**SECTION 09 72 13 - CORK WALL COVERING**

1. **GENERAL**
	1. SUMMARY
		1. SECTION INCLUDES:
			1. Cork wall covering
			2. Adhesives
	2. REFERENCES
		1. 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 F137 - Standard Test Method for Flexibility of Resilient Flooring Materials with Cylindrical Mandrel Apparatus.
			7. ASTM F141 - Standard Terminology Relating to Resilient Floor Coverings
			8. ASTM F386 – Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces
			9. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
			10. ASTM F925 - Standard Test Method for Resistance to Chemicals of Resilient Flooring.
			11. ASTM F970 - Standard Test Method for Static Load Limit.
			12. ASTM F1482 – Standard Practice for Installation and Preparation of Panel Type Underlayments to Receive Resilient Flooring.
			13. ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride
			14. ASTM F1914 - Standard Test Methods for Short-Term Indentation and Residual Indentation of Resilient Floor Covering.
			15. ASTM F2055 – Standard Test Method for Size and Squareness of Resilient Floor Tile
			16. ASTM F2199 - Standard Test Method for Determining Dimensional Stability of Resilient Floor Tile after Exposure to Heat.
			17. ASTM F3008 – Standard Specification for Cork Floor Tile
		2. State of California (CA)
			1. CA Section 01350 – Special Environmental Requirements (Indoor Air Quality)
		3. 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
		4. California High Performance Schools (CHPS)
			1. CHPS Section 01350 - Low-Emitting Materials Criteria for Use in Classrooms.
		5. 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
		6. 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
		7. Living Building Challenge (LBC)
			1. LBC Chemical Red List Version 3.0.
		8. 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.
		9. 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
			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: Muro 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
		1. Product: Capri Muro Cork Wall Tile
		2. Gallery Tile Sizes (all sizes nominal):

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

* + - 1. 12 inches by 24 inches by 0.11 inches (300 mm x 600 mm x 3 mm)
		1. Studio Tile Sizes (all sizes nominal):

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

* + - 1. 12 inches by 24 inches by 0.15 inches (300 mm x 600 mm x 4 mm)
		1. Fresh Tile Sizes (all sizes are nominal)

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

* + - 1. 12 inches by 12 inches by 0.11 inches (300 mm x 300 mm x 3mm)
	1. PRODUCT COLOR
		1. Gallery

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

* + - 1. Abstract White MWT201
			2. Montage MWT202
			3. Mosaic MWT203
			4. Etching MWT204
			5. Drawing MWT205
			6. Collage MWT207
			7. Sculpture MWT207
			8. Abstract Black MWT208
		1. Studio

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

* + - 1. Art MWT101
			2. Music MWT102
			3. Dance MWT103
			4. Design MWT104
			5. Sound MWT105
			6. Photography MWT106
			7. Film MWT017
		1. Fresh

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

* + - 1. Air MWT002
			2. Atmosphere MWT004
			3. Pressure MWT003
			4. Sky MWT006
			5. Sphere MWT005
			6. Stratosphere MWT001

\*Patterns Stratosphere, Air, Pressure, and Atmosphere contain a single design with no variations from tiles to tile. Sphere and Sky patterns each have a number of variations.

* 1. PHYSICAL CHARACTERISTICS
		+ 1. EN 23999 – Curling: Passes, <6mm
			2. EN – Dimensional Variation: <0.04 in. change
			3. ASTM F925 – Chemical Resistance:
				1. White vinegar (5% Acetic Acid) - Passes.
				2. Rubbing Alcohol (70% Isopropyl Alcohol) - Passes.
				3. Hydrochloric Acid (5% HCI) - Passes.
				4. Household Ammonia (5% Ammonia) - Passes.
				5. Disinfectant Cleaner (5% Active Phenol) - Passes.
				6. Household Bleach (5.25% NaOCl) - Passes.
				7. Unleaded Gasoline - Passes.
				8. Kerosene - Passes.
				9. Olive Oil - Passes.
				10. Coffee – Passes.
		1. ASTM E84 (NFPA 286) – Flammability – Gallery/Fresh: Class B, 26 - 75
		2. ASTM E84 (NFPA 286) – Flammability - Studio: Class C, 76 - 200
		3. EN ISO 354 – Noise Reduction: Gallery/Fresh– aw 0.05 / Studio – aw 0.10
	2. PRODUCT ADHESIVE

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

* + 1. Only Capri Collections approved adhesives shall be used when installing Muro.
			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 Muro technical data sheets and applicable ASTM 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 Muro technical data sheets.
	4. INSTALLATION
		1. Installation: Install materials in accordance with installation instructions published in Capri Muro 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 Muro technical data sheets and care & maintenance documents.
	5. MAINTENANCE
		1. Daily Maintenance: Long-term care and maintenance must be performed in accordance with daily and routine maintenance instructions published in Capri Muro care & maintenance documents.
	6. PROTECTION
		1. Temporary Protection: Protect installed products until completion of project in accordance with material protection requirements published in Capri Muro technical data sheets and care & maintenance documents.
		2. Repair: Touch-up, repair or replace damaged products prior to Substantial Completion.

**END OF SECTION**