

**PLATINUM SERIES**  
**5-Ply Architectural Flush Doors**  
**MFD3/4-5**  
**Mohawk 45-Minute**  
**Mineral Core C-Label**  
**5-Ply Construction**

**QUALITY ASSURANCES:** All Mohawk 45-Minute Fire doors comply with UBC standard 7-2-97 Positive Pressure requirements, meet or exceed the latest edition of W.D.M.A. I.S. 1A-97 and AWI 1300 Quality Standards, and are labeled under Warnock Hersey International program.

**APPLICATIONS:** Used in architectural openings where a 5-ply door with a 45-minute label is required by building codes.

**MAXIMUM SIZE:**

SIZE	NEGATIVE PRESSURE	POSITIVE PRESSURE
SINGLE	4/0 X 9/0	4/0 X 9/0
PAIR (STANDARD)	8/0 X 9/0	8/0 X 8/0
PAIR (DOUBLE EGRESS)	8/0 X 9/0	8/0 X 8/0
DOOR/TRANSOM COMBINED	4/0 X 9/0	4/0 X 9/0
DUTCH DOOR	4/0 X 8/0	No
FULL LITE	Yes	Yes

\*Please contact our customer service department for latest revisions on Positive Pressure requirements.

Our Doors can be manufactured to comply with UBC Standard 7-2-97 Positive Pressure requirements. Pairs of doors must have intumescent inserted at the leading edge. Single doors require no intumescent.

**THICKNESS:** 1-3/4".

**S-SMOKE LABEL AVAILABLE WITH AN APPROVED GASKET SYSTEM.**

**CONSTRUCTION:** Typical 5-ply architectural-grade construction. Mohawk utilizes Polyvinyl Acetate technology.

**FACES:** 2-ply wood veneers in Premium (A and AA), Good (B), book or slip matched for balanced, center, and running assemblies. Door skins are 1/8" and face veneers are minimum 1/50" thick. The 2-ply architectural-grade door faces are hot-pressed with hardwood veneer crossbanding. No synthetic or composite materials are used in our crossband assembly.

**GRADES:**

Custom—standard.

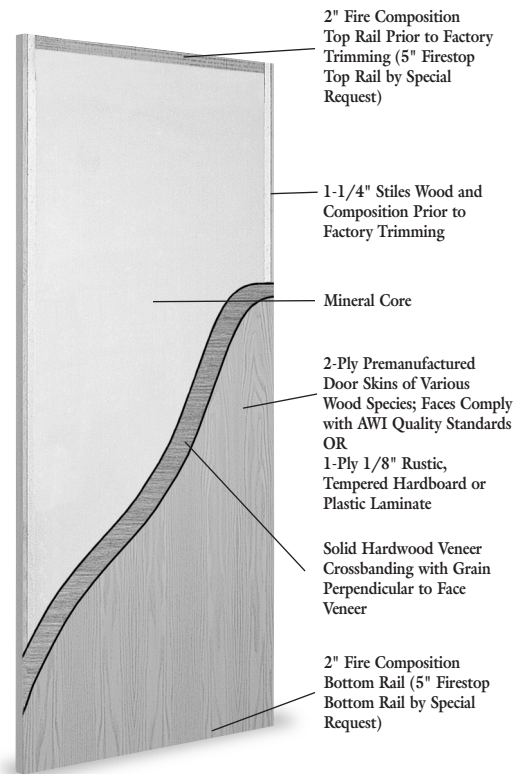
Premium—available by special request, extended lead times for AA faces.

**Stock species for immediate manufacturing :** Rotary Natural Birch, Rotary Select White Birch, Plain Sliced Red Oak, Rift Red Oak, Plain Sliced Natural Maple, Plain Sliced Select White Maple, Plain Sliced American Black Cherry, Plain Sliced Honduras Mahogany, Tempered Hardboard, and Medium Density Overlay. **The following species available with an extended lead-time:** Plastic Laminate, Plain Sliced Walnut, Plain Sliced American Beech, Plain Sliced Natural Ash, Plain Sliced Red and White Birch, Bird's Eye Maple, Rotary Oak, Plain Sliced Poplar, Plain Sliced Sapele, Rotary White Oak, and Santos (Rosewood). Other species available by special request.

