



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:

ALHCP-Series

Description

The ALHCP aluminum hinged cover plate is designed especially for areas where flooring material is needed to bridge a gap. The cover plate bridges the joint gap with minimal preparation for maximum protection. The hinged feature allows for differences in height and movement between the floor slabs.

The ALHCP Series are made from 6061-T5 or 6063-T6 aluminum alloy that is secured on one side of the floor by pre-drilled, countersunk holes anchored into the concrete. The anchors are set into a bed of epoxy adhesive to assure a sound anchor.

Recommended areas for usage include warehouses, parking structures, manufacturing facilities, retail spaces, and stock rooms where the finished floor is concrete. Additionally, they are used in architectural applications where the cover plate must provide safe passage over expansion joint voids and must also accent the interior application.

Optional accents such as color anodized, EPDM looped moisture barriers are available.

LEED Credits - One (1) LEED credit depending on the location of the project.

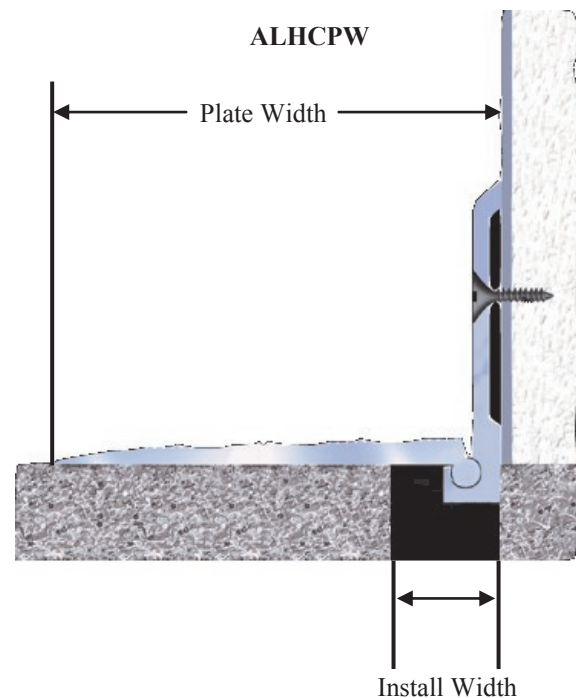
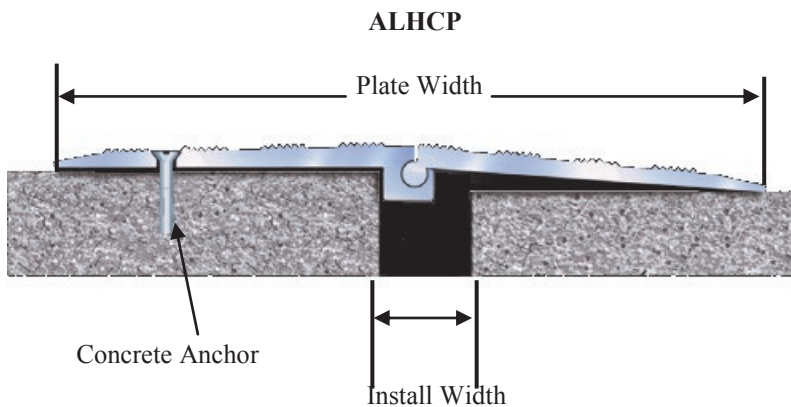
Features and Benefits

Ease of Installation – The layout of the anchor holes along the edge of the plate is a simple process. String line a straight edge parallel to the joint opening. Align the plate holes over the center of the string line and match drill for the anchors. Remove the plate. Clean out all the dust and debris. Place plate into position and install anchors.

Designed For Top Mount or Recessed – Either application may be accommodated. Each side has the required ADA slope for the thickness of the plate used.

Tested To ASTM D-1399 – The design was tested in compression, tension, and deflection for 500 cycles. No loss of anchors was noted.

Meets ADA Dictates – The ALHCP Series profiles are engineered to meet ADA standards for pedestrian concerns.



