



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:

EFCT Series Wall System

Interior Joints (Wall)

The Seismic Architectural Wall System is a wall and ceiling system designed to accommodate both thermal and multi-directional movement. The system provides a simple, attractive and durable solution for internal environments.

FEATURES

SEISMIC CENTERING BAR System realigns itself with the self-centering bar, maintaining a safe, clean look.

ARCHITECTURAL ELEGANCE The clear anodized cover plate finish provides a high-end appearance.

DETAILS

MATERIAL

6063-T5 Aluminum, Meets ASTM B221

6061-T6 Aluminum, Meets ASTM B209

5052-H32 Aluminum, Meets ASTM B209

FINISH Clear Anodized

MOVEMENT

- Thermal: Horizontal and Vertical
- Seismic: Lateral Shear

MOUNTING Surface

JOINT SIZE 2 inches to 12 inches

LENGTH 10 Linear Feet

APPLICATION Interior

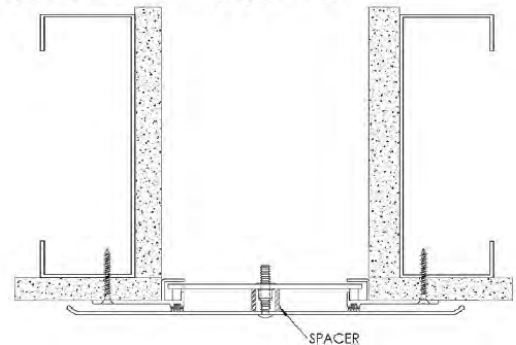
INSTALLATION Wall or Ceiling

OPTIONS Moisture Barrier, Fire Barrier

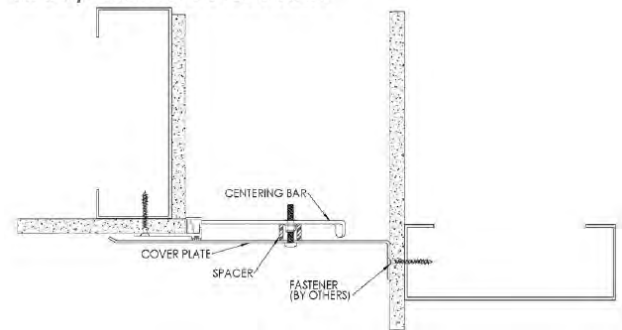
MODELS



WALL/CEILING-TO-WALL/CEILING



WALL/CEILING TO CORNER



MODEL	APPLICATION	JOINT SIZE AT MEAN T°F	EXPOSED SIGHT LINE	TOTAL MOVEMENT
EFCT-200	Wall/Ceiling to Wall/Ceiling	2" (51mm)	7" (177mm)	2" (51mm)
EFCT-400	Wall/Ceiling to Wall/Ceiling	4" (102mm)	10.5" (267mm)	4" (102mm)
EFCT-600	Wall/Ceiling to Wall/Ceiling	6" (152mm)	13.5" (343mm)	6" (152mm)
EFCT-800	Wall/Ceiling to Wall/Ceiling	8" (203mm)	16.5" (419mm)	8" (203mm)
EFCT-1000	Wall/Ceiling to Wall/Ceiling	10" (254mm)	19.5" (495mm)	10" (254mm)
EFCT-1200	Wall/Ceiling to Wall/Ceiling	12" (305mm)	22.5" (572mm)	12" (305mm)
EFCT-200W	Wall/Ceiling to Corner	2" (51mm)	4.5" (114mm)	1" (25mm)
EFCT-400W	Wall/Ceiling to Corner	4" (102mm)	7.25" (184mm)	2" (51mm)
EFCT-600W	Wall/Ceiling to Corner	6" (152mm)	9.75" (248mm)	3" (76mm)
EFCT-800W	Wall/Ceiling to Corner	8" (203mm)	12.25" (311mm)	4" (102mm)
EFCT-1000W	Wall/Ceiling to Corner	10" (254mm)	14.75" (375mm)	5" (127mm)
EFCT-1200W	Wall/Ceiling to Corner	12" (305mm)	17.25" (438mm)	6" (152mm)



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Akron, NY 14001

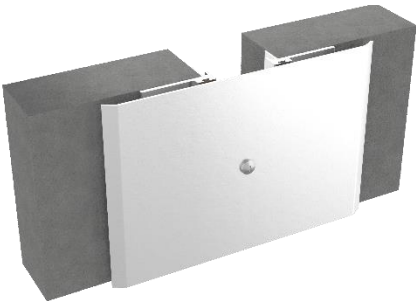
Phone: 716-542-3991
Website: www.eriemetal.com
E-Mail: sales@eriemetal.com

EFCT-Series Installation Instructions

SEISMIC ALUMINUM WALL & CEILING SYSTEM – SURFACE APPLICATION

Model(s): **EFCT/EFCTw**

EFCT Wall to Wall System



GENERAL DESCRIPTION

The EFCT Seismic Architectural Wall System is a wall and ceiling system designed to accommodate both thermal and multidirectional movement. The system provides a simple, durable solution for internal environments.

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 replacement costs.

Interior Joints (Floor)



- Read the instructions thoroughly before beginning installation.

Tool List

- Tape measure
- Chop saw to cut product to length
- Electric drill with $\text{Ø}5/32$ " masonry bit & $\text{Ø}3/16$ " metal bit
- Broom & dustpan or vacuum

Preinstallation

1. Ensure that the area where the cover plate is being installed is smooth and level.

INSTALLATION

1. Drill $3/16$ " holes on each end of the two base frames and approximately 18" on center for the balance of the pieces. Use the drill track to center drill on the base frames. These holes should be lined up with the steel stud framing in a gypsum board assembly. Install the gasket seal into the base frame by sliding it into the groove on the base frame starting from the end. **See Figure 1.**