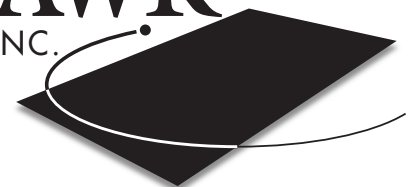
**1-PLY PLASTIC LAMINATE:** Faces from Formica, Nevamar, and Wilson-Art. Pionite available by special request (lead-time and price will vary).

**1-PLY: TEMPERED HARDBOARD** Modulus of rupture 8500 PSI. Meets or exceeds ANSI/AHA-135.4 1982 Standards.

**1-PLY: RUSTIC** Modulus of rupture 5700 PSI. Meets or exceeds ANSI/AHA-135.4 1982 Standards.



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## 5-Ply Specifications

**CORE:** Noncombustible non-asbestos mineral core engineered to meet label requirements. Stiles and rails are bonded to core using a hot melt glue process and then sanded to ensure even thickness and minimal telegraphing of core and stile parts through veneers.

**STILES:** No intumescent required in stiles of door or on frame. Hardwood or matching stiles. 2-ply stile construction 9/16" untreated wood edge strip bonded to a 1" inner banding of gypsum and wood fibers. Maximum wood thickness after trimming is 3/16". Results of test data: Screw-holding capacity TM-10, 1130.4 load lbs. at failure, Split Resistance, TM-5, 847.9 load lbs. at failure, Cleavage ASTM D143-83, 931.5 load lbs. at failure, slam test 350,000 cycles no failure. Matching veneer edge by special request. All dimensions prior to factory trimming and prefitting.

**RAILS:** No intumescent required in top rail of door or on frame. Top and Bottom Rails are 2" composition material. All components bonded to core. 5" Fire Composition top and/or bottom rail by special request. All dimensions prior to factory trimming and prefitting.

**OPTIONAL LOCKBLOCKS:** 5" x 18" Fire Composition lockblocks by special request.

**ADHESIVE:** Polyvinyl Acetate (PVA) Type I adhesive is standard. Type I adhesive is a waterproof glue and must withstand the bond test described in W.D.M.A. I.S. 1A-97 T.M. 6 specifications.

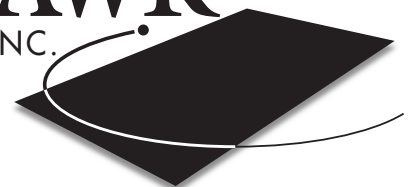
**FACTORY PREFINISH:** Our Premium 2000 Prefinish is a 12-step operation performed on a 540-ft. prefinish line, which is one of the most sophisticated and advanced prefinishing systems in use throughout the industry. The finish is totally environmentally safe using a combination of water-borne acrylics, ultraviolet sealers, and topcoats, all of which are formaldehyde-free. This line addresses all of the negative properties of water-borne finishes. The prefinish process is applied to all 6 sides of the door, sealing it completely. These doors are prefinished in an in-plant environment by skilled personnel, eliminating all of the field finishing problems. We offer 8 standard polyurethane (equivalent) stain finishes: (TR-6) Clear, Teak, Red, Brown, Dark Brown, Mahogany, Gray, and Walnut. We have 2 standard polyurethane (equivalent) paint finishes: (OP-6) White 2071 and L4000. If our wide color range of standard finishes does not meet your requirements, we will custom color-match your choice of stain or paint.

**RUSTIC:** An embossed tempered hardboard face with a modulus of Rupture of 5700 PSI. Meets or exceeds ANSI/AHA – 135.4 1982 Standards. Prefinished on our 540-ft prefinish line with a 9-step application to capture the rich inherent beauty of Walnut and Oak veneers. Available in 8 decorator tones: Lite Oak, Oak, Golden Oak, White, Walnut, Classic Gray, Classic Mahogany, and Classic Autumn Oak. Rustic gives you a durable problem-free prefinished door at substantial savings compared to wood-veneered doors.

