SECTION 096519

RESILIENT QUARTZ FLOORING

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**NOTE TO SPECIFIER**

*Use this Specification Section for Mail Processing Facilities.*

***This is a Type 2 Specification with primarily editable text; therefore, most of the text can be edited, but there is some required text which is noted within the Section with a “Note to Specifier.” Do not revise these paragraphs without an approved Deviation from USPS Headquarters, Facilities Program Management, through the USPS Project Manager.***

*For Design/Build projects, do not delete the Notes to Specifier in this Section so that they may be available to Design/Build entity when preparing the Construction Documents.*

*For the Design/Build entity, this specification is intended as a guide for the Architect/Engineer preparing the Construction Documents.*

*The MPF specifications may also be used for Design/Bid/Build projects. In either case, it is the responsibility of the design professional to edit the Specifications Sections as appropriate for the project.*

*Text shown in brackets must be modified as needed for project specific requirements.* *See the “Using the USPS Guide Specifications” document in Folder C for more information.*

*The last date that USPS revised this standard specification section occurs in two places, at the end of this section and in the Table of Contents. If the date in this section matches the date in the Table of Contents, then you are using the latest version. Do not delete or revise the “last revised” date at the end of the section during the development of the Project Manual.*

*The footer in this section should be edited to replace the text, “USPS MPF SPECIFICATION” with the project name, and the blank date in the center should be replaced with the submission date, for interim design reviews, or the issue date of the completed Project Manual.*

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1. GENERAL
	1. SUMMARY
		1. Section Includes:
			1. Resilient quartz tile flooring.
			2. Resilient base.
		2. Related Documents: The Contract Documents, as defined in Section 011000 - Summary of Work, apply to the Work of this Section. Additional requirements and information necessary to complete the Work of this Section may be found in other documents.
		3. Related Sections: Related work specified elsewhere includes but may not be limited to
			1. Section 017704 - Closeout Procedures and Training.
			2. Section 033000 - Cast-In-Place Concrete.
			3. Section 123504 - Postal Casework.
	2. REFERENCES
		1. American Society for Testing and Materials (ASTM):
			1. ASTM D2047 Standard Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as Measured by the James Machine.
			2. ASTM E648 Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
			3. ASTM E662 Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
			4. ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
			5. ASTM F970 Standard Test Method for Static Load Limit.
			6. ASTM F1482 Standard Guide to Wood Underlayment Products Available for Use Under Resilient Flooring.
			7. ASTM F1066 Standard Specification for Vinyl Composition Floor Tile.
			8. ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.
		2. Resilient Floor Covering Institute (RFCI)
			1. RFCI
		3. American Concrete Institute
			1. ACI 302.1R
			2. ACI 302.2R
	3. SUBMITTALS
		1. Section 013300 - Submittal Procedures: Procedures for submittals.
		2. Product Data: Data describing physical and performance characteristics; including sizes, patterns and colors including manufacturer's product sheet.
		3. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, accessories, finish colors, patterns, and textures.
		4. Samples: Submit selection and verification samples for finishes, colors, and textures.
		5. Quality Assurance Submittals: Submit the following:
			1. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties.
			2. Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria, and physical requirements.
			3. Manufacturer's Instructions: Manufacturer's installation instructions.
			4. Manufacturer’s Field Reports: Manufacturer’s Field Reports Specified herein.
		6. Closeout Submittals: Submit the following:
			1. Operation and Maintenance Data: Operation and maintenance data for installed products in accordance with Division 1 Closeout Submittals (Maintenance Data and Operation Data) Section. Include methods for maintaining installed products, and precautions against cleaning materials and methods detrimental to finishes and performance.
			2. Warranty: Warranty documents specified herein.
	4. QUALITY ASSURANCE
		1. Installer Qualifications: Company specializing in performing work of this Section with minimum 5 years documented experience.
			1. Training: Installer who has attended the manufacturer’s installation training clinic.
			2. Certificate: When requested, submit certificate indicating qualification.
		2. Regulatory Requirements:
			1. Critical Radiant Flux in Accordance with ASTM E 648: More than 0.45 Watts per square centimeter.
			2. Specific Optical Smoke Density in Accordance with ASTM E 662: Less than 450.
		3. Pre-installation Meeting: If required by USPS Project Manager, conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer’s installation instructions and manufacturer’s warranty requirements.
	5. DELIVERY, STORAGE, AND HANDLING
		1. Section 016000 - Product Requirements: Transport, Handle, Store, and Protect Products.
		2. Ordering: Comply with manufacturer’s ordering instructions and lead time requirements to avoid construction delays.
		3. Deliver tiles and installation accessories to site in original manufacturer's unopened cartons and containers each bearing names of product and manufacturer, project identification, and shipping and handling instructions.
		4. Storage and Protection: Store materials protected from exposure to harmful weather conditions and at temperature and humidity conditions recommended by manufacturer.
	6. PROJECT CONDITIONS
		1. Jobsite Requirements:
			1. Environmental Requirements/Conditions: In accordance with manufacturer's recommendations, areas where flooring is to be stored and areas to receive flooring shall be clean, fully enclosed, weather tight with the permanent HVAC set at a uniform temperature of at least 68 degrees F. The flooring material should be conditioned in the same manner. Maximum temperature should not exceed 80 degrees.
			2. Temperature Requirements: Maintain air temperature in spaces where products will be installed for time period before, during, and after installation as recommended by manufacturer.
				1. Temperature Conditions: Between 68 degrees F (20 degrees C) and 80 degrees (26 degrees C) for 72 hours prior to, during and after installation.
			3. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.
	7. SEQUENCING AND SCHEDULING
		1. Finishing Operations: Install tile flooring after finishing operations, including painting and ceiling operations, have been completed.
		2. Concrete Curing: Do not install tile flooring over concrete substrates until substrates have cured and are dry to bond with adhesive as determined by resilient flooring manufacturer's recommended bond, moisture test, and pH test.
	8. WARRANTY
		1. Manufacturer's Warranty: Submit, for USPS Project Manager's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights USPS may have under Contract Documents.
			1. Warranty Period: Minimum fifteen (15) year limited warranty commencing on Date of Substantial Completion.
	9. MAINTENANCE
		1. Section 017704 - Closeout Procedures and Training: Procedures for closeout submittals.
		2. Maintenance stock:
			1. Provide 1 box of extra floor tiles for each tile type, panel, and color.
			2. Deliver to USPS maintenance stock from same production run as products installed. Package products with protective covering and identify with descriptive labels.
2. PRODUCTS