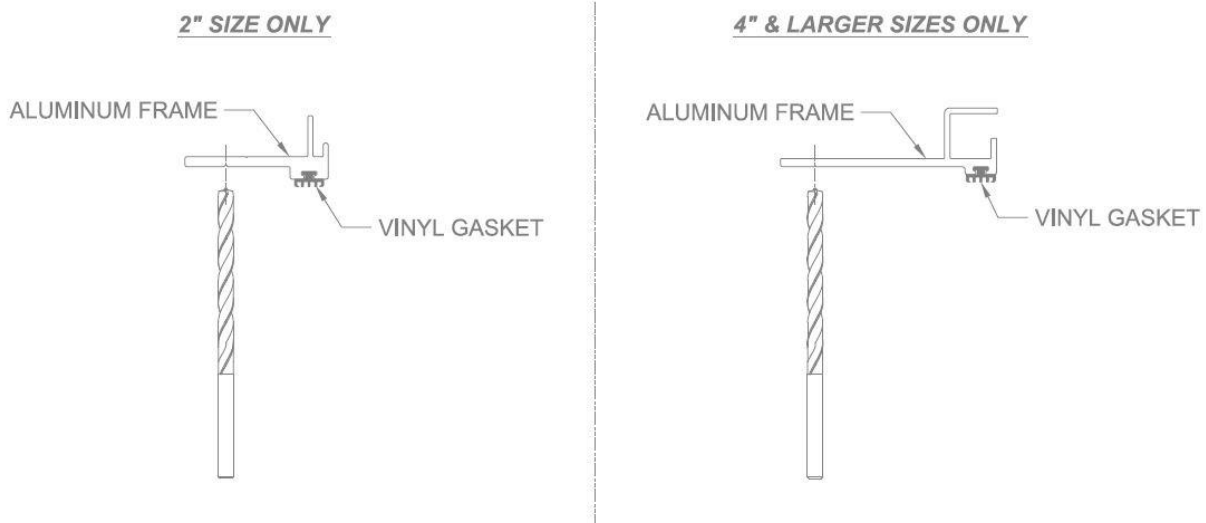


FIGURE #1

- For 2" sizes, position base frames per shop drawings. Using the frame as a template, mark and drill $\varnothing 5/32$ " holes for $\varnothing 3/16$ " Tapcon anchors (by others) if installing into concrete. For gypsum board assemblies, there is no need to predrill, attach base frames using appropriate drywall screw (by others) through gypsum board into steel studs. **See Figure 2.**

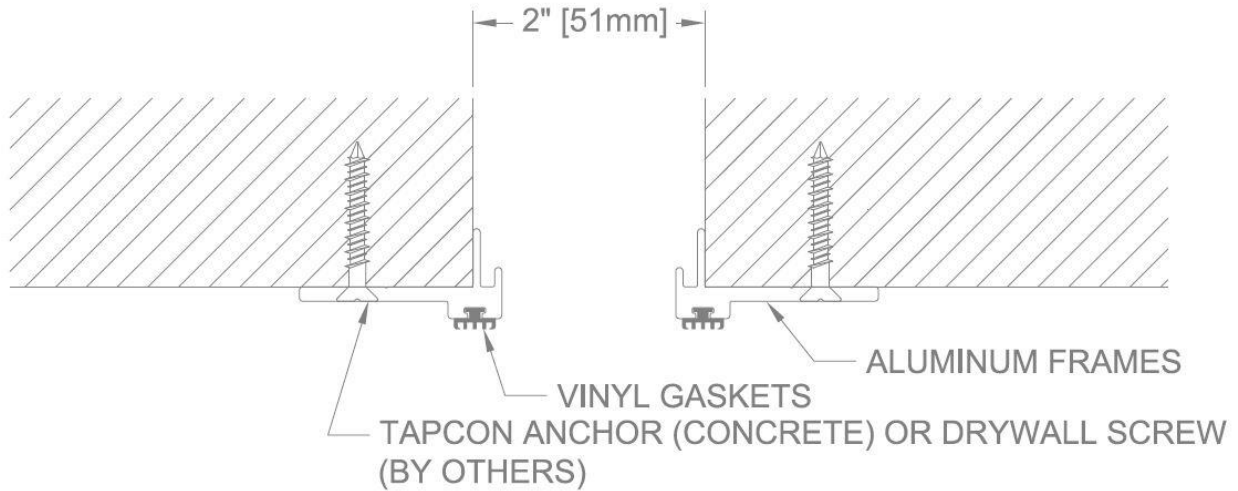


FIGURE #2

- For 2" sizes, loosely attach centering bar to cover plate with provides screws. Position cover plate and centering mechanism into place with spring assembly parallel to joint opening. Turn screw quarter turn and pull out to position spring assembly in place. **See Figure 3.**

