MATERIAL SPECIFICATION

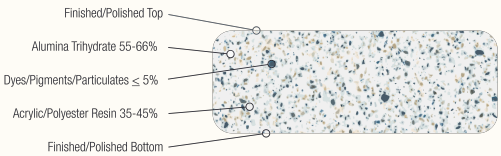
Solid Surface

Solid Surface is a homogeneous, non-porous resin and mineral composite for wet and humid restrooms, and the only Ironwood partition material that can be refinished in place.

MATERIAL	WARRANTY	LEAD TIME	FIRE RATING
Mineral-filled resin	**20 Years**	**14 Weeks**	**Class A or B**
Homogeneous, non-porous	No finish warranty on dark colors	Standard colors; varies by pattern and supplier	Varies by manufacturer and pattern

WHAT IT IS

Solid Surface is a composite of acrylic or polyester resin and alumina trihydrate filler, the same material through its full thickness. Components are 1″ (25 mm) thick with faces and edges finished in the same material, so surface damage can be sanded out or repaired in place.



Homogeneous resin and alumina trihydrate body with dispersed pigments, finished on both faces.

CONSTRUCTION

COMPONENT	SPECIFICATION
Composition	Acrylic or polyester resin 35% to 45%; alumina trihydrate 55% to 66%; pigments and fire retardants
Core	None; homogeneous through the full thickness
Build-up	Two 0.5″ (13 mm) sheets bonded back to back where necessary
Weight	8.75 lb/ft² at 1″ (25 mm)
Door thickness	1″ (25 mm)
Panel thickness	1″ (25 mm)
Pilaster thickness	1″ (25 mm)
Edge	Finished in the same material; no edge banding

SUITABILITY

Showers and direct water	● Excellent
Humid restrooms	● Excellent
Impact and abuse	● No
Field repair	● Yes
UV exposure	● Not rated

SPECIFIES WITH

MOUNTING
Headrail Braced · Floor to Ceiling · European

DOOR STYLES
Flat Panel · Engraving · Applied Molding · Inlay · Captured Panel · Custom Shape

EDGE
Flat Edge · Zero Sightline

MATERIAL SELECTION

STRENGTHS

+ **Field Repairability.** The only Ironwood partition material that can be sanded, buffed, and repaired in place.
+ **Moisture Resistance.** Non-porous and waterproof through its full thickness, suited to showers and other wet areas.
+ **Seamless Appearance.** Components wider than 30″ are butt-joined and finished flush; seams are imperceptible in solid colors.
+ **Design Flexibility.** The homogeneous body accepts engraving, inlay, and Custom Shape outlines.

CONSIDERATIONS

! **Impact and Abuse.** Solid Surface is not impact-resistant; impact damage is repaired in place rather than resisted.
! **Door Height Ranges.** Doors are made at 58″ or from 71″ to 96″; 59″ to 70″ is not available.
! **Mounting Limits.** Solid Surface is available in Headrail Braced, Floor to Ceiling, and European mounting only.
! **Dark Colors.** Dark colors carry no finish warranty and require written acknowledgment of their limitations.

TECHNICAL REFERENCE

PERFORMANCE

PROPERTY	VALUE
Fire rating	Class A or B; varies by manufacturer and pattern
Moisture	Non-porous and waterproof; suited to showers and wet areas
Impact and abuse	Not impact-resistant; damage is repaired rather than resisted
Surface wear	Minor scratches are repaired by a trained technician
Repair	Deep damage is cut out and replaced in section by a certified fabricator
UV exposure	Not rated

SIZING AND LIMITS

ITEM	SPECIFICATION
Door heights	58″, or 71″ to 96″ (2438 mm); 59″ to 70″ not available
Max panel height	96″ (2438 mm)
Pilaster height	Set by mounting style; component weight may require added support
Max panel width	59.5″ (1511 mm) finished
Sheet sizes	30″ × 144″ standard; 60″ × 144″ wide format in select colors
Seams	Butt-joined beyond 30″; imperceptible in solid colors, slightly visible in patterns

STANDARD SIZES

COMPONENT	SIZES
Door openings	24″, 36″ 610, 914 mm
Standard door heights	58″, 72″, 84″ 1473, 1829, 2134 mm
Pilaster widths	3″ to 10″ by 1″; 12″ to 24″ by 2″; 30″ 76 to 762 mm

HARDWARE AND INSTALLATION

ITEM	REQUIREMENT
Flat Panel weight	36″ wide: 130 lb at 58″, 162 lb at 72″, 189 lb at 84″
Captured Panel weight	36″ wide: 96 lb at 58″, 116 lb at 72″, 133 lb at 84″
Hinges	58″ doors: three surface-mount hinges; 71″ and taller: continuous geared hinge
Closer	Required on 71″ and taller doors; needs a headrail or transom above the door
Hardware material	Stamped stainless steel standard; cast stainless steel available

FINISHES AND OPTIONS

OPTION	DETAIL
Surface finish	Matte standard; satin available; paint and stain not compatible
Color range	Solids and patterns from multiple manufacturers; veining may differ face to face
Options	Engraving, inlay, and Custom Shape
Antimicrobial	Copper-infused Solid Surface from select manufacturers

CARE AND MAINTENANCE

TASK	INSTRUCTION
Routine cleaning	Clean with mild soap and water or a non-abrasive household cleaner.
Drying	Wipe dry after cleaning.
Avoid	Avoid abrasive cleaners. Minor scratches can be repaired by a trained technician.

WARRANTY

- Limited warranty term: 20 years.
- Dark colors carry no finish warranty and require written acknowledgment of their limitations before an order proceeds.

SUSTAINABILITY AND DOCUMENTATION

ATTRIBUTE	DETAIL
Service life	Surface damage is refinished in place rather than replaced with new components
Documentation	Recycled content, low-emission certifications, and declarations vary by manufacturer and color

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