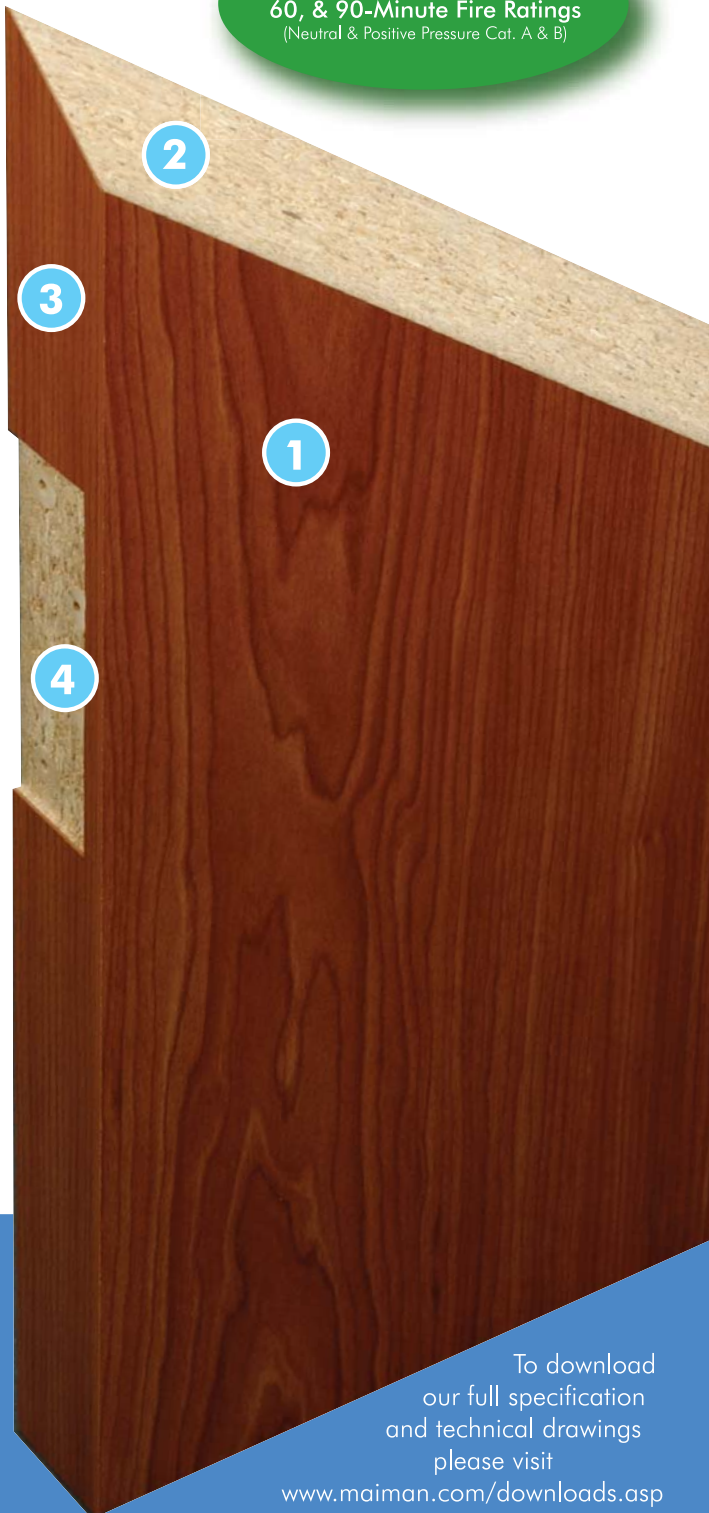


The Maiman Thermal Fused Flush Door

Patented Product and Process

Available in Non-Rated, 20, 45, 60, & 90-Minute Fire Ratings
(Neutral & Positive Pressure Cat. A & B)



To download our full specification and technical drawings please visit www.maiman.com/downloads.asp

