

SECTION 07 95 20

INTERIOR CEILING 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 extruded elastomeric seals and aluminum profiles.
- B. Related Work
  - Miscellaneous and ornamental metals
  - Flashing and sheet metal
  - Sealants and caulking

1.02 Submittals

- A. Template Drawings - Submit typical expansion 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, 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 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.

## PART 2 - PRODUCT

### 2.01 General

- A. Provide an expansion joint system that utilizes lightweight colorable elastomeric seal profiles to facilitate movement. Design components to accommodate typical acoustical ceiling suspension grid systems. Where other types of ceiling construction are utilized, or larger openings required, incorporate optional lightweight aluminum extrusion to attach and mechanically lock the elastomeric seal.

Furnish Wabo® FastWrap Model(s) "CEB" and "CES" Expansion Control System for interior ceilings as manufactured by Watson Bowman Acme and as indicated on drawings.

### 2.02 Components and Materials

- A. Aluminum Extrusions (Model "CEB") - Material to conform to properties of ASTM B221, alloy 6063-T5. Profile shall be lightweight and capable of accommodating various ceiling conditions. Design profile with semi-closed extrusion cavity and features that will provide a mechanical lock for the Elastomeric Seal.
- B. Aluminum Shapes - Material to conform to ASTM B209, alloy 6061-T6 or 5005-H34.
- C. Elastomeric Seals - Material shall be a flexible extruded polyvinyl chloride or manufacturer's alternate material. Design seal to be received by flange of acoustical ceiling grid shapes (Model "CES") or to mechanically lock into corresponding lightweight aluminum profile (Model "CEB") as joint opening and ceiling construction dictates.
- D. Anchorage - Provided by installing contractor. Anchor type and style shall be appropriate for ceiling construction. Recommended anchor is pop rivet for Model "CES" and self drilling TEK screws for Model "CEB". Spacing shall be 12" o.c. for "CES" and 18" o.c. for "CEB."

### 2.03 Fabrication

- A. Aluminum extrusions (Model "CEB") to be shipped in standard 10 ft. lengths and shall be cut to length on jobsite where required. Extrusions shall be miter cut in the field to conform to directional changes.
- B. Anchor holes shall be field drilled in accordance with manufacturer's drawings.
- C. Elastomeric seals shall be shipped in standard 10 ft. lengths in manufacturer's standard shipping carton. Field cut seal to length on jobsite where required.

### 2.04 Finishes

- A. Aluminum extrusions (Model "CEB") shall be supplied in standard mill finish.
- B. Elastomeric seals shall be supplied in standard color: white.

## PART 3 - EXECUTION

### 3.01 Installation

- A. Protect all expansion joint component parts from damage during installation of 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. Field drill all anchor holes to install ceiling expansion joint system.
- D. 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 Protect

- A. 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 elastomeric material.

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