drilled holes in slide plate with threaded insert in self–centering bars. Fasten with 1/4" x 1–1/4" CSK flat screw. Tighten to create measurable tension in the bar. Note: with option "a" do not over tighten.

Floor to Wall



Follow the same procedure for floor–to–wall, except use cover plate for floor–to–wall condition and 1/4" CSK concrete flathead expansion anchor. Contact customer service should wall construction dictate alternate style anchor.

Erie Metal Specialties, Inc.
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Fax: 716-542-3996
Email: sales@eriemetal.com
Website: www.eriemetal.com

SPECIFICATION

Section 07 95 13

Erie Metal Specialties, Interior Architectural Systems

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

Seismic Floor 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 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 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 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.

1.05 Quality Assurance

A. Warranty: The Professional Series expansion control system's performance shall be warranted for a period of 3 years when installed by the manufacturer's factory trained Certified Applicator. 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 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.

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

PART 2 - PRODUCT

2.01 General

A. Self-centering Provide floor joint cover expansion control system that is capable of accommodating multi-directional seismic movement without stress to its components. System shall consist of metal profiles that utilize various metal finishes with a universal aluminum base member designed to accommodate various project conditions and finish floor treatments. The cover plate shall be designed of width and thickness required to satisfy the project movement and loading requirements.

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Secure cover plate to base members by utilizing manufacturer's pre-engineered bar. Anchor floor joint cover systems to floor slab utilizing adjustable clip angles and manufacturer's standard anchor.

Furnish Erie Metal Specialties, "ESFC" joint cover meeting ADA Guidelines for interior joint locations as manufactured by EMS and as indicated on drawings. Select Model based on requirements.

2.02 Components and Materials

A. Aluminum Extrusions - Material to conform to properties of ASTM B221, alloy 6061-T6 or 6063-T5.

B. Aluminum Shapes - Material to conform to ASTM B209, alloy 6061-T6, or 5005-H34.

C. Slide Plate - Provide minimum 3/16" thick plate with material to be aluminum conforming to ASTM B209, alloy 6061-T6, where loading requirements do not dictate a structural alloy, utilize 5005-H34 for slide plate installed in a floor to wall condition. 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.

During seismic movement and full closure of the structural opening, the slide plate shall be capable of clearing the raised edge of the base member extension profile (if utilized), without damage to the Expansion Control System.

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 ½" 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.

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

PHYSICAL PROPERTIES

Molded End Profile:

Material:	Nylon
Color:	Black
Tensile Strength @ break:	ASTM D638 25,500 psi

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Cross-Member:
Material: Pre-tempered spring steel

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
a) Equipment: Instron Machine
b) Orientation: Specimen subjected to tensile load with cross member parallel to direction of load
c) Specimens: Test 4(min)– select at random
d) Disengagement range (lbs): 800 (min.) – 1250 (max.)

E. Moisture Barrier - Shall be a fabric reinforced tear resistant clean vinyl sheet material. Minimum thickness shall be .026".

F. Anchorage - Provide minimum ¼" diameter concrete expansion anchor at maximum 24" o.c. spacing to secure aluminum base member to floor slab.

G. 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

H. Block out 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

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

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

2.03 Fabrication

A. Extrusions and generic profiles to be shipped in standard 10 ft. lengths and shall be cut to length on jobsite where required. Profiles shall be miter cut in the field to conform to directional changes unless otherwise contracted with expansion joint manufacturer.

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

2.04 Finishes (Standard)

A. The cover plate's exposed surface shall receive a 60-grit brushed finish. All other aluminum extrusions and shapes shall be supplied in standard mill finish.

B. Surfaces of aluminum profiles that will be in direct contact with concrete where moisture is present shall receive one coat of manufacturer's recommended coating.

C. Finishes (optional) - Manufacturer shall utilize common aluminum alloys between system components to achieve consistency in product finish.

1. Aluminum - (clear anodize)
Clear anodized finish in accordance with AA-M10 C22 A41 Class I (0.7 - 1.0 thick anodic coating).

2. Aluminum - (color anodize)
Select from manufacturers standard color offering.

PART 3 - EXECUTION

3.01 Installation

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

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.

