



ISSUE DATE:
PROJECT NAME – PROJECT NUMBER

SECTION 096618
RESILIENT QUARTZ TILE FLOORING

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Resilient Quartz Tile Flooring

Note to Architect: This Section is a proprietary specification based on products distributed by:

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Phone: 855-745-3887

PART 1 GENERAL

Section Includes:

- A. Work of this section consists of Rikett tile and recommendations including, but not limited to: adhesives; trowels; cleaning Products and finish systems.

1.1 References

- A. ASTM F 1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride
- B. ASTM F2170 – Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs using insitu probes.
- C. ASTM F 710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
- D. ASTM E 648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
- E. ASTM E 662 - Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
- F. ASTM F 970 - Standard Test Method for Static Load Limit.
- G. ASTM F 1700 - Standard Specification for Solid Vinyl Floor Tile. Resilient Floor Covering Institute (RFCI) - Recommended Work Practices for Removal of Resilient Floor Coverings

1.2 Submittals

- A. Submit product data in accordance with DIVISION 01, including manufacturer’s installation and maintenance instructions.
- B. Submit shop drawings per DIVISION 01, including keyed location plans, plans indicating tile type, layout, pattern direction, edge transitions, columns, doorways, enclosing partitions, built-in furniture, cabinets, cutouts, expansion and control joints and attachment requirements.
- C. Submit representative samples per DIVISION 01, including representative color samples of Rikett America for color(s) – 2 full size products for final selection.
- D. Installer Certification – Submit a list of at least three vinyl tile flooring installations completed successfully within the past year requiring the same general degree of installation expertise.
- E. Shop Drawings: Show floor pattern layout.
- F. Submit per DIVISION 01: Compatibility Certificates, test and evaluation reports and qualification statements.



G. Sustainable Design (USGBC LEED®) submittals:

- a. LEED v4 Credit EQ, Indoor Environmental Quality. Submit completed LEED Submittal Templates and required paperwork as follows:

- i. EQc 4.1 – Low Emitting materials, adhesives & sealants, VOC certification meeting South Coast Air Quality Management District (SCAQMD) Rule 1168 and Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 51, requirements.
- ii. EQc 4.3 – Low Emitting Materials, Carpet and Resilient Flooring Systems. – Submit manufacturers product data for systems that include printed statement of 3rd party lab VOC certification using the test protocol according to California Department of Public Health Standard Method V1.1

H. Healthy Design Submittal: Consumer Products Safety Commission Test for Phthalates

- a. Submit documentations showing The submitted material was tested via CPSC-C1001-09.3 in order to determine the level of phthalate compounds present in the material is less than 0.1%.

1.7 Quality Assurance

- A. Qualifications: Installer shall be experienced in the vinyl tile flooring industry and shall have a minimum of five (5) years experiencing in the installation of similar products.

1.7 Storage, Delivery & Handling

- A. Storage, Delivery & handling per manufacturer’s guidelines, industry guidelines, and DIVISION 01 requirements.

1.7 Warranty

- A. Manufacturer Warranty:
- i) Manufacturer offers a One (1) year warranty on product defects, from the date of purchase.
 - ii) Manufacturer offers a Twenty (20) year limited warranty stating installed quartz flooring tiles are guaranteed to be free from wear through due to normal use in light industrial and commercial applications. Please contact Rikett America for a complete copy of the warranty.

1.7 Environmental Requirement

- A. Provide permanent HVAC operation (1-week minimum) and permanent lighting prior to installation.
- B. Maintain room temperature of 65°-80° F or the conditions expected during normal occupancy. Please note: The minimum temperature needs to be 55°F.
- Do not install flooring until all other significant construction work is complete. Moisture producing activities, such as drywall, concrete, masonry, painting and grouting must be complete and cured.

PART 2 PRODUCTS

2.1 Design Specification:

- A. Product specified is “Rikett Quartz Tile” as distributed by Rikett America. Items specified are to establish a measure of quality for design, function, materials & appearance. Products recommended/specified by Rikett America include adhesive, moisture retarder, transitions, moldings, and maintenance materials, however, substitute manufacturers of equivalent products can be considered. The Architect will be the sole judge of the basis of what is considered equivalent.

