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: ELCE-Series Ceiling System

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

Address: 13311 Main Road, Akron, NY 14001

Trade Name: ELCE-Series Model No.: ELCE

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:
None

☐ Point-by-point comparative data attached — REQUIRED BY A/E

Reason for not providing specified item: _____

Similar Installation:

Project: See attached 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

ELCE Series - Ceiling System

Interior Joints (Ceiling)

FEATURES

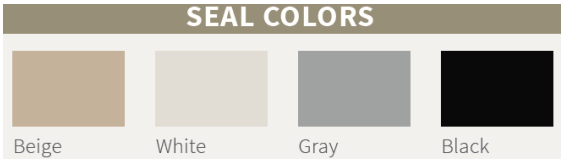
MAXIMUM MOVEMENT "V" seal design allows for maximum thermal and seismic movement

ACOUSTIC CEILING Fully integrated with suspended ceiling grid system.

DETAILS

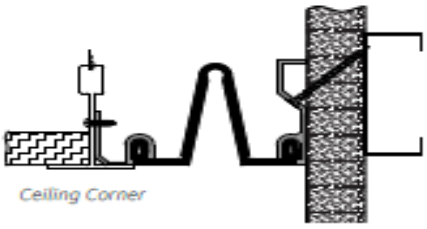
MATERIAL
6063-T6 Aluminum, Meets ASTM B209
FINISH Mill
MOVEMENT
- Thermal: Horizontal & Vertical
- Seismic: Lateral Shear

MOUNTING Flush
JOINT SIZE 2 to 6 inches
SEAL LENGTH Continuous
APPLICATION Interior
INSTALLATION Ceiling



*For actual seal colors, please contact EMS for a seal sample

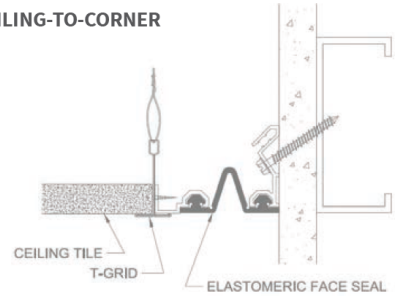
Sizes 2"-4":



Sizes 5"+:

CEILING-TO-CEILING

CEILING-TO-CORNER



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

Erie Metal Specialties, Inc.
13311 Main Road
Akron, NY 14001
Phone: 716-542-3991
Website: www.eriemetal.com
E-Mail: sales@eriemetal.com

ELCE-Series Installation Instructions

Interior Joints (Ceiling)

SEISMIC ELASTOMERIC CORRIDOR CEILING SYSTEM – ACOUSTICAL TILE APPLICATION

MODEL(S): ELCE/ELCEW

ELCE Ceiling to Ceiling Cover System

GENERAL DESCRIPTION

The ELCE Seismic Elastomeric Ceiling System uses an aluminum channel attached to the grid system above the sight line. The finished elastomeric seal comes in four colors to match the surrounding substrate and finish material. This system accommodates seismic movement.

Introduction + Safety

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.

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 the 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 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.

Erie Metal Specialties, Inc. | 13311 Main Rd., Akron, NY 14001 | (716) 542-3991 | sales@eriemetal.com

Tool List

- Tape measure
- Chop saw to cut product to length
- Drill for installing fasteners
- Utility knife

