



# 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)

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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:

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## 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: \_\_\_\_\_

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

# ELCD Series - Drywall Bead Application

Interior Joints (Wall)

## FEATURES

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

**MAXIMUM MOVEMENT** "V" seal design allows for maximum thermal and seismic movement

**DRYWALL BEAD FLANGE** Designed for drywall applications with punched holes for easy mounting. Drywall mud is floated overtop of flange and easily painted leaving only the seal exposed.

## DETAILS

### MATERIAL

6063-T6 Aluminum, Meets ASTM B209

**FINISH** Mill

### MOVEMENT

- Thermal: Horizontal
- Seismic: Lateral Shaer

**MOUNTING** Flush with Drywall Bead

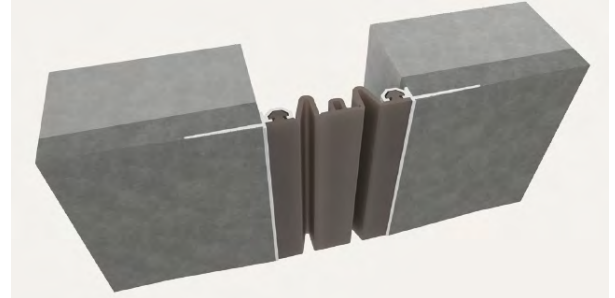
**JOINT SIZE** 2 to 6 inches

**SEAL LENGTH** Continuous

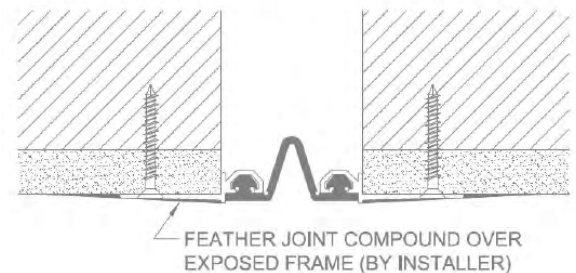
**APPLICATION** Interior

**INSTALLATION** Wall or Ceiling

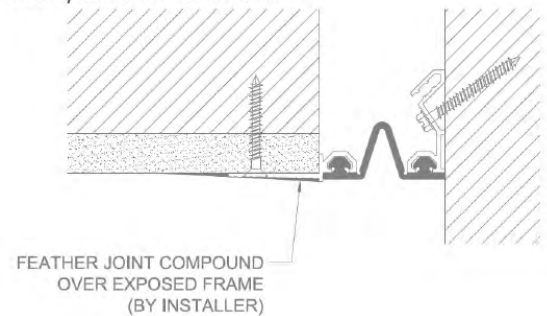
**OPTIONS** Additional size and material options available upon request.



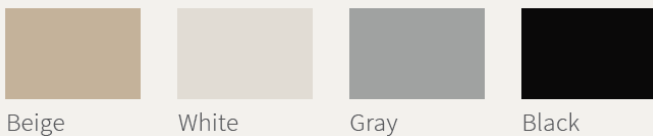
### WALL/CEILING-TO-WALL/CEILING



### WALL/CEILING-TO-CORNER



## SEAL COLORS



## MODELS

MODEL	APPLICATION	JOINT SIZE AT MEAN T°F	EXPOSED SIGHT LINE	TOTAL MOVEMENT
ELCD-200	Wall/Ceiling to Wall/Ceiling	2" (51mm)	2" (51mm)	2" (51mm)
ELCD-300	Wall/Ceiling to Wall/Ceiling	3" (76mm)	3" (76mm)	3" (76mm)
ELCD-400	Wall/Ceiling to Wall/Ceiling	4" (102mm)	4" (102mm)	4" (102mm)
ELCD-500	Wall/Ceiling to Wall/Ceiling	5" (127mm)	5" (127mm)	5" (127mm)
ELCD-600	Wall/Ceiling to Wall/Ceiling	6" (152mm)	6" (152mm)	6" (152mm)
ELCD-200W	Wall/Ceiling to Corner	2" (51mm)	2" (51mm)	2" (51mm)
ELCD-300W	Wall/Ceiling to Corner	3" (76mm)	3" (76mm)	3" (76mm)
ELCD-400W	Wall/Ceiling to Corner	4" (102mm)	4" (102mm)	4" (102mm)
ELCD-500W	Wall/Ceiling to Corner	5" (127mm)	5" (127mm)	5" (127mm)
ELCD-600W	Wall/Ceiling to Corner	6" (152mm)	6" (152mm)	6" (152mm)



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

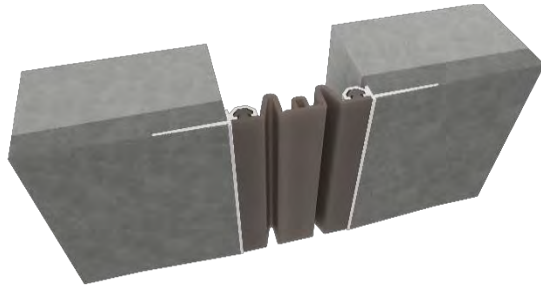
Phone: 716-542-3991  
Website: [www.eriemetal.com](http://www.eriemetal.com)  
E-Mail: [sales@eriemetal.com](mailto:sales@eriemetal.com)

