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Homex®300 Architectural Specifications

CSI Section 03, 07

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## PART 1 GENERAL

### 1.1 SECTION INCLUDES

- A. Section 03 00 00 Concrete.
- B. Section 07 90 00 Thermal and Moisture Protection – Joint Protection

### 1.2 RELATED SECTIONS

- A. Section 03 15 00 – Concrete Accessories.
- B. Section 07 91 26 – Joint Fillers.
- C. Section 07 92 00 – Joint Sealants.

### 1.3 REFERENCES

- A. American Society for Testing and Materials (ASTM):
  - 1. ASTM C 209 - Test Methods for Cellulosic Fiber Insulating Board.
  - 2. ASTM C 518 - Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
  - 3. ASTM D 1037 - Test Methods of Evaluating Properties of Wood-Base Fiber and Particle Panel Materials.
  - 4. ASTM E 84 - Test Method for Surface Burning Characteristics of Building Materials.
  - 5. ASTM D 1751 - Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction Non-extruding and Resilient Bituminous Types.
- B. Other Testing and Certifications.
  - 1. UL listed, File R16381.
  - 2. Forest Stewardship Certification (FSC): CoC Cert no. 5682.
  - 3. ICC-ES Report ESR-1374.
  - 4. AASHTO M213.
  - 5. U.S. Federal Spec. HH-F-341e.
  - 6. FAA Specification P-610-2.7.

### 1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.

3. Installation methods.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum 10 years experience in producing concrete expansion joint fillers.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging with labels intact until ready for installation (if applicable).
- B. Inspect the materials upon delivery to assure that specified products have been received. Report damaged material immediately to the delivering carrier and note such damage on the carrier's freight bill of lading.
- C. Store materials in a dry place, indoors, on raised platform protected from weather damage.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Homasote Company; 932 Lower Ferry Road, West Trenton, NJ 08628. Tel: (800) 257-9491. Tel: (609) 883-3300. Fax: (609) 883-3497. Email: sales@homasote.com Website: www.homasote.com
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.
- C. Substitutions: Not permitted.
- D. Provide all concrete expansion joint fillers from a single manufacturer.

2.2 MATERIALS

- A. Homex300 concrete expansion joint filler: Molded, recycled post-consumer paper with wax binder, cellulose fiber structural joint filler. Physical properties as follows:
  - 1. Thickness: 1/2 inch (13 mm).
  - 2. Density: 26-28 pcf (416-448 kg/cu. m) tested in accordance with ASTM C 209.
  - 3. Tensile Strength: When tested in accordance with ASTM C 209:
    - a. Parallel: 450-700 psi (3,100-4,830 kPa).
    - b. Transverse: 750-1000 psi (5.1171-6.894 kPa).
  - 4. Hardness (Janka Ball): 230 lbs (104 kg) tested in accordance with ASTM D 1037.
  - 5. Compression and recovery: 70% tested in accordance with ASTM D 1751.
  - 6. Extrusion: .086 inch (2.18mm) tested in accordance with ASTM D 1751.
  - 7. Weathering: No disintegration, tested in accordance with ASTM D 1751.

8. Expansion: 50 to 90 percent relative humidity, 0.25 percent in accordance with ASTM C 209.
9. Thermal Resistance: When tested in accordance with ASTM C 209 per ASTM C 518:
  - a. R-value: 1.2 for 1/2 inch (13 mm) thick board.
  - b. K-value: .512 Btu-in/ (h ft<sup>2</sup> °F).
10. Conforms to the performance requirements of AASHTO M213.

### 2.3 ACCESSORIES

- A. Plastic edge caps (zip strips).
- B. Expansion joint filler sealers:
  1. Cold applied sealers composed of: urethanes, silicones and polymers.
  2. Hot applied sealers composed of: thermo-set rubbers, silicones, asphaltics and two-part epoxies.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Examine site conditions in which expansion joints are to be installed.
- B. Starting work by installer is acceptance of jobsite and environmental conditions.

### 3.2 PREPARATION

- A. See "General Requirements" in manufacturer's instructions.

### 3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

### 3.4 PROTECTION

- A. Protect uninstalled products from weather and physical damage until installation.
- B. Protect installed products until completion of project.