

SECTION 09843

CORK-FACED ACOUSTICAL WALL PANELS

PART GENERAL

SECTION INCLUDES

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

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

RELATED SECTIONS

Section 06100 - Rough Carpentry.

Section 09110 - Non-Load-Bearing Wall Framing.

Section 09250 - Gypsum Board.

Section _____ - _____.

REFERENCES

ASTM E 84 - Test Method for Surface Burning Characteristics of Building Materials.

_____.

SUBMITTALS

Submit under provisions of Section 01300.

Product Data: Manufacturer's catalog data, detail sheets, and specifications.

Samples: Two samples of manufacturer's cork applied to substrate material indicating range of color; 7 by 7 inches (180 by 180 mm).

Quality Assurance/Control Submittals:
Manufacturer's installation instructions.

Closeout Submittals: Maintenance and cleaning instructions.

QUALITY ASSURANCE

Manufacturer's Qualifications:

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

DELIVERY, STORAGE, AND HANDLING

Deliver materials in manufacturer's original packages.

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.

Store materials in a dry place, indoors, or on raised platform protected from weather damage.

PROJECT CONDITIONS

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 PRODUCTS

MANUFACTURERS

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).

Requests for substitutions will be considered in accordance with provisions of Section 01600.

Substitutions: Not permitted.

Provide all cork-faced acoustical wall panels from a single manufacturer.

MATERIALS

Class A Cork Panels: Homasote Nova Cork Panels.

Substrate: NCFR(R) fiberboard manufactured from 100 percent recycled wood fiber material; physical properties as follows:

Thickness: 1/2 inch (13 mm).

Density: 34-40 pcf (545-640 kg/cubic m).

Water Absorption by volume (2 hour immersion): 5 percent maximum.

Expansion, 50 to 90 percent relative humidity: 0.30 percent.

R-value: 0.85 (0.015).

NRC: 0.20.

Flame Spread (cork on one face): 25, per ASTM E 84.

Smoke Developed (cork on one face): 20, per ASTM E 84.

Fuel Contributed (cork on one face): 10.

Classification: Class A, per NFPA.

Class B Cork Panels: Homasote Nova Cork Panels.

Substrate: "440" fiberboard manufactured from 100 percent recycled wood fiber material; physical properties as follows:

Thickness: 1/2 inch (13 mm).

Density: 24-26 pcf (385-415 kg/cubic m).

Water Absorption by volume (2 hour immersion): 5 percent maximum.

Conditioned Moisture Content: 15 percent maximum.

Expansion, 50 to 90 percent relative humidity: 0.25 percent.

R-value: 1.11 (0.19).

NRC: 0.20.

Flame Spread (cork on one face): 70, per ASTM E 84.

Smoke Developed (cork on one face): 40, per ASTM E 84.

Fuel Contributed (cork on one face): 50.

Classification: Class B, per NFPA.

Cork Surface: Natural color, virgin cork.

Fabrication: Laminate cork to one side of substrate with continuous uniform coat of waterproof adhesive.

Edge Detail: All edges square.

Fabrication: Laminate cork to both sides of substrate with continuous uniform coat of waterproof adhesive.

Edge Detail: Beveled edges, one face only.
Edge Detail: Long edges beveled, one face only.

ACCESSORIES

Metal Frame Clips: Manufacturer's standard clip for securing panels to framing.

Adhesive: APA approved panel adhesive.

Adhesive: APA AFG-01 subfloor adhesive.

Nails: Color coordinated paneling nails, length as required to penetrate wood framing 3/4 inch (19 mm) minimum.

Nails: Finishing nails, length as required to penetrate wood framing 3/4 inch (19 mm) minimum.

Screws:

Wood Framing: Coarse thread drywall type wood screw, length as required to penetrate framing 3/4 inch (19 mm) minimum.

Metal Framing: 22-25 gage, drywall type steel screw.

Metal Framing: 20 gage or heavier, self-tapping drywall type steel screw.

PART EXECUTION

EXAMINATION

Examine substrates upon which work will be installed.

Verify framing member spacing complies with manufacturer's requirements depending on substrates and installation methods.

Verify environmental conditions are, and will continue to be, maintained in accordance with manufacturer's recommendations.

Coordinate with responsible entity to perform corrective work on unsatisfactory substrates or conditions.

Starting work by installer is acceptance of substrate and environmental conditions.

PREPARATION

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.

INSTALLATION

Follow manufacturer's instructions for cutting and installation of panels:

Wood Framed Walls, Method No. 1, (using framing clips).

Wood Framed Walls, Method No. 2, (using adhesive).

Metal Framed Walls.

Wood or Metal Furring over masonry or concrete walls.

Finished Walls (walls with continuous substrate in place).

CLEANING

Follow manufacturer's instructions for cleaning panels soiled during installation.

Replace panels that cannot be cleaned to "as new" condition.

END OF SECTION