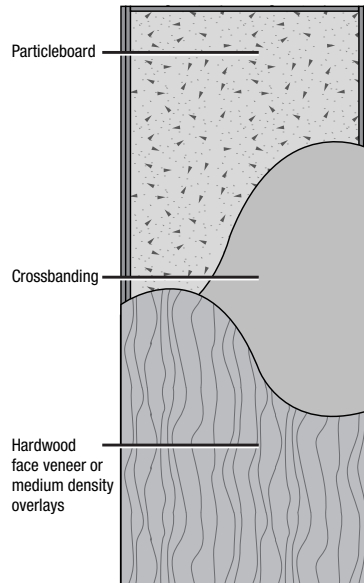


PC-5 Novodor® FD 1/3 Hour

(Neutral or Positive Pressure)



Algoma's Novodor is an architectural door made with a particleboard core.

Solid lumber outer stiles, along with Structural Composite Lumber (SCL) rails and inner stiles, are securely bonded to the core under side pressure.

To ensure strength, rigidity and freedom from telegraphing of core parts, this bonded core is then sanded before **hot pressing** a crossband and face on each side of the core assembly. This makes the highest quality assembly for fine hardwood veneers and composite overlays for solid color finishes.

Algoma uses only the better of two grades of particleboard

conforming to ANSI Standard A208.1-1993, Type 1, Grade LD-2 with face screw holding power of 124 pounds, modulus of rupture of 725 psi, modulus of elasticity of 148,700 psi and density of 30–32 pounds per cubic foot.

Algoma uses only face veneers at least 1/50" (0.5mm) thick at 12% moisture content.

Positive Pressure Note: Algoma recommends using Category B 1/3 hour single swing doors. Please refer to Positive Pressure in Product Features Detail Section below. The selection of Category B 1/3 hour doors will offer cost savings and no aesthetic compromise.

Product Features

Thickness	3/4" (44mm) available FD 1/3 hour labeled. 1 1/8" (35mm) available FD 1/3 hour labeled, neutral pressure only.
Maximum size	Available prefit up to 4'0" x 10'0" (1219 x 3048mm); Category B: 4'0" x 9'0" (1219 x 2743mm). In FD 1/3 hour, 4'0" x 10'0" is maximum for singles and 8'0" x 10'0" (2438 x 3048mm) pairs. Also available in double egress pairs up to 8'0" x 9'0".
Stiles (Edge bands)	1 3/8" (35mm) prior to factory trimming, glued to core. CE-compatible edges standard. ME—same species available.
Special edge treatments	To reduce edge damage, polymer edges with FD 1/3 hour label available.
Top & bottom rails	7/8" (22mm) prior to factory trimming, glued to core; Structural Composite Lumber (SCL).
Core	Conforms to ANSI A208.1-1993, GRADE LD-2 covering mat-formed particleboard with face screw holding power of 124 pounds, modulus of rupture of 725 psi, modulus of elasticity of 148,700 psi and density of 30–32 pounds per cubic foot.
Reinforcement	Reinforced top and/or bottom rails are available to eliminate the need for through-bolting when installing closers or holders. Note: Screws must penetrate doors a minimum of 1 1/2". Please see Hardware 5 and 13 for PC-5 reinforcement options.
Crossbands	1/16" (1.6mm) minimum wood-based composite.
Faces	All foreign and domestic species, medium density overlay (MDO) and most low sheen .050 thickness High Pressure Decorative Laminates. Faces are a minimum of 1/50" (0.5mm) at 12% moisture content. All faces to be per WDMA I.S.1-A face grades unless otherwise specified.
Adhesive	Doors constructed using water-resistant adhesives (Type 1).
Veneer matching	Available in pairs, sets or matching transoms.
Details	Standard lites and louvers available not to exceed 40% of door area and 54" (1372mm) in length. Maximum glass opening on FD 1/3 hour doors is 1,296 sq. in. (0.836m ²) with wood beads and clips or metal vision panels. Applied mouldings, quirks, and divided lites also available. Larger lites available with special glazing. (Contact Algoma for positive pressure approvals.) See Details 11 and 12.
Machining	Available with hinge and lock machining as well as rabbets, holders, drop seals, pivots, etc.
Finishing	Available in finishes with performance characteristics equivalent to AWI System TR-6, standard or custom colors. Also available primed four sides, painted, or sealed top and bottom. Opaque finish (OP-6) on medium density overlay only.
Warranty	For interior, full warranty for life of original installation. For exterior, see warranty.
Standards met or exceeded	WDMA I.S.1-A Series, ARCHITECTURAL WOOD FLUSH DOORS. Architectural Woodwork Quality Standards Section 1300, Architectural Flush Doors and Section 1500, Factory Finish.
Special services	Provides STC rating of 28 when supplied with gasketing. Provides detention security rating of Grade #40 with ASTM Impact Test F 476.
Positive Pressure	Category A: Singles and pairs have intumescent built into the door, and no additional fire seals are required. If smoke and draft control doors are also required, then a category H seal must be applied to the frame. Category B: Singles and pairs require a category G edge seal applied to the frame. Pairs also require a category G edge seal applied to one of the meeting edges.