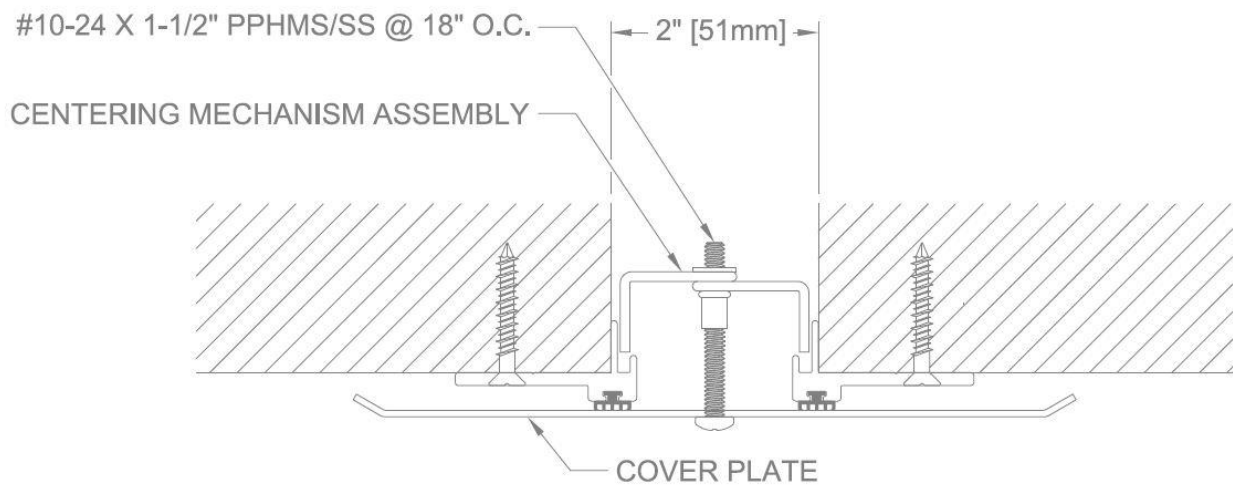
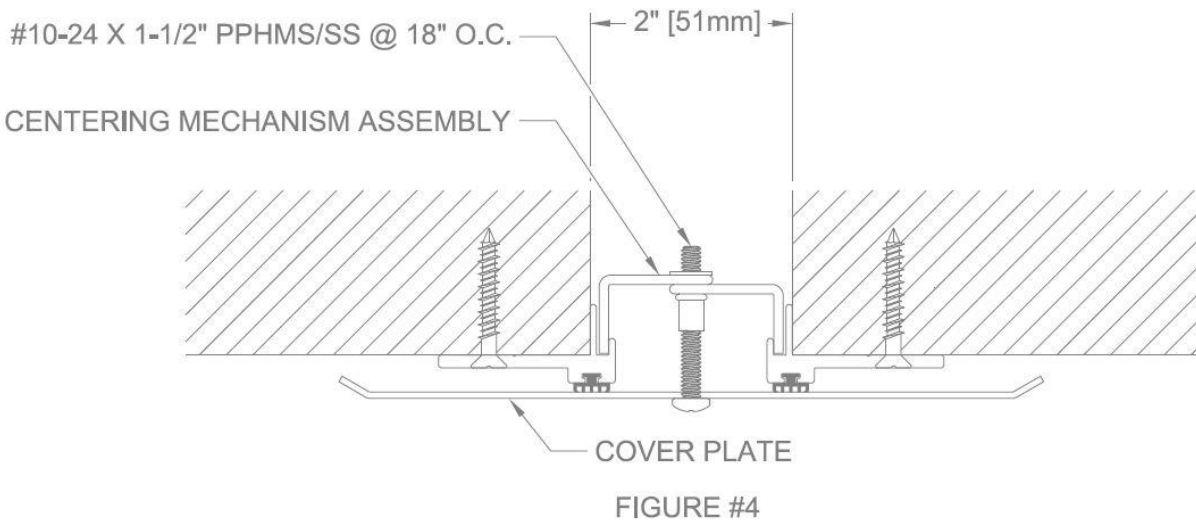
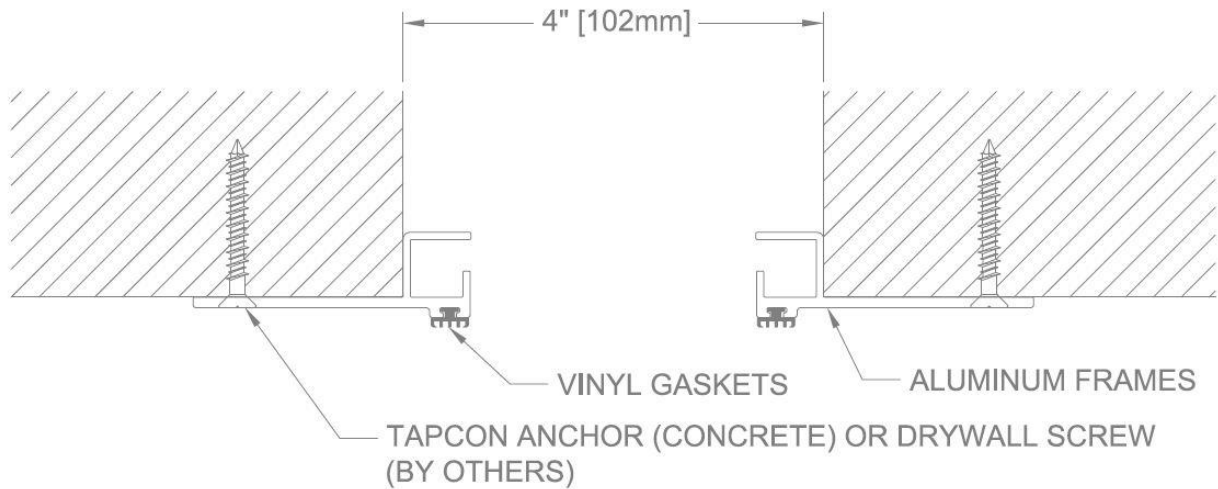


FIGURE #3

- For 2” sizes, keep outward pressure on screw and tighten until secure, being careful not to over tighten. **See Figure 4.**



- For 4” and larger sizes, position base frames per shop drawings. Using the frame as a template, mark, and drill $\text{Ø}5/32$ ” holes for $\text{Ø}3/16$ ” Tapcon anchors (by others) if installing into concrete. For gypsum board assemblies, there is no need to predrill, attach base frames using appropriate drywall screw (by others) through gypsum board into steel studs. **See Figure 5.**



- For 4" and larger sizes, lay the center cover plate over the left base frame with ends flush and mark the cover plate's center holes onto the base frame near the inside edge. Repeat this on the right side. Position the centering mechanisms in the track on the base frames and align with the marked locations. The centering mechanisms will be diagonal to the opening. Tape may be needed to hold the centering mechanisms in place. **See Figure 6.**

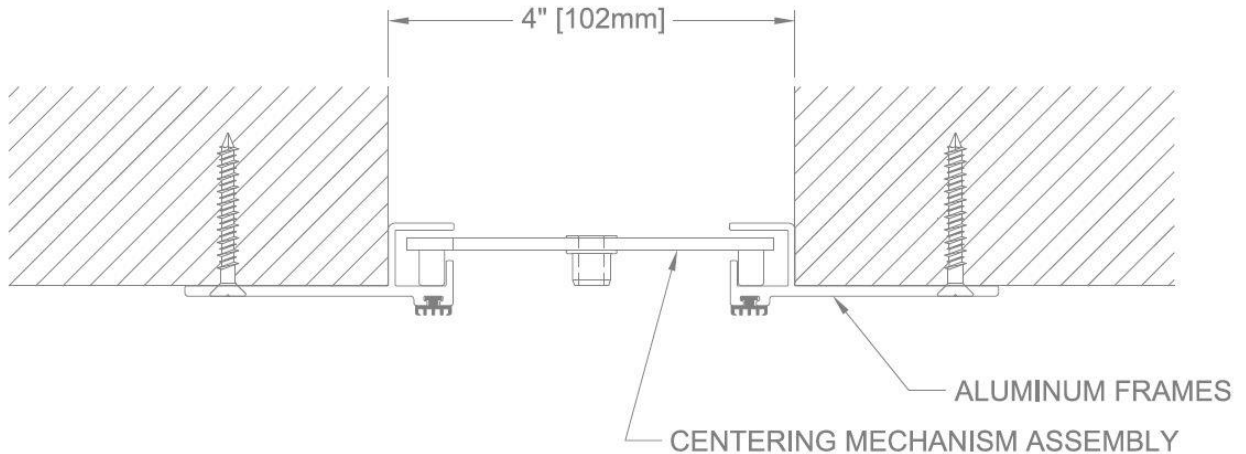


FIGURE #6

- On 4" and larger sizes, attach a plastic spacer over the nut on the centering mechanisms with tape. Position the cover plate centered over the base frames and with the center hole aligned with the center mechanisms. Attach the cover plate to the centering mechanisms with the provided screws, being careful not to over tighten. **See Figure 7.**