Included with the expansion joint system:
#6 x ½" Sheet metal screw

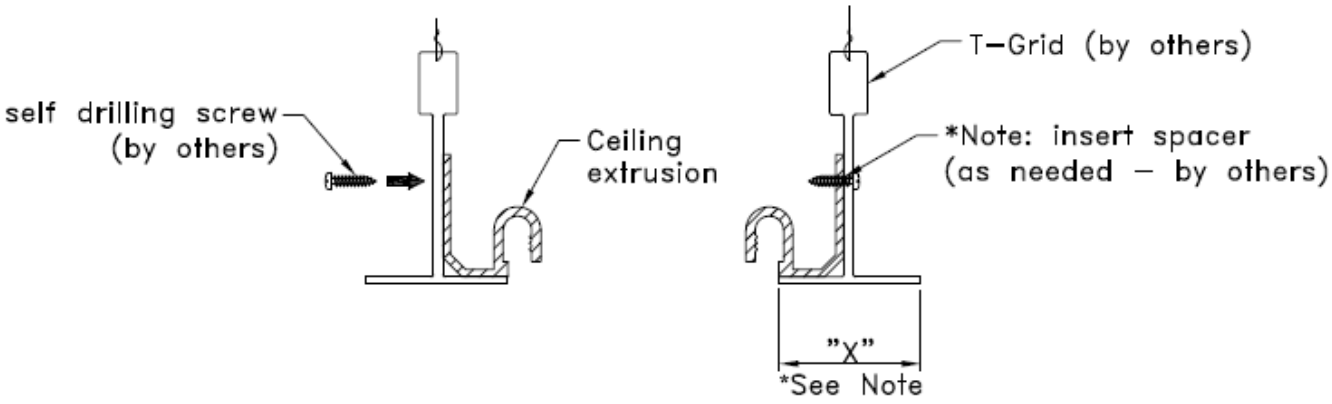
Preinstallation

1. Inspect that the ceiling system was properly constructed and the joint opening matches what is required by the shop drawings.

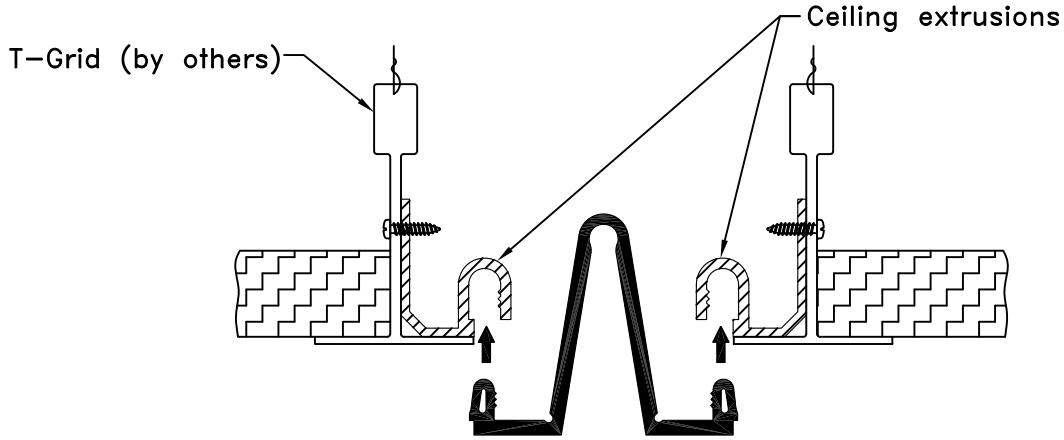
2. Remove ceiling grid on both sides of the joint opening to ease installation.

INSTALLATION

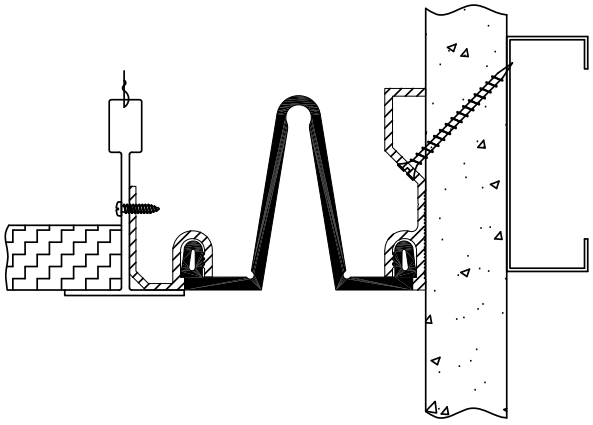
1. Position aluminum extrusions on the inside lip of the "T" grid as shown and attach with #6 self-drilling screws (included) 18" on center. **See Figure 1.**



2. Position the elastomeric seal into position and push the seal bulbs into the extrusion channels as shown. Make sure you hold the “T” grid securely and seat the bulbs all the way into the channel. Do not stretch the seal lengthwise during installation. **See Figure 2.**



