

Crossville Quartz Surfaces is a quartz-based fabricated stone which can be used for attractive and functional countertops, shower and tub surrounds, interior wall cladding, and other interior applications. Compared to natural stone surfacing, Crossville Quartz Surfaces offers many attractive advantages including greater strength, wear resistance, ease of handling, and a unique aesthetic character.

SECTION 06 61 19 – QUARTZ SURFACING FABRICATIONS

SECTION 12 36 61 – QUARTZ SURFACING COUNTERTOPS

1.0 REFERENCES

A. American Society for Testing and Materials (ASTM) International

1. ASTM C97 – Absorption and Bulk Specific Gravity of Dimensional Stone
2. ASTM C99 – Modulus of Rupture of Dimensional Stone
3. ASTM C170 – Compressive Strength of Dimensional Stone
4. ASTM C217 – Weather Resistance of Slate
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 by the Taber Abraser
8. ASTM C531 – Linear Shrinkage and Coefficient of Thermal Expansion of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes
9. ASTM C880 – Flexural Strength of Dimensional Stone
10. ASTM C1026 – Resistance of Ceramic Tile to Freeze-Thaw Cycling
11. ASTM C1028 – Static Coefficient of Friction of Ceramic Tile and Other like Surfaces by the Horizontal Dynamometer Pull-Meter Method
12. ASTM C1243 – Relative Resistance to Deep Abrasive Wear of Unglazed Ceramic Tile by Rotating Disc
13. ASTM D256 – Izod Pendulum Impact Resistance of Plastics
14. ASTM D2047 – Static Coefficient of Friction of Polish-Coated Floor Surfaces by the James Machine
15. ASTM E84 – Surface Burning Characteristics of Building Materials

B. American National Standards Institute (ANSI)

1. ANSI Z124.6 – Stain Resistance
2. ANSI/N 42.14 – Radiation

C. National Electrical Manufacturers Association (NEMA)

NEMA LD3-3.5 – Boiling Water Resistance

NEMA LD 3-3.6 – High Temperature Resistance

D. European Standards (EN)

1. EN 14617-1 – Determination of Apparent Density and Water Absorption
2. EN 14617-4 – Determination of Abrasion Resistance
3. EN 14617-5 – Determination of Freeze/Thaw Resistance
4. EN 14617-9 – Determination of Impact Resistance
5. EN 14617-12 – Determination of Dimensional Stability
6. EN 14617-13 – Determination of Electrical Resistivity
7. EN 14617-15 – Determination of Compressive Strength

E. Others

1. NSF – ANSI/NSF Standard 51
2. GREENGUARD

2.0 SPECIFICATIONS

Sizes & Finishes

Quartz Slab

Nominal (in)	Thickness)	Weight	Finish
126" x 63"	2cm/3cm	542/814 lbs	Polished

Product Performance

Gloss	47% minimum	
Scale of Hardness	6-7	Mohs
Density	2.4g/cm ³	ASTM C-97
Water Absorption	<0.3%	ASTM C-97
Abrasion Resistance	208	ASTM C-501
Flexural Strength	>5,300 psi	ASTM D-790
Impact Resistance	0.35 ft-lb/inch	ASTM D-256
Compressive Strength	24,000 - 27,500	ASTM C-170
Freeze/Thaw Resistance	No effect – 15 cycles	ASTM C-1026
Stain Resistance	Pass	ANSI Z 124.6
Chemical Resistance	Pass	ANSI Z 124.6
Cigarette Test	Pass	ANSI Z 124.6
Surface Burning	Class A	ASTM E-84
Fungal/Bacteria Resistance	No Growth	ASTM G-21
High Temperature Resistance	Pass	NEMA LD3-3.6

Dynamic Coefficient of Friction Range

Polished (Wet)	0.60	ASTM C-1028
Polished (Dry)	0.84	ASTM C-1028

Recommended Use

Quartz is recommended for countertops and interior walls.