

SECTION 07 95 13

EXPANSION JOINT COVER ASSEMBLIES

Sika Emseal

This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by the following method in Microsoft Word:

Display the FILE tab on the ribbon, click OPTIONS, then DISPLAY. Select or deselect HIDDEN TEXT.

PART 1 GENERAL

1.1 ADMINISTRATIVE REQUIREMENTS

A. Pre-Installation Conference:

1. Convene at Project site [2] [] weeks prior to beginning work of this Section.
2. Attendance: [Architect,] [Contractor,] [Construction Manager,] joint seal installer, and related trades
3. Review and discuss:
 - a. Expansion joint cover manufacturer's requirements, project conditions, substrate requirements, allowable structural movement at joints, anticipated loading requirements, and protection of completed work.

1.2 SUBMITTALS

A. Action Submittals:

1. Shop Drawings:
 - a. Indicate joint locations, dimensions, and adjacent construction.
 - b. .
2. Product Data: Material description and application instructions.
3. Samples:
 - a. Minimum [2 x 2] [] x [] inch joint seal samples showing available colors.
 - b. Minimum [6] [] inch long samples [of each joint seal].

1.3 QUALITY ASSURANCE

A. Manufacturer Qualifications:

1. Minimum [10] [15] [] years [documented] experience in production of specified materials.

B. Installer Qualifications: Minimum [2] [] years [documented] experience in work of this Section.

1.4 DELIVERY, STORAGE AND HANDLING

A. In accordance with manufacturer's instructions.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Contract Documents are based on products by Sika Emseal, 800-526-8365, www.emseal.com.

B. Substitutions: [Refer to Division 01.] [Not permitted.]

2.2 MATERIALS

A. Expansion Joint Cover Assembly:

1. Basis of Design: Wabo SeismicFloor model "FNB" by Sika Emseal.
 2. Movement Capability: Minimum 100 percent movement.
 3. Description: Aluminum or Stainless Steel coverplate system, installed flush with finish flooring into aluminum base members.
 4. Form: System shall consist of metal profiles that utilize various metal finishes with a universal aluminum base member designed to accommodate various project conditions and finish floor treatments. The cover plate shall be designed of width and thickness required to satisfy the project movement and loading requirements. Secure cover plate to base members by utilizing manufacturer's pre-engineered self-centering bar. Anchor floor joint cover systems to floor slab utilizing adjustable clip angles and manufacturer's standard anchor
- a. Aluminum Base Extrusions - Materials shall conform to properties of ASTM B221, Aluminum Alloys 6063 T6, 6005A T5, and/or 6005 T6.
 - b. Slide Plate - Provide minimum 3/16" thick plate with material to be aluminum conforming to properties of ASTM B221 from Aluminum Alloys 6005A T5, 6005 T6, 6061 T6, and/or 5052-H32. Stainless Steel coverplates to be fabricated from SS Type 304.. Slide plate to be secured to joint assembly utilizing a pre-engineered self-centering bar that freely rotates in all directions. Preformed metal devices that utilize tension or compression to maintain and secure slide plate will not be allowed.
 - c. During seismic movement and full closure of the structural opening, the slide plate shall be capable of clearing the raised edge of the base member extension profile (if utilized), without damage to the Expansion Control System.
 - d. Seismic-Centering Bar - Shall exhibit circular sphered ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Bar shall be molded or manufactured incorporating corrosion resistant nylon components with sphered ends and 1" wide standard cross member for standard applications. Provide 1 1/2" wide cross member where heavy-duty application is required. Spacing shall be a maximum of 24" o.c.
 - e. During seismic activity design centering bar to permit vertical displacement of metal cover during accelerated inward and outward movement without evidence of fatigue and permanent deformation. Concurrently provide secure connection between plate and underlying system components to maintain proper positioning and contact to adjoining surfaces.
 - f. Bar shall exhibit the following physical properties to demonstrate ability to resist corrosion and fatigue.

PHYSICAL PROPERTIES

Molded End Profile:

Material	:	Nylon
Color:		Black
Tensile Strength @ break:		ASTM D638 25,500 psi

Cross-Member:

Material:	Pre-tempered spring steel
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- g. Anchorage - Provide minimum 1/4" diameter concrete anchor at maximum 24" o.c. spacing to secure aluminum base member to floor slab.
- h. 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 ½" 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.

PART 3 EXECUTION

3.1 PREPARATION

- A. Clean joints thoroughly; remove loose and foreign matter that could impair adhesion or performance.

3.2 INSTALLATION

- A. Install joint cover assembly in accordance with Sika Emseal instructions and approved Shop Drawings.
- B. Protect all expansion joint component parts from damage during installation, placement of concrete and thereafter until completion of structure.
- C. Expansion joint systems shall be set to the proper width for the ambient temperature at the time of installation. This information is indicated in the contract plans.
- D. 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 finish.

3.3 JOINT SEALS SCHEDULE

- A. Exterior Deck Joint Seals at []: [Wabo SeismicFloor model "FNB" by Sika Emseal.] [].]
- B. Fire-Rated Deck Joint Seals at []: [Wabo SeismicFloor model "FNB" by Sika Emseal.] [].]
- C. Interior Floor Joint Seals at []: [Wabo SeismicFloor model "FNB" by Sika Emseal.] [].]

END OF SECTION