**PRIMING:** White standard color. Custom colors by special request. 3 coats of water-based acrylic materials are applied to faces. An equal application of priming material is applied to stiles. Top and bottom rails are clear-coated. Priming is not a sealer. Doors must receive paint manufacturer's recommended sealer coats applied equally to all 6 sides of doors.

**MAXIMUM LITE SIZE OPENINGS:** Negative and Positive Pressure 36" x 54". Light cut-outs shall be no closer than 5-1/2" from edge of door or hardware cut-out. Light must be glazed with a minimum of 1/4"-thick listed wire glass and installed in a Positive Pressure-approved light frame, per NFPA 80 and UBC 7-2-97. All measurements are from edge of cut-out. Cut-out areas over half of the length of the door must be at least 8" from edge of door and 5-1/2" from edge of hardware cut-out. For Negative Pressure, clear glass is available. Contact our customer service department for these options. Special light approvals for Positive Pressure are Swissflam N2 (2397 square inches) and Keralite Plus (1680 square inches). Positive Pressure Pilkington 1/4" wire glass is 960 square inches in individual lights, 1920 square inches in multiple lights. Full light kits are available in singles and pairs as long as they stay within maximum allowable square inches.

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**MACHINING:** All fire door assemblies must be prepared in accordance with the NFPA 80 Par. 1-9.5 which states that all machining must be done under a labeling service except machining for surface-applied hardware with cut-outs less than 1" in diameter, function holes for mortise locks, holes for labeled viewers. All hardware and applications must be listed and approved. Field fitting is not permitted.

<b>MACHINING</b>	<b>NEGATIVE PRESSURE</b>	<b>POSITIVE PRESSURE</b>
<b>HINGES</b>		
Leaf	Yes	Yes
Continuous	Yes	Yes
Pivot	Yes	No
Spring	Yes	Yes
<b>LATCHING OPTIONS</b>		
Single Swings	1 or 2 Point	1 or 2 Point
Pairs	2, 3, or 4 Point	2, 3, or 4 Point
Electric Strikes	Yes	Yes
<b>LATCHSETS</b>		
Mortise	Yes	Yes
Cylindrical	Yes	Yes
Card	Yes	Yes
Dead Bolts	Yes	Yes
<b>FLUSHBOLTS</b>		
Surface	Yes	Yes
Mortised	Yes	Yes
<b>FIRE EXIT HARDWARE</b>		
Rim	Yes	Yes
Mortise	Yes	Yes
Surface Vertical Rod	Yes	Yes
Concealed Vertical Rod	Yes	Yes
<b>LESS BOTTOM ROD</b>		
SVR	Yes w/Thermal Pin	Yes w/Thermal Pin
VR	Yes w/Thermal Pin	Yes w/Thermal Pin
<b>CLOSERS</b>		
Mortised	Limited	No
Surface	Yes	Yes
Power-Operated	Yes	Yes
<b>EDGE GUARDS</b>		
Flush	Limited	Limited
Mortised	Limited	Limited
<b>VIEWERS</b>		
	Yes	Yes
<b>RACEWAY</b>		
	Yes	Yes
<b>POWER TRANSFERS</b>		
	Yes	Yes



## MISCELLANEOUS OPTIONS

OPTION	NEGATIVE PRESSURE	POSITIVE PRESSURE
Plant-On Molding	Yes	Yes
Face Grooves	Yes	Yes
Louvers	No	No
Kick Plates (Up to 48")	Yes	Yes

\*Please contact our customer service department for the latest revisions on Positive Pressure requirements.