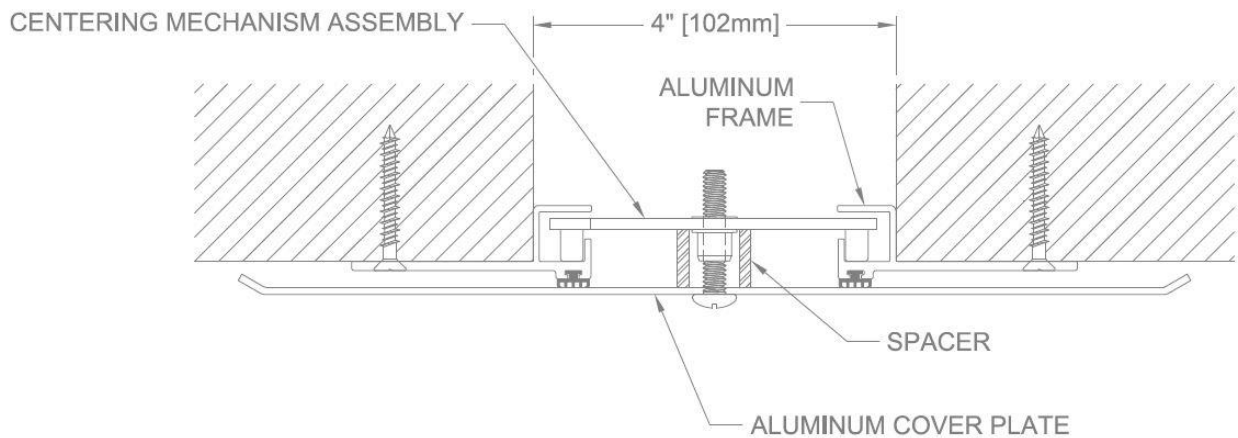
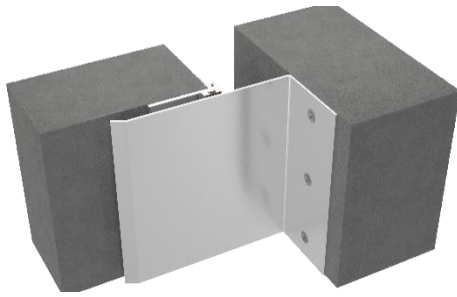


FIGURE #7

EFCTw Floor to Corner System



GENERAL DESCRIPTION

EMS' EFCTw Seismic Architectural Wall System is designed to match the EFCT system in corner applications.

INSTALLATION

1. Drill $\text{Ø}3/16$ " holes on the end of the base frame and then approximately 18" on center for the balance of the pieces. Use the drill track to center drill on the base frame. These holes should be lined up with the steel stud framing in a gypsum board assembly. Install the gasket seal into the base frame by sliding it into the groove on the base frame starting from the end. **See Figure 8.**

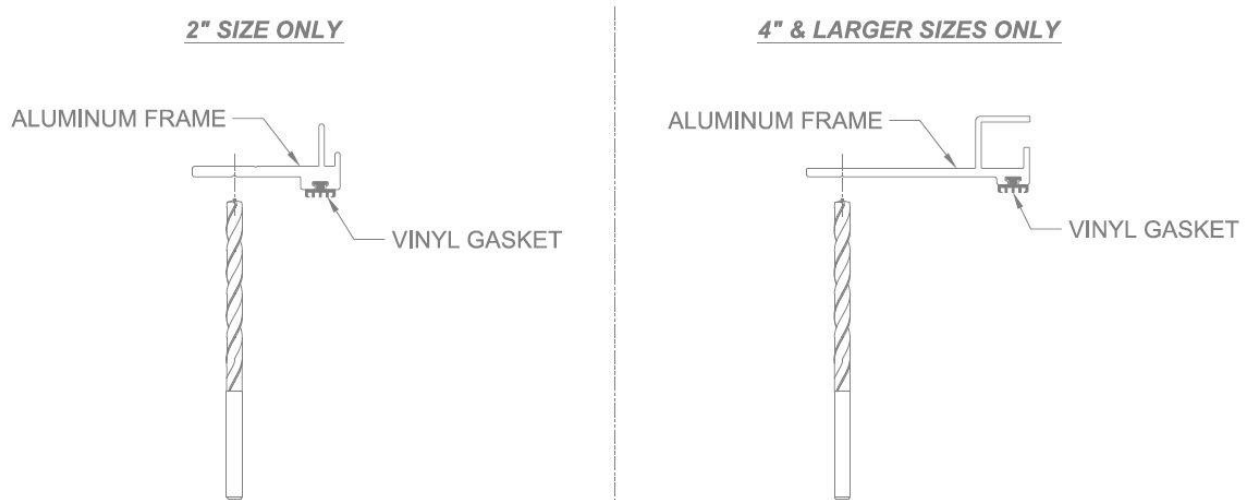


FIGURE #8

- For 2" sizes, position base frames per shop drawings. Using the frame as a template, mark, and drill $\varnothing 5/32$ " holes for $\varnothing 3/16$ " Tapcon anchors (by others) if installing into concrete. For gypsum board assemblies, there is no need to predrill, just attach base frames using appropriate drywall screw (by others) through gypsum board into steel studs. **See Figure 9.**