# ELCD-Series Installation Instructions

## SEISMIC ELASTOMERIC CORRIDOR WALL & CEILING SYSTEM - DRYWALL BEAD APPLICATION

**MODEL(S): ELCD/ELCDw**

### ELCD Wall to Wall / Ceiling to Ceiling Cover System



#### GENERAL DESCRIPTION

The ELCD Seismic Elastomeric Drywall System limits the sight line of the expansion joint by using a drywall bead to mount the system outside the joint opening with a finished tape and mud process. The finished seal comes in four colors to match your surroundings and finish material.

**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
- Chop saw to cut product to length
- Electric drill with 5/32" masonry bit & 3/16" metal bit
- Utility knife

### Preinstallation

1. Ensure that the area where the expansion system is being installed is smooth and level.

### INSTALLATION

1. Position base member frames in expansion joints per shop drawings. Attach with screws (by installer) through the gypsum wallboard and into the structural support. If attaching into concrete, use the frames as a template, mark, and drill  $\text{Ø}5/32$ " holes in the concrete. Install base member frames with  $\text{Ø}3/16$ " Tapcon fasteners (by installer). **See Figure 1.**

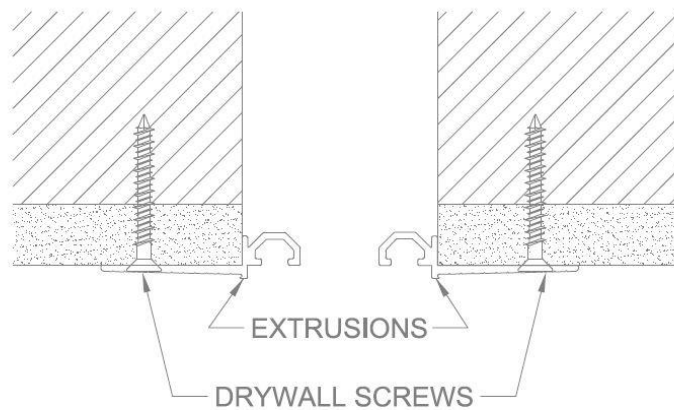


FIGURE 1

2. Position the elastomeric seal into position and push the seal bulbs into the extrusion channels as shown. Make sure the bulbs are seated all the way into the channel. Do not stretch the seal lengthwise during installation. **See Figure 2.**

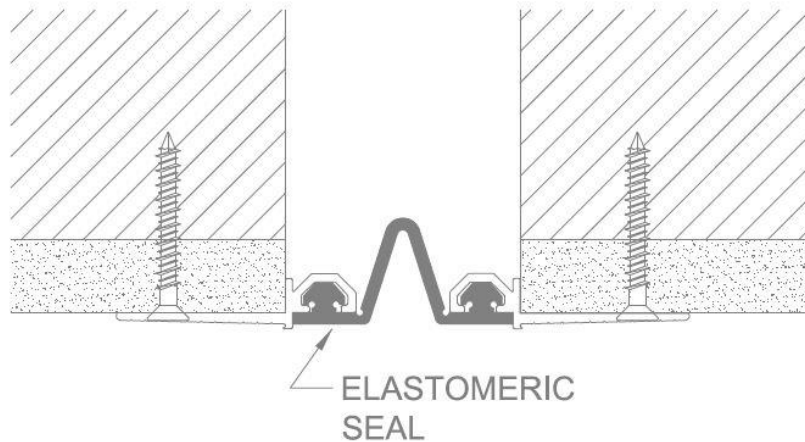


FIGURE 2

3. Protect the elastomeric seal with tape and feather joint compound (by installer) over the exposed aluminum frames and onto the gypsum wallboard. Remove tape after wall or ceiling has been finished. **See Figure 3.**

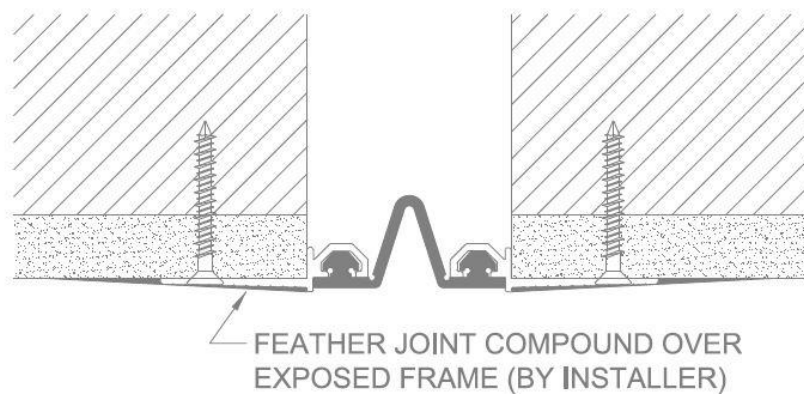
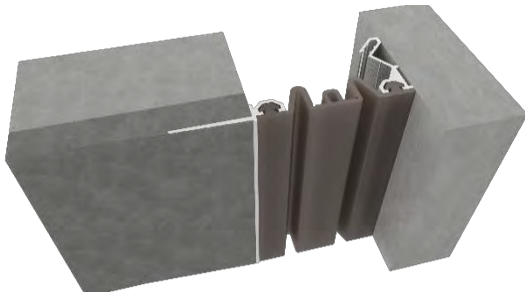


