MATERIAL SPECIFICATION

Compact Laminate (CPL)

Compact Laminate is a homogeneous solid phenolic panel recommended for high-traffic, wet, and high-abuse restrooms.

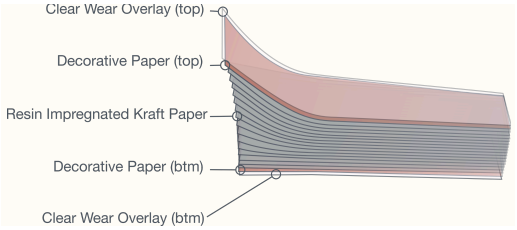
MATERIAL	WARRANTY	LEAD TIME	FIRE RATING
Solid phenolic Homogeneous; no separate core	**15 Years** Wet areas: eligible manufacturers only	**9 Weeks** Up to 12 weeks by manufacturer **Quick Ship: as quick as 2 weeks, limited colors**	**Class B** Class A available in a fire-rated grade

WHAT IT IS

Compact Laminate is a solid phenolic panel of resin-impregnated kraft paper layers fused under heat and pressure, with a decorative surface and wear overlay on each face. The panel is the same material through its full thickness, with no separate core, which gives it its moisture and impact resistance.

CONSTRUCTION

COMPONENT	SPECIFICATION
Composition	Phenolic resin-impregnated kraft paper layers fused under heat and pressure
Faces	Decorative surface paper under a clear aluminum oxide wear overlay, both faces
Core	Homogeneous, self-supporting phenolic; no separate core
Weight	3.6 lb/ft² at 0.5″ (13 mm); 7.2 lb/ft² at 1″ (25 mm)
Door thickness	0.75″ (19 mm) slab; 1″ (25 mm) stile and rail
Panel thickness	0.5″ (13 mm)
Pilaster thickness	0.75″ (19 mm) with slab doors; 1″ (25 mm) with stile and rail doors
Edge	Color-coordinated PVC edge banding, PUR adhesive



Layer build-up: clear wear overlay and decorative paper on each face over resin-impregnated kraft paper layers.

SUITABILITY

Showers and direct water	● Excellent
Humid restrooms	● Excellent
Impact and abuse	● Excellent
Field repair	● No
UV exposure	● Specify UV

SPECIFIES WITH

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

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

+ **Moisture Resistance.** Homogeneous phenolic with no wood core, rated excellent in humid and wet areas.
+ **Durability in Demanding Environments.** Rated excellent for durability and recommended for high-traffic and high-abuse restrooms.
+ **Chemical Resistance.** More chemically resistant than HPL; cleans with standard restroom cleaning chemicals.
+ **Color-Coordinated Edges.** Color-coordinated edge banding conceals the black phenolic core on exposed edges.

CONSIDERATIONS

! **Wet-Area Warranty.** Wet-environment coverage applies only to Compact Laminate from the eligible manufacturers listed on this sheet.
! **Component Limitations.** Compact Laminate cannot be spliced; component size is limited to available sheet sizes.
! **Door Height Limit.** Doors are limited to 84″ (2134 mm).
! **Environmental Exposure.** Unequal temperature or airflow between faces may contribute to warping.

Compact Laminate (CPL)

TECHNICAL REFERENCE

PERFORMANCE

PROPERTY	VALUE	BASIS
Fire rating	Class B standard; Class A available in a fire-rated grade	
Moisture	Waterproof through its full thickness; suited to showers and wet areas	
Impact and abuse	Rated excellent; recommended for high-abuse environments	
Density	1.39 g/cm³	ASTM D792
Screw holding	≥1,300 lb	0.5″ panel
Flexural strength	≥177 MPa	Machine direction
Dimensional stability	≤0.15%	Cumulative change
Flatness	0.25″ (6 mm) maximum warpage	Any 48″ span
Stain resistance	Pass	SEFA 3
Scratch resistance	≥5 N; fire-rated grade tests lower	EN 438-2:25
Wear resistance	≥390 cycles	EN 438-2:10
UV exposure	UV-resistant grade required for high-UV, exterior, or unconditioned spaces	
Face temperature	Both faces require similar temperature and airflow; uneven exposure risks warping	
Acclimation	72 hours at installed conditions	Before installation

Test values are published manufacturer data for standard grades.

SIZING AND LIMITS

ITEM	SPECIFICATION
Max door height	84″ (2134 mm)
Max panel and pilaster height	120″ (3048 mm); mounting style may cap lower
Max panel width	60.5″ (1537 mm)
Sheet sizes	48″ × 96″, 48″ × 120″, 60″ × 96″, 60″ × 120″, 60″ × 144″ nominal
Splicing	Not available; a deeper compartment uses a back-wall pilaster
Grain direction	Vertical standard; components are not rotated on the sheet

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	0.75″, 36″ wide: 83 lb at 58″, 103 lb at 72″, 120 lb at 84″
Stile-and-rail weight	1″, 36″ × 84″: Captured Panel 112 lb, Door Lite 87 lb, Louver 86 lb
Hinges	Surface-mount hinges standard; other Ironwood hinge types available
Closer	Required on doors over 100 lb
Fastening	Face-mounted fasteners; no screws into component edges
Hardware material	Stamped stainless steel standard; cast stainless steel available

FINISHES AND OPTIONS

OPTION	DETAIL
Pattern range	Solid colors, patterns, and woodgrains
Surface finish	One or two finishes per pattern; not every combination exists
Core and edge	Black core with color-coordinated edge banding; thru-color core in limited colors
Grades	Fire-rated and UV-resistant grades available
Custom options	Custom printed patterns and images from select manufacturers
Antimicrobial	Treatment through the core from select manufacturers and patterns

CARE AND MAINTENANCE

TASK	INSTRUCTION
Routine cleaning	Clean with mild soap and water, a non-abrasive cleaner, or standard restroom cleaning chemicals.
Drying	Rinse and wipe dry.
Avoid	Avoid abrasive cleaners and scouring pads, which dull the finish.

WARRANTY

- Limited warranty term: 15 years.
- Wet-environment coverage applies only to Compact Laminate from Wilsonart, Arborite, and Polilam.
- Compact Laminate from other manufacturers, such as Formica, Pionite, and Nevamar, is not warranted for wet environments.

SUSTAINABILITY AND DOCUMENTATION

ATTRIBUTE	DETAIL
Sourcing	Kraft papers typically sourced from responsibly managed forests
Documentation	Environmental declarations and certifications vary by product; supplier documents available

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