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PINnacle™N.C.F.R.® Architectural Specifications CSI Sections 06, 09, 10

--------------------------------------------------------------------------------------------------------------------------------\*\* 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

Tel: (800) 257-9491

Tel: (609) 883-3300

Fax: (609) 883-3497

Email: sales@homasote.com

Web: http://www.homasote.com

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. Class “A” tackable systems.
  1. References

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

* + 1. ASTM E 84-test method for surface burning characteristics of building materials.
    2. ASTM D 1037-test methods of evaluating properties of wood-base fiber and particle panel materials.
  1. Submittals
     1. Submit under provisions of Section 01 30 00.
     2. Product data: manufacturer’s catalog data, detail sheets and specifications.
     3. Quality assurance/ control submittals.
        1. Manufacturer’s installation instructions.
  2. Quality Assurance
     1. Manufacturer’s qualifications:
        1. Minimum 10 years experience in producing sound-deadening boards of the type specified herein.
  3. Delivery, Storage, and Handling
     1. Store products in manufacturer's unopened packaging with labels intact until ready for installation.
     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.
     4. Climatize panels to existing moisture conditions and for not less than 24 hours before installation. Comply with manufacturer’s recommendations for acclimatization.

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 sound deadening boards from a single manufacturer.

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

* 1. Materials
     1. Sound-deadening boards: Homasote PINnacle™N.C.F.R.; Physical properties as follows:

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

* + - 1. Thickness: 1/2 inch (13 mm).
      2. Density: 34-40 pcf (545-641 kg/cu. m) tested in accordance with ASTM C 209.
      3. Tensile Strength: When tested in accordance with ASTM C 209:
         1. Parallel: 400-700 psi (2,758-4,826 kPa).
         2. Transverse: 600-950 psi (4,130-6,555 kPa).
      4. Hardness (Janka Ball): 275 lbs (124 kg) tested in accordance with ASTM D 1037.
      5. Water Absorption by Volume: When tested in accordance with ASTM C 209:
         1. 2 hour immersion: 7 percent maximum.
      6. Expansion: 50 to 90 percent relative humidity, 0..30 percent in accordance with ASTM C 209.
      7. 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: .85 for 1/2 inch (13 mm) thick board.
        2. K-value: .59 Btu-in/ (h ft² °F).
      1. Noise reduction coefficient (NRC): 0.20
      2. Flame Spread: 25, smoke developed: 20, fuel contributed 0; tested in accordance with ASTM E 84; Class I or A.
  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. Adhesive: APA AFG-01 approved.
    2. Wall Panel Fasteners:
       1. Annular threaded nails: Length as required to penetrate into wall studs 3/4 inch (19 mm) minimum.
       2. Screws:
          1. General: 20 gauge or heavier, self-tapping drywall type steel screw.
          2. Wood Framing: Coarse thread drywall type wood screw, length as required to penetrate framing 3/4 inch (19 mm) minimum.
          3. Metal Framing: 22-25 gauge, drywall type steel screw.

1. EXECUTION
   1. Examination
      1. Examine substrates upon which work will be installed.
      2. Verify framing member spacing complies with manufacturer’s requirements depending on substrates and installation methods.
      3. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
      4. Verify what environmental conditions are, and will continue to be maintained in accordance with manufacturer’s recommendations.
      5. Starting work by installer is acceptance of substrate and environmental conditions.
   2. Preparation
      1. Follow manufacturer’s instructions by separating and allowing panels to be exposed to environmental temperature and humidity conditions for not less than 24 hours before start of installation.
      2. PINnacle panels must be installed in a clean, dry condition. Do not install wet panels.
   3. Installation
      1. Install in accordance with manufacturer's instructions.
      2. Install only clean dry panels. **Do not install wet panels**.
      3. Wall Panel Installation: Space panel joints 1/8 inch (3 mm) apart; 1/4 inch (6 mm) space at floors, ceilings, and window and door frames.
   4. Adjusting and Cleaning
      1. Protect installed products until completion of project. Replace panels that cannot be repaired.
      2. Clean by light sanding by using 280-320 grit sandpaper.