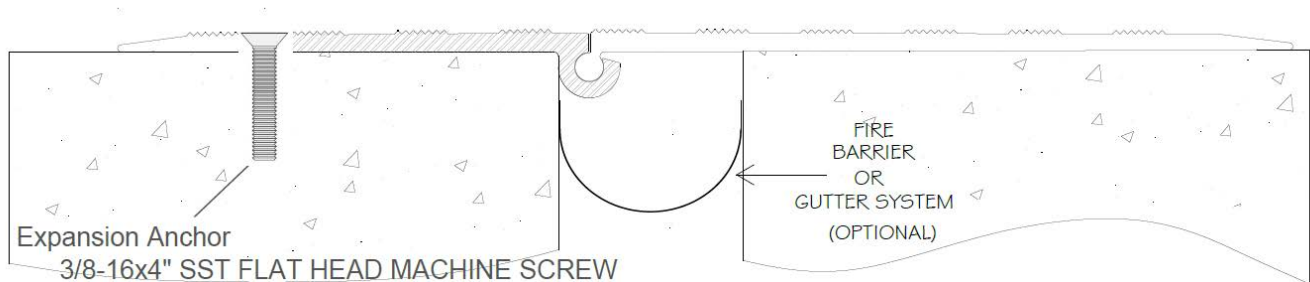




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Seal Flooring - Standard Series Model(s) "ALHCP" & "ALHCPW" Horizontal Expansion Control Systems

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.: 3/8-16x4" SST Flat Head Machine Screw for anchoring (Qty. 10 per 10 ft. section)
- 2.: Powers AC100+ Gold 2-part epoxy System with mixing tip. (Qty. one 10oz. pack fills 25-30 holes)

Additional items needed for the ALHCP expansion joint installation:

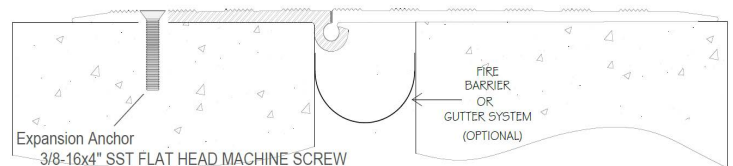
1. : Epoxy gun. This gun is unique to accommodate the two-part epoxy.
(ordered separately)

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 with-out 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.



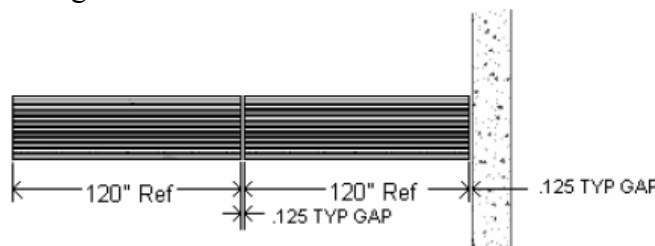
Unpacking and Inspection

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

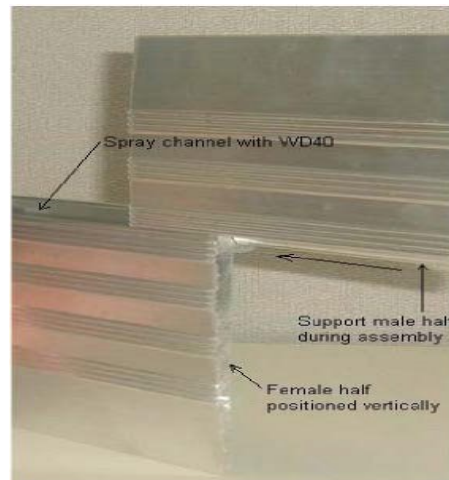
1. Ensure that the floor is smooth. High spots should be ground down and low spots filled in. Make sure floor is clean by sweeping and/or vacuuming floor.
2. Cut and fit expansion joints to the required length. If installing more than one piece, lay out entire run to ensure proper alignment.



Additional items needed for the ALHCP expansion joint installation:

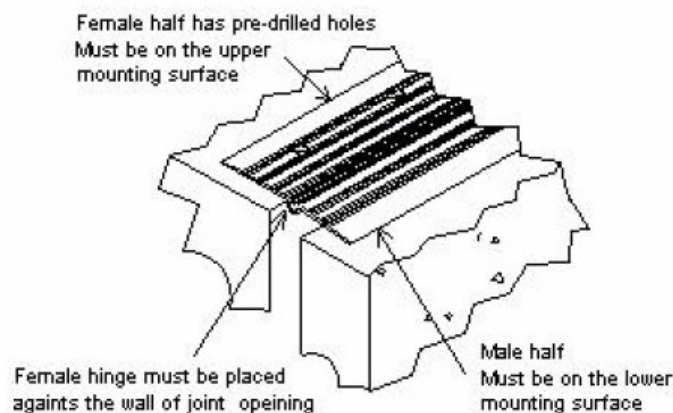
1. : Epoxy gun. This gun is unique to accommodate the two-part epoxy.
(ordered separately)

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

5. 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.



6. 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.
7. 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 AC100+ Gold 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. Use precaution and safe handling of this high strength concrete adhesive.
8. Assemble the epoxy gun and two-part epoxy along with the static mixing tip. The epoxy pack slides the gun. Screw on the mixing tip. Adhesive must be properly mixed to achieve published properties. Prior to dispensing adhesive into the drilled hole, separately dispense at least three full strokes of adhesive through the mixing nozzle until the adhesive is a consistent GRAY color. Do not attach a used nozzle when changing to a new cartridge



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.