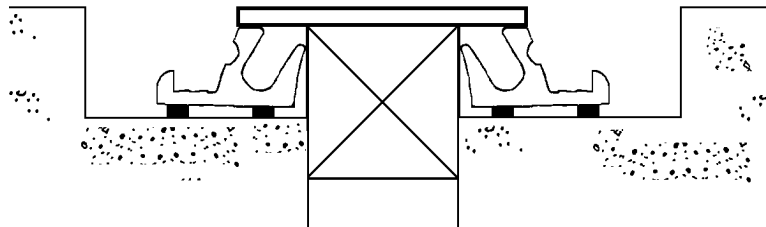


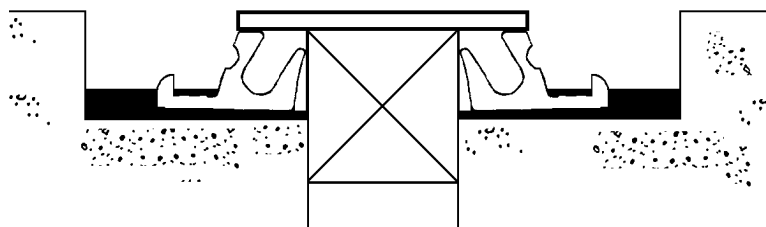
Installation Instructions For The TMW-Series Expansion Joint System

Installation

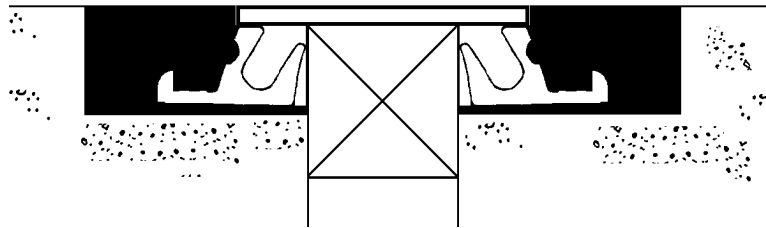
- 1) Inspection: Manufacturer's technician should be on site at commencement of installation for inspection of substrate preparation and demonstration of installation procedures. Bids must include a specific line item for manufacturer's technical service and will be considered incomplete and subject to disqualification if excluded. Technical service is defined as the paid, contracted service of a manufacturer's representative or factory technician.
- 2) The following is a general summary of installation requirements. In all cases the manufacturer's standard written instructions or specific instructions of the manufacturer's technician are to be followed.
 - a) The setting bed must be level prior to the installation of the edge rails. It is of vital importance that the edge rails be set flat and level to the deck surface elevation. 1/8" rubber spacers ensure complete flow of material around and under the edge rail, which will ensure a sound bond to the deck surface.



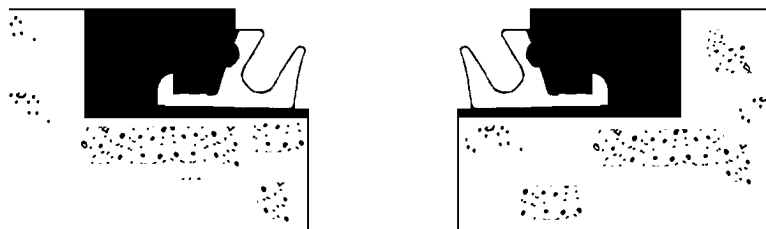
- b) At the time of installation, the engineer of record should be consulted for the temperature adjustment table. This will determine the joint opening "setting" at that given deck temperature. Preset the distance between the aluminum rail extrusions prior to anchoring the rails into place with the use of spacers. Keep in mind that the opening may be wider or narrower the next day. Adjustments must be made to remain in sync with the deck temperature.
 - c) Place Polycrete 2020 bedding under the base of the edge rails. To ensure that sufficient material is placed under the base, observe the bedding material oozing up through the anchor holes in the rail leg.



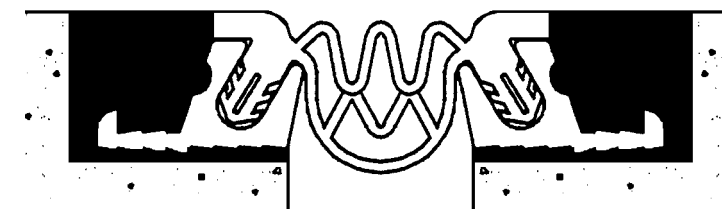
- d) After proper alignment is assured, the remaining void around the edge rails should be filled to the top of the extrusion with Polycrete 1600 header material. Note the formwork in the center of the joint opening. This simple form holds the edge members in alignment and gives a point of elevation to finish troweling of the Polycrete.



- e) After the header material has cured, the formwork is removed as shown below. Remove any flashing that may have overflowed onto the top of the edge rails.



- f) Lube/adhesive is applied to the lug area and the seal is then positioned over the open lugs and driven into the cavities with a rubber mallet. A bead of caulk is placed along the top edge corner of the rail. As the seal is pounded into position, the caulk seals the edge tightly against the Polycrete.



Materials

- 1) Aluminum Edge Rails
 - a) Made to meet ASTM 6063-T5 alloy.

2) TMW Sealing Element

- a) The heart of the system is the TMW sealing element. The seal is made from Thermo-plastic material (trade name Santoprene), which enables the heat welding of various configurations at directional changes and transitions, as mentioned above. These changes in plane or irregularities around columns, wall-to-floor, or up-and-over conditions, such as stairs or curbs, are a common occurrence. Thermo-plastic material lends itself very well to solving these difficult-to-seal conditions.
- b) Factory made directional changes and transitions may be made at EMS's fabrication plant, according to drawings and dimensions provided by the field contractor. However, with minimal training, field crewmen will adapt quickly to create successful splices.

Factory Fabrication of Transitions And Temperature Adjustment

- 1) In addition to factory heat welded splices, EMS's fabrication plant will also fabricate the aluminum edge rails to match the field conditions.

Surface Condition

- 1) Joint surfaces to receive the system should be sound, smooth, straight, parallel, and level from side to side.

Size Up

- 1) Allow adequate free movement for thermal expansion and contraction of metal to avoid buckling. Securely attach in place with all required accessories.
- 2) Maintain continuity of expansion joint cover assemblies with end joints held to a minimum and metal members aligned with cut off portions of securing lugs.

Seal Placement

- 1) Install seals in continuous lengths to comply to eliminate leakage opportunities. All transitions and terminations should be factory-welded, wherever possible, according to field-measurements and drawings on centerline provided by the contractor. Site welding, when needed should be carried out after suitable instruction by the expansion joint manufacturer and/or their representative.

Site Cleanup

- 1) Dispose of all waste materials from the site. Seal should be cleaned of all foreign matter as recommended by the seal manufacturer.