**SECTION 07 91 06**

**FIRE BARRIER JOINT SEALS**

**Watson Bowman Acme**

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.

This guide specification section has been prepared by Sika Emseal for use in the preparation of a project specification section covering preformed joint seals for use expansion joints in exterior deck and parking applications.

The following should be noted in using this specification:

Hypertext links to specific websites are included after manufacturer names and names of organizations whose standards are referenced within the text, to assist in product selection and further research. Hypertext links are contained in parenthesis and shown in blue, e.g.:

[(www.astm.org](http://(www.astm.org))

Items requiring user input are enclosed within brackets and included as red text, e.g.:

Section [09 00 00] [\_\_ \_\_ \_\_.]

Optional paragraphs are separated by an "OR" statement included as red text, e.g.:

\*\*\*\* OR \*\*\*\*

Sustainable requirements are included for projects requiring LEED certification, and are included as green text. For additional information on LEED, visit the U.S. Green Building Council website at [www.usgbc.org](http://www.usgbc.org).

For assistance on the use of the products in this section, contact Sika Emseal by calling 800-526-8365, by email at [techinfo@emseal.com](mailto:techinfo@emseal.com), or visit their website at [www.emseal.com](http://www.emseal.com).

GENERAL

ADMINISTRATIVE REQUIREMENTS

Retain the following for a pre-installation conference to review the work of this section prior to installation.

Pre-Installation Conference:

Convene at Project site [2] [\_\_] weeks prior to beginning work of this Section.

Attendance: [Architect,] [Contractor,] [Construction Manager,] joint seal installer, and related trades

Review and discuss:

* + - * 1. Joint seal manufacturer’s requirements, project conditions, substrate requirements allowable structural movement at joints, and protection of completed work.
        2. Transitions in plane and direction, and requirement for continuity of seal through watertight transitions from wall expansion joint to other interfacing expansion joint systems at adjacent construction.

SUBMITTALS

Action Submittals:

Shop Drawings:

* + - * 1. Indicate joint locations, dimensions, and adjacent construction.
        2. Provide details for transitions in plane and direction for continuity of seal through watertight transitions from wall expansion joint to other interfacing expansion joint systems at adjacent construction.

Product Data: Material description and application instructions.

Samples:

* + - * 1. Minimum [2 x 2] [\_\_ x \_\_] inch joint seal samples showing available colors.
        2. Minimum [6] [\_\_] inch long samples [of each joint seal].

Informational Submittals:

Manufacturer’s certification that:

* + - * 1. Products are capable of withstanding temperature of 150 degrees F (65 degrees C) for 3 hours while compressed to minimum of movement capability dimension without evidence of bleeding of impregnation medium from material.
        2. Same material after heat stability test and after cooling to room temperature will self-expand to maximum of movement capability dimension within 24 hours at 68 degrees F (20 degrees C).

Retain the following for projects requiring sustainable documentation.

Sustainable Design Submittals: Refer to Division 01.

QUALITY ASSURANCE

Manufacturer Qualifications:

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

Certified to ISO 9001 and 14001.

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

DELIVERY, STORAGE AND HANDLING

In accordance with manufacturer’s instructions.

PRODUCTS

MANUFACTURERS

Contract Documents are based on products by Watson Bowman Acme, 716.691.7566, www.watsonbowmanacme.com

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

MATERIALS

Retain the following for a 2-hour fire rated, watertight, trafficable expansion joint seal. This joint seal is suitable for use in joints from 1/2 inch to 4 inches in width.

Deck and Parking Joint Seal:

Source: Wabo®FireShield (FSH) by Watson Bowman Acme.

Description: Traffic grade upper and lower silicone sealing surface adhered to fire-retardant impregnated foam backing installed into field-applied epoxy adhesive.

Form: Precompressed to less than nominal material size for installation into designed joint size equal to material nominal size.

Fire protection rating: 2 hours, tested to UL 2079.

Movement capability: Plus or minus 50 percent, total 100 percent.

Color: [\_\_\_\_.] [To be selected from Sika Emseal full color range.]

Adhesive: Epoxy type, furnished by joint seal manufacturer.

Silicone: Field applied sealant band at face of seal to substrate interface, furnished by joint seal manufacturer; same material and color as factory coating.

* + - * 1. Abrasion resistance: Maximum 1 percent weight loss, tested to ASTM D4060.
        2. Fuel resistance: Pass ASTM C719 and ASTM C1135.

Intumescent Sealant: Field applied to face of joints, furnished by joint seal manufacturer.

EXECUTION

PREPARATION

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

INSTALLATION

Install joint seal in accordance with Watson Bowman Acme instructions and approved Shop Drawings.

Remove joint seal from precompressed packaging, immediately insert into joint, and allow to expand.

Use temporary retainers if required to maintain joint seals in position until expansion is complete.

A joint seals schedule can be helpful if multiple types of joint seals are required. The following may assist in developing such a schedule. Coordinate with products selected under Part 2.

JOINT SEALS SCHEDULE

Exterior Deck Joint Seals at [\_\_\_\_]: [Wabo®FireShield (FSH) by Watson Bowman Acme.] [\_\_\_\_.]

Exterior Deck Joint Seals at [\_\_\_\_]: [Wabo®FireShield (FSH) by Watson Bowman Acme.] [\_\_\_\_.]

END OF SECTION