**SECTION 09 06 48 - CORK FLOORING**

1. **GENERAL**
	1. SUMMARY
		1. SECTION INCLUDES:
			1. Cork floor tile / plank.
			2. Adhesives
			3. Finishes
		2. RELATED SECTIONS
			1. Section 03300 - Cast-In-Place Concrete Floor substrate requirements.
			2. Section 06200 - Rough Carpentry: Floor substrate requirements.
	2. REFERENCES
		1. American Concrete Institute (ACI):
			1. ACI 302.2R - Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials
		2. American Society for Testing and Materials (ASTM):
			1. ASTM C-423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
			2. ASTM C-518 - Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
			3. ASTM D2047 - Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring Surfaces as Measured by the James Machine.
			4. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
			5. ASTM E413 - Classification for Rating Sound Insulation.
			6. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
			7. ASTM E662 - Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
			8. ASTM E989 - Standard Classification for Determination of Impact Insulation Class (IIC).
			9. ASTM F137 - Standard Test Method for Flexibility of Resilient Flooring Materials with Cylindrical Mandrel Apparatus.
			10. ASTM F141 - Standard Terminology Relating to Resilient Floor Coverings
			11. ASTM F386 – Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces
			12. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
			13. ASTM F925 - Standard Test Method for Resistance to Chemicals of Resilient Flooring.
			14. ASTM F970 - Standard Test Method for Static Load Limit.
			15. ASTM F1482 – Standard Practice for Installation and Preparation of Panel Type Underlayments to Receive Resilient Flooring.
			16. ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride
			17. ASTM F1914 - Standard Test Methods for Short-Term Indentation and Residual Indentation of Resilient Floor Covering.
			18. ASTM F2055 – Standard Test Method for Size and Squareness of Resilient Floor Tile
			19. ASTM F2199 - Standard Test Method for Determining Dimensional Stability of Resilient Floor Tile after Exposure to Heat.
			20. ASTM F3008 – Standard Specification for Cork Floor Tile
		3. State of California (CA)
			1. CA Section 01350 – Special Environmental Requirements (Indoor Air Quality)
		4. California Department of Public Health (CDPH)
			1. CDPH Standard Method v 1.2 - Standard Method for Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers
		5. California High Performance Schools (CHPS)
			1. CHPS Section 01350 - Low-Emitting Materials Criteria for Use in Classrooms.
		6. European Committee for Standardization (CEN)
			1. European Norms (EN)
				1. EN 434 – Resilient Floor Coverings – Determination of Dimensional Stability and Curling after Exposure to Heat
		7. International Organization for Standardization (ISO)
			1. ISO 4918 – Resilient, Textile and Laminate Floor Coverings – Castor Chair Test
			2. ISO 24338 – Laminate Floor Coverings – Determination of Abrasion Resistance
		8. Living Building Challenge (LBC)
			1. LBC Chemical Red List Version 3.0.
		9. National Fire Protection Association (NFPA)
			1. NFPA 80 – Fire Safety Code.
			2. NFPA 253 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
			3. NFPA 255 - Standard Test Method for Surface Burning Characteristics of Building Materials.
			4. NFPA 286 - Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth.
		10. Resilient Floor Covering Institute (RFCI)
			1. Recommended Work Practices for Removal of Resilient Floor Coverings
	3. SUBMITTALS
		1. General: Submittals must be submitted the under provisions of Section 01300.
		2. Product Data: Manufacturer's published documents on each product to be used, including:
			1. Storage and handling requirements.
			2. Installation instructions and initial maintenance instructions per Technical Data Sheets.
			3. Maintenance and initial finish application instructions per Care & Maintenance documents.
		3. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
		4. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square or one full tile, representing actual product, color, and patterns.
	4. SUSTAINABILITY REQUIREMENTS
		1. CA Section 01350 / CHPS Section 01350
			* 1. Provide building materials that comply with CA Section 01350 and CHPS Section 01350 when tested in accordance with CDPH Standard Method v 1.2.
				2. Provide test data or third party certification that confirms compliance.
		2. LBC Chemical Red List 3.0
			* 1. Provide building materials that are Red List Free in accordance the LBC Chemical Red List 3.0.
				2. Provide full material disclosure or third party certification that confirms compliance.
	5. QUALITY ASSURANCE
		1. Cork Tile/Plank
			1. Cork tile is a natural product – as such, shade and color variations are inherent.
		2. Qualifications:
			1. Installer Qualifications: Installer must be a professional, licensed and experienced installer. Installer must have familiarity with both the type, size and format of the product.
			2. Manufacturer’s Qualifications: Manufacturer must provide remote and field technical support and service prior to, during and following installation, as necessary.
		3. Mock-Up:
			1. Provide a mock-up for evaluation of product, surface preparation techniques and installation workmanship.
			2. Do not proceed with remaining work until size, color, thickness, sheen and workmanship are approved by Architect, End-User and/or other stakeholders.
			3. Maintain mock-up area as required in accordance with Care & Maintenance documents to produce acceptable work.
	6. DELIVERY HANDLING & STORAGE
		1. Ordering: Comply with manufacturer’s ordering and lead time requirements to avoid construction delays.
		2. Storage: Store products in climate controlled space (65° F (19° C) - 85° F (30° C), 45% - 55% RH) for at least 72 hours prior to installation. Keep products in manufacturer's unopened packaging until ready for installation (except for rolled goods).
		3. Acclimation: Rolled goods must be unrolled and allowed to relax and acclimate for 24 hours prior to installation.
	7. PROJECT CONDITIONS
		* 1. Environmental Conditions: Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer in accordance with product technical data sheets. Do not install products under environmental conditions outside manufacturer's absolute limits.
		1. WARRANTY
			1. Project Warranty: Refer to Conditions of Contract for project warranty provisions.
			2. Manufacturer’s Commercial Warranty: Mediterra shall be warranted for ten years for material or manufacture defects.
2. **PRODUCTS**
	1. PRODUCT MANUFACTURERS
		1. Acceptable Manufacturer:
			1. Capri Collections