ELCEw Ceiling to Corner Cover System

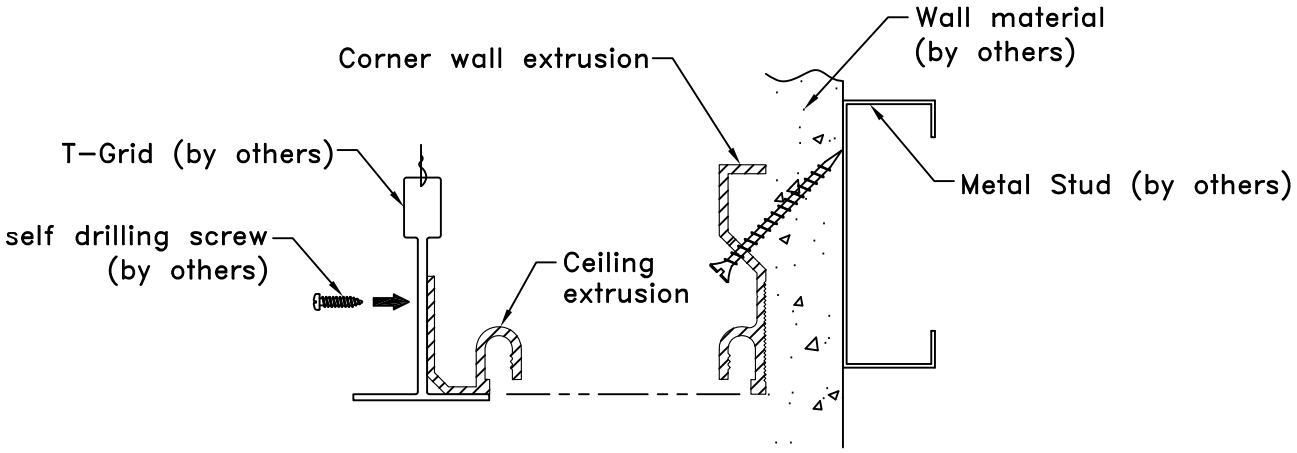


GENERAL DESCRIPTION

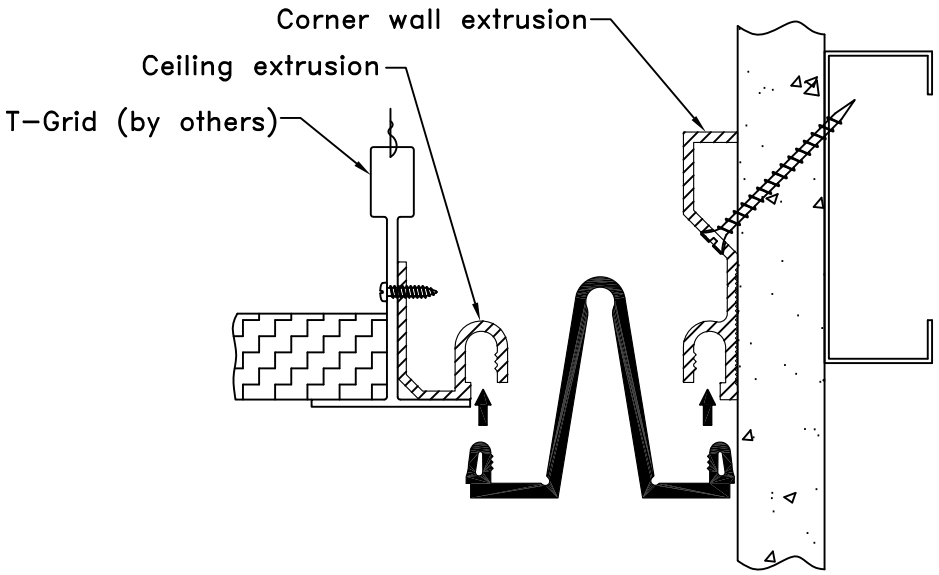
The ELCEw Seismic Elastomeric Ceiling System uses an aluminum channel attached to the grid system above the sight line. The finished elastomeric seal comes in four colors to match your surrounding substrate and finish material. This system accommodates seismic movement.

