

SUBSTITUTION REQUEST (After the Bidding/Negotiating Phase)

| To: Re: Specification Title: Section: Page: Proposed Substitution: Manufacturer: Address: | Date: A/E Project Number: Contract For: Description: Article/Paragraph: | Phone: Model No.: | |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------|-------|
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| Address: | | Model No.: | |
| | | | |
| T 1. N | | | |
| Trade Name: | | | |
| Installer: | | Phone: | |
| Address: | | | |
| 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 Install | ed: | | |
| 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

| Signed by: | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------|---------------------------|-----------|
| Firm: | | | | | |
| Address: | | | | | |
| Telephone: | | | | | |
| Attachments: | | | | | |
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| A/E's REVIEW AND AC | CTION | | | | |
| ☐ Substitution approved ☐ Substitution approved | - Make submittals in ac as noted - Make submi Use specified materials | | | | ocedures. |
| ☐ Substitution approved ☐ Substitution approved ☐ Substitution rejected - | - Make submittals in ac as noted - Make submi Use specified materials eceived too late - Use s | ttals in accordance with S s. pecified materials. | pecification Section | 01 25 00 Substitution Pro | |
| ☐ Substitution approved ☐ Substitution approved ☐ Substitution rejected - ☐ Substitution Request r | - Make submittals in ac as noted - Make submi Use specified materials eceived too late - Use s | ttals in accordance with S s. pecified materials. | pecification Section | 01 25 00 Substitution Pro | |
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ESFX Series Corrosion Resistant Application

The Stainless Steel Architectural Seismic System is designed to cover expansion control openings in structural, high movement joints, when the specification calls for a stainless steel requirement.

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.

DETAILS

MATERIAL Type S04 Stainless Steel

MOVEMENT

• Thermal: Horizontal and Vertical

• Seismic: Lateral Shear

MOUNTING Block Out

JOINT SIZE 2 inches to 24 inches

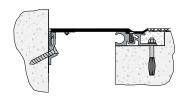
LENGTH 10 Linear Feet **APPLICATION** Interior

LOAD Pedestrian and Light Cart

INSTALLATION Floor

OPTIONS Moisture Barrier, Fire Barrier

Floor-to-Floor



Floor-to-Wall/Corner

MODELS

FLOOR-TO-FLOOR

| MODEL | JOINT SIZE AT MEAN T°F | SYSTEM WIDTH | TOTAL MOVEMENT |
|-----------|---------------------------|-----------------|-------------------|
| ESFX-200 | 2" (51mm) | 6.25" (159mm) | 2" (51mm) |
| ESFX-400 | 4" (102mm) | 10.38" (264mm) | 5" (127mm) |
| ESFX-600 | 6" (152mm) | 13.75" (349mm) | 8" (203mm) |
| ESFX-800 | 8" (203mm) | 15.75" (400mm) | 11" (279mm) |
| ESFX-1000 | 10" (254mm) | 18.75" (476mm) | 14" (356mm) |
| ESFX-1200 | 12" (305mm) | 21.75" (552mm) | 17" (432mm) |
| ESFX-1800 | 18" (457mm) | 31.75" (806mm) | 26" (660mm) |
| ESFX-2400 | 24" (610mm) | 40.75" (1035mm) | 35" (889mm) |