PRODUCT	INSTALL WIDTH IN (MM)	MAX. WIDTH IN (MM)	TOTAL MOVEMENT IN (MM)	PLATE WIDTH IN (MM)
ALHCP-200	2.00" (50.8)	3.00" (76.2.6)	2.00" (50.8)	8.00" (203.2)
ALHCP-300	3.00" (76.2)	7.00" (177.8)	4.00" (101.6)	13.13" (333.5)
ALHCP-400	4.00" (101.6)	7.50" (190.5)	5.50" (139.7)	16.00" (406.4)
ALHCP-600	6.00" (152.4)	14.00" (355.6)	8.00" (203.2)	19.80" (502.9)
ALHCPW-200	2.00" (50.8)	4.50" (114.3)	2.50" (63.5)	5.00" (127.0)
ALHCPW-300	3.00" (76.2)	6.50" (165.1)	3.50" (88.9)	7.00" (177.8)
ALHCPW-400	4.00" (101.6)	8.50" (215.9)	4.50" (114.3)	11.00" (279.4)



ALHCP-Series (Hinged Cover Plate)

INSTALLATION INSTRUCTIONS

Material Application

Designed for parking decks and slow vehicular traffic, as well as areas with pedestrian traffic.

Recommended Tools

- Electric Drill
- Tape measure or ruler
- Broom and dust pan or vacuum/blower
- Saw to cut joints to length
- 7/16" concrete drill bit
- Hammer
- Flash patch and utensils (optional)



Material Items for Installation

Erie Metal Specialties, Inc. supplies these items along with pre-drilled expansion joint covers:

- 1.p/n 5696: 3/8-1 6x4" SST Flat Head Machine Screw for anchoring (Qty. 11 per 10 ft. section)
- 2.p/n 5697: Hilti HY 150 2-part epoxy pack with 1 static mixing tip. (Qty. one 11.1 oz. pack fills 20-25 holes)
- 3.p/n 5698: Small static mixing tip, extra.

Additional items needed for the ALHCP expansion joint installation:

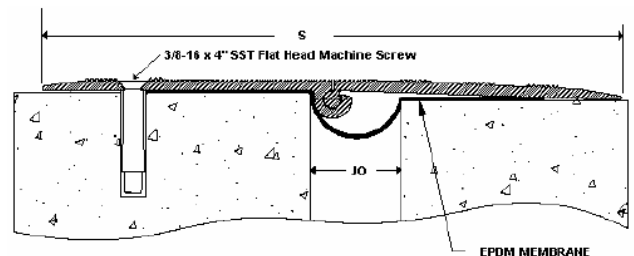
1. p/n 5699: Epoxy gun (shown above). This gun is unique to accommodate the two-part epoxy. (ordered separately)

Technical Specifications

The ALHCP system consists of a female half and a male half that are assembled together, creating a hinge that allows approximately a 20° rotation. The female section gets epoxied into the upper concrete/floor and the male half rests on the lower concrete/floor (when applicable). The ALHCP system accommodates both thermal and seismic (4 way) movements.

The halves are made of 6063-T6 mill finish, extruded 1/4" aluminum. The ALHCP system is ADA compliant to section 4.5.2: Up to a 1/4" vertical without edge treatment. Changes in level between 1/2" to 1/4" shall be sloped no greater than 1:2.

The EPDM membrane is a .060" thick 50 durometer commercial grade ethylene propylene rubber. It is used in applications where a vapor barrier is necessary. It is an optional item that is ordered separately.



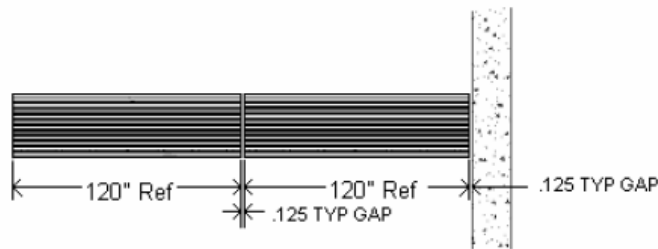
Unpacking and Inspection

Unpack and inspect the aluminum extrusion pieces to detect any damage due to shipping. If damage is detected or if parts are missing, please notify Erie Metal Specialties Customer Service.

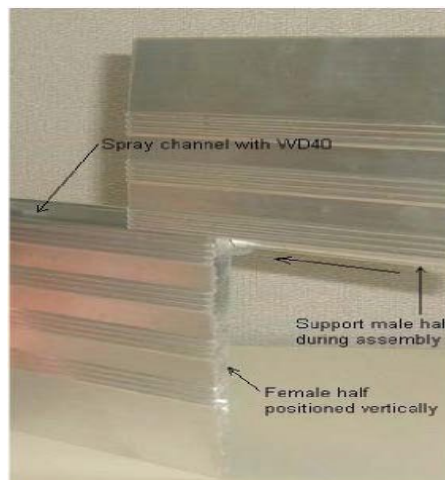
Inspect each extrusion piece, both male and female, to detect any burrs. Remove burrs using a metal file. These burrs may hinder the assembly process when mating the male and female pieces together.

