

Architectural Specifications

09720

Natural Cork® Cork wall covering

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Cork wall covering
 - 2. Related Sections include the following. Section 06100 - Rough Carpentry
- B. Section 09110 - Non-Load-Bearing Wall Framing
- C. Section 09250 - Gypsum Board
- D. Division 09 Section "Interior Painting" for priming wall surfaces

1.3 REFERENCE STANDARDS

Specifier Notes: List reference standards mentioned in this section, complete with designations and titles. Delete reference standards not included in this edited section. This article does not require compliance with reference standards, but is merely a listing of those used.

- A. ASTM D 2486 – Standard Test Methods for Scrub Resistance of Wall Paints.
- B. ASTM E 84 – Standard Test Method for Surface Burning Characteristics of Building Materials
- C. ASTM E 96 – Standard Test Methods for Water Vapor Transmission of Materials
- D. ISO 9001:2000 – Quality Management Systems – Requirements
- E. NFPA 286 – Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of
- F. Wall and Ceiling Interior Finish

1.4 SUBMITTALS

- A. Comply with Section 01330 (01 33 00) – Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including surface preparation and installation instructions.
- C. Samples: Submit manufacturer's samples of each pattern and color of wall coverings specified, minimum 12 inch by 12 inch.
- D. Product Data: For each type of product indicated. Include data on physical characteristics, durability; fade resistance, and flame-resistance characteristics.
- E. Schedule: For wall coverings use same designations indicated on Drawings
- F. Manufacturers Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
- G. Cleaning Instructions: Submit manufacturers cleaning instructions.
- H. Warranty Documentation: Submit manufacturer's standard warranty

1.5 QUALITY ASSURANCE

- A. Manufacturer's Qualifications:
 - 1. Manufacturer regularly engaged, for past 5 years, in manufacture of commercial wall coverings.
 - 2. ISO 9001 certified facility.
- B. Installer's Qualifications:
 - 1. Installer regularly engaged, for past 5 years, in installation of commercial wall coverings.
 - 2. Employ persons trained for installation of commercial wall coverings.
- C. Pre-installation Meeting:
 - 1. Convene pre-installation meeting before start of installation of wall coverings.
 - 2. Require attendance of parties directly affecting work of this section, including Contractor, Architect, installer, and manufacturer's representative.
 - 3. Review surface preparation, testing for and eliminating sources of moisture accumulation into walls, installation, cleaning, protection, and coordination with other work.
- D. Fire-Test-Response Characteristics: Provide wall coverings and adhesives with the following fire-test-response characteristics as determined by testing identical products applied with identical adhesives to substrates per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.

1. Surface-Burning Characteristics: As follows, per ASTM E 84:
 - a. Flame-Spread Index: 25 or less.
 - b. Smoke-Developed Factor: 15 or less.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery and Acceptance Requirements: Deliver materials to site in manufacturer’s original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage and Handling Requirements:
 1. Store and handle materials in accordance with manufacturer’s instructions.
 2. Keep materials in manufacturer’s original, unopened containers and packaging until installation.
 3. Store materials in clean, dry area indoors, out of direct sunlight
 4. Keep wall coverings clean and dry.
 5. Store materials at normal occupied building temperature and humidity for a minimum of 3 days before installation

1.7 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install wall coverings until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions maintained at the levels indicated for the project when occupied for its intended use.
- B. Lighting: Do not install wall covering until a permanent level of lighting is on the surfaces to receive wall covering.
- C. Ventilation: Provide continuous ventilation during installation and for not less than the time recommended by wall-covering manufacturer for full drying or curing.

1.8 EXTRA MATERIALS

- A. Furnish extra materials described below, before installation begins, that match products installed and packaged with protective covering for storage and identified with labels describing contents.
 1. Wall-Covering Material: Full-size units equal to 5 percent of amount of each type installed.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Natural Cork® by USF Contract a Division of USFloors Inc., 3580 Corporate Drive, Dalton, GA, 30721. Phone 877.292.4044 www.usfcontract.com
- B. Requests for substitutions considered in accordance with provisions of Section 01600.
- C. Substitutions: Not permitted
- D. Provide all cork-faced wall tiles from a single manufacturer.

