

SECTION 07 95 30

INTERIOR WALL 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 gaskets.
- B. Related Work
  - Gypsum Board
  - Miscellaneous and ornamental metals
  - Flashing and sheet metal
  - Sealants and caulking

1.02 Submittals

- A. Template Drawings - Submit typical seismic 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 designed and manufactured by Watson Bowman Acme Corp., a Degussa affiliate, 95 Pineview Drive, Amherst, New York 14228.
- 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 wall or ceiling 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. **Manufacturer:** Shall be ISO-9001:2000 certified and shall provide written confirmation that a formal Quality Management System and Quality Processes have been adopted in the areas of, (but not limited to) engineering, manufacturing, quality control and customer service for all processes, products and their components. Alternate manufacturers will be considered provided they submit written proof that they are ISO 9001:2000 certified prior to project bid date. Manufacturers in the process of obtaining certification will not be considered.
- B. **Warranty:** The Professional Series expansion control system's performance shall be warranted when installed by manufacturer's factory trained installer. 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 specified design movements and loading conditions.
- C. **Manufacturer:** Shall have a minimum ten (10) years experience specializing in the design and manufacture of Architectural Expansion Control Systems.
- D. **Application:** The specified expansion control systems shall be installed by a factory trained installer certified in the proper installation of the expansion control and fire barrier systems.

### PART 2 - PRODUCTS

#### 2.01 General

- A. Provide wall expansion control system that accommodates multi-directional movement. The system shall be capable of following changes in direction utilizing preformed or extruded metal profiles and integral snap-fit features for ease of component assembly.

For walls furnish Wabo<sup>®</sup> Contour II Expansion Control System, Model "CTR" as manufactured by Watson Bowman Acme Corp. and as indicated on drawings.

#### 2.02 Components and Materials

- A. **Exposed Upper Face Component:**  
Material shall be extruded aluminum conforming to properties of ASTM B221 alloy 6063-T5.
- B. **Lower Base Component:** Material shall be extruded aluminum conforming to properties of ASTM B221 alloy 6063-T5.
- C. **Slide Plate:**
  - Extruded Profiles: Material shall be extruded aluminum conforming to properties of ASTM B221 alloy 6063-T5.
  - Manufactured Profiles: Material shall be aluminum conforming to the properties of ASTM B209, alloy 5005-H34.
- D. **Isolation Gasket -** Material shall be manufacturers standard polyvinylchloride extruded profile.

- F. Anchors - Installing contractor to provide and utilize drywall screws appropriate for the wall studs. At corner condition secure slide plate to wall. Provide No. 10 diameter. x 1-1/2 inch long Phillips drive panhead self-drilling TEK screw. Maximum spacing shall be 18" o.c.
- G. Accessories - Provide necessary and related parts required for complete installation.
- 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. Supply Wabo®FireFlex Fire Barrier System as governed by joint opening, test requirements and fire rating.

#### 2.03 Fabrication

- A. Metal components with slide gasket and fastening system shall be shipped in 10 ft. lengths and shall be cut to length on jobsite where required. Components shall be miter cut in the field to conform to directional changes unless otherwise contracted with expansion joint manufacturer.
- B. Anchor holes at lower edge component shall be field drilled in accordance with manufacturer's drawings.
- C. Fire Barriers - Ship manufacturer's standard assembly including fire caulks, sealants (if applicable) and hardware for the required hourly rating. Assemblies shall be miter cut in the field to accommodate changes in direction.

#### 2.04 Finishes

- A. Exposed Upper Edge Component and Slide Plate
  - 1. Aluminum: Clear anodized finish in accordance with AA-M10 C22 A31 Class II (0.4 - 0.7 thick anodic coating).

### PART 3 - EXECUTION

#### 3.01 Installation

- A. Protect all expansion joint component parts from damage during installation and placement of wall or ceiling materials and thereafter until completion of structure.
- B. 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.
- 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.

#### 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.

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