FIGURE 3

## ELCDw Wall to Corner / Ceiling to Corner Cover System



### GENERAL DESCRIPTION

The ELCDw Seismic Elastomeric Drywall System is designed to match the ELCD system in corner applications.

### Preinstallation

1. Ensure that the area where the expansion joint system is being installed is smooth and level.

### INSTALLATION

1. Position base member frame in expansion joint per shop drawings. Attach with screws (by installer) through the gypsum wallboard and into the structural support. 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 installer) for the wall type at 18" O.C. See **Figure 4**.

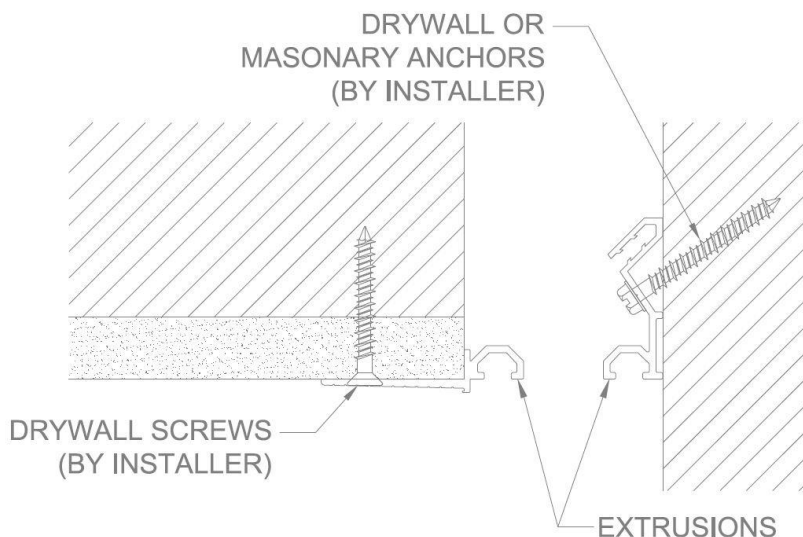


FIGURE 4



2. 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. Do not stretch the seal lengthwise during installation. **See Figure 5.**

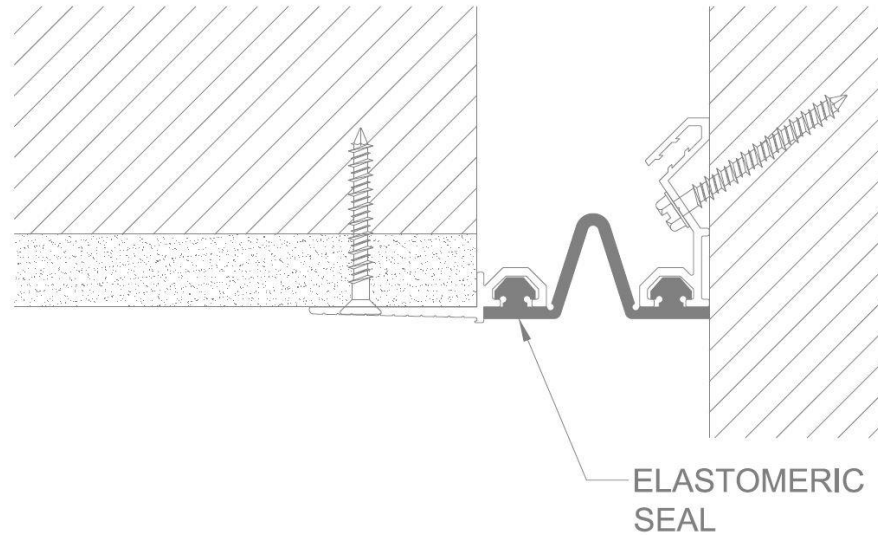


FIGURE 5

3. Protect the elastomeric seal with tape and feather joint compound (by others) over the exposed aluminum frames and onto the gypsum wallboard. Remove tape after wall or ceiling has been finished. **See Figure 6.**