FLOOR-TO-WALL/CORNER

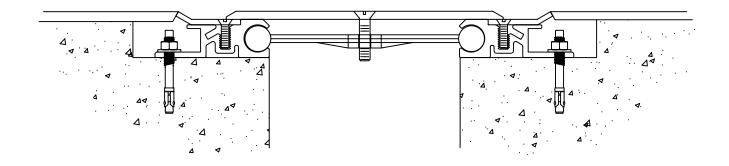
| MODEL | JOINT SIZE AT MEAN T°F | SYSTEM WIDTH | TOTAL MOVEMENT |
|------------|---------------------------|----------------|-------------------|
| ESFX-200W | 2" (51mm) | 3.88" (99mm) | 1.5" (38mm) |
| ESFX-400W | 4" (102mm) | 7.19" (183mm) | 4" (102mm) |
| ESFX-600W | 6" (152mm) | 9.88" (251mm) | 6.5" (165mm) |
| ESFX-800W | 8" (203mm) | 11.88" (302mm) | 9" (229mm) |
| ESFX-1000W | 10" (254mm) | 14.38" (365mm) | 11.5" (292mm) |
| ESFX-1200W | 12" (305mm) | 16.88" (429mm) | 14" (356mm) |
| ESFX-1800W | 18" (457mm) | 24.88" (632mm) | 21.5" (546mm) |
| ESFX-2400W | 24" (610mm) | 35" (889mm) | 29" (737mm) |

Erie Metal Specialties, Inc. Phone: 13311 Main Road Website Akron, NY 14001 E-Mail:

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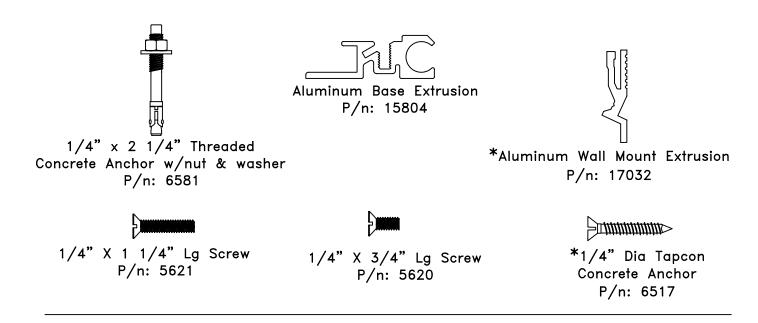
Seismic Floor Series Model(s) ESFX & ESFX-C Horizontal Expansion Control Systems

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.

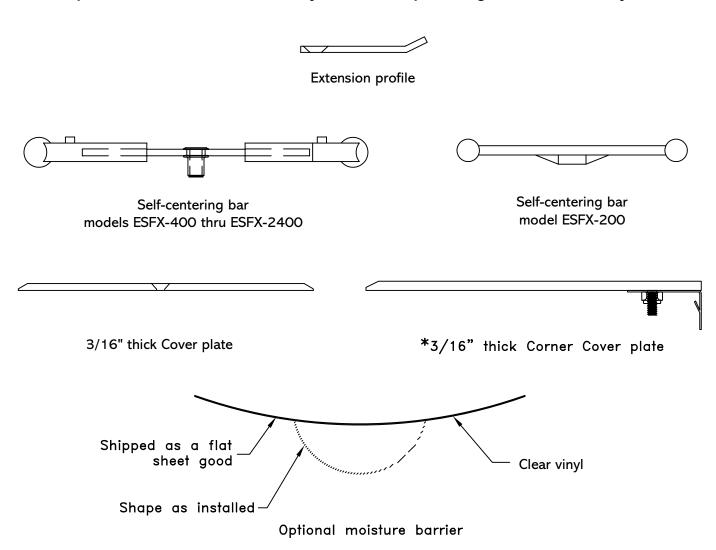
- 1) Carefully read and understand installation procedure. Contact Technical Service Department for product assistance.
- 2) Inspect all shipments and materials for missing or damaged components and hardware. Contact Customer Service with order number and invoice for prompt assistance.
- 3) Inspect substrate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

