

## SECTION 07950 - EXPANSION CONTROL

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. This Section includes the following:
  - 1. Architectural joint systems for building exteriors and slab to slab.
- B. Related Sections include the following:
  - 1. Division 7 Section "Joint Sealants" for liquid-applied joint sealants.

#### 1.3 DEFINITIONS

- A. **Maximum Joint Width:** Widest linear gap a joint system tolerates and in which it performs its designed function without damaging its functional capabilities.
- B. **Minimum Joint Width:** Narrowest linear gap a joint system tolerates and in which it performs its designed function without damaging its functional capabilities.
- C. **Movement Capability:** Value obtained from the difference between widest and narrowest widths of a joint opening typically expressed in numerical values (mm or inches) or a percentage (plus or minus) of nominal value of joint width.
- D. **Nominal Joint Width:** The width of the linear opening specified in practice and in which the joint system is installed.

#### 1.4 SUBMITTALS

- A. **Shop Drawings:** Provide the following for each joint system specified:
  - 1. **Placement Drawings:** Include line diagrams showing plans, elevations, sections, details, splices, blockout requirement, entire route of each joint system, and attachments to other work. Where joint systems change planes, provide isometric or clearly detailed drawing depicting how components interconnect.
- B. **Samples for Initial Selection:** For each type of joint system indicated.

- C. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for current products.

## 1.5 QUALITY ASSURANCE

- A. Installer Qualifications: An employer of workers trained and approved by manufacturer.
- B. Source Limitations: Obtain interior architectural joint systems through one source from a single manufacturer.

## 1.6 COORDINATION

- A. Coordinate installation of exterior wall and soffit joint systems with roof expansion assemblies to ensure that wall transitions are watertight. Roof expansion assemblies are specified in Division 07.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. Foam seals: Water based, stabilized, polymer-modified acrylic impregnated expanding foam.
- B. Accessories: Adhesive as recommended by manufacturer compatible with material in contact, as indicated or required for complete installations.

### 2.2 ARCHITECTURAL JOINT SYSTEMS, GENERAL

- A. General: Provide architectural joint systems of design, basic profile, materials, and operation indicated. Provide units with capability to accommodate variations in adjacent surfaces.
  - 1. Furnish units in longest practicable lengths to minimize field splicing. Install with hairline mitered corners where joint changes direction or abuts other materials.
- B. Design architectural joint systems for the following size and movement characteristics:
  - 1. Nominal Joint Width: As indicated on Drawings.
  - 2. Maximum Joint Width: As indicated on Drawings.
  - 3. Minimum Joint Width: As indicated on Drawings.
  - 4. Movement Capability: Plus or minus 25 percent.
  - 5. Type of Movement: As indicated on Drawings.

## 2.3 ARCHITECTURAL JOINT SYSTEMS FOR BUILDING EXTERIORS and SLAB TO SLAB

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
  - 1. EMSEAL Joint Systems, Ltd. (Backerseal / Greyflex)
  - 2. LymTal International, Inc. (ISO-Flex Hydro Seal)
  - 3. Schul International, Inc. (Sealtibe B)
  - 4. Williams Products, Inc. (Everlastic NeoSeal IV)
  
- B. Architectural Joint Systems for Exterior Walls and Soffits:
  - 1. Basis-of-Design Product: Backerseal (Greyflex) as manufactured by Emseal Joint Systems, Ltd
  - 2. Type: Preformed cellular foam.
    - a. Foam Material: Manufacturer's standard.
      - 1) Color: Manufacturer's standard.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine surfaces where architectural joint systems will be installed for installation tolerances and other conditions affecting performance of work.
  - 1. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Prepare substrates according to architectural joint system manufacturer's written instructions.
- B. Repair concrete slabs using manufacturer's recommended repair grout of compressive strength adequate for anticipated structural loadings.
- C. Coordinate, setting drawings, and instructions for installing joint systems.

### 3.3 INSTALLATION

- A. Comply with manufacturer's written instructions for storing, handling, and installing architectural joint assemblies and materials unless more stringent requirements are indicated.

- B. Foam Seals: Install with adhesive recommended by manufacturer.

### 3.4 PROTECTION

- A. Do not remove protective covering until finish work in adjacent areas is complete. When protective covering is removed, clean exposed metal surfaces to comply with manufacturer's written instructions.
- B. Protect the installation from damage by work of other Sections. Where necessary due to heavy construction traffic, remove and properly store cover plates or seals and install temporary protection over joints. Reinstall cover plates or seals prior to Substantial Completion of the Work.

END OF SECTION 07950