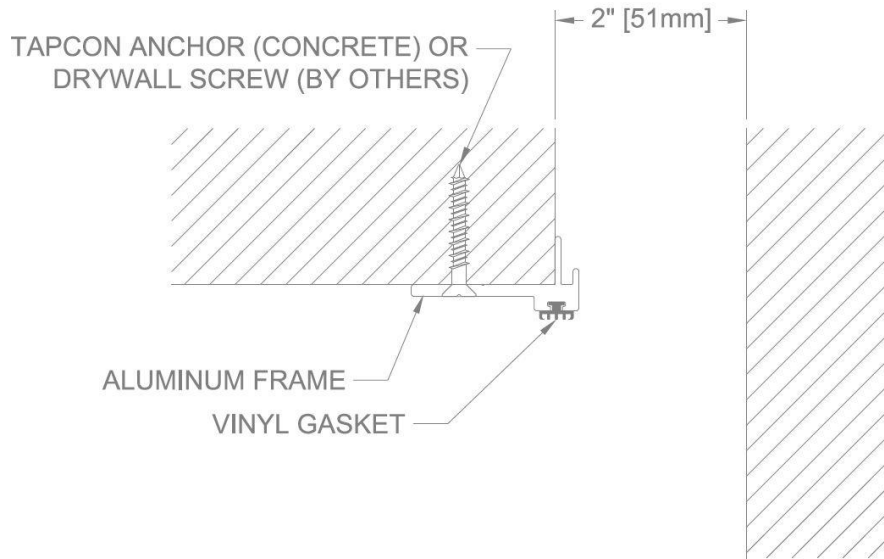


FIGURE #9

- For 2" sizes, position the top cover plate over the base frame and tight against the wall. Make sure the top cover plate is pushed firmly into the elastomeric gasket and attach the top cover plate by fastening it to the wall with appropriate fasteners (by others) 18" oc. **See Figure 10.**

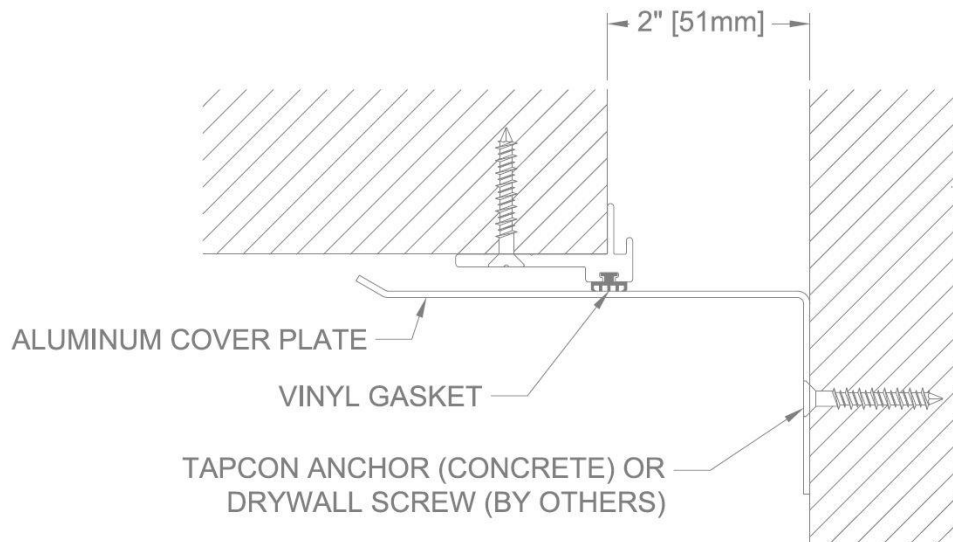


FIGURE #10

- For 4" and larger sizes, position base frames per shop drawings. Using the frame as a template, mark, and drill $\text{Ø}5/32$ " holes for $\text{Ø}3/16$ " Tapcon anchors (by others) if installing into concrete. For gypsum board assemblies, there is no need to predrill, just attach base frames using appropriate drywall screw (by others) through gypsum board into steel studs. **See Figure 11.**

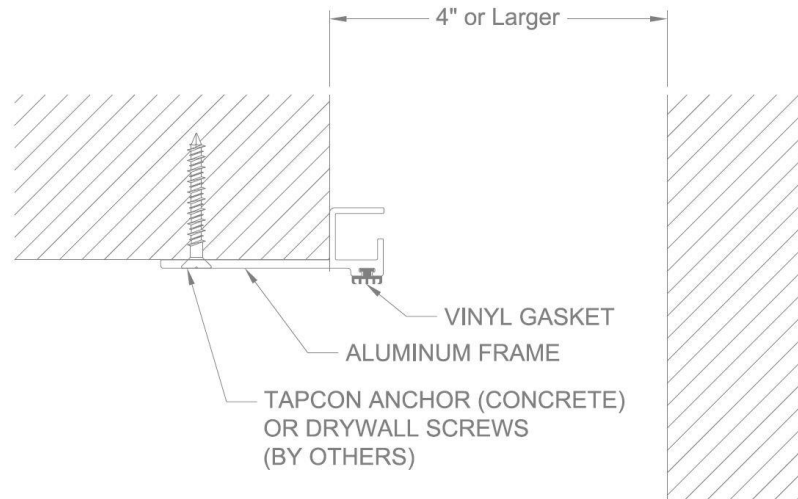


FIGURE #11

- For 4" and 6" sizes, position the top cover plate over the base frame and tight against the wall. Make sure the top cover plate is pushed firmly into the elastomeric gasket and attach the top cover plate by fastening it to the wall with appropriate fasteners (by others) 18" oc. **See Figure 12.**

