

Knight Quartz Flooring Your Smart Choice® Tile

KQF™ Specification

CSI Specification

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MANUFACTURER

KQF™ quartz

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1.01 SECTION INCLUDES

A. Knight Quartz Flooring.

1.02 RELATED SECTIONS

A. Section: 03100 - Concrete Formwork - Concrete Substrate Finish

B. Section: 03300 - Cast-in-place Concrete - Concrete Substrate Finish

C. Section: 06001 - Rough Carpentry

1.03 REFERENCES

A. ASTM E648 - Test Method for Critical Radiant Flux (Radiant Panel) of Floor Covering Systems using a Radiant Heat Energy Source.

B. ASTM E662 - NBS Smoke Chamber Test Method.

C. ASTM – ADA Compliance as to Slip Resistance.

1.04 SUBMITTALS

A. Submit product data in accordance with Section [01300] [01340], including manufacturers installation instructions.

B. Submit two samples of KQF™ quartz flooring in the final color, thickness and pattern/size as selected by the owner or their representative.

C. Installer Certification: Submit a list of at least three installations successfully completed within the past year having the same general degree of installation difficulty.

1.05 QUALITY ASSURANCE

A. Manufacturer: KQF™

B. Installer: Shall be experienced in the resilient tile flooring industry and shall have a minimum of five (5) years experience in the installation of similar products.

1.06 OPERATION AND MAINTENANCE DATA

A. Submit three (3) copies of manufacturer's floor care instructions in accordance with Section [01700] [01730].

1.07 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to job site 48 hours prior to installation and store in accordance with Section [01600] [01610] and [01620].

B. Cartons of flooring should be stored in dry, well-ventilated storage areas or warehouses. Never store cartons of flooring outdoors. The storage area environment should be kept at 25-50% relative humidity and 65-85°F (18-29°C). Do not store cartons of flooring directly on warehouse floors.

1.08 ENVIRONMENTAL REQUIREMENTS

- A. Maintain room temperature between 65°F (18°C) minimum and 85°F (29°C) and relative humidity between 25% minimum and 50% maximum, before and during the installation.
- B. Do not install flooring until all other significant construction work is complete and surrounding air has attained moisture content.
- C. Provide permanent HVAC operation (2 week minimum) and permanent lighting prior to installation.

2.01 MANUFACTURER

- A. Components shall be as produced by KQF™, Northfield, IL, or certified as compatible with components produced by KQF™ quartz

2.02 MATERIALS

- A. Flooring: KQF™ quartz tile containing over 70% real quartz, conforming to the following criteria:
 - 1. Size: .100" thick by [12"x12" or 24"x24"] [Special thickness available upon request]
 - 2. Color:
[Custom color: _____].
 - 3. Edge Detail: [Square Edge].
 - 4. Fire Rating: Standard - (ASTM E-648 Radiant Panel 1.03 watts/cm²).
 - 5. Slip Resistance: Shall exceed ASTM D-2047 as to slip resistance and meet all current requirements of the Americans with Disabilities Act (ADA).
- B. Subfloor Filler: Latex portland cement patching compound.
- C. Adhesive: ONLY as recommended by KQF™ quartz

2.03 ACCESSORIES

- A. Moldings and transition strips are to be [natural wood] [rubber] [vinyl] with color/finish as selected by owner to match/blend with the finished flooring color, as manufactured by others.

3.01 EXAMINATION

- A. Verify the substrate is clean and free of debris, dirt, loose material, grease, oil, and other contaminants that will interfere with the bonding of the adhesive. Concrete surface sealers must be removed if present.
- B. Verify that new slab cure is a minimum of 60 days.
- 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. Less than 75%rh (relative humidity) as tested by ASTM F 2170. All Calcium Chloride tests should be less than 5 lbs. /1000 square feet/24 hours.
- D. Wood Subfloors: Must be dry, clean, structurally sound, and flat to within 1/8" in 10 ft. (3mm per 3m), well nailed and/or 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 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 KQF™ quartz. Do not skim coat concrete subfloors.
- F. Verify that substrate is flat to within 1/8" in 10' (3mm per 3m).
- G. KQF® quartz flooring can be installed on, above, or below grade.
- H. Beginning of installation means substrate has been accepted as suitable.

3.02 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. KQF™ quartz 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...

3.03 INSTALLATION

- A. Follow manufacturer's installation instructions supplied in each carton of material.
- B. To reduce telegraphing of minor subfloor irregu0.

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larities fill, patch and sand as necessary.

C. Apply adhesive per manufacturer's instructions.

D. Following installation of tile (typically within an hour after installing) roll entire floor area with minimum 100-pound roller to ensure proper bonding.

3.04 PROTECTION

- A. Protect finished floor from abuse by other trades using heavy kraft paper or equivalent.

3.05 CLEANING

A. Following installation flooring should be stripped with cold water stripper or equivalent. Floor should then be finished (2 coats) with finish. Thereafter floor can be cleaned with a neutral cleaner and periodically spray buffed to help maintain the appearance of the floor. (See maintenance instructions for complete details)

3.06 WARRANTY

A. The manufacturer of the materials will warrant the wear surface of KQF™ quartz flooring for a specified period of fifteen (15) years, provided the product is installed and maintained in accordance with recommended procedures and is subject to commercial traffic use. See written warranty for complete details.

END OF SECTION

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