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RESILIENT CORK TILE 3 PART SPECIFICATION #Z 624

THE FOLLOWING DOCUMENT IS A GUIDE FOR CREATING YOUR CSI FORMATTED 3-PART ARCHITECTURAL GUIDE SPECIFICATIONS.

ZANDUR ACCEPTS NO LIABILITY FOR ANY DAMAGES RESULTING FROM THE USE OF THIS DOCUMENT OR RELATED SPECIFICATIONS. PRIOR TO USE OF THIS DOCUMENT, ENSURE THAT YOU HAVE OBTAINED ALL UP TO DATE PUBLICATIONS AND SPECIFICATIONS FROM ZANDUR.

THE SPECIFIER IS RESPONSIBLE FOR PRODUCT SELECTION, ACCURACY OF ALL PROJECT SPECIFICATIONS AND USE OF PROPER SPECIFICATION DATA.

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Solid Cork Flooring.

1.3 SUBMITTALS

- A. Product Data: Submit product data including manufacturers general specification sheet for each product specified.
- B. LEED Submittals:
 - 1. Product Data for each LEED credit where product meets qualifications: For adhesives, include printed statement of VOC content and chemical components.
- C. Samples for Initial Selection: Submit representative selection of samples for finish, color and shade.

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- D. Samples for Verification: For each type of product indicated, in manufacturer's standard-size samples of each resilient product color, shade, texture, and pattern required.
- E. Product Schedule: For resilient products. Use same designations indicated on Drawings.

1.4 QUALITY ASSURANCE

- A. Mockups: Provide resilient products with mockups specified in other Sections.
- B. Documents. Submit the following:
 - 1. Test reports showing compliance with specified performance and physical characteristics
 - 2. Installation and Maintenance instructions.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store resilient products and installation materials indoors with ambient temperatures maintained within range specified by Zandur.

1.6 PROJECT CONDITIONS

- A. Install resilient flooring after other finishing work, including painting and installation of ceiling systems has been completed.
- B. Maintain ambient temperature and humidity within the range specified in Zandur installation documentation.

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PRODUCTS

1.7 RESILIENT SOLID CORK FLOORING

Manufacturer:

Zandur	Phone:	888.397.2656
80 Nottingham Dr.		610.932.4390
Nottingham, PA 19362	Tech:	888.397.2656
Web: www.zandur.com	Samples:	888.397.2656
email: sales@zandur.com	Fax:	610.932.4386

A. Resilient Solid Cork Tile Flooring

1. PRAXIS SOLID CORK TILE specify – Resilient Cork Tile Flooring with the following physical characteristics:
 - a. Manufactured with a composition of 100% cork and synthetic non-phenolic binder.
 - b. Manufactured with water based binders, pigments and finishes.
 - c. Product is aged for a minimum of 4 weeks prior to final processing to ensure dimensional stability.
 - d. Overall thickness (Specify):
 - 1) 1/8" (2.8mm)
 - 2) 3/16" (4.8mm)
 - 3) 5/16" (8.0mm)
 - 4) 1/2" (12.0mm)
 - e. Finishes (Specify):
 - 1) 7 Coats Commercial Grade Water Based Matte Polyurethane
 - 2) Natural Carnauba Wax
 - 3) Unfinished
 - f. Tile size (Specify):
 - 1) 12" x 12"
 - 2) 12" x 24"
 - 3) 6" x 36"
 - 4) Specify other size as required
 - g. ASTM D 3389 Standard Test Method for Coated Fabrics Abrasion Resistance: < 1.00 gram weight loss.
 - h. ASTM D 2047, Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring: Exceeds Federal Standards and A.D.A. requirements for slip-resistance.
 - i. ASTM F 970, Standard Test Method for Static Load Limit – passes.
 - j. ASTM E 648, Standard Test method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source – Class II
 - k. Meets California Section 01350 indoor air quality test
 - l. Phthalate, chlorine and halogen-free.
 - m. Meets requirements for LEED MR4.1, MR4.2, MR 6.0 and IEQ4.3.

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- Specify (Zandur Solid Cork ___ [specify color by number and name] ____ [specify dimension] X ___ [specify thickness]. _____ [specify finish] finished.)

1.8 INSTALLATION MATERIALS

- A. Trowelable Leveling and Patching Compounds: Latex-modified, **Portland** cement based or blended hydraulic cement based formulation.
- B. Adhesives: As recommended in current Zandur installation instructions.
 - 1. Solid Cork Floor Tile
 - a. Zandur #40 Water Based Contact Adhesive

PART 2 - EXECUTION

2.1 EXAMINATION

- A. Examine substrates, with installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the work.
- B. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks and other imperfections, are smooth and level within tolerance specified by Zandur and are free of oils, waxes, paint or other materials that might interfere with adhesion of resilient products.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

2.2 PREPARATION

- A. General Information & Requirements For All Sub-Floors
 - 1. Zandur products must be installed on a subfloor that is permanently dry, clean, smooth and structurally sound. The sub-floor must be free of contaminants such as paint, oil, wax, mold, adhesive residues, sealers or any other materials that may interfere with adhesive bonding. See current instructions for approved wood sub-floors and cementitious sub-floors. **DO NOT INSTALL MATERIAL OVER EXISTING FLOOR COVERINGS OR ADHESIVE RESIDUE.**
 - 2. Prior to installation an adhesive bond test must be performed by gluing a tile to the sub-floor. Allow adhesive to cure overnight. If bond is sufficient, tile will be laying flat and it will not be possible to remove tile by hand.
 - 3. Zandur flooring products are not intended to be installed over existing floor coverings and are not warranted for such use. Existing flooring must be removed or (if installed on a wood subfloor) covered with 1/4" or 1/2" plywood.