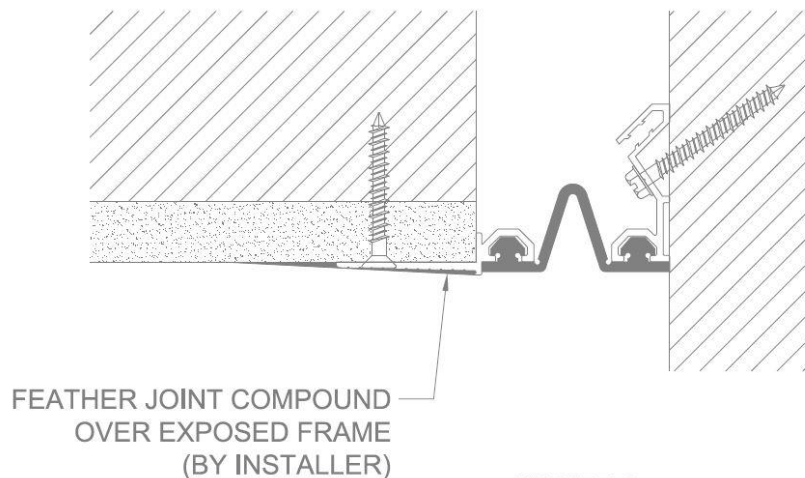


FIGURE 6



## FIELD SPLICE FOR ELASTOMERIC V-SEAL

1. After determining the angle needed, use a miter box and a non-serrated saw (teeth removed) and cut ends of seal clean, straight and square. **See Figure 1**

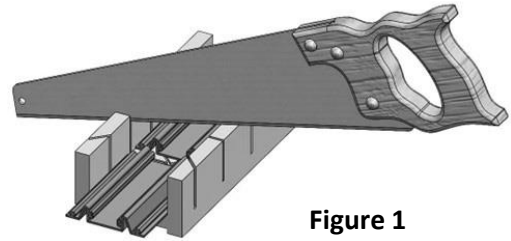


Figure 1

2. After donning the proper PPE, use a solvent (by others) that is safe for elastomeric materials and clean any residual material from the cut ends of the seals. Allow to dry prior to Step #3. **See Figure 2**

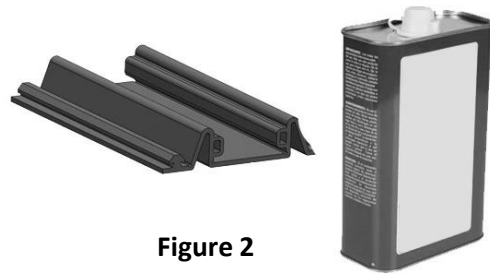


Figure 2

### Straight Butt Splice

Insert splice clips (if required) (part # 27511) halfway into the alignment holes on one of the seals. Apply glue, cyanoacrylate or similar adhesive (by others) to both seal ends and follow instructions by the adhesive manufacturer. Almost immediately after adhesive is applied, insert the protruding ends of the splice clips into the ends of the two seals together, applying uniform pressure for at least two minutes while maintaining contact between both sides. The splice clip is not necessary, but is recommended, especially on larger sized seals. **See Figure 3**

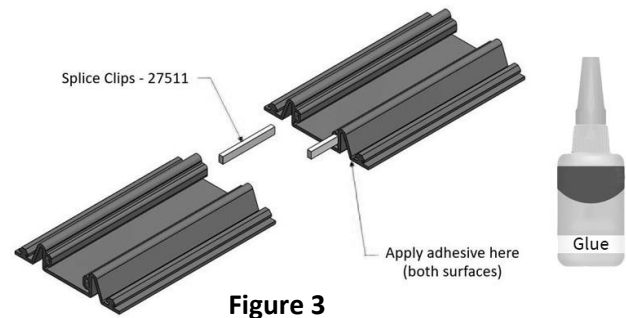


Figure 3

### Vertical Outside Splice

Insert splice clips (if required) (part # 28090) halfway into the alignment holes on one of the seals. Apply glue, cyanoacrylate or similar adhesive (by others) to both seal ends and follow instructions by the adhesive manufacturer. Almost immediately after adhesive is applied, insert the protruding ends of the splice clips into the ends of the two seals together, applying uniform pressure for at least two minutes while maintaining contact between both sides. The splice clip is not necessary, but is recommended, especially on larger sized seals. **See Figure 4**

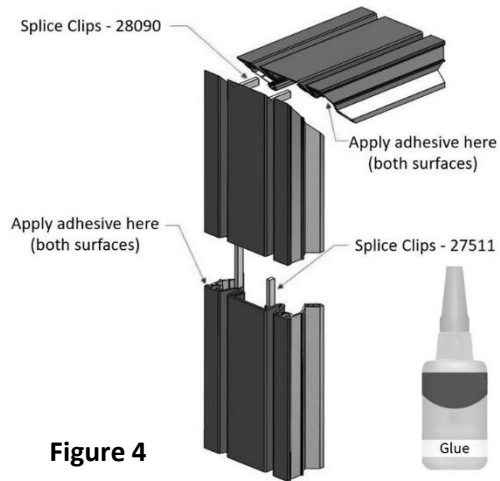


Figure 4

### Vertical Inside Splice

Insert splice clips (if required) (part # 28090) halfway into the alignment holes on one of the seals. Apply glue, cyanoacrylate or similar adhesive (by others) to both seal ends and follow instructions by the adhesive manufacturer. Almost immediately after adhesive is applied, insert the protruding ends of the splice clips into the ends of the two seals together, applying uniform pressure for at least two minutes while maintaining contact between both sides. The splice clip is not necessary, but is recommended, especially on larger sized seals. **See Figure 5**