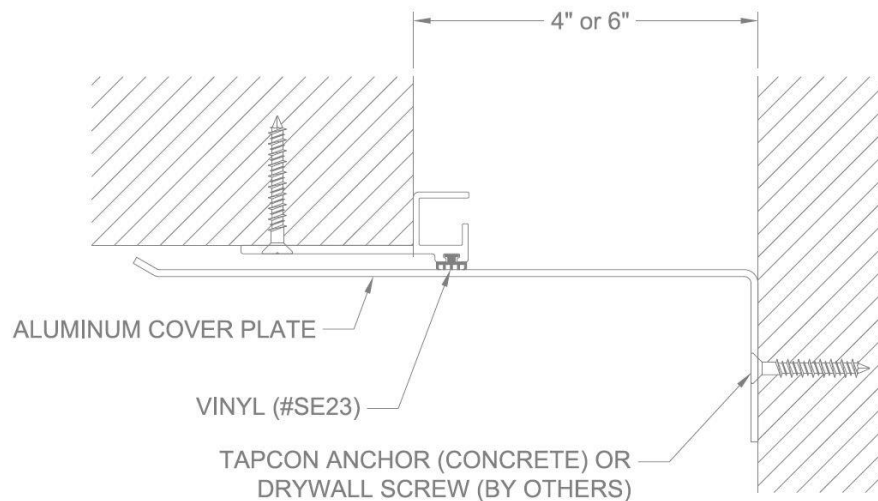


FIGURE #12

6. For 8” and larger sizes, lay the center cover plate over the left base frame with ends flush and mark the cover plate center holes onto the base frame near the inside edge. Position the centering bar assembly in the track on the base frame and align with the marked locations. Tape will be needed to hold the centering bar assemblies in place. Attach a plastic spacer over the nut on the centering bar with tape. Position the cover plate over the base frame and tight against the wall. Make sure to align the center hole with the center bar assemblies. Attach the cover plate to the center bar assemblies with the provided screws, being careful not to over tighten. The cover plate will also need to be attached to wall with appropriate fasteners (by others) for the wall type, 18” o.c. **See Figure 13.**

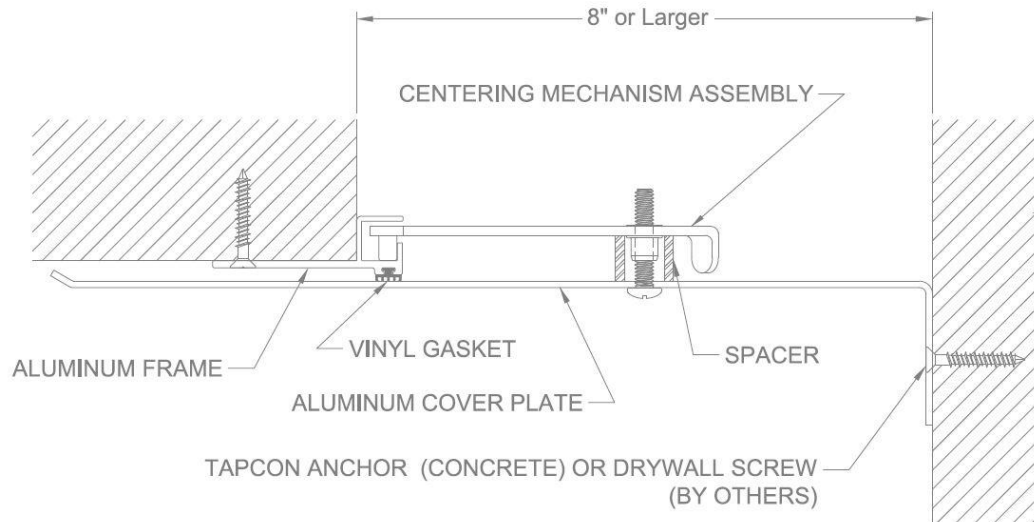


FIGURE #13



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SPECIFICATION

Section 07 95 13

Erie Metal Specialties, Interior Architectural Systems

Model(s) “EFCT”, “EFCT-W”

Seismic Wall and Ceiling 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 preformed metal components, gaskets and hardware.
- 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 Approved 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. Application: The specified expansion control systems shall be installed by an Approved Applicator, factory trained and certified in the proper installation of the specified expansion control system and fire barrier system.
- D. Maintenance: The manufacturer shall provide the owner-operator a preventive maintenance guideline for Expansion Control Systems.

PART 2 – PRODUCT

2.01 General

- A. Provide Wall & Ceiling Expansion Control System that can accommodate multi-directional seismic movement without stress to its components. System shall consist of a flat slide plate with various finishes and designed of width to satisfy projects movement requirements. Secure slide plate to wall surface and allow for freedom of movement by utilizing manufacturer's pre-engineered self-centering bar. Break direct contact with and protect wall surfaces by incorporating preformed mechanically locked gasket into slide plate design. Anchor system to adjacent construction by utilizing manufacturer's base extrusion that accommodates various methods of attachment and



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accepts preformed moisture barrier for exterior applications. For interior applications furnish EMS Model(s) "EFCT" as indicated on drawings.

2.02 Components and Materials

- A. Aluminum Base Extrusion - Material to confirm to properties of ASTM B221, Alloy 6063-T5 or 6063-T6. Profile shall incorporate a continuous circular cavity to receive sphered end of seismic-centering bar permitting multidirectional rotational movement.

Minimum attachment flange thickness: .080 inch

Minimum profile weight: .310 lbs/LF

- B. Aluminum Slide Plate "EFCT" - Provide minimum 1/8" thick plate with material conforming to ASTM B209, Alloy 5005-H34 "Guaranteed Anodized Quality". Extruded edge profile shall be material conforming to ASTM B221, Alloy 6063-T5.
- C. 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. Spacing shall be a maximum of 24" o.c.

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

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

PHYSICAL PROPERTIES

Molded End Profile:

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

Cross-Member:

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

Requirements

a) Equipment:	Instron Machine
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- 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.)

- D. Leaf Spring Attachment (corner condition) – 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.
- E. Gasket - Provide extruded elastomeric profile designed to protect wall surface from direct contact with slide plate. Material shall be polyvinyl chloride.
- F. Moisture Barrier (exterior application) - Extruded elastomeric profile shall be designed utilizing a serpentine configuration allowing maximum movement and flexibility. Its side lugs shall mechanically lock into a corresponding aluminum profile. Utilization of common flat sheet good material will not be acceptable. Material shall be a quality flame retardant vinyl with a minimum material thickness of .063”.
- G. Anchorage: (interior application) – Secure base extrusion to adjacent surfaces utilizing drywall screws (supplied by installer). Spacing shall be 18” o.c.(max.)
- H. Accessories - Provide necessary and related parts including assembly hardware for complete installation.
- I. 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 current test standards at full rated period by a nationally recognized testing and inspecting organization.

2.03 Fabrication

- A. Aluminum extrusions and manufactured slide plate shall be supplied in 10ft. lengths. The contractor shall be responsible for field cutting metal profiles to obtain the proper joint profile.
- B. All anchor holes shall be field drilled in accordance with manufacturer’s drawings. Spacing shall be a maximum of 18” o.c.
- C. Elastomeric Gasket and Moisture Barrier shall be shipped in the longest practical continuous length in manufacturer’s standard shipping carton.
- D. 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



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- A. Aluminum Slide Plate
"EFCT" Standard - clear anodized Finish in accordance with AA-M10 C22 A31 Class II (0.4 - 0.7 thick anodic coating).