Material Installation

1. Ensure that the floor is smooth. High spots should be ground down and low spots filled in. Make sure floor is clean by sweeping and/or vacuuming floor.
2. Cut and fit expansion joints to the required length. If installing more than one piece, lay out entire run to ensure proper alignment.

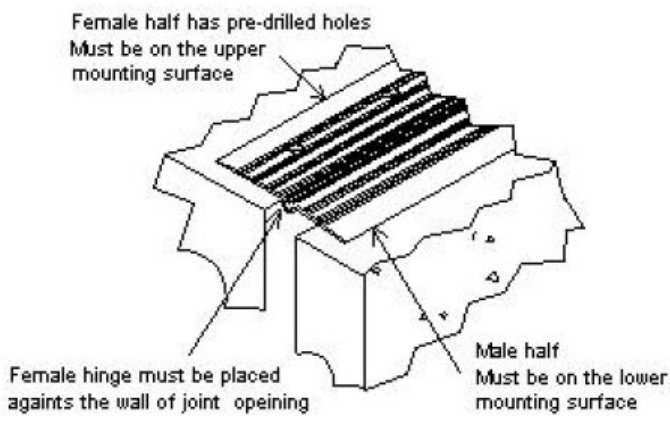


3. Optional EPDM membrane installation instructions: surfaces should be cleaned of dirt and grease on both sides. It is recommended to apply a thin layer of contact cement (Ashland Chemicals, plio bond 2375 or equivalent) to both sides of the EPDM membrane. Install membrane by inserting middle section into the expansion joint opening and press membrane to cement. The EPDM can also be nailed into concrete using gutter clips.
4. When assembling the two halves together, WD40 should be used as a lubricant. Place the female half vertically on end and spray the lubricant in the channel. Slide the male piece onto the female, making sure to fully support its weight. Vertical assembly (vs horizontal) will help eliminate flex and the possibility of binding. If necessary, you may use a non-metal hammer to apply more force to fully assemble the 10ft sections. Never hammer directly onto the expansion joint—damage will occur.

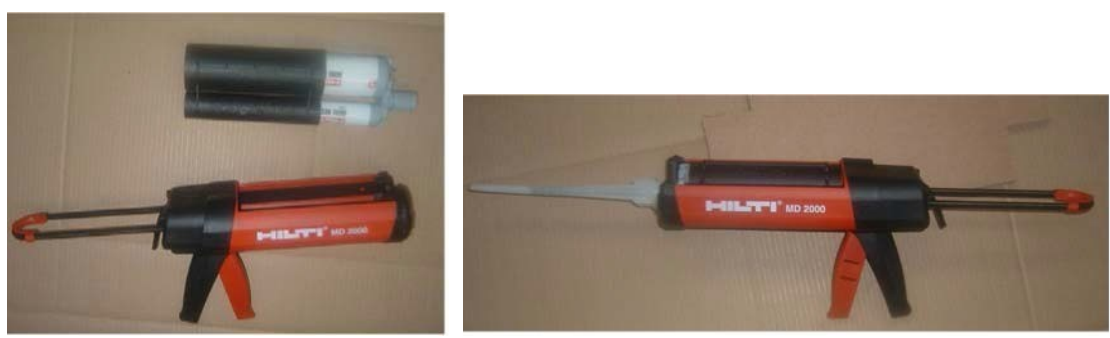


Material Installation

- When the two halves are assembled, place the female half up against the inside wall of the opening. Also, the female half should always be on the floor surface that is always above the other surface that the male half sits on. The male half's movement is restricted due to the joint and should not move above the female half.



- The female expansion joint has predrilled holes for the placement of mounting hardware. Transfer the location of these holes to the surface using a marker.
- Drill all marked holes using a 7/16" concrete drill bit to a min. depth of 4". All holes should be predrilled and cleaned prior to putting the epoxy gun and two-part HY 150 epoxy system together. The epoxy cures with time and can harden within the static mixing tip. An additional epoxy tip ships with the product and can be ordered separately if additional are needed, p/n 5698. Use precaution and safe handling of this high strength concrete adhesive.
- Assemble the epoxy gun and two-part epoxy along with the static mixing tip. The epoxy pack slides in the holder and then in the gun. Screw on the mixing tip. Discard the first 2 trigger pulls of adhesive.



