

SECTION 09 62 29 FLOATING CORK FLOORING

General notes to the specifier:

This is a template: edit this specification carefully to suit specific project requirements.

Following guidelines established by the construction specifications institute This specification section organizes information in three parts:

Part 1 – General: describes administrative and procedural requirements;

Part 2 – Products: describes materials, products, and accessories to be used in the project; and Part 3 – Execution: describes how these products are to be installed.

Referenced section numbers and titles are based on *Masterformat*, 2004 edition.

This section assumes the project manual contains complete Division 1 documents including Sections 01 33 00–Submittal Procedures, 01 62 00–Product Options, 01 25 0 0–Substitution Procedures, 01 66 00–Product Storage And Handling Requirements, 01 74 23–Final Cleaning, 01 77 00–Closeout Procedures, And 01 78 00–Closeout Submittals. If the project manual is lacking these sections, additional information should be included under the appropriate articles herein.

Editing guide:

/ italicised paragraphs are notes to the specifier and should be deleted from final draft.

[square brackets] denote options requiring selection by the specifier- delete unused options.

_____underlined blanks indicate items that may require supplementary information.

Bold face type is used to highlight optional paragraphs and phrases that may be selected or deleted as required. Reformat bold face type when including these elements

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: [pre-stained] [pre-finished] Floating Cork Uniclic Flooring

B. Related sections:

List other specification sections dealing with work directly related to this section and for other types of flooring materials abutting the floating cork flooring

1. **01 35 14 – LEED Credit Summary.**
2. **03 30 00 – Cast-in-Place Concrete: Concrete slab substrate.**
3. **06 10 00 – Rough Carpentry: Wood subfloor.**
4. **06 20 00 – Finish Carpentry: Baseboards and associated trim not otherwise included in this section.**
5. _____ - _____.

1.2 SUBMITTALS

A. Submit under provisions of Section 01 33 00–Submittal Procedures the following items:

1. Product Data.
 - a. Flooring: Include **complete range of 88 available colors or selected custom matched colors**, adhesive used in manufacture of flooring planks and finish data.
 - b. **Accessories.**
2. Shop Drawings: Include direction of flooring, fastening method, flooring patterns and color layout, and 1:1 scale sectional details of **accessories and** transition to other flooring materials.
3. Samples:
 - a. 12 inch (300 mm) long piece of pre-finished floating cork uniclic flooring material in specified stock or custom color-matched color.
 - b. **One of each specified accessory, minimum 4 inches (100 mm) long.**
4. Quality Assurance/Control Submittals:
 - a. Qualifications: Proof of manufacturer and installer qualifications.
 - b. Test Reports: Reports for specified Physical Property Performance Requirements.
 - c. Manufacturer's Installation Instructions.

B. Closeout Submittals: Submit under provisions of Section 01780–Closeout Submittals the following items:

1. Maintenance Instructions and Letter of Warranty.

C. LEED Submittals:

1. Credit MR 4.1 & 4.2: 100% pre-consumer cork content
2. Credit MR 6: Rapidly renewable material

3. Credit EQ 4.2: Cork flooring coating data indicating finish used has a VOC of less than 275 g/L.
4. Credit EQ 4.4: Low-Emitting Materials: Manufacturer's information showing resins and backer material used in flooring contain no added urea formaldehyde.

1.3 QUALITY ASSURANCE

- A. Qualifications:
 1. Manufacturer Qualifications
 - a. Minimum ten years experience in the development, manufacture and distribution of high-performance polyurethane floor coatings and stains for cork flooring.
 2. Installer Qualifications:
 - a. Minimum three years experience in floating flooring installation.
 - b. **Minimum three years experience in installation of floating flooring over radiant heating systems.**

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Reference Section 01 66 00–Product Storage and Handling Requirements.
- B. Deliver cork flooring to project site in original packaging not less than 5 days prior to installation start date.

1.5 PROJECT/SITE CONDITIONS

*For a **radiant floor heating system** specify "5 days" in the paragraph below, otherwise specify "72 hours."*

- A. Environmental Requirements: Area to receive floating cork flooring, flooring material must be maintained at normal occupancy temperature and humidity levels for minimum [72 hours] [5 days] prior to, during and continuously following installation.

1.6 WARRANTY

FOR COMMERCIAL PROJECTS, USE WARRANTY ARTICLES A. AND B. FOR RESIDENTIAL PROJECTS USE WARRANTY ARTICLE C. ONLY.

- A. Structural Warranty: 25 years against delamination, separation, buckling or cupping as a result of a manufacturing defect when installed and maintained in accordance with manufacturer's installation instructions.
- B. Finish Warranty: 5 years against wear through to the underlying cork flooring or separation from the flooring when installed and maintained in accordance with manufacturer's installation and maintenance instructions: two coats of MP765 water-base polyurethane is applied yearly for high-traffic retail areas, two to three years for low to medium commercial traffic and five to seven years for residential applications.
- C. Color Warranty: no fading or discoloration of the stain over time.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. DuroDesign Flooring Inc.
4999 Rue Louis-B.-Mayer,
Laval, Québec, Canada H7P 0E5
Website: <http://www.durodesign.com/>

Toll free: (888) 528-8518

Fax: (514) 317-5704

e-mail: info@durodesign.com

Insert name, address and phone numbers of local distributor/dealer below.