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4. All Sub-floors shall be flat to within 3/16" in 10' and shall be patched or skim coated with a hard setting underlayment compound to ensure substrate is completely smooth. Only Ardex brand or equal products are approved by Zandur and must have a minimum compressive strength of 3,000 psi. Do not apply patching material over existing adhesives. Zandur is not responsible for any claims submitted on floors where patching materials have been applied over adhesive residue or over existing floor coverings regardless of manufacturer instructions. After patching or skimming is complete, floor must be sanded or scraped to remove any trowel marks or other inconsistencies which may telegraph through the finished flooring material. Follow manufacturers guidelines for product mixing and use instructions.
5. Preparation of Wood Sub-Floors
 - a. Zandur floor covering products may be installed over 3/8" or greater A/C grade plywood or underlayment board such as Tecply or Halex (Arctic or Baltic Birch).
 - b. Zandur products are not approved for installation over panel underlayments such as Masonite, luan, particle board, OSB, cementitious underlayment panel or wood underlayment with knots or coated wood.
 - c. Prepare wood sub-floor per ASTM F 710, *Standard practice for installation and preparation of panel type underlayment to receive resilient flooring*, as it relates only to approved wood underlayments.
 - d. Follow manufacturers' instructions for installation regarding fastening pattern and joint spacing. Do not install underlayment with drywall screws.
 - e. Once installed, patch subfloor with cementitious material as instructed in current manufacturers' instructions.
6. Preparation of Concrete Sub-Floors
 - a. Concrete sub-floors shall be prepared in accordance with ASTM F 710 *Standard practice for preparing concrete sub-floors to receive resilient flooring*.
 - b. Concrete sub-floors must be clean as specified. Pay specific attention to possible presence of a sealer which must be removed. It is highly recommended to shot blast or bead blast existing concrete sub-floors prior to installation to remove sealers, adhesives and/or any other surface contaminants.
 - c. Concrete sub-floors on or below grade must have a moisture retarder and all concrete subfloors, regardless of age, must be tested for the moisture vapor emission rate and relative humidity to ensure the sub-floor is suitable for floor covering installation.
 - d. Testing of concrete shall be performed **ONLY** when the building is enclosed and when the HVAC system has been in operation for at least 7 days. Furthermore, job-site temperature and humidity must be at the level expected during normal use or in the range of 65°F to 85°F and 45% to 55% relative humidity.
 - e. Moisture tests must be performed at a rate of 3 for the first 1,000 square feet and then 1 additional test per additional 1,000 square feet.
 - f. Moisture Vapor Emission Rate shall not exceed 3 lbs./1,000 square feet/24 hours as tested in accordance with ASTM F 1869 (Calcium Chloride Test).
 - g. Concrete Relative Humidity shall not exceed 75% as tested in accordance with ASTM F 2170 (Relative Humidity Probe Test).

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- h. Sub-Floor pH must be tested with wide range pH paper and verified to be no greater than 9. Test as per ASTM F-710.
 - i. Level sub-floor as specified
 - j. Allow patching materials to dry naturally without the use of direct air or temporary HVAC.
 - k. Zandur flooring may be installed over terrazzo floors, however terrazzo must be bead or shot blasted to ensure adhesion.
7. Radiant Heated Sub-Floors – Concrete and Wood
- a. Zandur flooring products labelled may be installed over radiant heated sub-floors.
 - b. Lightweight gypsum based concrete products commonly used with in-slab radiant systems and may have a low compressive strength. Concrete sub-floors must have a compressive strength of no less than 3000 PSI and must be dust free. If after cleaning, dust is present when you wipe the floor it is most likely of insufficient compressive strength and may not be suitable for flooring installation. Contact Zandur for information on how to prepare a sub-floor with this condition.
 - c. Only in-slab or below sub-floor radiant heating systems are compatible with Zandur materials. Do not install product over mat type systems commonly used with ceramic tile floors. Heat must be limited to a maximum of 85° at all times during and after installation.
 - d. Prior to sub-floor preparation, heating system must be activated to achieve a surface temperature between 65°F and 75°F for a minimum of 5 days prior to sub-floor preparation or installation of flooring.

2.3 RESILIENT TILE FLOORING INSTALLATION

- A. Comply with manufacturer's written instructions for installing resilient Solid Cork tile flooring.
- B. Install with Zandur #40 Water Based Contact Adhesive which is applied to the tile back and to the sub-floor using a 3/8" nap roller. Follow up to date instructions for proper use.
- C. Roll the flooring in both directions using a 100 pound three-section roller.

2.4 CLEANING AND PROTECTION

- A. Comply with manufacturer's written instructions for cleaning and protection of resilient products.
- B. Perform the following operations immediately after completing resilient product installation:
 - 1. Remove adhesive and other blemishes from exposed surfaces.
 - 2. Sweep and vacuum surfaces thoroughly.
 - 3. Damp-mop surfaces to remove marks and soil.
- C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.
- D. Limit traffic for 24 hours after installation.
- E. No heavy traffic, rolling loads, or furniture placement for 72 hours after installation.

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- F. Wait 72 hours after installation before performing initial cleaning.
- G. A regular maintenance program must commence after the initial cleaning.

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