

440 SOUND BARRIER
and N.C.F.R.® Homasote®



**Exterior
Vertical
Sheathing
Applications**

Exterior Vertical Sheathing Only

Homasote may be left exposed to weather during construction in a vertically installed application. House wrap or felt paper may be applied over the Homasote using staples. Apply finished siding following siding manufacturer's installation instructions. All edges of panel must fall on framing at all times. If an edge does not fall on any framing, then blocking must be installed. See Notes* below.

To Wood or Metal Framing: Applied to CORNERS ONLY

- 1) Apply panels directly to proper framing, not to exceed 16" o.c. for 1/2" thick panels and 24" o.c. for 5/8" thick panels. Allow for expansion gaps of 3/16" between the panels, and leave 1/4" at all panel end-joints.
- 2) Keep fasteners back 7/16" from all edges. Fasten panel 3" o. c. along Homasote panel edges and 4" o.c. at intermediate framing.
- 3) Fasten from center of panel out to edges. Use corrosion resistant fasteners to penetrate at least 1-1/2" into framing.

To Wood or Metal Framing: Applied to FIELD ONLY

- 1) Apply panels directly to proper framing. Framing not to exceed 16" o.c. for 1/2" thick panels and 24" o.c. for 5/8" thick panels. Allow for expansion gaps of 3/16" between the panels, and leave 1/4" at all panel end-joints.
- 2) Keep fasteners back 7/16" from all edges. Fasten panel 4" to 6" o. c. along Homasote panel edges and 10" to 12" o.c. at intermediate framing.
- 3) Fasten from center of panel out to edges. Use corrosion resistant fasteners to penetrate at least 1" into framing.

* NOTES: (1) Wood shingles, shakes, aluminum and vinyl sidings may be nailed directly to sheathing using corrosion-resistant ringshank nails long enough to penetrate 3/4" into 440 Homasote. When installing stucco, brick or stone as finished exterior, apply felt paper to the 440 Homasote, then nail wire mesh using corrosion-resistant ring shank nails long enough to penetrate through the Homasote panel and into the framing behind. (2) 440 Homasote should be allowed a minimum 24 hour acclimation period prior to installation by storing the product in the similar environment in which it is to be installed. (3) Insulation that is sprayed or wet-applied to wall cavities must not be used with 440 SoundBarrier®.

440 SoundBarrier® SPECIFICATIONS

PART 1 GENERAL

1.1 Section Includes

- A. Sound-deadening acoustical wall 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
- C. ASTM E 72–test methods of conducting strength tests of panels for building construction.

1.3 Submittals

- A. Submit under provisions of section 01300.
- 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, sheathing boards of the type specified herein.

1.5 Delivery, Storage, and Handling

- A. Deliver materials in manufacturer's original packages.
- B. Inspect the materials upon delivery to assure that specified products have been received.
- C. Report damaged material immediately to the delivering carrier and note such damage on the carrier's freight bill of lading.
- D. Store materials in a dry place, indoors, or on raised platform protected from weather damage.

PART 2 PRODUCTS

2.1 Manufacturers

- A. . Acceptable manufacturer: Homasote Company, 932 Lower Ferry Road, West Trenton, N.J. 08628. Telephone: 800-257-9491 or 609-883-3300, Sales Department, Ext. 1500, Technical Support, Ext. 1332, Fax 609-883-3497. Web site: www.homasote.com. For a local Homasote Company sales rep call the Sales Department, Ext. 1500.
- B. Requests for substitutions will be considered in accordance with provisions of section 01600.
- C. Substitutions: not permitted.
- D. Provide all sound-deadening boards from a single manufacturer.

2.2 Materials

- A. Sound-deadening boards: Homasote 440 SoundBarrier®; physical properties as follows:
 - 1. Thickness: 1/2 inch (13mm), 5/8 inch (16mm), 3/4 inch (19mm).
 - 2. Density: 26-28 pcf (416-448 kg/cubic m).
 - 3. Tensile strength: 450-700 psi (3,100-4, 830 kPa).
 - 4. Hardness (Janka Ball): 230 lbs. (104 kg).
 - 5. Water absorption by volume; ASTM D 1037:
 - a. 2 hour immersion: 5 percent maximum.
 - b. 24 hour immersion: 15 percent maximum.
 - 6. Expansion, 50 to 90 percent relative humidity: 0.25 percent.
 - 7. R-value: 1/2 inch 1.2 (0.021), 5/8 inch 1.33, 3/4 inch 1.4.
 - 8. Flame spread: Class III (or C).
 - 9. Noise reduction coefficient: 0.20.
 - 10. Shear strength: 309lb./ft. corner, 85lb./ft. field.

2.3 Accessories

- A. Adhesive: APA AFG-01 approved.
- B. Annular thread nails: length as required to penetrate a minimum of 1 inch (25mm) into framing.

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. Verify environmental conditions are, and will continue to be, maintained in accordance with manufacturer's recommendations.
- D. Coordinate with responsible entity to perform corrective work on unsatisfactory substrates or conditions.
- E. Starting work by installer is acceptance of substrates and environmental conditions.

3.2 Preparation

- A. Follow manufacturer's instructions by separating and allowing Homasote 440 SoundBarrier® to be exposed to environmental temperature and humidity conditions for not less than 24 hours before start of installation.
- B. 440 SoundBarrier® panels must be installed in a clean, dry condition. DO NOT INSTALL WET PANELS. It is essential to make every effort to prevent water from ponding on installed panels. 440 SoundBarrier® panels must be thoroughly dry prior to closing in the structure.

3.3 Installation

- A. Follow manufacturer's instructions for cutting and installation of Homasote 440 SoundBarrier®.
- B. See corner and field nailing patterns described on reverse side.
- C. For a current listing of approved nail guns and recommended fasteners for 440 SoundBarrier® sheathing visit www.homasote.com/sheathing.html. and select the "Fasteners" link.

To make sure you have the most current installation instructions visit <http://www.Homasote.com/installation> to see if newer instructions are online. If online is newer, print out and use the Internet version. These instructions were printed August 10, 2005.