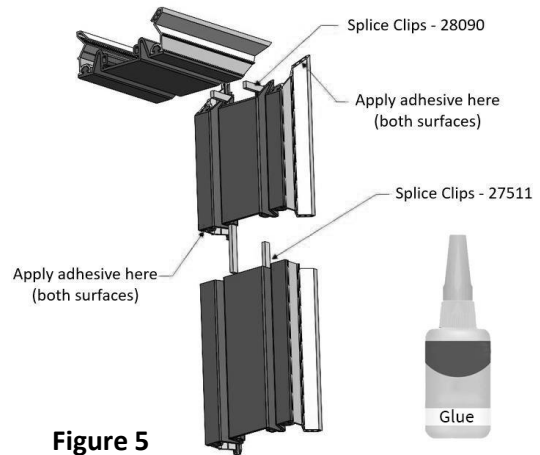


Figure 5

### Horizontal Splice

Insert splice clips (if required) (part # 28091) halfway into the alignment holes on one of the seals. Apply glue, cyanoacrylate or similar adhesive (by others) to both seal ends and follow instructions by the adhesive manufacturer. Almost immediately after adhesive is applied, insert the protruding ends of the splice clips into the ends of the two seals together, applying uniform pressure for at least two minutes while maintaining contact between both sides. The splice clip is not necessary, but is recommended, especially on larger sized seals. See Figure 6

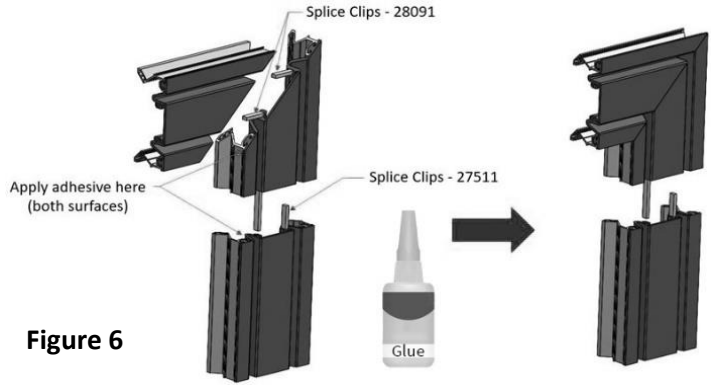


Figure 6

3. Recheck the splices after the adhesive has cured and reapply adhesive as necessary. Allow 15 minutes prior to installation of seal. Allow 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, if possible.

See Figure 7



Figure 7



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Website: [www.eriemetal.com](http://www.eriemetal.com)

## **SPECIFICATION**

### **Section 07 95 13**

#### **Erie Metal Specialties, Interior Architectural Systems**

#### **Model(s) ELCD, ELCE, ELCA, ELCH Series for Wall, Soffit and Ceiling**

#### **Interior Seismic 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 and aluminum profiles.
  
- B. Related Work
  - Miscellaneous and ornamental metals
  - Sealants and caulking
  - Interior Finishes

#### **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](mailto:sales@eriemetal.com) • [www.eriemetal.com](http://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 called for in the base product specification.
- C. Any proposed alternate systems must be submitted and receive approval 21 days prior to the bid. All post bid submittals will not be considered. This submission shall be in accordance with MATERIALS AND SUBSTITUTIONS.



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Website: [www.eriemetal.com](http://www.eriemetal.com)

- Any manufacturer wishing to submit for prior approval must provide the following:

1. A working 6" sample of the proposed system with a letter describing how system is considered superior to the specified system.
2. A project proposal drawing that illustrates the recommended alternate system installed in the wall or ceiling construction that is specific to the project. Typical catalog cut sections will not be considered.
3. Verifiable list of prior installations showing prior and successful experience with the proposed systems.
4. Any substitution products not adhering to all specification requirements within, will not be considered.

#### 1.05 Quality Assurance

- A. Warranty: The expansion control system's performance shall be warranted for a period of 1 year. Installation shall be in strict accordance with manufacturer's technical specifications, details, installation instructions and general procedures in effect for normal intended usage and suitable applications under specified design movements and loading conditions.
- B. Manufacturer: Shall have a minimum ten (10) years experience specializing in the design and manufacture of Architectural Expansion Control Systems.
- C. Maintenance: The manufacturer shall provide the owner-operator a preventive maintenance guideline for Expansion Control Systems.

## **PART 2 - PRODUCT**

#### 2.01 General

- A. Provide interior wall and ceiling expansion joint system that incorporates specially engineered elastomeric colorable profiles to facilitate multi-directional seismic movement without stress to adjacent components. Design system to be easily installed and surface mounted to traditional drywall construction utilizing drywall screws. Aluminum extrusions shall be designed with mounting flanges exhibiting factory pre-punched holes properly sized and spaced to receive joint compound.

