

SPECIFICATION
Section 07900/079500
Previous 05800

Wabo®HingeMount
Model(s) “HDH”
Horizontal Seismic Expansion Control Systems

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 preformed metal components and anchors.

- B. Related Work
 - Cast-in-place concrete
 - Miscellaneous and ornamental metals
 - Flashing and sheet metal

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 as manufactured/supplied by Sika Emseal, 25 Bridle Lane, Westborough, MA 01581 USA

- 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.

- 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 floor 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: Standard material limited warranty or project specific warranty available. 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 specific 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. Application: Minimum 2 years [documented] experience in work of this Section

PART 2 - PRODUCT

2.01 General

- A. Provide horizontal expansion control system that accommodates two directional thermal movement with capability of accepting finish floor treatments ranging from 1/8 inch to 3/8 inch in thickness. Profiles shall incorporate an integral hinge feature to accommodate vertical movement or uneven slab conditions. For standard installation provide profile exhibiting a raised edge feature for installation of finish floor materials. Minimum exposed width of edge shall be 1 1/2 inches. For heavy-duty applications provide system that will accommodate loading as indicated in Table "A". Profiles of heavy-duty system shall be without raised edge feature.

For uneven slab applications and projects requiring two directional movement furnish Wabo®HingeMount, Model "HDH" (heavy-duty application) as manufactured by Sika Emseal. and as indicated on drawings.

2.02 Components and Materials

- A. Aluminum Extrusions – Material to conform to properties of ASTM B221; alloy 6005-T5 or 6063-T6.
- B. Moisture Protection (if required) – Provide Horizontal Colorseal sized to accommodate opening width and movement.
- C. Anchorage:
 - 1) Model “HDH” – Provide 3/8” diameter x 2” lg. (min.) csk. flathead concrete sleeve anchor to secure system to floor slab. Spacing shall be 18” o.c.
 - 2) Corner Condition Wall Mount Profile – Anchor (1/4” dia.) to be supplied by installing contractor. Anchor type to be determined by wall construction.
- D. Fire Barrier Assembly - Designed to provide the required fire endurance rating, minimize passage of smoke and accommodate dynamic movement without stress or degradation to its components. Test system in maximum joint width incorporating a field splice in accordance with UL-2079. Supply Sika Emseal Emshield® DFR2 (1-2-hour) , or DFR3 (3-hour) for joints 1/2” to 4” wide or Wabo®FireFlex (up to 20” wide and 2-hour fire rating) Fire Barrier Blanket System as governed by joint opening, test requirements and fire rating.
- E. Concrete Slab Repair (recommended) - Utilize manufacturer’s single component rapid strength repair mortar.

2.03 Fabrication

- A. Extrusions to be shipped in standard 10 ft. lengths and shall be cut to length on jobsite where required. Profiles shall be miter cut in the field to conform to directional changes unless otherwise contracted with expansion joint manufacturer.
- B. Anchor holes for corner condition wall mount profile shall be countersunk and field drilled by installing contractor at 18” o.c.
- C. Fire Barriers - Ship manufacturer’s standard assembly for the required hourly rating. Fire barrier shall be miter cut in the field to accommodate changes in direction.

2.04 Finishes

A. All Profiles

1. Standard - Aluminum extrusions shall be supplied in mill finish.

PART 3 - EXECUTION

3.01 Installation

- A. Verify that project conditions are suitable for proper installation of system.
- B. Protect all expansion joint component parts from damage during installation and placement of finish floor materials and thereafter until completion of structure.
- C. 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.
- D. Anchor holes for corner condition wall mount profile shall be countersunk and field drilled by installing contractor at 18" o.c.

3.02 Clean and Inspect

- A. Upon completing installation the contractor shall clean all exposed metal surfaces with a suitable cleaner that will not harm or attack the finish. Contact manufacturer should questions arise regarding suitability of any cleaner type prior to its use.