



*Sensible. Sound.  
Solutions.*



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PINnacle™N.C.F.R.® Architectural Specifications

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CSI Sections 06, 09, 10

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## PART 1 GENERAL

### 1.1 Section includes

- A. Class "A" tackable systems.

### 1.2 References

- A. ASTM E 84-test method for surface burning characteristics of building materials.
- B. ASTM D 1037-test methods of evaluating properties of wood-base fiber and particle panel materials.

### 1.3 Submittals

- A. Submit under provisions of Section 01 30 00.
- B. Product data: manufacturer's catalog data, detail sheets and specifications.
- C. Quality assurance/ control submittals.
  - 1. Manufacturer's installation instructions.

### 1.4 Quality Assurance

- A. Manufacturer's qualifications:
  - 1. Minimum 10 years experience in producing sound-deadening boards of the type specified herein.

### 1.5 Delivery, Storage, and Handling

- A. Store products in manufacturer's unopened packaging with labels intact until ready for installation.
- 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.
- D. Climatize panels to existing moisture conditions and for not less than 24 hours before installation. Comply with manufacturer's recommendations for acclimatization.

## 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 sound deadening boards from a single manufacturer.

### 2.2 Materials

- A. Sound-deadening boards: Homasote PINnacle™ N.C.F.R.; Physical properties as follows:
  - 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:
    - a. Parallel: 400-700 psi (2,758-4,826 kPa).
    - b. 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:
    - a. 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:
    - a. R-value: .85 for 1/2 inch (13 mm) thick board.
    - b. K-value: .59 Btu-in/ (h ft² °F).
  - 8. Noise reduction coefficient (NRC): 0.20
  - 9. Flame Spread: 25, smoke developed: 20, fuel contributed 0; tested in accordance with ASTM E 84; Class I or A.

### 2.3 Accessories

- A. Adhesive: APA AFG-01 approved.
- B. Wall Panel Fasteners:
  - 1. Annular threaded nails: Length as required to penetrate into wall studs 3/4 inch (19 mm) minimum.
  - 2. Screws:
    - a. General: 20 gauge or heavier, self-tapping drywall type steel screw.
    - b. Wood Framing: Coarse thread drywall type wood screw, length as required to penetrate framing 3/4 inch (19 mm) minimum.
    - c. Metal Framing: 22-25 gauge, drywall type steel screw.

## PART 3 EXECUTION

### 3.1 Examination

- A. Examine substrates upon which work will be installed.
- B. Verify framing member spacing complies with manufacturer's requirements depending on substrates and installation methods.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- D. Verify what environmental conditions are, and will continue to be maintained in accordance with manufacturer's recommendations.
- E. Starting work by installer is acceptance of substrate and environmental conditions.

### 3.2 Preparation

- A. 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.
- B. PINnacle panels must be installed in a clean, dry condition. Do not install wet panels.

### 3.3 Installation

- A. Install in accordance with manufacturer's instructions.
- B. Install only clean dry panels. **Do not install wet panels.**
- C. 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.

### 3.4 Adjusting and Cleaning

- A. Protect installed products until completion of project. Replace panels that cannot be repaired.
- B. Clean by light sanding by using 280-320 grit sandpaper.