

SPECIFICATION
Section 05800

Wabo® FastFloor
Model(s) “FJS”, “FJD”,
Horizontal 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 anchors.

- B. Related Work
 - Cast-in-place concrete
 - Miscellaneous and ornamental metals
 - Flashing and sheet metal

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 floor 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-9001:2008, RC-14001:2008 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 9001:2008, RC-14001:2008 certified prior to project bid date. Manufacturers in the process of obtaining certification will not be considered.
- B. Manufacturer: Shall have a minimum ten (10) years experience specializing in the design and manufacture of Architectural Expansion Control Systems.
- C. 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 - PRODUCT

2.01 General

- A. Provide horizontal expansion control system that accommodates two directional thermal movement with capability of accepting finish floor treatments ranging from 1/8 inch to 3/8 inch in thickness. Profiles shall incorporate a single or double-raised exposed edge feature to serve as trim and termination for installation of finish floor materials. Minimum width of edge(s) feature shall be 1 1/2 inches. All hardware to secure system to horizontal construction shall be hidden from view.

For level slab applications and projects requiring two directional movement furnish Wabo®FastFloor, Model "FJS" (single edge) or "FJD" (double edge) as manufactured by Watson Bowman Acme and as indicated on drawings. Provide system that will accommodate loading as indicated in Table "A".

Table A (max. allowable loads at nominal installed opening)

Nominal/Model Opening	Max. Point Load	Max. Distributed Load
1" / FJD-100.125	150 lbs	120 psi
1" / FJD-100.250	500 lbs	450 psi
1" / FJD-100.375	1200 lbs	1000 psi
2" / FJS-200.125	100 lbs	70 psi
2" / FJS-200.250	400 lbs	250 psi
2" / FJS-200.375	850 lbs	600 psi

2.02 Components and Materials

- A. Aluminum Extrusions – Material to conform to properties of ASTM B221; alloy 6005-T5 or 6063-T6.
- B. Moisture Protection (if required) – Provide Wabo®InverSeal sized to accommodate opening width and movement.
- C. Anchorage – Provide minimum ¼" diameter x 2" lg. carbon steel concrete anchor to secure system to floor slab. Spacing shall be 19" o.c.
- D. Concrete Slab Repair (recommended) - Utilize a single component rapid strength repair mortar.
- E. Fire Barrier Assembly - Designed for indicated or required dynamic structural movement without material degradation or fatigue. Tested in maximum joint width conditions with a field splice as a component of expansion joint cover in accordance with ASTM E-119 at a full rated period by a nationally recognized testing and inspecting organization. Supply ThermoShield Fire Barrier as governed by joint opening and fire rating.

2.03 Fabrication

- A. Extrusions to be shipped in standard 10 ft. lengths and shall be cut to length on jobsite where required. Profiles shall be miter cut in the field to conform to directional changes unless otherwise contracted with expansion joint manufacturer.
- B. Fire Barriers - Ship manufacturer's standard assembly for the required hourly rating. Fire barrier shall be miter cut in the field to accommodate changes in direction.

2.04 Finishes

- A. All Profiles
 - 1. Standard - Aluminum extrusions shall be supplied in mill finish.

PART 3 - EXECUTION

3.01 Installation

- A. Verify that project conditions are suitable for proper installation of system.
- B. Protect all expansion joint component parts from damage during installation and placement of finish floor materials and thereafter until completion of structure.
- C. 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.

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.