

SPECIFICATION
Section 07900/079500
Previous 05800

Wabo®WeatherSeal II
Model - “WS” Vertical Expansion Joint System

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 polyether urethane foam profiles.
- B. Related Work
 - Masonry
 - Precast concrete
 - Cast-in-place concrete
 - Curtain Walls
 - Metal Cladding
 - Sealants and caulking
 - Exterior insulation and finish systems

1.02 Submittals

- A. Template Drawings - Submit typical expansion joint cross-section(s) indicating pertinent dimensioning of opening, profile recess and adjacent construction.

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 BASF 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 vertical construction that is specific to the project. Typical catalog cut sections will not be considered.
 3. 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.

PART 2 - PRODUCT

2.01 General

- A. Provide flexible profile manufactured from a monolithic piece of foam and factory applied elastomeric silicone membrane coating designed to provide protection against moisture and water intrusion on vertical surfaces. Profile shall be capable of providing a minimum of plus or minus 25% building movement and accommodate moderate variations in width of opening, complex directional change transitions and resist ultraviolet degradation. Profile shall be installed without use of adhesives or invasive anchor systems.

Provide Wabo®WeatherSeal II – Model “WS” as manufactured by Watson Bowman Acme Corp. and as indicated on drawings for vertical expansion joint locations.

2.02 Materials

- A. Seal - Profile shall be preformed and manufactured from a polyether urethane foam in accordance with ASTM C864-98 with a factory applied silicone membrane on

the exposed face. The profile shall meet the requirements of the properties listed in the table below.

| <u>Physical Properties</u> | <u>ASTM Test Method</u> | <u>Requirements</u> |
|-----------------------------------|--------------------------------|----------------------------|
| Density, lb/ft ³ | ASTM D-3575 | 3.0 |
| Elongation, % | ASTM D-3575 | 250 |
| Tensile Strength, PSI | ASTM D-3575 | 120 |
| Tear resistance | ASTM D-624 | 21.5 lbs/in. |
| Flammability | UL-94 | HBF |
| Flame out | Mil-P-15280D | 2/1 |
| Weather resistance | ATM D-1499 | No Cracking |
| Thermal Conductivity | ASTM C-177 | R-4 |

2.03 Fabrication

- A. Seal profile shall be shipped in nominal five-foot standard lengths in manufacturer's standard shipping carton. Seals shall be cut to length on jobsite where required for straight lengths or directional change transitions utilizing appropriate tools, saws and miter boxes. All cuts shall be accurately measured and completed in a neat and workmanlike manner to ensure quality work.

2.04 Finishes

- A. Seals - Standard color offering: Pre-cast white, Gray, Charcoal and Natural Stone

PART 3 - EXECUTION

3.01 Installation

- A. Where indicated and noted on the contract drawings, install seal profiles in a neat workmanlike manner. All surfaces to receive seals shall be free from dirt, water, frost and any loose foreign debris that may be detrimental to effective joint sealing.
- B. Installation contractor shall verify that seal profile is to be installed in the proper width opening for the appropriate temperature at time of installation. Variations in width or incorrect opening that may affect proper installation and product performance shall be brought to the attention of the architect and product manufacturer prior to installation.
- C. Install seal profiles in strict accordance with the manufacturer's typical details and installation procedure p/n 20227 in conjunction with the advice of their qualified representative.

3.02 Clean and Protect

- A. Protect seal profile and adjacent fillet sealant during construction. After work is complete in adjacent areas, clean exposed surfaces with a mild cleaner that will not harm or attack the elastomeric membrane coating.