1. Distributor/Dealer:

Choose cork pattern and colors below

B. Uniclic Floating Cork Flooring:

1. **Uniclic floating cork flooring for residential, commercial and access flooring with high-density fibreboard core and integral cork underlayment**
 - a. **Pattern:** [Baltico] [Barriga] [Cleopatra] [Cleopatra Negra] [Edipo] [Marmol]
 - b. **Color:** [Natural] [DuroDesign Color] [Natural and colored as shown on Drawings].

C. Substitutions: None Permitted.

2.2 MATERIALS

A. Floating Cork Flooring:

1. Installation Style : Uniclic profile, glueless snap-together installation.
2. Size: 11-13/16 inches (300 mm) wide by 1/2 inch (12 mm) thick by 35-13/16 inches (910 mm) long.
3. Edge: Uniclic Tongue and groove.
4. Cork top layer: 1/8" (3mm)
5. High-Density Fibreboard core: 1/4" (6mm) containing no urea formaldehyde
6. Integral cork underlayment: 1/8" (3mm)
7. Cork face layer minimum density 550 kg/m3 (34 lbs/ft3)
8. Fibreboard density 850 kgs/m3 (53 lbs/ft3)
9. Underlayment cork density 210 kg/m3 (13 lbs/ft3)
10. Fibreboard Treated with Jointguard moisture protection and Microban®
11. Physical Property Performance Requirements:
 - a. Acoustical Performance: on 8" concrete slab STC 58 IIC68 NC30
 - b. Acoustical Performance: on 8" concrete slab w/ drop ceiling: STC60 IIC73 NC30
 - c. Flammability: ASTM E 648: Class I Interior Floor Finish rating per NFPA 101.
 - d. Smoke Density: ASTM E 622: Maximum 270 in flaming mode; 330 in non-flaming mode.

- e. Compressive recovery: ISO 9727 With loading of 38.5 lbs/in²- Initial: 10% Residual: 1.5% after 1 hour Breaking tension on traction: no less than 11 lbs/in²
- f. Shock Absorption: UNE 56 817 74 Initial maximum indentation < 0.19 mm Maximum indentation after 1 hour < 0.08 mm
- g. Slip Resistance: ASTM F 1679, English XL test: Average Dry Slip Index: 0.630.
- h. Abrasion Resistance: ASTM D 4060, CS-17 Taber abrasive wheels: Final wearthrough: Minimum 12,600 cycles.
- i. Formaldehyde:<3.0 mg/100g Class E1, Danish Control Organization for wood based Panels (HDF) To classify E1, high density fiberboard panels must contain less than 9 mg per 100 g of product.

2.3 ACCESSORIES

- A. Subfloor filler: Portland cement-based as recommended by floating cork flooring manufacturer.

Insert accessories such as baseboards, transition strips, thresholds here. Coordinate installation of transition strips to other flooring materials and finished floor heights, if applicable, and determine which flooring installer should provide transition materials .

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates upon which floating cork flooring will be installed.
 - 1. Verify that subfloor is structurally sound, clean, dry, and free of contaminants that would interfere with bonding of the cement-based patching compound (such as concrete curing compounds, waxes or oils).
 - 2. In wood frame structures, do not begin installation of floating cork flooring until structure has been dried out, with moisture content of wood subfloors between 6 and 10 percent.

Following three paragraphs apply only to floating cork flooring installed over concrete substrates.

- 3. Test concrete floors for moisture vapour emission using a Calcium Chloride test. Do not install floating cork flooring if vapor pressure exceeds 3 lbs per 1,000 square feet (15 g per m²) in 24 hours.
 - 4. Document test results and mark all test location(s) on As-Built Drawings.
- B. Verify that HVAC system is operating and maintaining occupancy level temperature and humidity conditions.
- C. Report unsatisfactory conditions to Architect and/or General Contractor and correct before proceeding.

3.2 PREPARATION

- A. Acclimatization: Open floating cork flooring boxes and remove packaging a minimum 3 days prior to start of installation.

- B. Grind and fill subfloor using methods and materials appropriate to the subfloor construction to eliminate humps and depressions exceeding 1/8 (3 mm) inch in 6 feet (1830 mm). C.
Clean surfaces thoroughly prior to installation.

3.3 INSTALLATION

Under normal installation conditions, the manufacturer's installation instructions are sufficient. Unusual or unique site or design conditions may demand supplementary information in this article.

- A. Floating Cork Flooring: Install in accordance with manufacturer's complete installation instructions. Details below are a summary only.
- B. Install 6-mil vapor-barrier, taped at seams on entire floor.
- C. Lay flooring in the direction(s)/pattern(s) as shown on Drawings.
- D. For a blended appearance select pieces randomly from several boxes.
- E. Allow 3/8 inch (10 mm) space for expansion and movement of floating cork flooring at walls and permanent obstructions.
- F. **Accessories: Install using methods appropriate to the accessory and flooring system.**

3.4 CLEANING

- A. Reference Section 01 74 23–Cleaning.
- B. Follow manufacturer's recommended maintenance instructions.

3.5 PROTECTION

- A. Repair or replace defective or damaged work as directed by the Architect. All chipped, scratched or otherwise damaged or defective work will be repaired or replaced. All repairs shall be undetectable. Use manufacturer-supplied touch up stain if required.
- B. Cover and protect completed floating cork flooring from further construction traffic with heavy kraft-paper or other suitable covering. Do not use non-breathable sheet or film that could cause condensation to form. Maintain covering throughout remainder of construction period.

END OF SECTION