For walls, soffits and ceilings furnish Erie Metal Specialties, Model "ELCA, ELCD, ELCE, ELCH" Expansion Control System as indicated on drawings.



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Website: [www.eriemetal.com](http://www.eriemetal.com)

## 2.02 Components and Materials

- A. Aluminum Extrusions - Material to conform to properties of ASTM B221, alloy 6063-T5. Profile shall be lightweight and capable of accommodating various wall and ceiling conditions. Design profile with semi-closed extrusion cavity and features that will provide a mechanical lock for the Elastomeric Seal.
- 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. The seal shall be a multi-cellular profile with side lugs that mechanically snap lock into a corresponding extrusion cavity without assistance from fasteners for a secure fit.
- D. Anchors - Secure aluminum extrusion(s) by utilizing standard drywall screws for gypsum wall board construction. Screws are supplied by others and shall be of proper length to secure aluminum extrusion. Locate screws within solid metal between factory pre-punched flange holes. Anchor spacing shall be 24" c.c. maximum.
- E. Accessories - Provide necessary and related parts required for complete installation.

## 2.03 Fabrication

- A. Aluminum extrusions shall be supplied in 10 ft. lengths. The contractor shall be responsible for field cutting the extrusion to obtain the proper joint profile. All cutting and mitering of the seal required at directional changes shall be performed by the contractor in a neat and workmanlike manner utilizing manufacturers recommended splice clips and adhesive.
- C. All anchor holes shall be field drilled in accordance with manufacturer's drawings. Spacing shall be a maximum of 24" c.c.

## 2.04 Finishes

- A. Aluminum extrusions shall be supplied in standard mill finish.
- B. Elastomeric seals shall be supplied in standard colors - Black, beige, and gray. Optional custom colors available

## **PART 3 - EXECUTION**

### 3.01 Installation

- A. Protect all expansion joint component parts from damage during installation and thereafter until completion of structure.



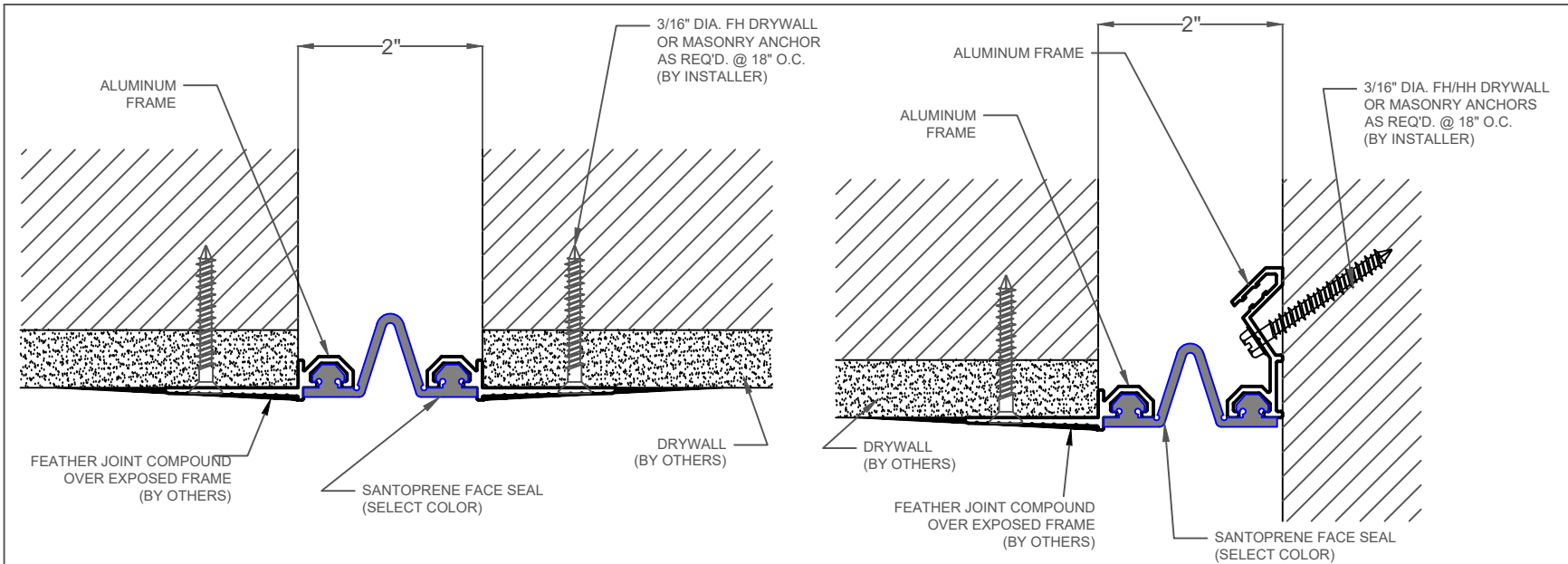
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- B. Expansion joint systems shall be installed in strict accordance with the manufacturer's typical details and instructions along with the advice of their qualified representative.
- C. Contractor shall provide proper and adequate adjacent construction to receive and support the expansion control joint system. The supporting framework (studding) shall be of design to secure all threaded hardware and provide rigidity for the proper installation and function of the joint system.