2.2 Construction:

- A. Composition: Minimum 70 percent mined quartz suspended in a vinyl matrix
- B. Surface: Type A, smooth



- C. Thickness: 0.100 inch (2.5 mm)
- D. Edge: Square
- E. Color: As selected by Architect from standard color line

Please note: Custom color considerations by manufacturer's approval only

2.3 Product Options: (Note: Select one of the following options, deleting the one(s) not chosen).

A. Color Options:

a. Rikett **Classic** (directional marble pattern)

Color/SKU: [Ivory/0821] [Stone/0822] [Chenin/0823] [Misto/0824] [Caramel/0826] [Aspen/0802] [Silver Gray/0803] [Chelsea Gray/0804] [Galaxy Black/0807] [] [Carolina Blue/0812] [Mystic Blue/0832] [Royal Blue/0814] [Frost White/0801] [Buckeye Red/0308] [Bright Yellow/0690] [Honey Mustard/0608] [Seminole Red/0144] [Tuscan Red/0631] [Royal Purple/0920] [Avocado/0841] [Sage/0760] [Forest Green/0712].

b. Rikett **Medley** (directional color chip pattern)

Standard Color SKUs:

[Sand Dollars/8821] [Stonescape/8822] [Pinot Gris/8823] [Cool Beige/8824] [Misto Mix/8825] [Warm Bisque/8872] [Desert Trail/8826] [White Pepper/8800] [Frost Mix/8801] [Alto/8802] [Silver Cloud/8803] [Tribeca/8804] [Monterey/8805] [Fly Ash/8806] [Phantom Black/8807] [Ghost Galaxy/8808] [Morning Mist/8831] [Cerulean/8832] [Periwinkle Sprinkle/8833] [Persian Indigo/8834] [Purple Rain/8835] [Russet/8852] [Lilac Delight/8861] [Lavender Breeze/8862] [Crimson Tide/8853] [Guacamole/8841] [Kiwi/8842] [Sweet Relish/8843]

c. Rikett **CAMO** (directional color chip pattern)

Standard Color SKUs:

[Winter/8902] [Desert Sand/8922] [Beach/8923] [Urban Gray/8904] [Smoke/8906] [Bradley Blue/8933] [Jungle/8943].

d. Rikett **RAIN** (directional color chip pattern)

Standard Color SKUs:

[Silver Spirit/8702] [Mist/8722] [Shotgun Spray/8704] [Denim Drizzle/8733]

B. Size (Classic, Medley, CAMO and RAIN)

a. Standard Size and Thickness – US market:

- A. 2.0mm x 24in. x 24in.

b. Special Order Thicknesses:

- A. 1.5mm
- B. 2.5mm
- C. 3.0mm
- D. 3.2mm

c. Special Order Sizes:

- A. 300mm x 300mm
- B. 600mm x 600mm
- C. 300mm x 600mm

2.4 Construction:

- A. Composition: Minimum 70 percent mined quartz suspended in a vinyl matrix
- B. Surface: Type A, smooth
- C. Thickness: 0.100 inch (2.5 mm)
- D. Edge: Square



- E. Color: As selected by Architect from standard color line
- F. Please note: Custom color considerations by manufacturer's approval only

2.5 Floor Finish Systems:

- A. Standard Rikett Quartz Tile with Rikettseal™ PUR does not require floor finish. Follow manufacturer's written recommendations for regular maintenance.

2.6 Accessories:

(Note: Select one of the following methods, deleting the one(s) not chosen)

- A. Concrete slab leveling and patching compound: Latex modified Portland cement-based patching compound; Ardex CP, or Architect chosen acceptable equivalent.
- B. Self-leveling underlayment: Pourable latex-modified, Portland cement-based formulation; Ardex K-15; Ardex LU 100; or Architect chosen acceptable equivalent.
- C. Expansion Joints: Refer to Division 07.
- D. Adhesive – Pressure Sensitive: Solvent free, low odor, acrylic based water-resistant type by recommendation in Rikett America installation guidelines to suit floor tile product and substrate conditions.

