

— TECHNICAL DATA SHEET

# Viana Quartz Slabs.

Viana Quartz is a premium engineered quartz surface composed of 93% natural quartz aggregate bound with high-performance polymer resin, produced under **Bretonstone®** vibrocompression to architectural tolerance. The following performance data is provided for slabs of **20 mm thickness in a polished finish**.

*Note: Values shown are indicative averages across the Viana Quartz collection and may vary with thickness, color, finish, special additives, batch, and quartz grain size. For project-specific specification, contact Viana directly.*

— TEST RESULTS

Performance verified to **ASTM** and **EN** standards.

PHYSICAL PROPERTIES		
Water Absorption	ASTM C97	< 0.03 %
Water Absorption	EN 14617-1	< 0.03 %
Bulk Density	ASTM C97	2.15 – 2.46 g/cm <sup>3</sup>
Bulk Density	EN 14617-1	2.15 – 2.46 g/cm <sup>3</sup>
MECHANICAL PROPERTIES		
Flexural Strength (Dry)	ASTM C880	> 5810 psi (40 MPa)
Flexural Strength (Wet)	ASTM C880	> 5520 psi (38 MPa)
Flexural Strength	EN 14617-2	31 – 80 N/mm <sup>2</sup>
Compressive Strength (Dry)	ASTM C170	> 28 430 psi (196 MPa)
Compressive Strength (Wet)	ASTM C170	> 27 560 psi (190 MPa)
Impact Strength	EN 14617-9	3.4 – 14.5 Joules
Modulus of Rupture	ASTM C99	6 315 psi (43.54 MPa)
Bond Strength	ASTM C482	240 psi (1.65 MPa)

DURABILITY & ENVIRONMENTAL		
Thermal Expansion	ASTM C372	30°C – 100°C : $2.8 \times 10^{-5}$ – $4.9 \times 10^{-5}$
Thermal Expansion	EN 14617-11	$16 \times 10^{-6}$ – $20.8 \times 10^{-6}$
Thermal Shock	ASTM C484	Passes — 5 cycles
Freeze-Thaw Resistance	EN 14617-5	0.999
Abrasion Resistance	ASTM C241	> 61.2
Abrasion Resistance	EN 14617-4	21.2 – 26.5 mm
Mohs Hardness	EN 101	6.5 – 7.5
SURFACE PERFORMANCE		
Stain Resistance	ASTM C1378-04	Not Affected — Pass
Chemical Resistance	EN 14617-10	Class C4
Wear & Cleanability	ASTM Z124 6.5.3	Pass
Cigarette Test	ASTM Z124 6.5.4	Pass
SLIP & FIRE SAFETY		
Slip Resistance	ASTM C1028-07	Coefficient of Friction > 0.5
Static Coefficient of Friction	ASTM C1028-07	Dry avg. 0.74 · Wet avg. 0.5
Surface Burning	ASTM E-84	Class A
Flame Spread	ASTM E-84	FSI < 10 (3 cm) · FSI < 15 (2 cm) — Class A

— KEY CLASSIFICATIONS

**Class A** fire rating (ASTM E-84) · **Class C4** chemical resistance (EN 14617-10) · **Mohs 6.5 – 7.5** scratch resistance · **Water absorption < 0.03%** · **Passes 5 cycles** thermal shock · Freeze-thaw coefficient **0.999**.

— SPECIFIED APPLICATIONS

Where Viana Quartz *belongs*.

Viana Quartz is specified across residential, commercial, and hospitality environments where design precision and surface durability are required.

RESIDENTIAL	COMMERCIAL
<ul style="list-style-type: none"> <li>— Kitchen countertops &amp; islands</li> <li>— Bathroom vanities</li> <li>— Bar tops &amp; wine rooms</li> <li>— Fireplace surrounds</li> <li>— Interior feature walls</li> <li>— Staircase treads &amp; risers</li> <li>— Furniture tabletops</li> </ul>	<ul style="list-style-type: none"> <li>— Hotel &amp; restaurant surfaces</li> <li>— Reception desks</li> <li>— Retail display counters</li> <li>— Office casework</li> <li>— Healthcare &amp; lab surfaces</li> <li>— Commercial restrooms</li> <li>— Educational facilities</li> </ul>

— WARRANTY & CERTIFICATIONS

Viana Quartz carries a **15-year comprehensive warranty** covering manufacturing defects under normal residential use. Product is **NSF 51 certified** for direct food contact, Class A fire-rated per ASTM E-84, and produced under ISO-standard quality management. Each slab is color-graded and thickness-verified to architectural tolerance ( $\pm 0.3$  mm) before shipment. For complete warranty terms, contact Viana directly.

— INSTALLATION NOTES

Viana Quartz must be fabricated and installed by a qualified stone fabricator using appropriate diamond-edge tooling. Seams should be joined with color-matched stone adhesive. Overhangs beyond 14 inches (30 mm thickness) require corbels or bracket support. Viana Quartz is not rated for outdoor or direct-UV applications; for exterior specification, refer to the **Viana Sintered Stone** technical data sheet.

— DOCUMENT CONTROL

This technical data sheet outlines the physical, chemical, and mechanical properties of Viana Quartz slabs, ensuring high durability, strength, and performance across residential, commercial, and architectural applications. Specifications are subject to update as manufacturing standards evolve. For the current revision and project-specific technical data, contact **Viana Surfaces** or visit [vianasurfaces.com](http://vianasurfaces.com).