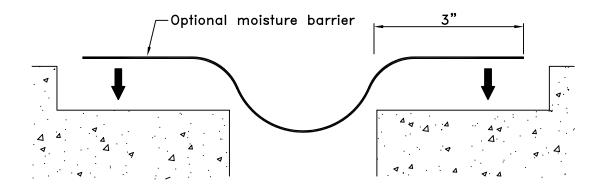
PN: N20133

Standard Components

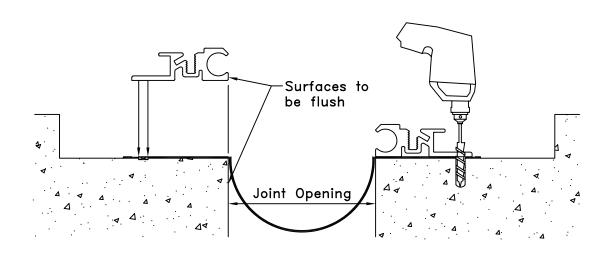


Components shown below vary in size depending on model of system

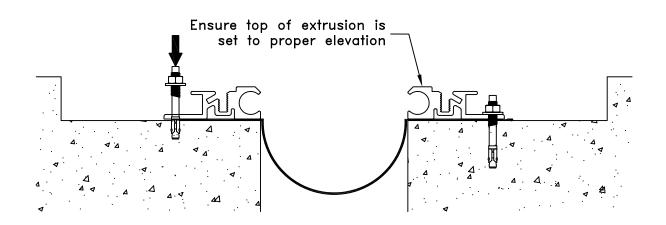




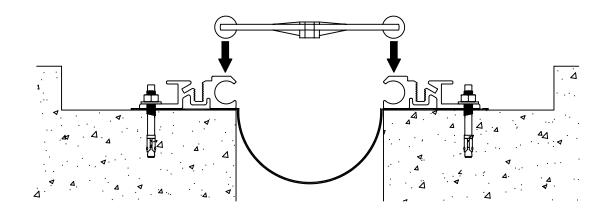
Optional:
Position the moisture barrier into the blockout. Maintain proper overlap and temporarily affix with duct tape.



Position the base member assembly on block out so cavity of base member is flush with the edge of the opening. Using base member as a template and with it's position fixed, drill hole for 1/4" x 2 1/4" concrete anchor to proper depth. Clean out holes.

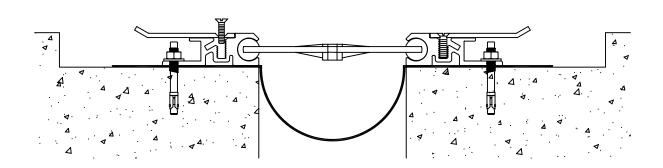


Follow manufacture's recommendations for proper anchor installation. Remove all debris from moisture barrier by utilizing shop vac. Caution — Do Not install all base members prior to reviewing step 4.



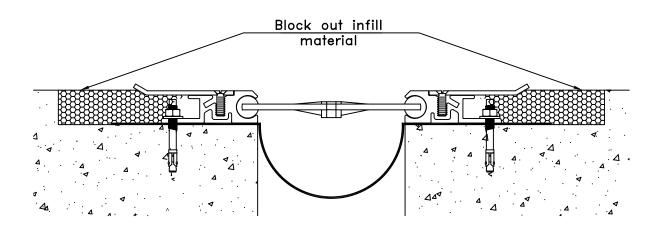
4

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 the same orientation.



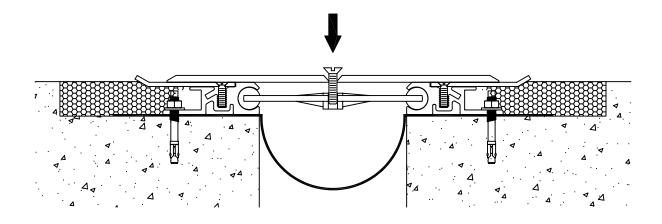
5

Attach extension profile to base member utilizing 1/4" diameter machine screw.

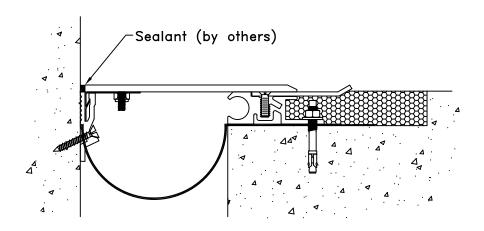


6

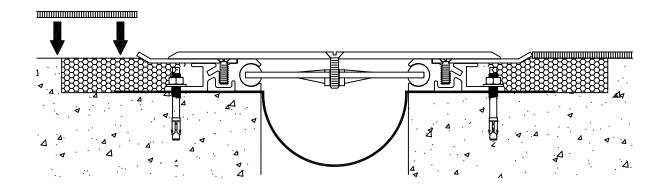
Fill block out with high quality non—shrink cementitious filler material. Use grout or equivalent for infill material. Protect surfaces during placement of filler material.



