MATERIAL SPECIFICATION

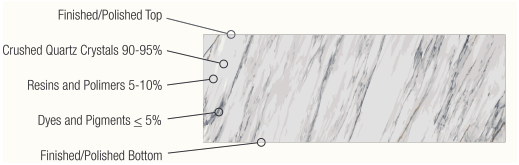
Engineered Stone

Engineered Stone is a polished, resin-bound quartz slab for panels, pilasters, transoms, and urinal screens, typically used with doors built in another material.

MATERIAL	WARRANTY	LEAD TIME	FIRE RATING
Quartz slab Polished both faces	**10 Years** Stone components only	**14 Weeks** By vendor, pattern, and slab availability	**Class A**

WHAT IT IS

Engineered Stone is 90 to 95% ground natural quartz bound with polymer resin and pigment, polished on both faces and every exposed edge. Ironwood supplies stone panels, pilasters, transoms, and urinal screens. Stone doors are by review; most doors are built in another material that sets the available door styles.



Engineered Stone slab: crushed quartz bound with resin and pigment, polished top and bottom faces.

CONSTRUCTION

COMPONENT	SPECIFICATION
Composition	90 to 95% ground natural quartz; 5 to 10% polymer resin and pigment
Core	None; components are cut from the solid slab
Weight	≈143 lb/ft³; varies by manufacturer and pattern
Panel thickness	0.74″ (19 mm), polished from 0.79″ (20 mm) slab
Pilaster thickness	1.13″ (29 mm), polished from 1.18″ (30 mm) slab
Transoms and urinal screens	Transom matches pilaster, 1.13″ (29 mm); screen matches panel, 0.74″ (19 mm)
Edge	Exposed edges polished to match faces; no edge banding
Doors	Stone doors by review; most are Wood Veneer or HPL, or Compact Laminate or Solid Surface in wet areas

SUITABILITY

Showers and direct water	● Yes
Humid restrooms	● Yes
Impact and abuse	● Limited
Field repair	● No
UV exposure	● Review

SPECIFIES WITH

MOUNTING
Headrail Braced · Floor to Ceiling

DOOR STYLES
Flat Panel · Louver · Captured Panel · Door Lite · Applied Molding · Engraving · Inlay · Barn X · Custom Shape

EDGE
Flat Edge · Zero Sightline

MATERIAL SELECTION

STRENGTHS

+ **Mineral Depth.** The polished face of Engineered Stone brings out color depth and veining on every panel and pilaster.
+ **Moisture Resistance.** The non-porous quartz surface suits shower compartments, pool areas, and humid locker rooms.
+ **Hard Mineral Surface.** High quartz content makes Engineered Stone resistant to scratching and impact as a material.
+ **Stone for Partitions.** Resin-bound quartz brings a stone appearance where some granite and marble are too porous or brittle.

CONSIDERATIONS

! **Stone Doors by Review.** Stone doors need review and heavy-duty hardware; most doors are built in another material, which sets the door styles and hardware available.
! **Weight and Mounting.** Floor Mount and Ceiling Hung are excluded, and structural support at each mounting point must be verified.
! **Slab Size Limits.** Components larger than the slab require a fabricator seam at added cost; slab size varies by color.
! **Pattern Variation.** Color and veining vary between components and from samples, and the two faces may differ.

TECHNICAL REFERENCE

PERFORMANCE

PROPERTY	VALUE
Fire rating	Class A
Moisture	Non-porous surface; suited to showers, pools, and humid locker rooms
Impact and abuse	Resistant as a material; polished finish shows wear under high abuse
Surface wear	Hard quartz surface; acidic cleaners etch and dull the polish
Field repair	No field adjustment, sanding, or refinishing
UV exposure	Not rated; outdoor or unconditioned use requires material-specific review

SIZING AND LIMITS

ITEM	SPECIFICATION
Max panel height	96″ (2438 mm)
Max pilaster height	120″ (3048 mm)
Max panel width	Set by slab size for the selected color
Slab size	55″ to 65″ × 120″ to 130″ (1397 to 1651 × 3048 to 3302 mm), by color
Seams	Fabricator-seamed at added cost; a back-wall pilaster can divide the run instead
Pilaster widths	Set per project by Ironwood specialists

HARDWARE AND INSTALLATION

ITEM	REQUIREMENT
Example weights	Panel 58″ × 58″, ≈207 lb; pilaster 10″ × 82″, ≈77 lb; pilaster 6″ × 82″, ≈46 lb
Hinges	Set by the door material; surface-mount hinges standard
Floor leveling	Shop-installed aluminum external leveler blocks
Structural support	Verified at every mounting point; Floor to Ceiling may need added ceiling support
Hardware material	Stainless steel; stamped standard, cast available

FINISHES AND OPTIONS

OPTION	DETAIL
Surface finish	Polished, high gloss, both faces
Color range	Several quartz manufacturers; narrower than laminate libraries
Pattern variation	Color and veining vary by component and from samples; faces may differ

CARE AND MAINTENANCE

TASK	INSTRUCTION
Routine cleaning	Clean with mild soap and water or a stone-specific cleaner.
Drying	Rinse and dry with a soft cloth.
Avoid	Avoid acidic or abrasive cleaners. Acidic cleaners etch and dull the polished finish.

WARRANTY

- Limited warranty term: 10 years.
- The warranty covers the Engineered Stone components; doors carry the warranty of their own material.

RELATED DOCUMENTS Color charts, the limited warranty, the maintenance and cleaning guide, and sample requests are linked from ironwood-mfg.com/products/materials/engineered-stone/