

RESILIENT TILE FLOORING Architectural Specification

PART 1 – GENERAL

1.1. Description.

- a. This document specifies a parquet tile floor made of 100% high-density cork.
- b. General contractor shall provide suitable concrete or wood subfloor level to tolerance of 1/8" in 10'0" radius, subject to approval of installer (Flooring Contractor). Subfloor shall be free of dust, soils, coatings and sealers. subfloor shall be tested for moisture and shall not exceed Duro-Design Cork guidelines. Labor and materials necessary to put subfloor in acceptable condition shall be the responsibility of the general contractor.

1.2. Quality Assurance.

- A. Cork parquet tile shall be solid cork composition throughout entire thickness, Cork parquet tile shall be free of polyvinylchlorides (PVC's).
- B. Complete installation of flooring system shall be carried out by experience installer (flooring contractor), and work shall be performed in accordance with most recent installation instructions of manufacturer. Installer (flooring contractor) shall be liable for matters related to installation for period of one year after floor has been substantially installed and completed.

1.3 Working conditions.

- A. If installing on a concrete slab, it must be cured a minimum of 28 days and dry. Flooring must not be installed if vapor pressure exceeds 3 lbs. per 1000 square feet in 24 hours as tested according to ASTM F 1869 (calcium chloride test method). Preferably the slab should be tested according to ASTM F 2170 (Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using In Situ Probes) Flooring must not be installed if the relative humidity inside of the concrete slab exceeds 75%.
- B. Do not deliver or install cork parquet tiles until trowel trades are complete; building is enclosed and weather-tight; and permanent heating, air conditioning, ventilating and lighting are installed and operating.
- C. Store pre-glued cork parquet tiles on edge no more than three boxes high at job site in dry, well-ventilated area.. During storage and installation, maintain temperature and relative humidity to level consistent with those conditions which will prevail when building is occupied. In most cases, this means maintaining temperature range of 60 degrees to 85 degrees Fahrenheit and relative humidity range of 50% to 70%. In order to reach this climate, use heating or air conditioning for appropriate length of time prior to beginning installation.

PART 2 – MATERIALS.

2.1 Flooring and Accessories.

- A. Pre-glued, pre-stained or natural, high-density (500 kg/m³) cork tiles as manufactured by Duro-Design Cork Flooring – phone number 1-888-528-8518.
- B. Resilient tile shall be (example):

Manufacturer	Product	Size	Color	Pattern
Duro-Design	cork			

(Finishing is required) Even though the staining and the sealer coat is applied at the factory, the four finishing Duro-Design MP765 urethane coats must be applied after the tile has been installed. The Duro-Design MP765 urethane finish will be shipped along with the tile and the accompanying water-base adhesive.

2.2 Installation Materials.

- A. Use ONLY 100% PORTLAND based patching compounds if subfloor patching is necessary.
- B. Duro-Design Contact Adhesive will be shipped with the tile.
- C. Provide clean, new short nap roller for utilization of Duro-Design contact adhesive or provide proper applicator for utilization of contact cement as recommended by Duro-Design.

PART 3 – EXECUTION.

3.1 Inspection.

- A. Inspect subfloor for proper finish, tolerance and dryness. Report discrepancies to general contractor in writing.
- B. General contractor shall have subfloor broom cleaned and vacuumed, free of debris.

3.2 Installation.

- A. Shuffle cork parquet tiles for best visual mix. Mix cork parquet tiles from various cartons to maintain natural color and pattern variation.
- B. **(Installing the tiles)**. Apply adhesive to the floor with a new short hair roller (7/8"nap) using the paint tray for the glue. You may coat the entire area or as much as you feel in one day. Wait 30 minutes for the adhesive to be dry. There should be a slight gloss on the floor. If the cement is very porous you may want to put 2 coats (this is the exception). Line up the edge of your squares with a guideline (4'to 6'straight edge) and set the cork down lightly. Only apply pressure when cork is aligned. Pressure will cause the cork to stick firmly and further movement will not be possible.

Play around with the flexibility of the cork to have as tight joint as possible to avoid gaps. Then go with the small hand roller, pressing down on all the joints. When using 12"x 24" format, tiles must be put in a staggered pattern (Ashlar pattern)..

(Applying MP765 water-base urethane) First sweep, then vacuum the un-varnished cork floor. Before mixing catalyst (already pre-measured) be sure to stir out jelly, then pour the catalyst gradually and mix continually right away, i.e., do not let the catalyst go to the bottom of the can or pail and leave unstirred as it will harden at the bottom. The catalyzed varnish is good for one month but we recommend filtering. If using the next day or week, etc. **NEVER POUR BACK UN-USED MIX INTO PAIL AND NEVER USE VARNISH UNCATALYZED.** Pour the catalyzed varnish in a clean paint tray and soak the fine filter pad applicator and apply in one direction only in a smooth and easy motion (almost like cleaning the floor). Once finished, let dry for 1 to 2 hours until completely dry. Four (4) coats are needed switching directions during each coat. We recommend a light manual (never machine) scuff between second and third coat only, i.e. #180-220 grit sanding paper). Allow overnight drying before walking on it. **Never use dropcloths before entirely dry.** Area rugs should not be placed on the floor for a minimum of 10 days to allow the urethane to cure.

(Additional Information)

- Keep your floor clean. A clean floor will look better longer.
- The recommended adhesive, sealer and urethane are water based for easy clean up with water if carried out before drying occurs.
- Keep adhesives and urethane at room temperature. DO NOT FREEZE.
- Never use a roller for urethane as bubbles will result.
- To avoid streaks, apply urethane during each coat in one direction only unless unavoidable.
- You can use ventilation to accelerate drying time between coats (making sure that no dust is attached). The last coat should not have direct ventilation (to avoid too fast a setting and streaks to appear).

3.3. Maintenance.

(Necessary steps to protect a Cork Floor). To help eliminate fine particles of dirt/grit that act like sandpaper and will scratch any floor, vacuum or sweep daily.

Spills should be wiped up immediately.

Damp mop in-between weekly cleaning with a mild wood-floor detergent

Use walk-on mats at entrance doors. Avoid rubber backed or other non-ventilated mats or rugs.

Install proper protectors under “feet” of furniture. Caster wheeled chairs should have wide casters. Periodically check floor for signs of wear.

- A. Vacuum and clean regularly with damp mop and water. Once in a while (after cleaning the bulk of the dirt with water only) you can use wood floor cleaners (i.e. Basic Coatings, BonaKemi, Finnitec, etc...) diluted in water.
- B. To ensure the lasting beauty of your floor and additional coating of urethane should be applied every year for high commercial traffic (i.e. retail stores, restaurants, etc.), 2 to 3 years for medium traffic (i.e. offices, museums, etc.) and 5 to 7 years for light commercial or residential. This is a simple, inexpensive and fast operation- light manual scuff sand followed by two coats of our MP765 water base urethane with overnight drying before walking on the floor. A well maintenance floor will last for decades.

NEVER WAX OR BUFF YOUR FLOOR AS THIS IS A URETHANE APPLICATION

- C. Maintenance supplies: Provide 5% of the total number of tiles to the Owner, well wrapped and clearly labeled.

3.4. Repair.

- A. Repair or replace deflection work as directed by the Architect. All chipped, scratched, unlevelled, or other defective work will be repaired or replaced. Repairs shall be undetectable.
- B. Securely protect floor from damage by traffic or further construction work.