Material Installation

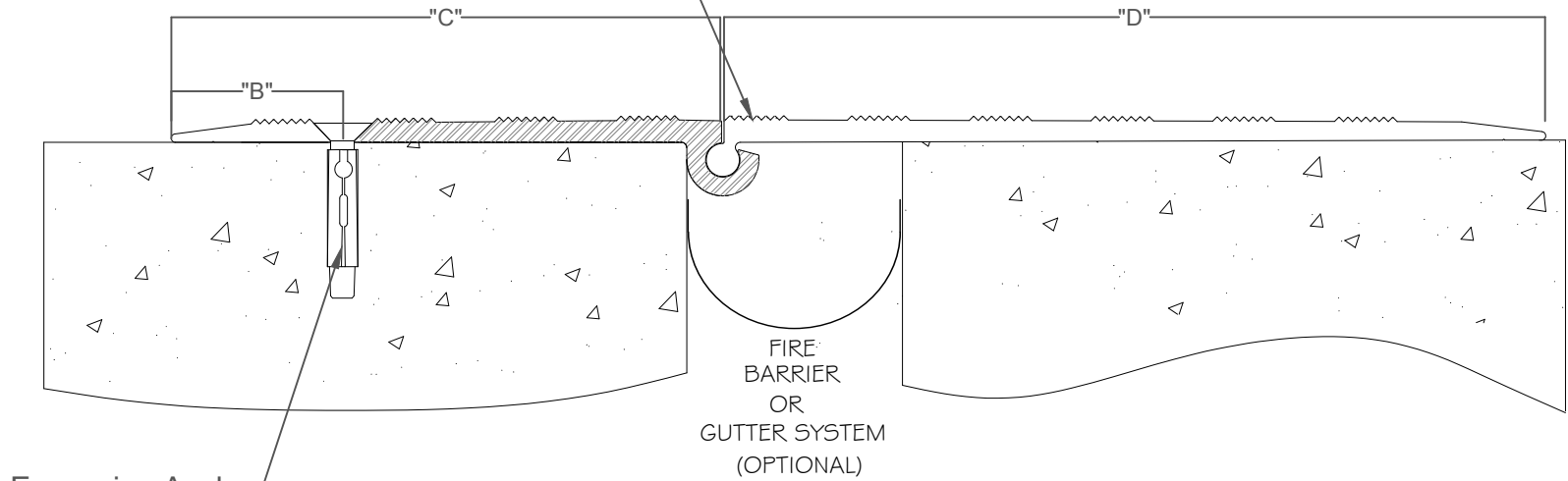
9. Fill one hole approximately 1/2 to 2/3 full of the mixed epoxy. Take the 3/8-16 x 4” flat head 18-8 stainless machine screw and press it into the epoxy filled hole. Use a flat head hammer, if necessary, to seat the flat head in the countersunk hole until flush with the surface of the aluminum expansion joint. The epoxy may take approximately 30 seconds to cure enough to hold the bolt in position. If the bolt should press out, continue to hold down until cured in place. It is important not to move on to the next bolt until the previous one is set.
10. To assure a smooth transition, it is an option to flash patch on the female side (anchored side) and feather back 2-3’.
11. Clean exposed surfaces with non-solvent cleaner as required.

Operation and Maintenance

1. Clean and protect system and its components during construction. After work is complete, clean exposed surfaces with a suitable cleaner that will not harm or attack the aluminum metal surface.
2. On-going maintenance shall include a visual check to verify that the bolts are properly seated and flush with the expansion joint cover.