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**NOTE TO SPECIFIER**

\*\*Required: Except where noted below, do not revise the manufacturers and products without an approved Deviation from USPS Headquarters, Facilities Program Management, through the USPS Project Manager.

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* 1. MANUFACTURERS
		1. Tile: Subject to compliance with project requirements, manufacturers offering specified items which may be incorporated in the Work include the following:
			1. For general use, as indicated in the Room Finish Schedule:
			2. Altro USA, Inc., Wilmington, MA, 800.583.4244.
			3. Rikett America, City of Industry, CA, 855.745.3887.
			4. UPOFloor Americas, Inc., Altamonte Springs, FL., 937.829.8316

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**NOTE TO SPECIFIER**

The use of NAFES in high traffic areas or motorized traffic aisles is not recommended.

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* + - 1. For use only in conjunction with the NAFES asbestos containment system
1. Procedo Flooring, Tuscumbia, AL, 866.955.8291.
	* 1. Wall Base: Subject to compliance with project requirements, manufacturers offering specified items which may be incorporated in the Work include the following:
			1. Burke Mercer Flooring Products, San Jose, CA., 800.669.7010.
			2. Johnsonite; A Tarkett Company, Solon, OH., 800.899.8916.
			3. Roppe Corporation, USA, Fostoria, OH., 800.537.9527.

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**NOTE TO SPECIFIER**

For administrative areas not related to Plant management offices, such as those at USPS Headquarters, District Offices, Area Offices, USPIS Offices, OIG Offices, Headquarters Field Offices, etc., other colors can be selected from the manufacturer’s standard colors, at the discretion of the USPS Project Manager.