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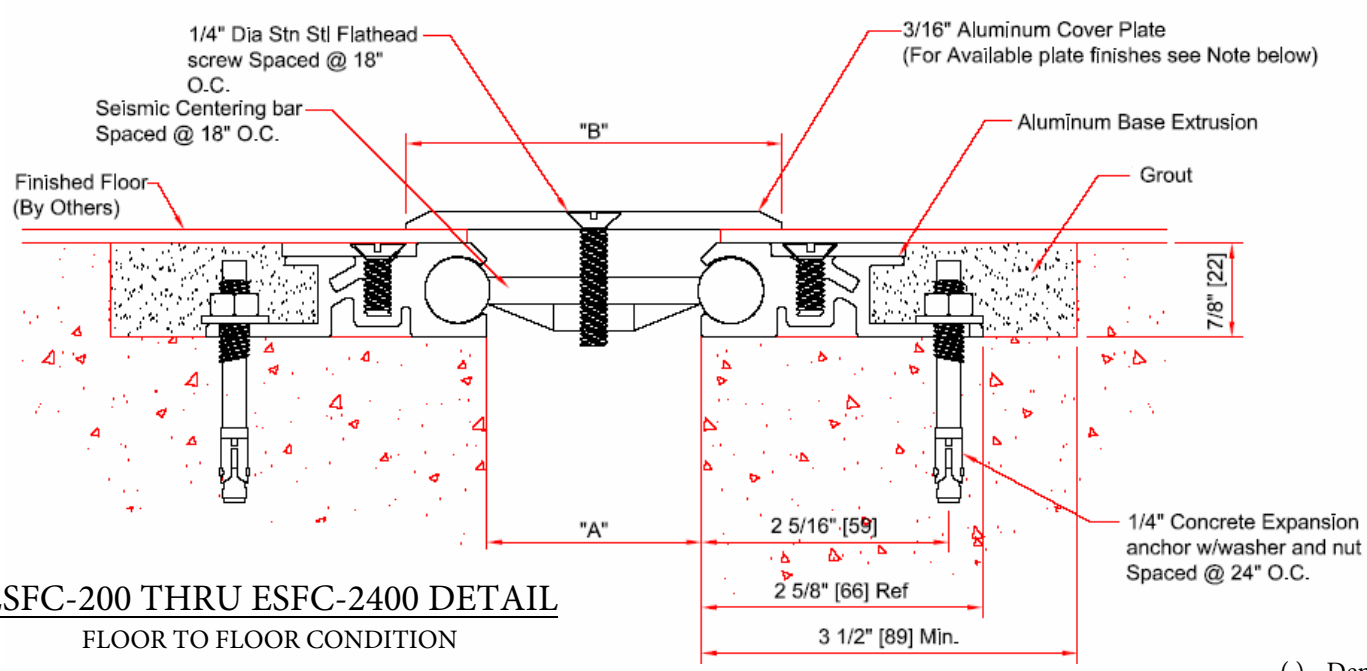
D. Expansion joint systems shall be set to the proper width for the ambient temperature at the time of installation. This information is indicated in the contract plans.

3.02 Clean and Protect

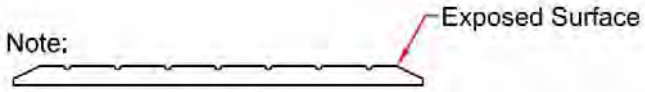
A. Protect system and its components during construction. After work is complete in adjacent areas clean exposed surfaces with a suitable cleaner that will not harm or attack the finish.



ESFC-200 THRU ESFC-2400 DETAIL

FLOOR TO FLOOR CONDITION

( ) - Denotes Millimeters



- For openings up to 6"
  - Plate supplied with grooved surface/mill finish
- For openings greater than 6"
  - Plate supplied with brush finish
  - Grooves optional for plates up to 24" in width

DIMENSION CHART					
MODEL	"A" @ Min	"A" @ Mid	"A" @ Max	"B"	TOTAL MOVEMENT
ESFC-200	1" (25)	2" (51)	3" (76)	3 1/2" (89)	2" (51)
ESFC-400	1" (25)	4" (102)	6" (152)	6 1/2" (165)	5" (127)
ESFC-600	1" (25)	6" (152)	9" (229)	9 1/2" (241)	8" (203)
ESFC-800	1" (25)	8" (203)	12" (305)	12 1/2" (317)	11" (279)
ESFC-1000	1" (25)	10" (254)	15" (381)	15 1/2" (394)	14" (356)
ESFC-1200	1" (25)	12" (305)	18" (457)	18 1/2" (470)	17" (432)
ESFC-1800	1" (25)	18" (457)	27" (686)	27 1/2" (699)	26" (660)
ESFC-2400	1" (25)	24" (607)	36" (914)	36 1/2" (927)	35" (889)

