

## PART 1 – GENERAL

### 1.1 SUMMARY

#### A. Section Includes:

1. Architectural Seismic Joint Systems for Walls and Floors.

### 1.2 SUBMITTALS

- A. Product Data: For each type of product indicated. Include Fire Rating test information and certifications if required. Submit data to clearly indicate movement capability of cover assemblies and suitability of materials employed.
- B. Shop Drawings: For each Seismic joint assembly. Include plans, elevations and details that clearly identify changes in plane and component interconnections. Indicate sawcutting dimensions and other work by required for installation.
- C. Samples for Initial Selection: For each type of joint system indicated.
- D. Certificates: Material test reports from qualified independent testing laboratory indicating and interpreting test results relative to compliance of fire-rated seismic joint assemblies with requirements indicated.

### 1.3 QUALITY ASSURANCE

- A. Installer Qualifications: Approved by manufacturer.
- B. Source Limitations: Obtain all architectural joint systems from a single manufacturer and source.
- C. Loading Characteristics: Standard loading refers to covers that are capable of withstanding up to 500 lb. point loads. Heavy duty refers to covers that are capable of withstanding 2,000 lb. point loads.
- D. Fire Test Response Characteristics: Provide Architectural joint systems and fire-barrier assemblies identical to those assemblies tested for fire resistance per UL 2079 and ASTM E 1966 by a testing and inspection agency acceptable to Authorities Having Jurisdiction.

### 1.4 WARRANTY

- A. Manufacturer's standard 5-year warranty, from date of substantial completion.

### 1.5 COORDINATION

- A. Coordinate installation of seismic joint systems with adjoining work and finish installations.

## PART 2 – PRODUCTS

### 2.1 PRODUCTS

- A. Basis of Design Product: Floor Assembly: Construction Specialties Model SGR Series 11-inch floor to floor joint system.
1. Type: Dual Elastometric Seal.
  2. Exposed Metal: Aluminum, ASTM B221. Clear Anodic Finish.
  3. Seal Material: Thermoplastic Rubber (TPR).
  4. Color: As selected by Owner from manufacturer's standard range.
  5. Gaskets: Dual durometer with flat profile.
  6. Cover Plate Design: Recessed to accept field-applied finish materials.
  7. Attachment Method: Mechanical anchors.
  8. Load Capacity: Standard duty.
  9. Fire Resistance Rating: Not Rated.
- B. Basis of Design Product: Wall Assembly: Construction Specialties Model SFC Series 11-inch wall to wall joint system.
1. Type: Dual Elastometric Seal.
  2. Exposed Metal: Aluminum, ASTM B221. Clear Anodic Finish.
  3. Seal Material: Thermoplastic Rubber (TPR).
  4. Color: As selected by Owner from manufacturer's standard range.
  5. Cover Plate Design: Extruded Aluminum
  6. Attachment Method: Mechanical anchors.
- C. Other Products: Match characteristics of Basis of Design Product.
1. Balco USA
  2. Nystrom Building Products.
  3. MM Systems
  4. Or Approved Equal.
- D. Accessories: Provide components for each seismic joint system that are needed to install fill materials and to maintain ratings required. Use only those components specified by manufacturer and approved by qualified testing and inspecting agency for fire ratings indicated.

## PART 3 – EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements for opening configurations, penetrating items, substrates, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Prepare substrates according to seismic joint system manufacturer's written instructions.
- B. Saw cut slab as required for installation.

- C. Repair concrete slabs and using manufacturer's recommended repair grout of compressive strength adequate for required loading.
- D. Coordinate and furnish anchorages, setting drawings and instructions for installing joint systems. Provide fasteners of metal, type and size to suit installation

### 3.3 INSTALLATION

- A. Comply with manufacturer's written instructions for storing, handling and installing seismic joint assemblies and materials, unless more stringent requirements are required by Owner.
- B. Metal Frames: Perform cutting, drilling and fitting required to install joint systems.
  - 1. Install in alignment and correct relationship to joints and adjoining finished surfaces, measured from established lines and levels.
  - 2. Adjust for differences between actual structural gap and nominal design gap due to ambient temperature. Notify Owner where discrepancies occur that will affect proper joint installation and performance.
  - 3. Cut and fit ends to accommodate Seismic and contraction.
  - 4. Locate in continuous contact with adjacent surfaces.
  - 5. Standard Duty Systems: Support underside of frames continuously to prevent vertical deflection.
  - 6. Locate anchors at intervals recommended by Manufacturer, but not less than 3 inches from each end and not more than 24 inches on center across length of unit.
- C. Seals in Metal Frames: Install elastomeric seals and membranes in frames to comply with Manufacturer's written instructions.
  - 1. Provide in continuous lengths for straight sections.
  - 2. Seal transitions according to Manufacturer's written instructions. No splices.
  - 3. Mechanically lock seals into frames or adhere to frames with adhesive or pressure-sensitive tape as recommended by Manufacturer.
- D. Compression Seals: Apply adhesive or lubricant adhesive as recommended by Manufacturer before installing compression seals.
- E. Terminate exposed ends of joint assemblies with field or factory fabricated termination devices.
- F. Finish Installation: Coordinate, observe and direct the installation of floor finish materials by floor finish installers in joint assemblies.

### 3.4 PROTECTION

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

**END OF SECTION**