**APPLIED DECORATIVE DOOR MOLDING:** The applied molding designer series takes the flush door to a new level of fine millwork at a fraction of the cost of stile and rail door products. We offer 7 standard molding profiles and 4 standard plant-on configurations. (Refer to our brochure for standard layout configurations.) Your design options do not stop here, as we will custom-design your choice of molding profiles and layouts. Our standard species is basswood; however, we will match face veneers by special request. Our standard sizes are M1 – 5/8" x 3/8", M2 – 1-1/8" x 9/16", M3 – 1-3/8" x 5/8", M4 – 1-3/4" x 3/4", M5 – 1-3/8" x 5/8", M6 – 1-1/2" x 3/8", and M7 – 1-3/4" x 3/4". Maximum width is 2-1/2", maximum height is 3/4". Multiple pieces may be used provided the pieces are separated with a space between the pieces no less than the width of the individual piece. Applied with adhesive and/or mechanical fasteners with a maximum penetration into the door 3/4", spaced not more than 2" on center. Must be a minimum of 4" from edge of door or light. Maximum area of molding not to exceed 22% of area of door, i.e., 3/0 x 7/0 door area = 36 x 84 = 3024 square inches. 22% = 665.3 square inches for 1-1/2" wide molding. Maximum usage 665.3 divided by 1.5 = 443.5 inches = 37 feet of molding. All applied molding must be factory-applied or applied by a licensed WH1 or UL Shop.

**DUTCH:** Maximum size 4/0 x 8/0. Single swing only; Negative Pressure doors only. Shelves may be applied to one or both sides. Dutch doors shall be provided with one of the following: an overlapping astragal applied to bottom edge of top leaf; a rabbetted bottom rail of top leaf and top rail of bottom leaf; or intumescent installed in bottom of top leaf. Machining for hinges per NFPA 80. Cylindrical latch sets—one (maximum 2-1/8" bore) per leaf to provide latching top and bottom leaves or between either top and bottom leaf into frame.

**TRANSOMS:** Maximum width of transom 48", maximum height of transom 40". Single swing locations only. End matched or continuous matched transoms. Maximum size of door and transom combined is 4/0 x 9/0. Transom panels may be used with or without a transom bar for Neutral Pressure assemblies. When Positive Pressure is required, transom bars must be used. Maximum door and transom combined is 4/0 x 9/0. Transom assembly without a transom bar: top rail of door and bottom rail of transom panel must have one-piece G.P. Firestop interior blocking with a minimum of 5" x 1-1/2" thickness. Other construction of transom can be similar to that of 45-minute fire-rated door. Other construction of 45-minute fire-rated door remains unchanged. Panel shall be machined for spring bolts. Standard rabbet size is 1/2" x 7/8". Assembly described above may be used without rabbetted joint by having wrap-around metal edges at bottom rail of transom and top rail of door, along with an astragal. With transom bar: transom panel construction must be the same as that of 45-minute fire-rated door except that bottom rail of transom should be only as wide as top rail of door. Transoms constructed for use with a transom bar cannot be used with wrap-around metal edges and astragal replacing transom bar. Manufacturer of transom panel shall machine for steel spring bolts and they shall be shipped with transom panel. Only Stanley #1697 or Lawrence #142 or equivalent spring bolts shall be used.

**SAMPLE TRANSOM PANEL INSTALLATION INSTRUCTIONS:** Transom panel MUST be used in a rated frame. Transom panel must be attached to frame with steel spring bolts. Steel spring bolts must be installed on stile edges of transom panel no more than 6" from each corner with the following number used per edge:

Up to 18" in height .....2 spring bolts

Up to 36" in height .....3 spring bolts

Holes shall be drilled into frame to accept each spring bolt. Maximum clearances between transom panel and frame shall not exceed 1/8". Approved type steel spring bolts shall be Stanley #1697, Lawrence #142 or equivalent. Any other method of attachment must have prior written approval from Warnock Hersey International, Inc. See illustration on page OP 3.

**MOPAK:** Mopak is a tough, transparent polyethylene film protecting the door from scratches, dust, and handling marks, standard on all prefinished doors. Available by special request on unfinished doors.

**LIMITED WARRANTY:** Life of installation.

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