

SECTION 09843

CORK-FACED ACOUSTICAL WALL PANELS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Class A cork-faced acoustical wall panels manufactured from recycled wood fiber material.
- B. Class B cork-faced acoustical wall panels manufactured from recycled wood fiber material.

1.2 RELATED SECTIONS

- A. Section 06100 - Rough Carpentry.
- B. Section 09110 - Non-Load-Bearing Wall Framing.
- C. Section 09250 - Gypsum Board.
- D. Section \_\_\_\_\_ - \_\_\_\_\_.

1.3 REFERENCES

- A. ASTM E 84 - Test Method for Surface Burning Characteristics of Building Materials.
- B. \_\_\_\_\_.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's catalog data, detail sheets, and specifications.
- C. Samples: Two samples of manufacturer's cork applied to substrate material indicating range of color; 7 by 7 inches (180 by 180 mm).
- D. Quality Assurance/Control Submittals:
  - 1. Manufacturer's installation instructions.
- E. Closeout Submittals: Maintenance and cleaning instructions.

1.5 QUALITY ASSURANCE

- A. Manufacturer's Qualifications:

1. Minimum 10 years experience in producing acoustical panels of the type specified herein.

#### 1.6 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.

#### 1.7 PROJECT CONDITIONS

- A. Environmental Requirements: For 24 hours before, during, and continually after installation, maintain temperature and humidity conditions that will approximate interior conditions following building occupancy.

### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Homasote Company, P.O. Box 7240, West Trenton, NJ 08628-0240; ASD. Tel: (609) 883-3300, Fax: (609) 530-1584, Internet address: <http://www.homasote.com>; For local rep contact: Sweet's Buyline 1-800-892-1165 (#0878).
- B. Requests for substitutions will be considered in accordance with provisions of Section 01600.
- C. Substitutions: Not permitted.
- D. Provide all cork-faced acoustical wall panels from a single manufacturer.

#### 2.2 MATERIALS

- A. Class A Cork Panels: Homasote Nova Cork Panels.
  1. Substrate: NCFR(R) fiberboard manufactured from 100 percent recycled wood fiber material; physical properties as follows:

- a. Thickness: 1/2 inch (13 mm).
  - b. Density: 34-40 pcf (545-640 kg/cubic m).
  - c. Water Absorption by volume (2 hour immersion): 5 percent maximum.
  - d. Expansion, 50 to 90 percent relative humidity: 0.30 percent.
  - e. R-value: 0.85 (0.015).
  - f. NRC: 0.20.
  - g. Flame Spread (cork on one face): 25, per ASTM E 84.
  - h. Smoke Developed (cork on one face): 20, per ASTM E 84.
  - i. Fuel Contributed (cork on one face): 10.
  - j. Classification: Class A, per NFPA.
- B. Class B Cork Panels: Homasote Nova Cork Panels.
- 1. Substrate: "440" fiberboard manufactured from 100 percent recycled wood fiber material; physical properties as follows:
    - a. Thickness: 1/2 inch (13 mm).
    - b. Density: 24-26 pcf (385-415 kg/cubic m).
    - c. Water Absorption by volume (2 hour immersion): 5 percent maximum.
    - d. Conditioned Moisture Content: 15 percent maximum.
    - e. Expansion, 50 to 90 percent relative humidity: 0.25 percent.
    - f. R-value: 1.11 (0.19).
    - g. NRC: 0.20.
    - h. Flame Spread (cork on one face): 70, per ASTM E 84.
    - i. Smoke Developed (cork on one face): 40, per ASTM E 84.
    - j. Fuel Contributed (cork on one face): 50.
    - k. Classification: Class B, per NFPA.
- C. Cork Surface: Natural color, virgin cork.
- D. Fabrication: Laminate cork to one side of substrate with continuous uniform coat of waterproof adhesive.
- 1. Edge Detail: All edges square.
- E. Fabrication: Laminate cork to both sides of substrate with continuous uniform coat of waterproof adhesive.
- 1. Edge Detail: Beveled edges, one face only.
  - 2. Edge Detail: Long edges beveled, one face only.

## 2.3 ACCESSORIES

- A. Metal Frame Clips: Manufacturer's standard clip for securing panels to framing.
- B. Adhesive: APA approved panel adhesive.
- C. Adhesive: APA AFG-01 subfloor adhesive.
- D. Nails: Color coordinated paneling nails, length as required to penetrate wood framing 3/4 inch (19 mm) minimum.
- E. Nails: Finishing nails, length as required to penetrate wood framing 3/4 inch (19 mm) minimum.
- F. Screws:
  - 1. Wood Framing: Coarse thread drywall type wood screw, length as required to penetrate framing 3/4 inch (19 mm) minimum.
  - 2. Metal Framing: 22-25 gage, drywall type steel screw.
  - 3. Metal Framing: 20 gage or heavier, self-tapping 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. 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 substrate and environmental conditions.

### 3.2 PREPARATION

- A. Follow manufacturer's instructions for allowing panels to be exposed to environmental temperature and humidity

conditions for not less than 24 hours before start of installation.

### 3.3 INSTALLATION

- A. Follow manufacturer's instructions for cutting and installation of panels:
  - 1. Wood Framed Walls, Method No. 1, (using framing clips).
  - 2. Wood Framed Walls, Method No. 2, (using adhesive).
  - 3. Metal Framed Walls.
  - 4. Wood or Metal Furring over masonry or concrete walls.
  - 5. Finished Walls (walls with continuous substrate in place).

### 3.4 CLEANING

- A. Follow manufacturer's instructions for cleaning panels soiled during installation.
- B. Replace panels that cannot be cleaned to "as new" condition.

END OF SECTION