NO.	Description	Date	By

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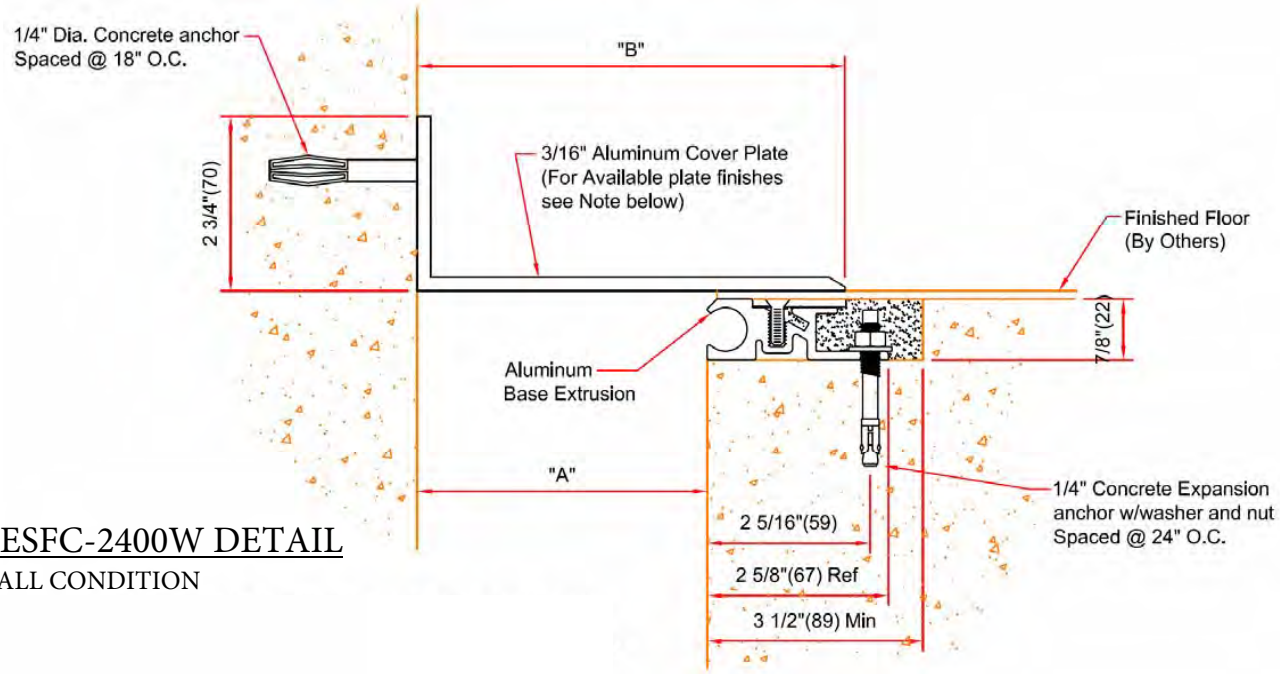
PROJECT:

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.:

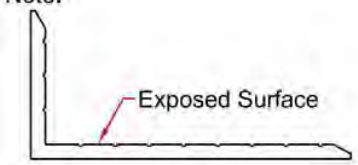


ESFC-200W THRU ESFC-2400W DETAIL

FLOOR TO WALL CONDITION

( ) - Denotes Millimeters

Note:



- For openings up to 6"
  - Plate supplied with grooved surface/mill finish
- For openings Greater than 6"
  - Plate supplied with brush finish
  - Grooves optional for plates up to 24" in width
  - Grooves not available for plates over 24"

DIMENSION CHART					
MODEL	"A" @ Min	"A" @ Mid	"A" @ Max	"B"	TOTAL MOVEMENT
ESFC-200W	1" (25)	2" (51)	2 1/2" (64)	2 3/4" (70)	1 1/2" (38)
ESFC-400W	1" (25)	4" (102)	5" (127)	5 1/4" (133)	4" (102)
ESFC-600W	1" (25)	6" (152)	7 1/2" (191)	7 3/4" (197)	6 1/2" (165)
ESFC-800W	1" (25)	8" (203)	10" (254)	10 1/4" (260)	9" (229)
ESFC-1000W	1" (25)	10" (254)	12 1/2" (317)	12 3/4" (324)	11 3/4" (292)
ESFC-1200W	1" (25)	12" (305)	15" (381)	15 1/4" (387)	14" (356)
ESFC-1800W	1" (25)	18" (457)	22 1/2" (572)	22 3/4" (578)	21 1/2" (546)
ESFC-2400W	1" (25)	24" (607)	30" (762)	30 1/4" (768)	29" (737)

NO.			

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