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Guide Specification

Specifier Notes: This guide specification is written in Construction Specifications Institute (CSI) 3-Part Format in accordance with *The CSI Construction Specifications Practice Guide, MasterFormat, SectionFormat, and PageFormat.*

This Section must be carefully reviewed and edited by the Architect or Engineer to meet the requirements of the Project and local building code. Coordinate this Section with Conditions of the Contract, Division 01, other specification sections, and the Drawings. Delete all Specifier Notes after editing this Section.

Section numbers and titles are based on *CSI MasterFormat 2018 Edition.*

SECTION 22 13 16.13

FLEXIBLE EXPANSION COUPLINGS

Specifier Notes: This Section covers ProVent Systems Inc. "EZ Flex Mechanical Coupling" mechanical flexible expansion couplings for PVC or ABS DWV vertical plumbing stacks. Consult ProVent Systems Inc. for assistance in editing this Section as required for the Project.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Mechanical flexible expansion couplings for PVC or ABS DWV vertical plumbing stacks.

1.2 RELATED REQUIREMENTS

Specifier Notes: Edit the following list of related sections as required for the Project. Limit the list to sections with specific information that the reader might expect to find in this Section, but is specified elsewhere.

- A. Section 22 05 00 – Common Work Results for Plumbing.

- B. Section 22 05 16 – Expansion Fittings and Loops for Plumbing Piping.
- C. Section 22 13 16 – Sanitary Waste and Vent Piping.

1.3 DEFINITIONS

- A. DWV Plumbing Stack: Drain, waste, and vent plumbing stack.

1.4 REFERENCE STANDARDS

Specifier Notes: List reference standards used elsewhere in this Section, complete with designations and titles. Delete reference standards from the following list not used in the edited Section.

- A. ASTM International (ASTM) (www.astm.org):
 - 1. ASTM D 2665 – Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings.
- B. ICC Evaluation Service (www.icc-es-pmg.org):
 - 1. ICC-ES Product Certificate PMG-1238 – EZ-Flex Couplings.
- C. International Association of Plumbing and Mechanical Officials (IAPMO) (www.iapmo.org):
 - 1. IAPMO IGC 359 – Flexible Expansion Couplings for DWV Stack Applications.

1.5 PREINSTALLATION MEETINGS

Specifier Notes: Edit the Preinstallation Meetings article as required for the Project. Delete this article if not required.

- A. Convene preinstallation meeting [1 week] [2 weeks] before start of installation of flexible expansion couplings.
- B. Require attendance of parties directly affecting Work of this Section, including Contractor, Architect, installer, and manufacturer's representative.
- C. Review the Following:
 - 1. Materials.
 - 2. Installation.
 - 3. Protection.
 - 4. Coordination with other Work.

1.6 SUBMITTALS

Specifier Notes: Edit the Submittals article as required for the Project. Delete submittals not required.

- A. Submittals: Comply with Division 01.
- B. Product Data: Submit manufacturer's product data, including installation instructions.

- C. Samples: Submit manufacturer's sample of flexible expansion couplings.
- D. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
- E. Test Reports: Submit manufacturer's test reports from testing performed by qualified, independent testing laboratories.
- F. Manufacturer's Project References: Submit manufacturer's list of 10 successfully completed flexible expansion coupling projects of similar size and scope to this Project, including project name and location, name of architect, and type and quantity of flexible expansion couplings furnished.
- G. Warranty Documentation: Submit manufacturer's standard warranty.

1.7 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Manufacturer regularly engaged in the manufacturing of plumbing piping specialties for a minimum of 5 years.
- B. Installer's Qualifications:
 - 1. Installer regularly engaged in installation of plumbing piping for a minimum of 5 years.
 - 2. Use persons trained for installation of plumbing piping.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Delivery Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage and Handling Requirements:
 - 1. Store and handle materials in accordance with manufacturer's instructions.
 - 2. Keep materials in manufacturer's original, unopened containers and packaging until installation.
 - 3. Store materials in clean, dry area indoors.
 - 4. Do not store materials directly on floor.
 - 5. Store materials out of direct sunlight.
 - 6. Protect materials during storage, handling, and installation to prevent damage.

1.9 WARRANTY

- A. Warranty Period: 1 year.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturer: ProVent Systems Inc., 1355 Capital Circle, Lawrenceville, Georgia 30043. Toll Free 800-262-5355. Fax 770-339-1784. www.proventsystems.com. info@proventsystems.com.

Specifier Notes: Specify if substitutions will be permitted.

- B. Substitutions: [Not permitted] [Comply with Division 01].
- C. Single Source: Provide materials from single manufacturer.

2.2 FLEXIBLE EXPANSION COUPLINGS

- A. Flexible Expansion Couplings: "EZ Flex Mechanical Coupling".
 - 1. Description: Mechanical flexible expansion couplings for PVC or ABS DWV vertical plumbing stacks.
 - 2. Compliance:
 - a. IAPMO IGC 359.
 - b. ICC-ES-PMG-1238.

Specifier Notes: Specify nominal size of the flexible expansion couplings.

- 3. Nominal Size: [3 inches] [4 inches].
- 4. Components:
 - a. Rigid Material: Schedule 20 PVC, ASTM D 2665.
 - b. Flexible Material: Sanoprene.
 - c. Clamps: Worm-driven, Type 301 stainless steel bands.
- 5. Flexible Coupling Expansion/Contraction:
 - a. Expansion: Maximum 3/4 inch.
 - b. Contraction: Maximum 1/2 inch.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine and verify PVC or ABS DWV vertical plumbing stacks to receive flexible expansion couplings are properly installed.
- B. Verify the 2 connecting pipes to receive flexible expansion couplings are in alignment with each other.
- C. Notify Architect of conditions that would adversely affect installation or subsequent use.
- D. Do not begin installation until unacceptable conditions are corrected.

3.2 INSTALLATION

- A. Install flexible expansion couplings in accordance with manufacturer's instructions.
- B. Install flexible expansion couplings at locations indicated on the Drawings and in accordance with manufacturer's instructions.

- C. Install anchor points in accordance with manufacturer's instructions to allow flexible expansion couplings to move freely.
- D. Install flexible expansion couplings to allow 1/2 inch to 3/4 inch in-line expansion and contraction in PVC or ABS DWV vertical plumbing stacks.
- E. Install flexible expansion couplings to be free of leaks.

3.3 PROTECTION

- A. Protect installed flexible expansion couplings from damage until Substantial Completion.

END OF SECTION