215 Bucky Drive

Lititz, PA 17543

P: 800.492.2613
E: sales@capricollections.com

Web: www.capricollections.com

* 1. SUBSTITUTIONS

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 01 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Division 01.
	1. PRODUCT DIMENSIONS

\*\* NOTE TO SPECIFIER \*\* Delete sizes not required.

* + 1. Product: Capri Mediterra Cork Tile/Plank as manufactured by Capri Collections.
			1. 12 inches by 12 inches by 3/16 inch (305 mm by 305 mm by 4.8 mm).
			2. 12 inches by 12 inches by 5/16 inch (305 mm by 305 mm by 8 mm).
			3. 12 inches by 24 inches by 3/16 inch (305 mm by 305 mm by 4.8 mm).
			4. 12 inches by 24 inches by 5/16 inch (305 mm by 305 mm by 4.8 mm).
			5. 24 inches by 24 inches by 3/16 inch (610 mm by 610 mm by 4.8 mm).
			6. 24 inches by 24 inches by 5/16 inch (610 mm by 610 mm by 8 mm).
			7. 6 inches by 24 inches by 3/16 inch (152 mm by 610 mm by 4.8 mm).
			8. 6 inches by 24 inches by 5/16 inch (152 mm by 610 mm by 8 mm).
	1. PRODUCT COLOR
		1. Homogenous Collection

\*\* NOTE TO SPECIFIER \*\* Mediterra Homogeneous - solid top to bottom. Delete colors not required.

* + - 1. Dark.
			2. Dark Tracks.
			3. Fresco.
			4. Light.
			5. Light Tracks.
			6. Mélange.
			7. Medium.
			8. Stucco.
			9. Terrain.
		1. Colours Collection

\*\* NOTE TO SPECIFIER \*\* Mediterra Colours are homogeneous construction with stained colors. Delete colors not required.

* + - 1. Acorn.
			2. Cabernet.
			3. Chestnut.
			4. Olive.
			5. Port.
			6. Rapids.
			7. Rosewood.
			8. Tea Leaves
			9. Sunset.
		1. Rigato Collection

\*\* NOTE TO SPECIFIER \*\* Mediterra Rigato are homogeneous construction. Pattern approximately 31 stripes per 12 inches (305 mm) or randomly placed 3/16 inch (4.8 mm) wide strips.

* + - 1. Jumble.
			2. Pick-Up Strips Light.
			3. Pick-Up Strips Dark.
			4. Small Strips.
		1. Veneer Collection

\*\* NOTE TO SPECIFIER \*\* Veneer cork: thin cork veneer on homogeneous cork backing. Delete color not required.