### 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.





SEAL COLOR SELECTOR			
BLACK	_____	WHITE	_____
BEIGE	_____	GRAY	_____

***INTERIOR WALL & CLG. FLAT/CORNER DRYWALL SYS.***  
 MOVEMENT: +/- 50% NOMINAL JOINT WIDTH  
 STOCK LENGTHS: ALUMINUM FRAMES: 10'  
 SEAL: CONTINUOUS

PRODUCT	Application	Joint Size @ Mean T°F	Exposed Site line: IN (MM)	Total Movement IN (MM)
ELCD-200	Wall/Ceiling	2.00" (51)	2.00" (51)	2.00" (51)
ELCD-200W	Wall/Ceiling Corner	2.00" (51)	2.00" (51)	2.00" (51)

NO.	Description	Date	By
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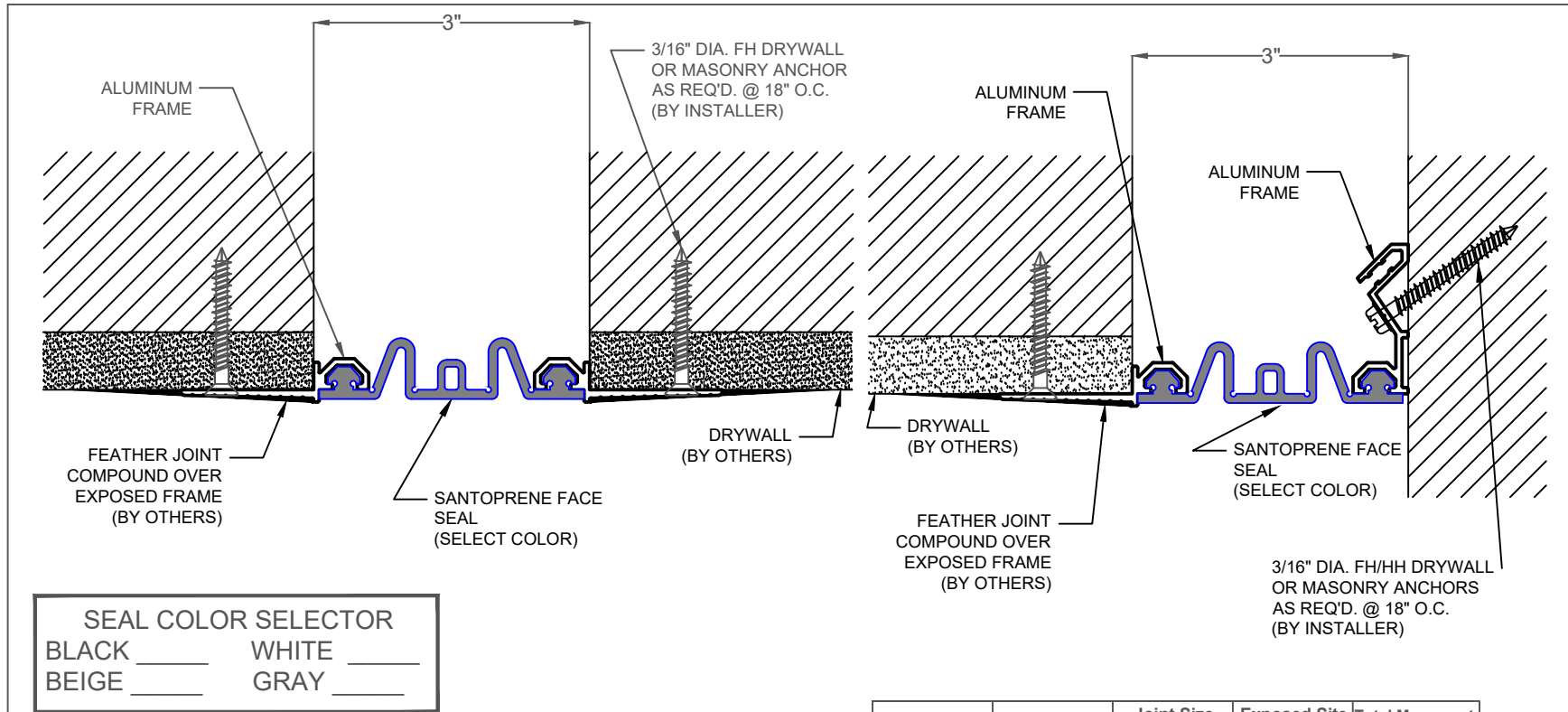


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 Phone: (716) 542-3991 \* Fax: (716) 542-3996 \* E-mail: sales@eriemetal.com

PROJECT: \_\_\_\_\_

TITLE: ELCD-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	ELCD-1



***INTERIOR WALL & CLG. FLAT/CORNER DRYWALL SYS.***  
 MOVEMENT: +/- 50% NOMINAL JOINT WIDTH  
 STOCK LENGTHS: ALUMINUM FRAMES: 10'  
 SEAL: CONTINUOUS