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* 1. MATERIALS
		1. Floor Tile
			1. Altro Quartz Tile
				1. Size: 24 inch x 24 inch (61 cm x 61 cm)
				2. Thickness: 0.08 inch (2 mm)
				3. Factory applied PUR coating
				4. Color:

RFT-1: #9306 - Charcoal CD

RFT-2: #9302 - Rock Salt CD

* + - 1. Rickett Quartz Tile
				1. Size: 24 inch x 24 inch (61 cm x 61 cm)
				2. Thickness: 0.08 inch (2 mm)
				3. Factory applied PUR coating
				4. Color:

RFT-1: #8806 - Fly Ash

RFT-2: #8804 - Tribeca

* + - 1. UPO Floor Quartz Mosaic Collection
				1. Size: 24 inch x 24 inch (61 cm x 61 cm)
				2. Thickness: 0.08 inch (2 mm)
				3. Factory applied PUR coating
				4. Color:

RFT-1: #618315 – Lava Grey

RFT-2: #618302 – Conglomerate Grey

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**NOTE TO SPECIFIER**

Do not include Procedo Flooring in specification if product is not in conjunction with the NAFES Asbestos Containment System. Also remove from MANUFACTURERS list above.

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* + - 1. Procedo Flooring Versa Quartz Tile
				1. Size: 24 inch x 24 inch (61 cm x 61 cm)
				2. Thickness: 0.098 inch (2.5 mm)
				3. Color:

RFT-1: Norfolk - QNOR

RFT-2: Reno - QREN

* + 1. Wall Base:
			1. Material: Thermoplastic Vinyl
			2. Height: 4 inches
			3. Thickness: 1/8 inch.
			4. Coved.
			5. Length: Roll.
			6. Color: Black
	1. ACCESSORIES
		1. Underlayment and Patching Compound: Refer to Section 033000 Cast-In-Place Concrete for Portland cement based underlayments and patching compounds; white gypsum materials are not acceptable.
		2. Proprietary Accessory Products: Provide flooring manufacturer’s accessories for use with Quartz Tile: Acrylic Adhesive: one part, water based, zero voc.
		3. Base Accessories: Premolded end stops and internal, and external corners of same material, size, and color as base.
		4. Expansion Joint Covers: Refer to other specification section for expansion joint covers to be used with resilient flooring.
1. EXECUTION
	1. MANUFACTURER’S INSTRUCTIONS
		1. Compliance: Comply with manufacturer’s product data, including product technical bulletins, product catalog, installation instructions and product label instructions for installation.
	2. EXAMINATION
		1. Section 017300 - Execution: Verification of existing conditions before starting work.
		2. Verification of Conditions: Verify that field measurements, surfaces, substrates and conditions are as required, and ready to receive Work and are acceptable for product installation in accordance with manufacturer’s instructions.
		3. Report in writing to Contracting Officer prevailing conditions that will adversely affect satisfactory execution of the Work of this Section. Do not proceed with Work until unsatisfactory conditions have been corrected.
		4. By beginning Work, Contractor accepts conditions and assumes responsibility for correcting unsuitable conditions encountered at no additional cost to the United States Postal Service.
		5. Material Inspection: In accordance with manufacturer's installation requirements, visually inspect materials prior to installation. Material with visual defects shall not be installed and shall not be considered as a legitimate claim.
	3. PREPARATION
		1. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.
		2. Surface Preparation:
			1. General: Prepare floor substrate in accordance with manufacturer's instructions.
			2. Floor Substrate: Prepare floor substrate to be smooth, rigid, flat, level, permanently dry, clean and free of foreign materials such as dust, paint, grease, oils, solvent, curing and hardening compounds, sealers, asphalt and old adhesive residue.
			3. Concrete slabs must conform to ACI 302.1R and ACI 302.2R.
			4. A vapor retarder of a minimum of 0.050 Perms or less must be placed directly under any on or below grade concrete slabs, consult ACI 302.2R and ASTM E-1745. This barrier must be fully intact and retain its integrity. The water to cement ratio of the concrete should not exceed 0.45.
			5. Concrete Floor Substrate: Concrete floor substrate shall have a minimum compressive strength of 3500 psi. Refer to Division 3 Concrete sections for patching and repairing crack materials, and leveling compounds with Portland cement based compounds. Do not use or install flooring over gypsum based leveling or patching materials
			6. Reference Standard: Comply with ASTM F 710 Practice for Preparing Concrete Floors and Other Monolithic Floors to Receive Resilient Flooring.
		3. Concrete Moisture Test:
			1. Perform moisture tests on concrete floors regardless of the age or grade level. Verify concrete substrate is dry in accordance with ASTM F 2170, in strict accordance with instructions.
			2. ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Sub floor Using Anhydrous Calcium Chloride: The moisture emission from the concrete shall not exceed 5.0 lbs. per 1000 square-feet in 24 hours (verify using the calcium chloride test as per ASTM F 1869). A diagram of the area showing the location and results of each test shall be submitted to the Contracting Officer. If the test results exceed the limitations, the installation shall not proceed until the problem has been corrected.
			3. ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes. The relative humidity measured from the center of the concrete slab should not exceed 75%. If the test results exceed the limitations, the installation must not proceed until the problem has been corrected.
			4. The test area shall be conditioned with the permanent HVAC system set at a uniform temperature of at least 68 degrees F (20 degrees C) for 72 hrs prior to and during testing.
		4. Concrete pH Test: Perform pH tests on concrete floors regardless of the age or grade level. If the pH is greater than 9.9, it must be neutralized prior to beginning the installation.
		5. Do not proceed with work until results of moisture condition and/or pH tests are acceptable.
		6. Meet and prepare concrete per ASTM F710 Standard for Concrete or other monolithic floors / ASTM F1482 Standard for Wood Subfloors.
			1. Floor surfaces shall be clear, dry, and smooth, free of dust, solvent, paint, wax, oil, grease, or other materials that might prevent a strong bond.
			2. Use a probe test method to test for moisture and pH (alkalinity) per ASTM 2170. Do not proceed with installation until moisture and pH levels are within acceptable ranges stated in the flooring manufacturers literature.
			3. Floor surface flatness shall not vary more than +/- 3/16 inches across 10 linear feet.
		7. Apply subfloor filler to low spots and cracks to achieve flatness to a tolerance of 3/16” over 10 feet (and/or per architect’s specifications for slope and pitch), allow to cure. Never install flooring over gypsum-based toppings, underlayments, leveling or patching compounds, use only moisture tolerant patches in potential wet areas.
		8. Wood subfloors shall not exceed 10% moisture content when measured with a Delmhorst Wood Moisture Tester.
		9. Prohibit traffic until filler is cured.
		10. Vacuum clean substrate.
	4. INSTALLATION - TILE FLOORING
		1. Install resilient tile flooring in accordance with manufacturer's current published installation guide.
		2. Prior to installation, confirm material installation pattern and direction per design specifications or work order. Inspect all tiles before installing or during installation to verify that there are no visible defects, damages, or excessive shading variations.
		3. Do not blend materials from different cartons and avoid mixing cartons and pallets whenever possible. Some flooring products, colors and textures have latent and acceptable color and shade variations. If there are concerns regarding shade or color variations, do not install material and consult a sales representative and manufacturer’s technical staff.
		4. A tile cutter shall be used for all standard cuts. For intricate or specialty cuts, use a tungsten-carbide blade and heat the back of the tile using a heat gun or equivalent to ease cutting. Pre-cut borders and other specialty pieces to fit snugly against or around walls, thresholds, transition strips, fixtures and other protrusions or accessories.
		5. Lay flooring from center marks established parallel to building walls.
			1. Allow minimum 1/2 full size tile width at room or area perimeter.
			2. Adjust tile layout as required to avoid use of units less than 1/2 tile.
		6. Terminate flooring at centerline of door openings where adjacent floor finish is dissimilar. Where flooring continues through door opening, continue established pattern with no interruption.
		7. Install edge strips at unprotected or exposed edges where flooring terminates.
		8. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.
		9. Extend flooring into toe spaces, door reveals, closets, and similar openings.
		10. Do not install resilient flooring over expansion joints. Use expansion joint covers manufactured for use with resilient flooring. Refer to other specification sections for expansion joint covers.
		11. Adhere resilient flooring to flooring substrate without producing open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, or other surface imperfections in completed flooring installation.
			1. Ensure adhesive is approved for use with flooring materials and that proper trowel type and size is used.
			2. Use adhesive applied to substrate in compliance with flooring manufacturer’s recommendations, including those for trowel notching, adhesive mixing, and adhesive open and working times.
			3. Pay close attention to working time to avoid adhesion issues. This may require installing material in smaller sections. Replace trowels at recommended intervals to maintain proper trowel ridge and spread rate.
		12. Roll material with a 3 section, 100 lb. roller within 30 minutes of installation, crossing in a perpendicular direction after initial roll. Use a hand roller in areas that cannot be reached with larger roller.
	5. INSTALLATION - BASE
		1. Install wall base in accordance with manufacturer's published instructions.
		2. Fit joints tight and vertical. Maintain minimum measurement of 18 inches between joints.
		3. Miter internal corners. At external corners, use premolded units. At exposed ends, use premolded units.
		4. Install wall base on solid backing. Bond tight to wall and floor surfaces.
		5. Apply the base to the cabinet toe kicks. If necessary, use a hot air gun to make the base pliable enough to turn the corners of the toe kick. Minimize or eliminate base seams on the toe kick. If the cabinet butts into a wall, start the base where the wall and cabinet meet and continue around the exposed area of the toe kick.