INSTALLATION

1. Position aluminum extrusion on the inside lip of the "T" grid as shown and attach with #6 self-drilling screws (included) 18" on center. On the wall side, position the corner extrusion so the extrusion channels are level with each other. Fasten with anchors (by installer) into the structural support. **See Figure 1.**



2. Position the elastomeric seal into position and push the seal bulbs into the extrusion channels as shown. Make sure you hold the “T” grid securely and seat the bulbs all the way into the channel. Do not stretch the seal lengthwise during installation. **See Figure 2.**



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**

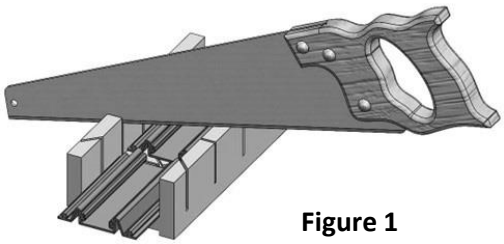


Figure 1

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**

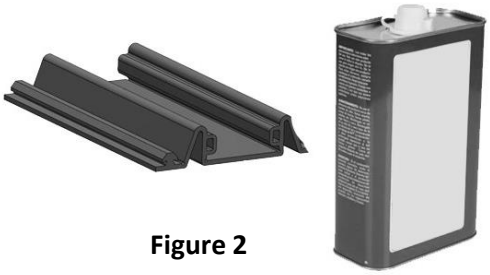


Figure 2

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**

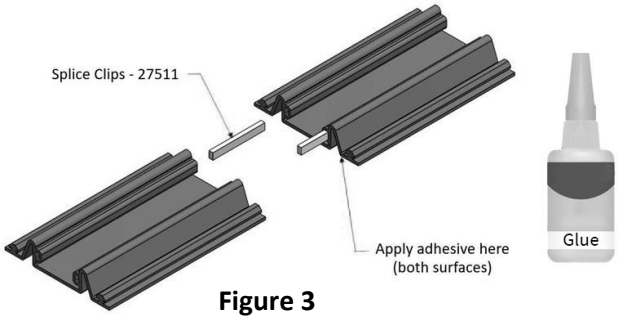


Figure 3

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**

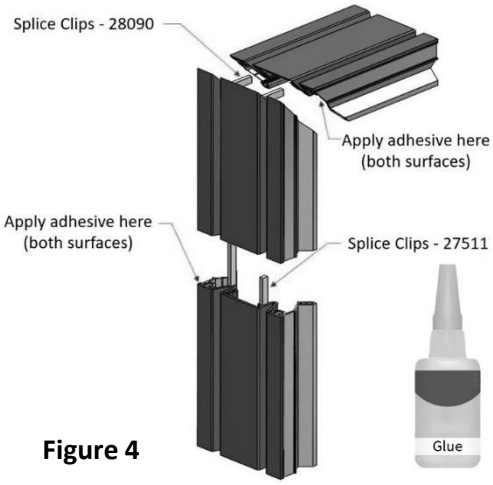