PRODUCT	Application	Joint Size @ Mean T°F	Exposed Site line: IN (MM)	Total Movement IN (MM)
ELCD-300	Wall/Ceiling	3.00" (76)	3.00" (76)	3.00" (76)
ELCD-300W	Wall/Ceiling Corner	3.00" (76)	3.00" (76)	3.00" (76)

NO.	Description	Date	By
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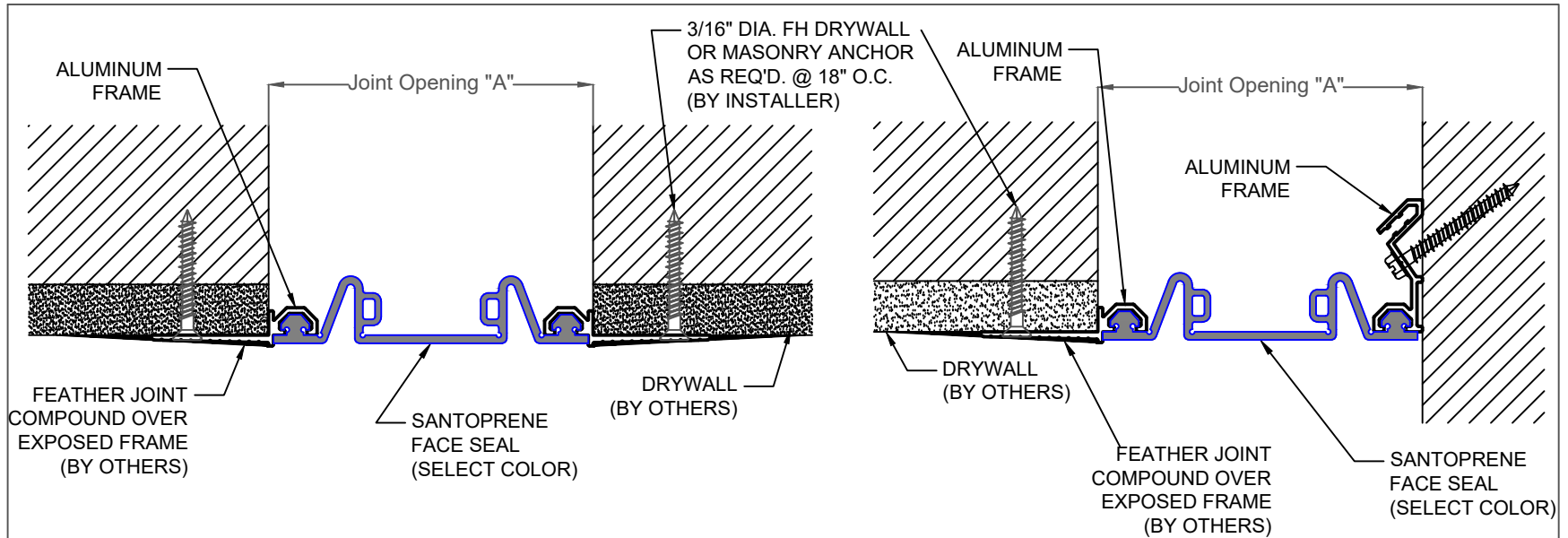


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 Phone: (716) 542-3991 \* Fax: (716) 542-3996 \* E-mail: sales@eriemetal.com

PROJECT: \_\_\_\_\_

TITLE: ELCD-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	ELCD-1



**SEAL COLOR SELECTOR**  
 BLACK \_\_\_\_\_ WHITE \_\_\_\_\_  
 BEIGE \_\_\_\_\_ GRAY \_\_\_\_\_

**INTERIOR WALL & CLG. FLAT/CORNER DRYWALL SYS.**

MOVEMENT: +/- 50% NOMINAL JOINT WIDTH  
 STOCK LENGTHS: ALUMINUM FRAMES: 10'  
 SEAL: CONTINUOUS

PRODUCT	Application	Joint Size "A" @ Mean T°F	Exposed Site line: IN (MM)	Total Movement IN (MM)
ELCD-400	Wall/Ceiling	4.00" (102)	4.00" (102)	4.00" (102)
ELCD-500	Wall/Ceiling	5.00" (127)	5.00" (127)	5.00" (127)
ELCD-600	Wall/Ceiling	6.00" (152)	6.00" (152)	6.00" (152)
ELCD-400W	Wall/Ceiling Corner	4.00" (102)	4.00" (102)	4.00" (102)
ELCD-500W	Wall/Ceiling Corner	5.00" (127)	5.00" (127)	5.00" (127)
ELCD-600W	Wall/Ceiling Corner	6.00" (152)	6.00" (152)	6.00" (152)

NO.	Description	Date	By
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PROJECT: \_\_\_\_\_

TITLE: ELCD-400/400W, 500/500W, 600/600W

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	ELCD-1