Position the coverplate over the expansion opening, align the pre—drilled holes in the slide plate with threaded insert in self—centering bars. Fasten with 1/4" x 1 1/4" flat head machine screws. Tighten to creat measurable tension in the bar.



Position the coverplate with spring steel extension over the wall mounted aluminum bracket and slide down into extrusion. After the cover palte has been installed, contractor shall apply a continuous bead of sealant (by others)along edge of coverplate assembly and face of wall.



Install flooring material ensuring that it is flush with the top of the expansion joint system. Caution — contact flooring manufacturer to discuss application and procedure for proper installation.



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SPECIFICATION

Section 07 95 13

Erie Metal Specialties, Interior Architectural Systems

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

Seismic Floor Expansion Control System

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 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. Provide floor joint cover expansion control system that is capable of accommodating multidirectional seismic movement without stress to its components. System shall consist of metal profiles that utilize various metal finishes and alloys 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 projects movement and loading



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

B. Furnish EMS model "ESFX" joint cover meeting ADA guidelines for interior joint locations as indicated on drawings. Select Model based on project requirements.

2.02 Components and Materials

- A. Aluminum Extrusions Material to conform to properties of ASTM B221, alloy 6061-T6 or 6063-T5.
- B. Base Member Extension Profile Material to be brass or stainless steel, refer to 2.02 D.
- C. Slide Plate Provide minimum 3/16" thick plate with material to be brass or stainless steel. Refer to 2.02 D. 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, without damage to the Expansion Control System.

- D. Exposed Metals Cover plate and base member extension profile selected shall conform to the following:
 - 1. Brass shall conform to properties of CDA260, 70% copper.
 - 2. Stainless Steel shall conform to properties of ASTM 5A 240 or ASTM A276 Type 304.
- E. 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 ability to resist corrosion and Fatigue.



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PHYSICAL PROPERTIES

Molded End Profile:

Material : Nylon Color: Black

Tensile Strength @ break: ASTM D638 25,500 psi

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.)

- F. Moisture Barrier Shall be a fabric reinforced tear resistant clear vinyl sheet material. Minimum thickness shall be .026".
- G. Anchorage Provide minimum ¼" diameter concrete expansion anchor at maximum 24" o.c. spacing to secure aluminum base member to floor slab.
- H. Accessories Provide necessary and related parts, and fasteners required or complete installation.
- 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 1,50024 hours 4,5007 days 8,000

28 days 9,000

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



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Compressive strength at plastic consistency, psi

3 days 6,000

7 days 7,000

28 days 8,500

K. 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. 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

- A. Aluminum base extrusions 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. Brass and Stainless-Steel Exposed Surfaces shall receive a 60-grit brushed finish.

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.
- 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.