* + - 1. Blocks.
			2. Cable.
			3. Cable Dark.
			4. Mulch.
			5. Tumbled.
			6. Pathways.
	1. PHYSICAL CHARACTERISTICS
		1. ASTM F3008 – Cork Tile
			1. EN 434 – Curling: Passes, <6mm
			2. ASTM F137 – Flexibility: Passes
			3. ISO 4918 – Castor Chair Test - Passes
			4. ASTM F970 – Static Load Limit: Passes, 250 lbs.
			5. ASTM F1914 – Residual Indentation: Passes, <8%
			6. ASTM F2199 – Dimensional Stability: Passes, <0.05 in. change
			7. ISO 24338 - Passes
			8. ASTM F925 – Chemical Resistance:
				1. White vinegar (5% Acetic Acid) - Passes.
				2. Rubbing Alcohol (70% Isopropyl Alcohol) - Passes.
				3. Lye (5% Sodium Hydroxide) - Passes.
				4. Hydrochloric Acid (5% HCI) - Passes.
				5. Sulfuric Acid (5%H2SO4) - Passes.
				6. Household Ammonia (5% Ammonia) - Passes.
				7. Disinfectant Cleaner (5% Active Phenol) - Passes.
				8. Household Bleach (5.25% NaOCl) - Passes.
				9. Unleaded Gasoline - Passes.
				10. Kerosene - Passes.
				11. Olive Oil - Passes.
		2. ASTM E648 (NFPA 253) – Critical Radiant Flux: Class I, > 0.45 W/cm2
		3. ASTM E662 (NFPA 258) – Smoke Density: Passes, <450
		4. ASTM E84 (NFPA 286) – Flammability: Class C, 76 - 200
		5. ASTM D2047 – Slip Resistance: >0.7 (wet), >0.8 (dry)
		6. ASTM E492/E989 – Impact Sound Transmission – 6” Concrete, Drop Ceiling: IIC 56
		7. ASTM E90/E413 – Airborne Sound Transmission – 6” Concrete, Drop Ceiling: STC 53
	2. ACCESSORIES
		1. Matching and compatible moldings and accessories are available through Capri Collections.
	3. PRODUCT FINISH

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Only Capri Collections approved floor finishes shall be used when installing Mediterra.
			1. Site-Applied Urethane Finish: Loba 2K Supra AT Satin.
	1. PRODUCT ADHESIVE

\*\* NOTE TO SPECIFIER \*\* Adhesive is not optional.

* + 1. Only Capri Collections approved adhesives shall be used when installing Mediterra.
			1. Gold Series WC 1000 Water-Based Cork Contact Adhesive
1. **EXECUTION**

\*\* NOTE TO SPECIFIER \*\* Revise articles below to suit specific project requirements.

* 1. MANUFACTURERS INSTRUCTIONS
		1. Compliance: Review and comply with manufacturer’s technical data sheets, care & maintenance documents, warranty information, technical bulletins and written specifications.
	2. EXAMINATION
		1. Site Verification of Conditions:
			1. Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer’s technical data.
			2. Do not begin installation until all substrates have been properly tested and prepared in accordance with Capri Mediterra technical data sheets and applicable ASTM, ACI, NWFA and RFCI standards.
			3. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
	3. PREPARATION
		1. Cleaning: Clean surfaces thoroughly prior to installation.
		2. Substrate Preparation: Prepare surfaces in accordance with substrate preparation requirements published in Capri Mediterra technical data sheets.
	4. INSTALLATION
		1. Flooring Installation: Install materials in accordance with installation instructions published in Capri Mediterra technical data sheets.
		2. Traffic Limits: No traffic, cleaning, finishing or placement of furniture should occur in accordance with adhesive traffic limits published in adhesive technical data.
		3. Initial Maintenance: Once traffic limits have lapsed, perform initial maintenance in accordance with initial maintenance instructions published in Capri Mediterra technical data sheets and care & maintenance documents.
	5. FINISH APPLICATION
		1. Initial Maintenance: Ensure surfaces have had initial maintenance performed in accordance with initial maintenance instructions published in Capri Mediterra technical data sheets and care & maintenance documents.
		2. Cleaning: Clean surfaces thoroughly prior to finish application.
		3. Finish Application: Install finish in accordance with initial finish application instructions published in Capri Mediterra technical data sheets and care & maintenance documents.
	6. MAINTENANCE
		1. Daily Maintenance: Long-term care and maintenance must be performed in accordance with daily and routine maintenance instructions published in Capri Mediterra care & maintenance documents.
		2. Finish Reapplication: Site-applied finish that is improperly applied or damaged may require finish re-application in accordance with finish removal and reapplication instructions published in Capri Mediterra care & maintenance documents.
	7. PROTECTION
		1. Temporary Floor Protection: Protect installed products until completion of project in accordance with flooring or material protection requirements published in Capri Mediterra technical data sheets and care & maintenance documents.
		2. Repair: Touch-up, repair or replace damaged products prior to Substantial Completion.
		3. Permanent Floor Protection: Ensure furniture feet/bottom, glides and chair casters dimensions and materials are in accordance with floor protection requirements published in Capri Mediterra care & maintenance documents prior to Substantial Completion.

**END OF SECTION**