MATERIAL SPECIFICATION

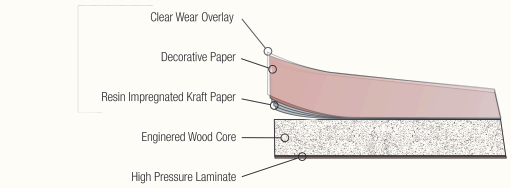
High Pressure Laminate (HPL)

High Pressure Laminate (HPL) is the lowest-cost Ironwood partition material and carries the widest laminate color and pattern selection for commercial restrooms.

MATERIAL	WARRANTY	LEAD TIME	FIRE RATING
HPL over particle board Engineered wood core in stile-and-rail doors	**5 Years** Contingent on Edgeband Last production	**6 Weeks** Varies by laminate manufacturer and job size **Quick Ship: as quick as 3 weeks, limited colors**	**Class B** Class A available in a fire-rated grade

WHAT IT IS

HPL partitions are made by bonding horizontal postforming grade laminate to both faces of a particle board core, and stile-and-rail doors use an engineered wood core. The laminate provides the color, pattern, and wear surface, and every exposed edge is sealed with PVC edge banding.



Slab cross-section: HPL bonded to both faces of a particle board core, with PVC edge banding.

CONSTRUCTION

COMPONENT	SPECIFICATION
Composition	HPL bonded to both faces of a wood-based core
Laminate	Horizontal postforming grade, 0.039″ (1.0 mm) nominal, aluminum oxide wear overlay
Core	45 lb particle board; engineered wood in stile-and-rail doors
Core weight	4.66 lb/ft² particle board, 4.58 lb/ft² engineered wood, at 1.25″
Laminate buildup	Approximately 0.080″ (2 mm), both faces combined
Door and pilaster thickness	1.25″ (32 mm)
Panel thickness	0.75″ (19 mm)
Edge	PVC edge banding, PUR adhesive, Edgeband Last (EBL) production

SUITABILITY

Showers and direct water	No
Humid restrooms	Good
Impact and abuse	No
Field repair	Limited
UV exposure	Good

SPECIFIES WITH

MOUNTING
Headrail Braced · Floor to Ceiling · Floor Mount · Ceiling Hung · European

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

+ **Design Flexibility.** Widest laminate color and pattern selection of any Ironwood material, in solids, patterns, and woodgrains.
+ **Practical Value.** Lowest price point of the five Ironwood partition materials.
+ **Custom Visuals.** Custom-printed laminate carries images and graphics; painted laminate matches a custom color.
+ **Spliceable Construction.** Faces and cores can be spliced when a component exceeds the available sheet size.

CONSIDERATIONS

! **Moisture Exposure.** Not intended for showers or other wet areas; elevated humidity and steam should be evaluated.
! **Impact and Abuse.** Not recommended for high-abuse environments.
! **Cleaning Restrictions.** Abrasive cleaners, scouring pads, and steel wool damage the surface and void the warranty.
! **Component Limitations.** Panels wider than 60.5″ require a splice or a back-wall pilaster.

High Pressure Laminate (HPL)

TECHNICAL REFERENCE

PERFORMANCE

PROPERTY	VALUE
Fire rating	Class B standard; Class A available in a fire-rated grade
Humidity	Performs well in typical restrooms; elevated humidity and steam should be evaluated
Direct water	Not intended for showers, pool areas, or continuously wet conditions
Impact and abuse	Not recommended for high-abuse environments
Wear surface	Aluminum oxide wear overlay protects the decorative layer
UV exposure	Good under typical indoor lighting

SIZING AND LIMITS

ITEM	SPECIFICATION
Max door height	108″ (2743 mm)
Max panel and pilaster height	120″ (3048 mm); mounting style may cap lower
Max panel width	60.5″ (1537 mm); wider panels are spliced or divided at a back-wall pilaster
Sheet sizes	48″ × 96″ and 60″ × 144″ nominal
Splicing	Available when a component exceeds the sheet size
Grain direction	Vertical standard; horizontal grain by special order in limited patterns

STANDARD SIZES

COMPONENT	SIZES
Door openings	24″, 33.75″, 36″ 610, 857, 914 mm
Standard door heights	58″, 72″, 84″ 1473, 1829, 2134 mm
Pilaster widths	3″ to 12″ by 1″; 14″ to 30″ by 2″ 76 to 762 mm

HARDWARE AND INSTALLATION

ITEM	REQUIREMENT
Flat Panel weight	36″ wide: 69 lb at 58″, 86 lb at 72″, 100 lb at 84″
Stile-and-rail weight	36″ × 84″: Louver 52 lb, Door Lite 65 lb, Captured Panel 71 lb
Hinges	Surface-mount hinges standard; other Ironwood hinge types available
Closer	Required on doors over 100 lb
Hardware material	Stamped stainless steel standard; cast stainless steel available

FINISHES AND OPTIONS

OPTION	DETAIL
Pattern range	Solids, patterns, and woodgrains from multiple laminate manufacturers
Surface finish	Finish availability varies by pattern; high-gloss finishes are not offered
Custom options	Painted laminate for custom colors; custom-printed images and graphics
Antimicrobial	Available from certain laminate manufacturers; varies by pattern and finish

CARE AND MAINTENANCE

TASK	INSTRUCTION
Service condition	High Pressure Laminate is not intended for direct water exposure or continuously wet conditions.
Routine cleaning	Clean with mild soap and water or a non-abrasive household cleaner.
Drying	Rinse thoroughly and wipe dry.
Avoid	Do not use abrasive cleaners, scouring pads, or steel wool. These damage the laminate surface and void the HPL warranty.

WARRANTY

- Limited warranty term: 5 years.
- The 5-year warranty is contingent on Edgeband Last (EBL) production with edge banding bonded by polyurethane reactive (PUR) adhesive.
- Abrasive cleaners, scouring pads, and steel wool damage the laminate surface and void the warranty.

SUSTAINABILITY AND DOCUMENTATION

ATTRIBUTE	DETAIL
Material attributes	Low-emission laminate and adhesives, FSC-certified wood, and recycled content vary by manufacturer and core
Documentation	Certifications and environmental claims are confirmed for the specific materials selected

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