PC-5 Novodor® FD 1/3 Hour

COLUMN	1	2	3
LABEL	ITS/WHI	UL	UL & ITS/WHI AHI FD 1/3 Hour Door/Transom
FEATURE			
MAXIMUM OPENING SIZE	Singles: 4'0" x 10'0" (1219 x 3048mm). Pairs: 8'0" x 10'0" (2438 x 3048mm). Double egress 8'0" x 9'0" (2438 x 2743mm). Pairs over 8' need metal edge guards. (Positive pressure not available.)	Singles: 4'0" x 10'0" (1219 x 3048mm); Category B: 4'0" x 9'0" (1219 x 2743mm). Pairs: 8'0" x 9'0" (2438 x 2743mm), neutral and positive pressure, including double egress. With listed concealed rods:	Total Opening: 4'0" x 11'0" (1219 x 3353mm). ITS/WHI Opening: 4'0" x 10'0" (1219 x 3048mm). Door: 4'0" x 8'0" (1219 x 2438mm). Transom: 4'0" x 4'0" (1219 x 1219mm).
FACES	Wood veneer or medium density overlay.	All foreign and domestic species, medium density overlay (MDO) and most low sheen .050 thickness High Pressure Decorative Laminates. Faces are a minimum of 1/50" (0.5mm) at 12% moisture content. All faces to be per WDMA I.S.1-A face grades unless otherwise specified	
STILES (VERTICAL EDGES) AND RAILS	All doors have either same species or compatible outers. Up to 13 1/2" (343mm) bottom rails allowed. Plastic laminate edges after faces. Not allowed.	24" x 24" (610 x 610mm). Minimum 5"	Door/transom rabbeted 1/2" x 1/8" (13 x 22mm).
MAXIMUM WOOD VENEERED BEADED LITE	1296 sq. inches (0.836m ²). Maximums: 30" (762mm) width, 54" (1372mm) length. Larger lites available with special glass and approval of AHJ (authority having jurisdiction). Contact Algoma for positive pressure approvals.		
MAXIMUM METAL VISION PANEL (Visible glass)	1296 sq. inches (0.836m ²). Maximums: 30" (762mm) width, 54" (1372mm) length. Larger lites available with special glass and approval of AHJ (authority having jurisdiction). Contact Algoma for positive pressure approvals. 1 3/8" 20 minute doors limited to 100 sq. in. (0.065m ²) metal vision panels only.		
MAXIMUM LOUVER SIZE (Not allowed with vision panel, exit devices, or smoke control doors)		(127mm) from edge and 10" (203mm) from bottom. Neutral pressure only.	Not allowed.
HINGES Note: Per NFPA 80 some specialty hinges allowed. Contact Algoma for information.	Ball bearing steel mortised, half or full surfaced 4 1/2" x 4 1/2" x .134" (114.3 x 114.3 x 3.4mm) to 10'0" (3048mm). Listed surface type or LCN using #420	Ball bearing steel mortised, half or full surfaced 4 1/2" x 4 1/2" x .134" (114.3 x 114.3 x 3.4mm) to 10'0" (3048mm). UL listed spring hinges 4 1/2" x 4 1/2" x .134". UL listed surface type. Concealed closer arms	Ball bearing steel mortised, half or full surfaced 4 1/2" x 4 1/2" x .134" (114.3 x 114.3 x 3.4mm) to 10'0" (3048mm). UL listed spring hinges 4 1/2" x 4 1/2" x .134".
LOCKSETS	All listed cylindrical, mortised, unit, card, and hospital push/pull to 5" (127mm) backset.		
PIVOTS	Top, intermediate & bottom must be listed offset. Rixon's #180, 280, 380, 480, FM19, 219, T117, T117 1/4, Unichecks 65 thru 68, or equal. Others as approved, including pocket pivots.	Half or full mortised; top pivots not allowed unless frame is equipped with a fixed transom bar.	
CLOSERS	Fireshield or Norton with Fire Block Liner #790, or Yale with Fire Block Liner #450. Singles: Mortised, rim or surface vertical rods. Pairs: Rim (with mullion) or surface vertical rods. Double egress allowed.	and stops can be mortised in the top rail as long as the dimensions do not exceed 1 3/8" wide x 1 3/4" deep x 25" long. Singles: Mortised, rim, or surface vertical rods. Pairs: Mortised lock and strike, rim, surface or concealed vertical rods. Double egress allowed.	UL listed surface type.
FIRE EXIT HARDWARE (Allowed with vision panel if non-interfering)	Listed surface or mortised door bolts. Manual, self-latching or automatic as codes allow.	Listed for use with wood doors. Surface or mortised door bolts. Manual, self-latching or automatic as codes allow.	Singles: Mortised, rim or surface vertical rods. Pairs: Not available.
OTHER PAIR HARDWARE	Not allowed		
Maximum trim: 3/4" with standard rail. Door Bottoms: Max size 1"x1 1/16" listed surface or concealed. Viewers: ITS/WHI up to 1" (25mm); UL up to 1" (25mm).	Edges: Polymer edges allowed where edge damage is likely. Astragals and edge guards: Must be supplied and cut for hardware under label service.	Wood Frames: FD 1/3 Hour doors can be installed with 1/3 hour wood frames. Electric Raceway: Available with label on all doors.	