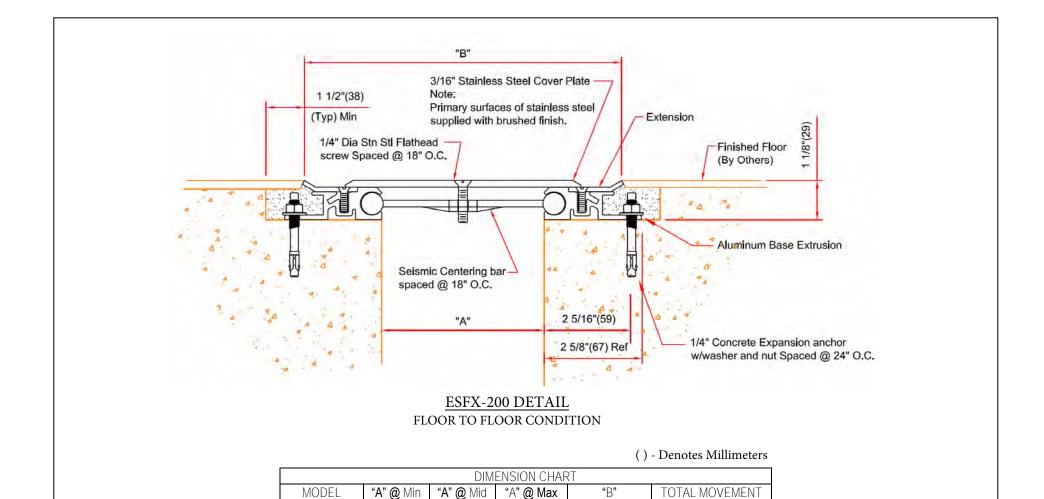


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3.02 Clean and Protect

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.



| Note: Minimum and Maximum Values are after Movement Occurs. Mid |
|-----------------------------------------------------------------|
| Point is the Recommended Size of Opening at Installation. |

3" (76)

6 **1/4**" (159)

2" (51)

2" (51)

| NO. | | |
|-----|--|--|

ESFX-200

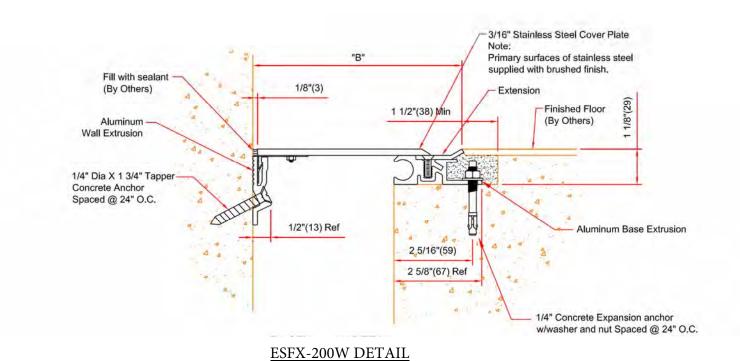
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PROJECT:
TITLE:

| 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 | "A" @ Min | "A" @ Mid | "A" @ Max | "B" | TOTAL MOVEMENT |
| ESFX-200 W | 1" (25) | 2" (51) | 2 5/8" (67) | 3 7/8" (98) | 1 5/8" (41) |

FLOOR TO WALL CONDITION

Note: Minimum and Maximum Values are after Movement Occurs. Mid Point is the Recommended Size of Opening at Installation.

| NO. | Description | Date | Ву |
|-----|-------------|------|----|

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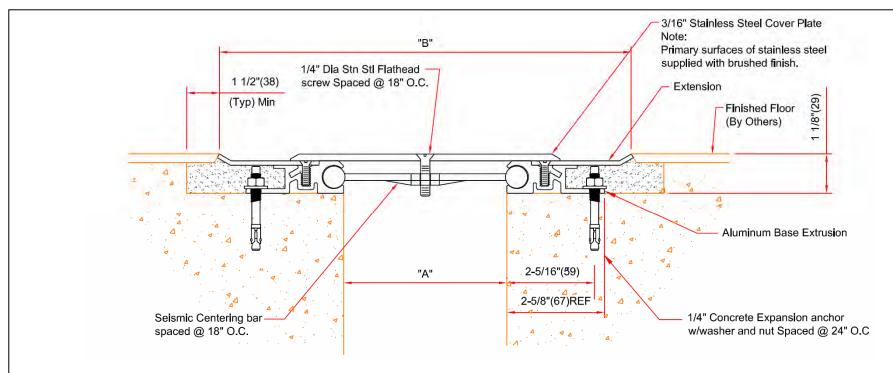


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PROJECT:

TITLE:

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



ESFX-400 THRU ESFX-2400 DETAIL FLOOR TO FLOOR CONDITION

Note: Minimum and Maximum Values are after Movement Occurs. Mid Point is the Recommended Size of Opening at Installation.

