



# FABRICATION & INSTALLATION MANUAL

## PHOENIX QUARTZ SLABS

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### Introduction

Phoenix Quartz , Viana Quartz ( Brand ) is a premium natural quartz surface that combines elegant design with superior durability. It offers the beauty of natural stone with enhanced performance, making it ideal for **kitchen countertops, bathroom vanities, flooring, shower walls, and cladding.**

Manufactured using cutting-edge **Technology**, Phoenix Quartz is composed of up to **93% high-quality natural quartz** and **7% premium polymer resins**. The pigments used are lead-free, ensuring consistent color and pattern accuracy across batches.

With exceptional **strength, scratch resistance, stain resistance, and non-porous properties**, Phoenix Quartz is engineered for long-lasting beauty with minimal maintenance. It is available in a wide range of colors and designs, including options with embedded glass, mirror chips, and unique embellishments such as **amethyst, lapis lazuli, jade, and rose quartz.**

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### Key Features

- **Durable & Scratch-Resistant** – Twice as impact-resistant and four times stronger than natural stone.
  - **Non-Porous & Stain-Resistant** – Requires minimal maintenance and is resistant to moisture.
  - **Eco-Friendly Manufacturing** – Free from heavy metals and harmful chemicals.
  - **Perfect for Indoor Use** – Ideal for high-traffic areas such as kitchens and bathrooms.
  - **Customizable Designs** – Available in various textures, colors, and finishes.
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### About This Manual

This manual provides **best practices** for fabricating and installing **Phoenix Quartz slabs**. It is intended for **qualified stone fabricators and installers** and is **not a substitute for professional**

**expertise.** Following these guidelines ensures **high-quality installations, better workflow, and long-term durability.**

This manual includes: ✓ Fabrication guidelines ✓ Handling & storage instructions ✓ Installation best practices ✓ Safety precautions ✓ Maintenance recommendations

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## Caution

This guide is intended for use by experienced professionals. **Improper handling or fabrication may lead to damage or void warranties.**

**Phoenix Quartz assumes no liability** for fabrication errors or installation-related issues. Always follow **industry standards** and manufacturer recommendations.

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## Warranty

Phoenix Quartz offers:

- **Residential 15 Years Limited Warranty**
- **10-Year Limited Commercial Warranty**

The warranty covers **material defects only**. Suitability, fabrication, installation, and workmanship quality are the responsibility of the fabricator. Full warranty details are available on our website.

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## Technology & Innovation

Phoenix Quartz uses advanced **Breton technology** to produce engineered stone that exceeds natural stone in durability and performance. Our **proprietary manufacturing process** ensures:

- **Enhanced strength** through vibro-compression under vacuum.
  - **Uniform color and pattern consistency.**
  - **Customization options** for specialized projects.
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## Applications

Phoenix Quartz is designed for **indoor use** and is highly recommended for:

## ✓ Residential Applications

- Kitchen countertops, islands, and backsplashes
- Bathroom vanities, shower walls, and surrounds
- Fireplace surrounds and accent walls

## ✓ Commercial Applications

- Restaurants, hotels, and hospitality spaces
- Healthcare facilities and laboratories
- Reception desks, conference tables, and lobby interiors

⚠ **Not recommended for outdoor use, direct sunlight exposure, or extreme heat above 150°C.**

## Technical Specifications

Test Performed	Standard	Results
Water Absorption	ASTM C373	<0.05%
Bulk Density	ASTM C97	2.4 – 2.5 g/cm <sup>3</sup>
Impact Strength	ASTM D2794	High
Abrasion Resistance	ASTM C501	Excellent
Slip Resistance	ANSI A137.1	R9-R10
Stain Resistance	ASTM D1308	Not Affected
Surface Burning	ASTM E84	Class A

## General Safety Guidelines

Phoenix Quartz prioritizes safety. Follow these **mandatory safety practices**:

✓ **Use proper lifting equipment** – Quartz slabs are **heavy and fragile**. ✓ **Wear personal protective equipment (PPE)** – Safety glasses, gloves, steel-toe shoes, dust masks. ✓ **Ensure adequate ventilation** – Dust contains silica, which may pose health risks. ✓ **Use wet cutting methods** – Prevents excessive dust and overheating. ✓ **Keep the workspace organized** – Minimize slip-and-fall hazards.

## Handling & Storage

- Store in a **cool, dry, covered area**.
  - Always **stack slabs vertically** on A-frame racks.
  - Avoid direct **sunlight exposure** or excessive moisture.
  - Use **slab lifting clamps** and ensure proper support when handling.
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## Fabrication Guidelines

✓ **Visual Inspection** – Check for defects before fabrication. ✓ **Measurement & Layout** – Plan cuts accurately to minimize waste. ✓ **Cutting Techniques** – Use **diamond cutting tools** and **wet cutting methods**. ✓ **Edge Profiling** – Avoid sharp edges to prevent chipping. ✓ **Seam Placement** – Ensure proper alignment for a seamless look. ✓ **Polishing** – Use water-cooled polishers for a **high-quality finish**. ✓ **Sink & Cooktop Cutouts** – Drill corner holes first to prevent stress fractures. ✓ **Adhesive & Seam Bonding** – Use **approved color-matched adhesives**.

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## Installation Best Practices

◆ **Ensure level surfaces** – Cabinets must be even to prevent stress cracks. ◆ **Use proper support** – Overhangs exceeding **12 inches** require brackets or corbels. ◆ **Seam Placement** – Avoid seams over dishwashers or unsupported areas. ◆ **Use 100% silicone adhesive** – For secure bonding of backsplashes and seams. ◆ **Allow expansion space** – Maintain **3mm clearance** from walls.

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## Cleaning & Maintenance

**DO's:** ✓ Use **mild soap and warm water** for daily cleaning. ✓ Wipe spills immediately to prevent stains. ✓ Use cutting boards and trivets to extend lifespan.


**DON'Ts:** ✗ Avoid harsh chemicals, bleach, or abrasive cleaners. ✗ Do not place hot pots directly on the surface. ✗ Avoid prolonged exposure to UV rays or outdoor use.

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## Conclusion

Phoenix Quartz offers an **unmatched blend of durability, elegance, and ease of maintenance**. By following the recommended **fabrication, installation, and care guidelines**, fabricators and homeowners can ensure a **long-lasting and beautiful surface** for years to come.

For more details, visit our website or contact our customer support team.

 **Phoenix Quartz – Engineered for Perfection.**

Phoenix Quartz