Figure 4

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**

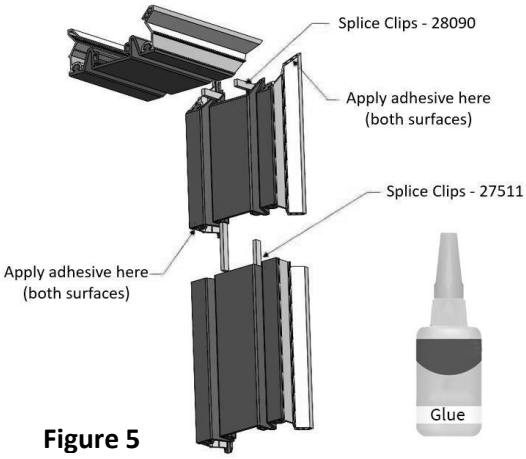


Figure 5

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**

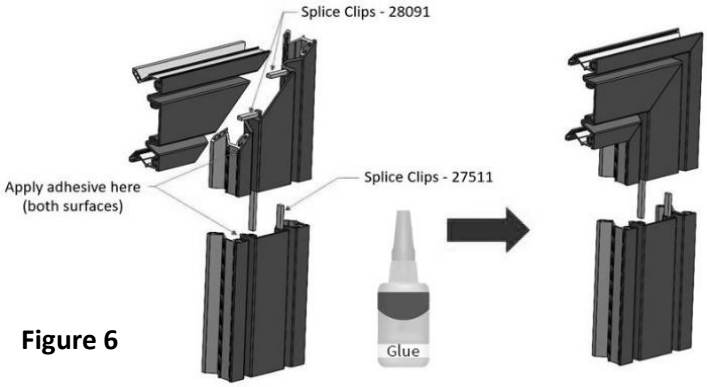


Figure 6

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

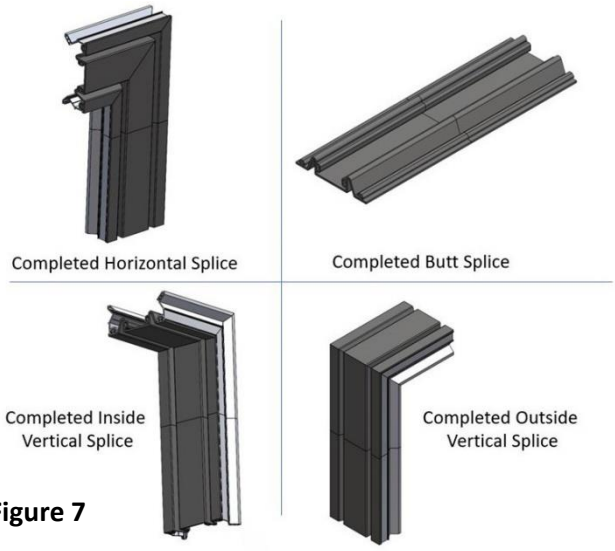
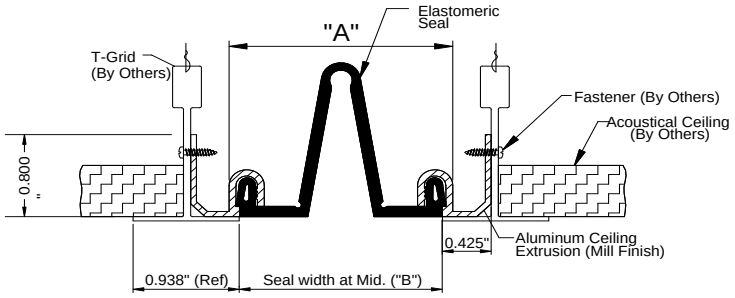
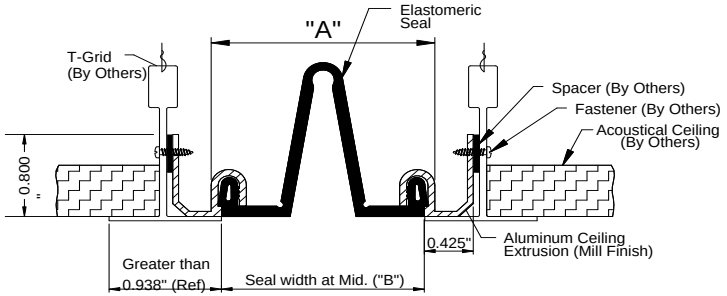


Figure 7



ELCE STANDARD DETAIL

CEILING TO CEILING CONDITION
(200 SHOWN)



ELCE DETAIL WITH SPACER

CEILING TO CEILING CONDITION
(200 SHOWN)

( ) - Denotes Millimeters

Dimension Chart					
MODEL	"A" @ Min.	"A" @ Mid.	"A" @ Max.	Total Movement	"B"
ELCE-100	0.75"(19)	1.00"(25)	1.25"(32)	0.50"(13)	0.75"(20)
ELCE-200	1.00"(25)	2.00"(51)	3.00"(76)	2.00"(51)	1.75"(44)
ELCE-300	1.50"(38)	3.00"(76)	4.50"(114)	3.00"(76)	2.75"(70)
ELCE-400	2.00"(51)	4.00"(102)	6.00"(152)	4.00"(102)	3.75"(95)
ELCE-500	2.50"(64)	5.00"(127)	7.50"(191)	5.00"(127)	4.75"(121)
ELCE-600	3.00"(76)	6.00"(152)	9.00"(229)	6.00"(152)	5.75"(146)