TITLE:

() - Denotes Millimeters

| DIMENSION CHART | | | | | |
|-----------------|-----------|------------------|-----------|------------------------|----------------|
| MODEL | "A" @ Min | "A" @ Mid | "A" @ Max | "B" | TOTAL MOVEMENT |
| ESFX-400 | 1" (25) | 4" (102) | 6" (152) | 10 3/8" (264) | 5" (127) |
| ESFX-600 | 1" (25) | 6" (152) | 9" (229) | 13 3/4 " (349) | 8" (203) |
| ESFX-800 | 1" (25) | 8" (203) | 12" (305) | 15 3/4 " (400) | 11" (279) |
| ESFX-1000 | 1" (25) | 10" (254) | 15" (381) | 18 3/4 " (476) | 14" (356) |
| ESFX-1200 | 1" (25) | 12" (305) | 18" (457) | 21 3/4 " (476) | 17" (432) |
| ESFX-1800 | 1" (25) | 18" (457) | 27" (686) | 31 3/4 " (806) | 26" (660) |
| ESFX-2400 | 1" (25) | 24" (607) | 36" (914) | 40 3/4 " (1035) | 35" (889) |

| NO. | | |
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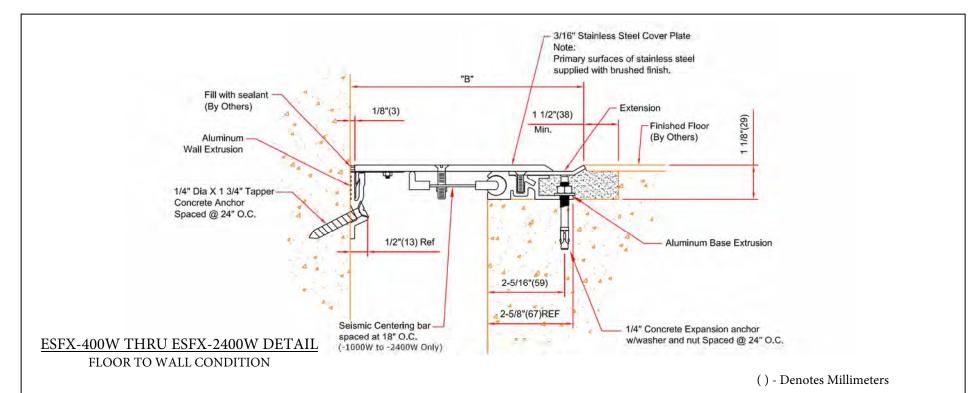
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PROJECT:

| 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.: | | |



Note: Minimum and Maximum Values are after Movement Occurs. Mid Point is the Recommended Size of Opening at Installation.

| DIMENSION CHART | | | | | |
|-----------------|-----------|-----------|---------------|---------------|----------------|
| MODEL | "A" @ Min | "A" @ Mid | "A" @ Max | "B" | TOTAL MOVEMENT |
| ESFX-400W | 1" (25) | 4" (102) | 5 1/8" (130) | 7 3/16" (183) | 4 1/8" (105) |
| ESFX-600W | 1" (25) | 6" (152) | 7 5/8" (194) | 9 7/8" (251) | 6 5/8" (168) |
| ESFX-800W | 1" (25) | 8" (203) | 10 1/8" (257) | 11 7/8" (302) | 9 1/8" (232) |
| ESFX-1000W | 1" (25) | 10" (254) | 12 5/8" (321) | 14 3/8" (374) | 11 5/8" (295) |
| ESFX-1200W | 1" (25) | 12" (305) | 15 1/8" (384) | 16 7/8" (429) | 14 1/8" (359) |
| ESFX-1800W | 1" (25) | 18" (457) | 22 5/8" (575) | 24 7/8" (632) | 21 5/8" (549) |
| ESFX-2400W | 1" (25) | 24" (607) | 30 1/8" (765) | 32 3/8" (822) | 29 1/8" (740) |

| NO. | | |
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PROJECT:

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