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Homex®300 Architectural Specifications CSI Section 03, 07

--------------------------------------------------------------------------------------------------------------------------------\*\* NOTE TO SPECIFIER \*\*: Homasote Company; floor and wall sound barrier.

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This section is based on the products of Homasote Company, which is located at:

932 Lower Ferry Road

West Trenton, NJ 08628

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Homasote 440 SoundBarrier® is controlling sound through millions of square feet of floors, walls and ceilings. a special-density, structural board made from 100 percent environmental Homasote® cellulose fiber, a homogeneous composition manufactured with uniformly distributed protection against termites, rot and fungi and resistance to moisture. It also insulates, with twice the R-value of wood.

An internationally known environmental icon, Homasote Company is the oldest manufacturer of building products made from recycled materials in the U.S., and the only manufacturer of its kind in the Americas.

Each production day Homasote Company recycles (and keep out of landfills) up to 100 tons of recycled paper. Every production year our unique manufacturing process helps conserve nearly 1.4 million trees and eliminates up to 65 million pounds of solid waste that otherwise would go into landfills.

Homasote Company’s environmental commitment extends beyond raw material recycling. It is the first manufacturer in the United States to recycle nearly all water used to manufacture its products. Process water, hundreds of thousands of gallons per day, is completely reused in a closed-loop system, a recycling feat recognized in 1956 by an award from the U.S. Army Corps of Engineers (precursor to the U.S. Environmental Protection Agency).

A leader in green building years before the first Earth Day was celebrated, Homasote Company naturally is a proud member of the U.S. Green Building Council. From sound control for floors and walls, to tackable interior panels, to roofing products, Homasote Company has a broad range of products with up to 98 percent recycled content that can help contribute towards LEED credits in several categories.

SECTION 09 80 00 - ACOUSTICAL TREATMENT

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Section 03 00 00 Concrete.
    2. Section 07 90 00 Thermal and Moisture Protection – Joint Protection
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 03 15 00 – Concrete Accessories.
    2. Section 07 91 26 – Joint Fillers.
    3. Section 07 92 00 – Joint Sealants.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. 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.
    2. 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. SUBMITTALS
     1. Submit under provisions of Section 01 30 00.
     2. 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.
  2. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Minimum 10 years experience in producing concrete expansion joint fillers.
  3. DELIVERY, STORAGE, AND HANDLING
     1. Store products in manufacturer's unopened packaging with labels intact until ready for installation (if applicable).
     2. 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.
     3. Store materials in a dry place, indoors, on raised platform protected from weather damage.

1. PRODUCTS
   1. MANUFACTURERS
      1. 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
      2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Provide all concrete expansion joint fillers from a single manufacturer.

\*\* NOTE TO SPECIFIER \*\* Consult manufacturer for specific recommendations of tested assembly constructions.

* 1. MATERIALS
     1. 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:
           1. Parallel: 450-700 psi (3,100-4,830 kPa).
           2. 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:

\*\* NOTE TO SPECIFIER \*\* Consult manufacturer for specific recommendations of tested assembly constructions for required R-values. Delete thicknesses not required.

* + - * 1. R-value: 1.2 for 1/2 inch (13 mm) thick board.
        2. K-value: .512 Btu-in/ (h ft² °F).
      1. Conforms to the performance requirements of AASHTO M213.
  1. ACCESSORIES

\*\* NOTE TO SPECIFIER \*\* Installation accessories are dependent on substrates and installation methods as recommended by the manufacturer; select from the following paragraphs accordingly.

* + 1. Plastic edge caps (zip strips).
    2. 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.

1. EXECUTION
   1. EXAMINATION
      1. Examine site conditions in which expansion joints are to be installed.
      2. Starting work by installer is acceptance of jobsite and environmental conditions.
   2. PREPARATION
      1. See “General Requirements” in manufacturer’s instructions.
   3. INSTALLATION
      1. Install in accordance with manufacturer's instructions.
   4. PROTECTION
      1. Protect uninstalled products from weather and physical damage until installation.
      2. Protect installed products until completion of project.