Optional - Select from manufacturers other standard color offerings.

- B. Aluminum Base Extrusion - Shall be supplied in standard mill finish

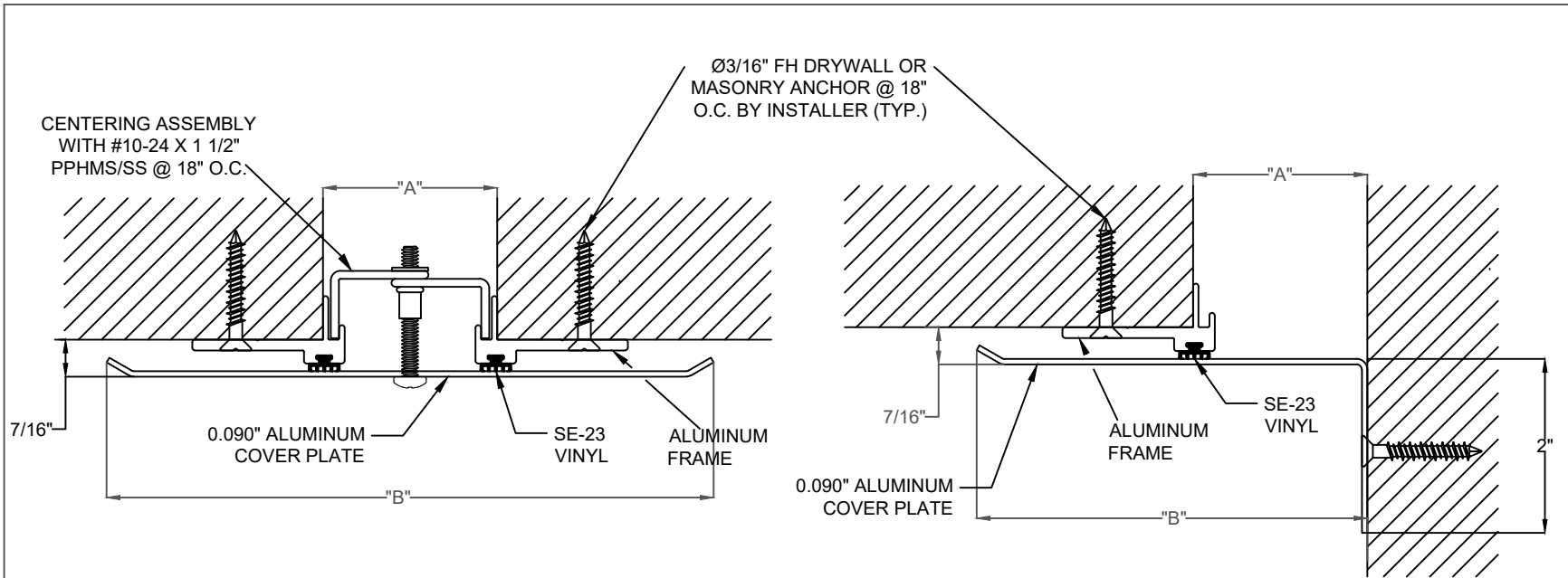
PART 3 - EXECUTION

3.01 Installation

- A. Protect all expansion joint component parts from damage during installation, placement of wall materials 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 Inspect

- A. Protect system and its components during construction. Upon completing installation, the contractor shall clean all exposed metal surfaces with a suitable cleaner that will not harm or attack the finish. Contact manufacturer should questions arise regarding suitability of any cleaner type prior to its use.



INTERIOR WALL/CEILING FLAT/CORNER COVER

EXPOSED FINISH: CLEAR ANODIZED

MOVEMENT: +/- 50% JOINT WIDTH (FLAT COVER)

MOVEMENT: +/- 25% JOINT WIDTH (CORNER COVER)

STOCK LENGTHS: 10'-0"

PRODUCT	Application	Joint Size "A" @ Mean T°F	Exposed Site line "B" IN(MM)	Total Movement IN (MM)
EFCT-200	Wall/Ceiling	2.00" (51)	7.00" (177)	2.00" (51)
EFCT-200W	Wall/Ceiling Corner	2.00" (51)	4.50" (114)	1.00" (25)

NO.	Description	Date	By
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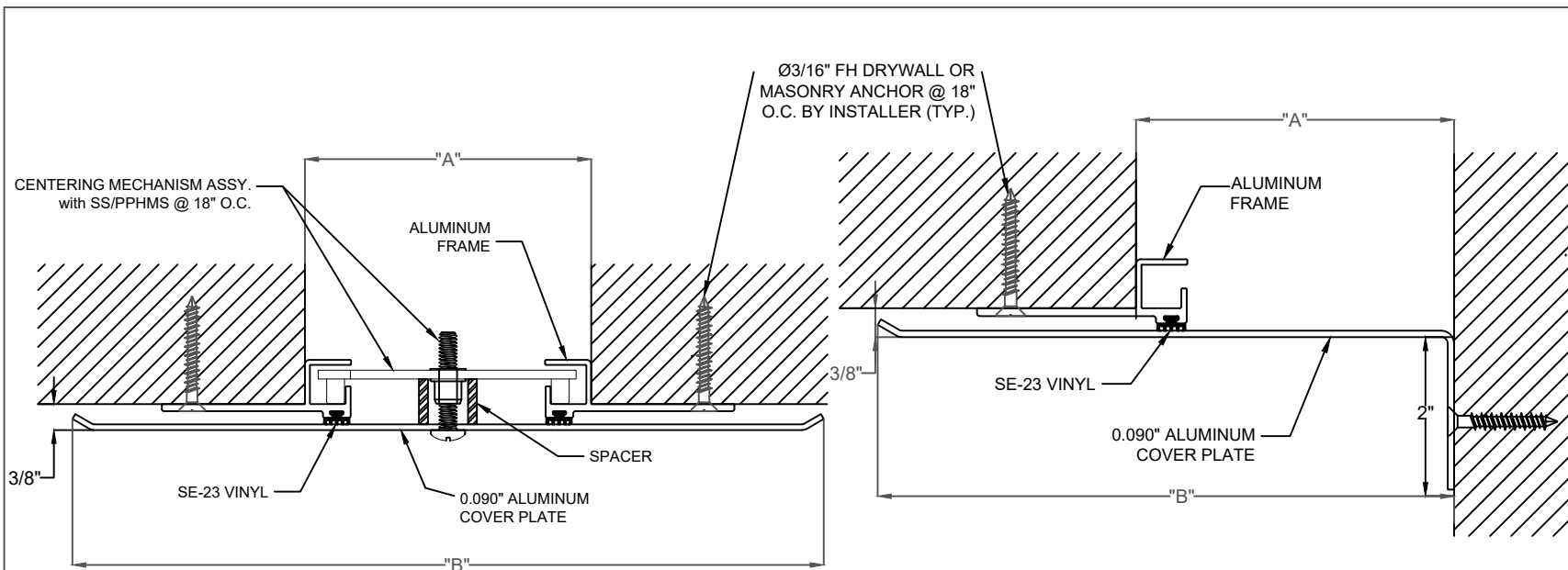