Specifications

Type	Thermal Fused (for interior use only) LPDL - Low Pressure Decorative Laminate
Meets or exceeds these industry standards	WDMA IS-1A ANSI-A208.1, min. grade M2 NEMA LD 3-2000 LMA.2003 - Decorative Overlay ASTM E 90-99, STC Testing ASTM F-476, Security Testing
Thickness	1 3/8" or 1 3/4"
Maximum Dimensions	48" x 108" prefit
1 Face Material	NEER VENEER™ is resin impregnated and chemically fused to the core at approximately 600 psi and 392°F. No finishing is ever required.
2 Core Material	Monolithic minimum M2 structural industrial particle core, layered to attain a perfectly smooth face, eliminates telegraphing, with dense particulate for rigidity.
3 Edgework	1mm (.04") thick durable edgework completely seals the perimeter of the door, including the top and the bottom.
Edgework Adhesive	PURHM (Polyurethane Reactive Hot Melt) is used for optimum strength between the core and durable edgework.
4 Reinforced Hinge Screw Locations	Pre-drilled, glued, spiral-grooved birch reinforcements of 2x the diameter of the hinge screws eliminate the need for stile, rails, and cross bands.
20-Minute Options	WHI 20-Minute doors can be either 1 3/8" or 1 3/4" thick, blocking is not required and you never need throughbolts.
Lite and Louver Openings	Cut-out not to exceed 40% of door area with a minimum of 6" from the edge and top of the door.
Sustainable Content	Doors composed of 75% recycled and recovered content.
Warranty	Life of original installation. See our full warranty for details.

Performance Tested Performance Specified

Patented Product and Process

Properties	Description	Test Standards	Performance Values	Maiman Thermal Fused Values
Hingeload Test	The ability of a wood door stile to resist the horizontal withdrawal of an attached hinge. The test is designed to simulate the downward force to knob area on the leading edge of a hinged swinging door.	WDMA TM-8	Standard Duty 400 lbs. Heavy Duty 475 lbs. Extra Heavy Duty 550 lbs.	1,239 lbs.
Screw Withdrawal Vertical Door Edge	The ability of a wood door component to resist the withdrawal of a screw perpendicular to the component.	WDMA TM-10	Standard Duty 400 lbs. Heavy Duty 475 lbs. Extra Heavy Duty 550 lbs.	909 lbs.
Screw Withdrawal Door Face	The ability of a wood door component to resist the withdrawal of a screw perpendicular to the component.	WDMA TM 10	Standard Duty 400 lbs. Heavy Duty 475 lbs. Extra Heavy Duty 550 lbs.	699 lbs.
Warp	The allowable variation from a flat plane within the door surface.	WDMA TM-2	All Duty Levels: 25" within 3'-6" x 7'-0" door section max.	Meets or Exceeds
Squareness	The allowable differential in squareness, measured on the diagonal.	WDMA T-3	Standard Duty 400 lbs. Heavy Duty 475 lbs. Extra Heavy Duty 550 lbs.	Meets or Exceeds
Cycle Slams	To determine the physical endurance of wood doors and associated hardware connections under accelerated operating conditions.	WDMA TM-7	Standard Duty 250,000 cycles Heavy Duty 500,000 cycles Extra Heavy Duty 1,000,000 cycles	1,000,000 cycles
STC Rating	The sound insulating property of a wood door.	ASTM E90-99	n/a	32 operable 33 fixed in place
Security Test	To determine the strength of an opening when subjected to a kicking force that could be achieved by an individual breaking into a building.	ASTM F476	Minimum 10 Low/Med 20 Med/High 30 High 40	40

Structural Core Specifications

Density	ANSI-A208, 1-99 gd M-2	28-32 lbs/ft ³	Average 42 lbs/ft ³
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Door Dimensional Tolerances

Width	+ or - 1/32" Factory Prefit
Height	+ or - 1/16"
Thickness	+ or - 1/16"

Decorative Surface Characteristics

Wear Resistance	Measure of the ability of the surface to keep its design or color under abrasive wear.	NEMA LD 3-2000	400 cycles	400 cycles
Appearance	Presence of visual defects on the decorative surface.	WDMA IS 1A-2004	Premium 3 ft. Custom 6 ft.	Premium 3 ft. Custom 6 ft
Scratch Resistance	Measure of the ability of the decorative surface to scratch by diamond tip tool.	EN 438 2.14-91	UV-cured veneer - 1 N HPDL - 1.5 N	3.7 N
Stain Resistance	Measure of the ability of the decorative surface to resist stain when exposed to 15 household products.	NEMA LD 3-2000	1-10 no effect, 11-15 moderate	1-10 no effect, 11-15 slight to moderate effect
Cleanability	Measure of the ability of the decorative surface to be cleaned when exposed to 15 different soiling agents.	NEMA LD 3-2000	Max 20	Max 20
Light Resistance	Measure of the ability of the decorative surface to retain its color when exposed to a light source similar to sunlight.	NEMA LD 3-2000	Slight	No to slight effect
Impact Resistance	Measure of the maximum height of a steel ball that does not cause fracture of the decorative surface.	NEMA LD 3-2000	15 in	20 in.