

ARCHITECTURAL SPECIFICATION

PentalQuartz is a quartz-composite engineered stone that is suitable for virtually any interior surfacing application. PentalQuartz can be used for kitchen countertops, bathroom vanities, bar tops, wall cladding, shower and tub surrounds, and a variety of other indoor surfacing. PentalQuartz provides significant advantages over many natural stones including greater strength, stain resistance, scratch resistance, and consistency of colors and textures.

Edit this Guide Specification according to project requirements. Samples, product literature, and any other product assistance are available by contacting Pental Surfaces at 206-768-3200 or by visiting our website at www.pentalquartz.com

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1.2 References

A. ASTM International

1. ASTM C97 – Absorption and Bulk Specific Gravity of Dimension Stone
2. ASTM C99 – Modulus of Rupture of Dimension Stone
3. ASTM C170 – Compressive Strength of Dimension Stone
4. ASTM C370 – Moisture Expansion
5. ASTM C482 - Bond Strength of Ceramic Tile to Portland Cement
6. ASTM C484 – Thermal Shock Resistance of Glazed Ceramic Tile
7. ASTM C501 – Relative Resistance to Wear of Unglazed Ceramic Tile to Taber Abraser
8. ASTM C531 – Linear Shrinkage and Coefficient of Thermal Expansion of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes

2.4 Fabrication

A. Fabricator: Firm shall be certified by Pental Surf aces and have the ability to present written proof of such certification upon request.

B. Layout: Layout surfaces (as shown in drawings) to minimize joints and avoid L-shaped pieces of quartz surfacing.

C. Inspection of Material:

1. Inspect material for any defects prior to fabrication.
2. Visually inspect material to be used in adjacent pieces to ensure acceptable color match.
3. Material to be used in adjacent pieces shall be from the same batch and identified accordingly.

D. Tools: All cutting and polishing shall be done using water cooled power tools.

E. Cutouts:

1. Cutouts shall have a minimum 3/8 inch (10mm) inside radius.
2. All exposed edges of cutouts shall be polished to match surface finish or per drawings.

F. Laminations:

1. Laminate layers of quartz surfacing as required to create buildup of edges following procedures recommended by manufacturer.

Part 3 – Execution

3.1 Acceptable Installer

A. Firm shall be certified by Pental Surf aces and have the ability to present written proof of such certification upon request.

B. Preliminary Installation:

1. Position materials to verify correct size and position.
2. Make any necessary size or finish adjustments using methods recommended by manufacturer using water cooled power tools.
3. Perform work away from installation area if possible to protect the jobsite and surface area from dust and water.
4. Allow gaps for expansion of not less than 1/8 inch for 10 feet when installing between walls or other fixed structures.

C. Permanent Installation:

1. After verification of fit and finish:
 - a. Remove material from preliminary positions.
 - b. Clean substrates of any dust or debris.
 - c. Clean the back side of all quartz surfaces and joint surfaces with denatured alcohol.
2. Apply sufficient amount of mounting adhesive in accordance with manufacturer's recommendations to provide a permanent and secure installation.
3. Verify installation of quartz surface is plumb, level, square and flat within 1/16 inch in feet.
4. [Fasteners] [Grout] [Hardware]: [_____].
5. Position adjacent pieces of quartz surfaces in the same plane.

D. Joints

1. Joints between adjacent pieces of quartz surfacing
 - a. Joints shall be flush, tight fitting, level, and neat.
 - b. Securely join pieces with manufacturer's recommended stone adhesive.
 - c. Fill joints level to quartz surfacing.
 - d. Clamp or brace quartz surfacing pieces in position until adhesive sets.
2. Joints between quartz surfacing and [backsplash] [wall] [tub] [shower] [other]
 - a. Seal joint with silicone sealant as recommended by manufacturer.

3.5 Repair

- A. Repair or replace damaged material in a satisfactory manner.

3.6 Cleaning

- A. Remove masking, excess adhesive and/or sealant. Clean all exposed surfaces.

3.7 Protection

- A. Protect installed surfaces from damage by other trades.

3.8 Schedules

- A. [Site and job specific].

END OF SECTION