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PROJECT: _____

TITLE: EFCT-200/200W

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	EFCT-1



PRODUCT	Application	Joint Size "A" @ Mean T°F	Exposed Site line "B" IN(MM)	Total Movement IN (MM)
EFCT-400	Wall/Ceiling	4.00" (102)	10.50" (267)	4.00" (102)
EFCT-600	Wall/Ceiling	6.00" (152)	13.50" (343)	6.00" (152)
EFCT-800	Wall/Ceiling	8.00" (203)	16.50" (419)	8.00" (203)
EFCT-400W	Wall/Ceiling Corner	4.00" (102)	7.25" (184)	2.00" (51)
EFCT-600W	Wall/Ceiling Corner	6.00" (152)	9.75" (248)	3.00" (76)
EFCT-800W	Wall/Ceiling Corner	8.00" (203)	12.25" (311)	4.00" (102)

INTERIOR WALL/CEILING FLAT/CORNER COVER

EXPOSED FINISH: CLEAR ANODIZED

MOVEMENT: +/- 50% JOINT WIDTH (FLAT COVER)

MOVEMENT: +/- 25% JOINT WIDTH (CORNER COVER)

STOCK LENGTHS: 10'-0"

NO.	Description	Date	By
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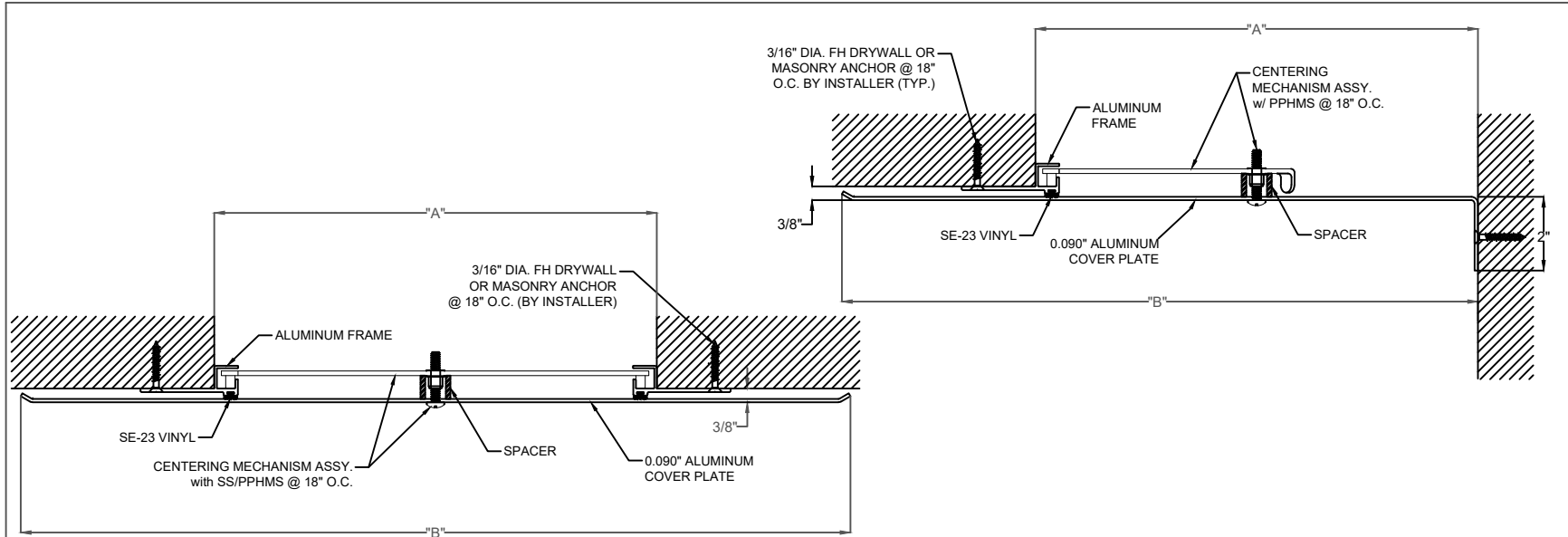


13311 Main Road * Akron * New York * 14001
 Phone: (716) 542-3991 * Fax: (716) 542-3996 * E-mail: sales@eriemetal.com

PROJECT:

TITLE: EFCT-400/400W, 600/600W, 800/800W

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	EFCT-1



INTERIOR WALL/CEILING FLAT/CORNER COVER

EXPOSED FINISH: CLEAR ANODIZED

MOVEMENT: +/- 50% JOINT WIDTH (FLAT COVER)

MOVEMENT: +/- 25% JOINT WIDTH (CORNER COVER)

STOCK LENGTHS: 10'-0"

PRODUCT	Application	Joint Size "A" @ Mean T°F	Exposed Site line "B" IN(MM)	Total Movement IN (MM)
EFCT-1000	Wall/Ceiling	10.00" (254)	19.50" (495)	10.00" (254)
EFCT-1200	Wall/Ceiling	12.00" (305)	22.50" (572)	12.00" (305)
EFCT-1000W	Wall/Ceiling Corner	10.00" (254)	14.75" (375)	5.00" (127)
EFCT-1200W	Wall/Ceiling Corner	12.00" (305)	17.25" (438)	6.00" (152)

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PROJECT:

TITLE: EFCT-1000/1000W, 1200/1200W

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	EFCT-1