ELCE-100

ELCE-200

ELCE-300

ELCE-400

ELCE-500

ELCE-600

NO.	Description	Date	By

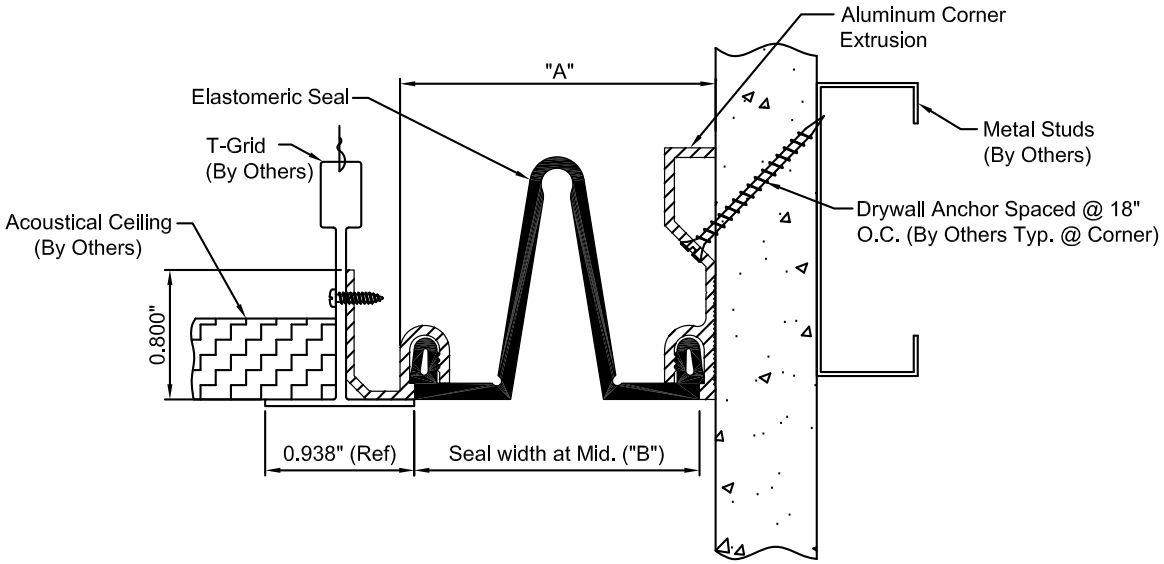
ERIE METAL SPECIALTIES

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

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.:



ELCE-W DETAIL

CEILING TO WALL CONDITION

( ) - Denotes Millimeters

Dimension Chart					
MODEL	"A" @ Min.	"A" @ Mid.	"A" @ Max.	Total Movement	"B"
ELCE-100W	0.75"(19)	1.00"(25)	1.25"(32)	0.50"(13)	0.75"(20)
ELCE-200W	1.00"(25)	2.00"(51)	3.00"(76)	2.00"(51)	1.75"(44)
ELCE-300W	1.50"(38)	3.00"(76)	4.50"(114)	3.00"(76)	2.75"(70)
ELCE-400W	2.00"(51)	4.00"(102)	6.00"(152)	4.00"(102)	3.75"(95)
ELCE-500W	2.50"(64)	5.00"(127)	7.50"(191)	5.00"(127)	4.75"(121)
ELCE-600W	3.00"(76)	6.00"(152)	9.00"(229)	6.00"(152)	5.75"(146)

NO.	Description	Date	By

ERIE METAL SPECIALTIES

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PROJECT:

TITLE:

Detailed by: BAF	Date: 10/21/17
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Sheet No.: 1 of 1	Drawing No.:

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Fax: 716-542-3996
E-mail: sales@eriemetal.com
Website: www.eriemetal.com

SPECIFICATION

Section 07 95 13

Erie Metal Specialties, Interior Architectural Systems

Model(s) 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 • 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

- 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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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" o.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" o.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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Fax: 716-542-3996
E-mail: sales@eriemetal.com
Website: www.eriemetal.com

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.