2.2 WALLCOVERINGS

- A. Wall Coverings: Natural Cork®
 1. Top Coating: Protective, stain resistant
 2. Finished Width: 12 inches
 3. Dye and finish
 - a. Water based.
 - b. Free of cadmium, mercury, and heavy metals.
 4. Does not contain perfluoro octanoic acid (PFOA), nor will it degrade to PFOA.
 5. Does not contain formaldehyde
 6. Does not contain plasticizer
 7. Recyclable: 100 percent pre-consumer recyclable through manufacturer reclamation program.
 8. USGBC LEED MR 4.1 Recycled Content: 10% [pre-consumer materials]
 MR 6.0 Rapidly Renewable
 EQ 4.4 Low Emitting Materials: Composite Wood & Agrifiber Products
 9. Certifications ISO1401 & 9001
 10. GREENGUARD Indoor Air Quality Certified for low VOC emissions
 11. Average Total Thickness: 4.8mm and 7.9mm
 12. Flammability NF Class M3 EN13501-1 Class Dfls1
 13. Surface flammability ASTM D2859 Pass
 14. Specific optical density ASTM E 662-03 Flaming: 145.8 Non-Flaming 287.43
 15. NRC Noise Reduction Class ASTM C423-90a 0.10db
 16. STC Sound Transmission Class ASTM E413-87 53db

17. IIC Impact Insulation Class ASTM E492-04 56db
18. Moisture Vapor Transmission Rate, ASTM E 96, Method B: Minimum 100 perms.
19. Scrub ability Test, ASTM D 2486, 300 Cycles: No damage to finish or print.
20. Surface Burning Characteristics, ASTM E 84, on Type X gypsum board: Class A

2.3 ACCESSORIES

- A. Adhesive: Mildew-resistant, non-staining, eco-friendly adhesive, for use with specific wall covering and substrate application, as recommended in writing by wall-covering manufacturer.
- B. Moldings as required to finish

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements for levelness, wall plumbness, maximum moisture content, and other conditions affecting performance of work.
- B. Proceed with installation only after unsatisfactory conditions are acceptable.

3.2 SURFACE PREPARATION

- A. Provide Level 4 wall surface for wall coverings per Section 09255 for Gypsum Board
- B. Comply with manufacturers written instructions for surface preparation.
- C. Remove mold, mildew, dirt, oil, grease, stains, and marks.
- D. Prepare substrates to achieve a smooth, dry, clean, structurally sound surface; free of flaking, unsound coatings, cracks, and defects.
- E. Ensure existing paint or primer has good adhesion to walls.
- F. Test for and eliminate sources of moisture accumulation into wall or wall cavity.
- G. Gypsum Board: Prime with primer recommended by wall-covering manufacturer
- H. Check painted surfaces for pigment bleeding. Sand gloss, semi-gloss, and eggshell finishes with fine sandpaper.
- I. Acclimatize wall-covering materials by removing them from packaging in the installation areas not less than 24 hours before installation.
- J. Remove existing wall coverings, including remaining adhesive.

3.3 INSTALLATION

- A. General: Comply with wall-covering manufacturers' written installation instructions applicable to products and applications indicated, except where requirements that are more stringent apply.
- B. Test Installation:
 1. Install test installation 3 days in advance of main installation.
 2. Inspect wall coverings and evaluate appearance for color uniformity and pattern match.
 3. Notify Architect and manufacturer if appearance is unacceptable.
 4. Do not begin main installation until unacceptable appearance is acceptable
- C. Install wall coverings under adequate lighting conditions.
- D. Apply adhesive to back of wall coverings in accordance with manufacturer's instructions
- E. Fully bond wall covering to substrate
- F. Install wall-covering seams free from air and paste bubbles.
- G. Remove paste residue from wall coverings, ceilings, and baseboards.
- H. Do not install wall coverings over existing wall coverings.
- I. Install wall coverings with no objectionable variations in color and pattern match, as determined by Architect.

3.4 CLEANING

- A. Clean wall coverings promptly after installation, if necessary, in accordance with manufacturer's instructions.
- B. Do not use harsh cleaning materials, solvents, steel wool abrasive cleaners or methods that could damage wall coverings.
- C. Remove excess adhesive at finished seams, perimeter edges, and adjacent surfaces.
- D. Replace tiles that will not clean.
- E. Reinstall hardware and hardware accessories, electrical plates and covers, light fixture trims, and similar items.
- F. Provide end user / owner with complete maintenance instructions as recommended by the wall-covering manufacturer.

3.5 PROTECTION

- A. Protect installed wall coverings from damage during construction.