PART 3 EXECUTION

3.1 Examination

- A. Jobsite Conditions & Measurements: Visit jobsite to verify installation conditions and floor measurements.
- B. Concrete Substrate: Verify the substrate is free of dust, solvent, paint, wax, oil, grease, residual adhesive, adhesive removers, curing, sealing, hardening, or parting compounds or any other substance that will interfere with the adhesion of the new Rikett product. Verify the substrate is flat within 3/16 inch in 10 feet and within the equivalent of 1/32 inch in 12 feet.
- C. Concrete surfaces: Verify the concrete is visually sound and dry. To determine if a concrete slab is dry, use a Calcium Chloride Test or Relative Humidity test. Unless specified otherwise by the approved adhesive manufacturer, moisture limits are:
 - i) RH Tests should be less than 75% RH (relative humidity) as tested by ASTM F 2170.
 - ii) Calcium Chloride tests should be less than 5 lbs. /1000 sf /24 hours as tested by ASTM F 1869.
- D. Wood Subfloors: Must be dry, clean, structurally sound, and flat to within 1/8" in 10 ft. (3mm per 3m), well screwed and glued, free of voids and with joints that do not exceed 1/16" (1,6mm). Ensure that all nail heads are set flush with or below surface. Must be sanded smooth to remove varnish, high edges, chips, or other contaminants. Particleboard/ flakeboard/chipboard/OSB/luan are not approved substrates and should not be used. Use thick 5/8" (16mm) or 3/4" (19mm) APA-CDX grade underlayment plywood or equivalent. Allow 1/32"-1/16" (0.8-1.6mm) expansion space between sheets with staggered joints. Leave 3/4" (19mm) minimum expansion space at all vertical obstructions.
- E. Expansion joints, construction seams, and other irregularities are to be filled flat and smooth only with underlayments approved by Rikett. Do not skim coat concrete subfloors.
- F. Verify that substrate is flat to within 1/8" in 10' (3mm per 3m).
- G. Rikett quartz tile can be installed on, above, or below grade.
- H. Commencement of installation means substrate has been accepted as suitable.



3.2 Preparation

- A. If necessary mechanically abrade all substrates.
- B. Sweep and vacuum substrate, and ensure that surface is free of oil, grease, wax, dust, or any other foreign substances.
- C. Use latex Portland cement filler to patch cracks, small holes, and for leveling of small areas. DO NOT skim coat large areas with latex patching compound. Sand patched areas smooth after material is cured. Use only quality materials and products, which do not contain gypsum.
- D. If approved self-leveling underlayments are used, they must dry sufficiently (run moisture test) and be sanded smooth before installing floor. Rikett is not responsible for strength, adhesion, or general performance of underlayments as proper compounding and preparation of subsurface is the responsibility of the installer. Suggested products include: Ardex K-15 or Mapei PRP110.
- E. Structural Lightweight Concrete must have a compressive strength greater than 2000 P.S.I..

3.3 INSTALLATION

- A. Follow the latest version of the Rikett Quartz Tile Installation Guide supplied at www.rikett.net.
- B. To reduce telegraphing of minor subfloor irregularities fill, patch and sand as necessary.
- C. Apply adhesive per manufacturer's instructions supplied at www.Rikett.net.
- D. Following installation of tile (typically within an hour after installing) roll entire floor area twice in two perpendicular directions with minimum 100-pound roller to ensure proper bonding.

3.4 PROTECTION

- A. The flooring installer should protect the finished floor from abuse by other trades and traffic by covering it completely with heavy commercial grade Kraft paper. Light foot traffic can be permitted 12 hours after installation. Keep all heavy traffic, equipment and rolling loads off of the floor for 48 hours. At all times, luan boards, plywood or equivalent should be used as required to protect the new floor from all heavy traffic, equipment and rolling loads.

3.5 CLEANING

- A. Following installation flooring should be cleaned with a neutral cleaner. (See manufacturer's maintenance instructions for complete details and recommended products.)

3.6 WARRANTY

- A. The manufacturer will warrant the product for product defects for a period of one year from the date of purchase from the manufacturer.
- B. The manufacturer will warrant the wear surface of Rikett Quartz Tile for a specified period of twenty (20) years, provided the product is installed and maintained in accordance with recommended procedures.
- C. See the Rikett warranty for complete details.