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**NOTE TO SPECIFIER**

\*\*Required: Do not revise SITE ENVIRONMENTAL PROCEDURES without an approved Deviation from USPS Headquarters, Facilities Program Management, through the USPS Project Manager.

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* 1. SITE ENVIRONMENTAL PROCEDURES
		1. Indoor Air Quality:
			1. Temporary ventilation: As specified in Section 013543 - Environmental Procedures.
				1. Ventilate products prior to installation. Remove from packaging and ventilate in a secure, dry, well-ventilated space free from strong contaminant sources and residues for a minimum of 72 hours. Do not ventilate within limits of Work unless otherwise approved by USPS Contracting Officer.
	2. FIELD QUALITY CONTROL
		1. Section 014000 - Quality Requirements: Field inspection.
			1. Manufacturer's Field Services: Upon USPS Project Manager's request and with at least 2-3 week notice, provide manufacturer's field service consisting of product use recommendations and periodic site visit for inspection of product installation in accordance with manufacturer's instructions.
		2. Inspect resilient flooring and base installation, pattern, layout, and attachment to substrate.
	3. CLEANING
		1. Section 017300 - Execution: Cleaning installed Work.
		2. Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to USPS Project Manager's acceptance. Remove construction debris from project site and legally dispose of debris.
			1. Remove visible adhesive and other surface blemishes using cleaning methods recommended by tile floor manufacturer.
			2. Sweep and vacuum floor after installation.
			3. Do not wash floor until after time period recommended by tile flooring manufacturer.
			4. Damp mop tile flooring to remove black marks and soil.

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***NOTE TO SPECIFIER***

*Article FINISH APPLICATION applies to Procedo Flooring only. Remove from specification if Procedo Flooring not specified.*

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* 1. FINISH APPLICATION
		1. Conduct initial maintenance and apply floor finish materials in accordance with manufacturer’s instructions.
		2. Ensure initial maintenance has been conducted prior to applying floor finish.
		3. Apply two coats of manufacturers floor finish allowing first coat to dry prior to applying second coat. Allow final coat to cure 12 hours before allowing foot traffic.
	2. PROTECTION
		1. Protection: Protect installed product and finish surfaces from damage during construction. Remove and legally dispose of protective covering at time of Substantial Completion.
			1. Protect the newly installed flooring from foot traffic for 24 hours and heavy rolling traffic for 72 hours.
			2. Protect installed product and finish surfaces from damage during construction.
		2. Cover and protect finished installation from damage that may be caused by other trades using a plywood or non-staining temporary floor protection system, such as textured plastic sheeting.

Special Note: Do not use tapes on the surface of flooring as the adhesives in some tapes may cause permanent staining.

END OF SECTION

USPS MPF Specification Last Revised: 10/1/2022