ALHCP-Series Hinged Cover Plate



Expansion Anchor

FIRE BARRIER OR GUTTER SYSTEM (OPTIONAL)

PRODUCT	Install Width IN (MM)	Max Width IN (MM)	Total Movement IN (MM)	Plate Width IN (MM)	"B" IN (MM)	"C" IN (MM)	"D" IN (MM)
ALHCP-200	2.00" (50.8)	3.00" (76.2)	2.00" (50.8)	8.00" (203.2)	2.00" (51)	4.50" (114)	3.50" (89)
ALHCP-300	3.00" (76.2)	7.00" (177.8)	4.00" (101.6)	13.13" (333.5)	2.00" (51)	6.50" (165)	6.63" (168)
ALHCP-400	4.00" (101.6)	7.50" (190.5)	5.50" (139.7)	16.00" (406.4)	2.00" (51)	6.50" (165)	9.50" (241)
ALHCP-600	6.00" (152.4)	14.00" (355.6)	8.00" (203.2)	20.00" (508.0)	2.00" (51)	8.38" (213)	11.63" (295)

NO.	Description	Date	By
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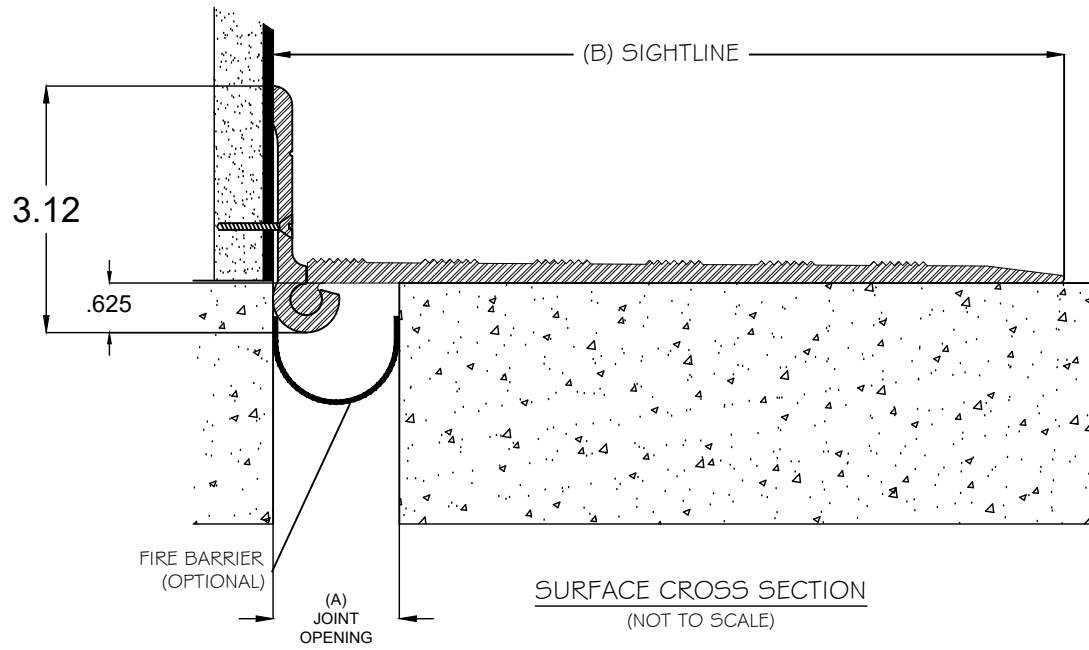
13311 Main Road * Akron * New York * 14001
 Phone: (716) 542-3991 * Fax: (716) 542-3996 * E-mail: sales@eriemetal.com

PROJECT: Floor-to-Floor Installation

TITLE: ALHCP-Series Hinged Cover Plate

Detailed by: BAF	Date: 6/21/17
Checked by: SLP	Date: 6/21/17
Scale: NTS	EMS Job #:
Sheet No.: 1 of 1	Drawing No.: ALHCP-001

(NOT TO SCALE)



PRODUCT	Install Width (A) IN (MM)	Max Width IN (MM)	Total Movement IN (MM)	Sightline (B) IN (MM)
ALHCPW-200	2.00" (50.8)	4.50" (114.3)	2.00" (50.8)	5.00" (127.0)
ALHCPW-300	3.00" (76.2)	6.50" (165.1)	4.00" (101.6)	7.00" (177.8)
ALHCPW-400	4.00" (101.6)	8.50" (215.9)	5.50" (139.7)	11.00" (279.4)

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: Floor-to-Wall Installation

TITLE: ALHCPW-Series Hinged Cover Plate

Detailed by: BAF	Date: 6/21/17
Checked by: SLP	Date: 6/21/17
Scale: NTS	EMS Job #:
Sheet No.: 1 of 1	Drawing No.: ALHCP-001