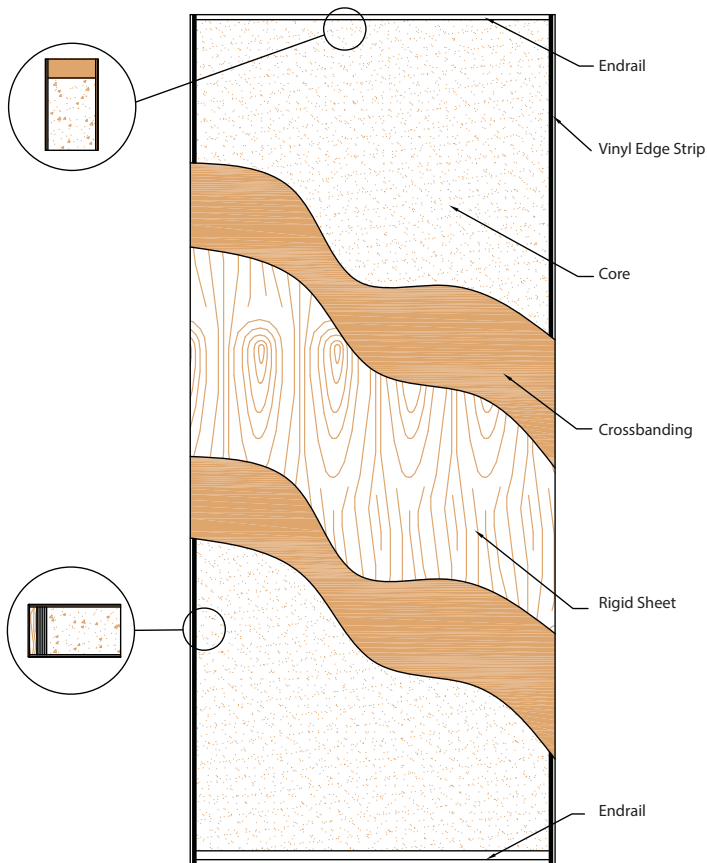


Palladium® Doors by Eggers



- Fully clad, high quality doors from Eggers Industries using InPro's durable rigid sheet material
- Provides superior impact protection against heavy abuse to doors
- Choose from flush Palladium Doors or Palladium Doors with a removable edge
- Contact Eggers Industries at sales@eggersindustries.com or call 920-722-6444 for more information or to order
- Both Rigid Vinyl Sheet and G2 BioBlend® Sheet are GREEN-GUARD Indoor Air Quality and Children & Schools Certified

IPC636/REV.4

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Palladium® Doors by Eggers

Suggested Specifications

PART 1 GENERAL

1.1 SECTION INCLUDES

Wood doors non-rated and fire-rated (Choose applicable elevations).

- A. Flush
- B. Glazed
- C. Louvers
- D. Transoms non-rated and fire-rated
- E. Neutral and Positive Pressure rated fire doors
- F. Dutch doors

Edit the listing of related sections to fit your project requirements.

1.2 RELATED SECTIONS

(List only the following sections that have a direct bearing on this section)

- A. Section 06200 - Finish Carpentry
- B. Section 06400 - Architectural Woodwork
- C. Section 08100 - Metal doors and frames
- D. Section 08210 - Stile and rail wood doors
- E. Section 08700 - Finish hardware
- F. Section 08800 - Glazing
- G. Section 10200 - Louvers

List standards referenced in this section, complete with designations and titles.

1.3 REFERENCES AND REGULATORY REQUIREMENTS

- A. NFPA 252 - Standard Methods for Fire Assemblies.
- B. UBC 7-2, 1997
- C. UL 10 (b) - Fire Tests for Door Assemblies - Neutral Pressure
- D. UL 10 (c) - Fire Tests for Door Assemblies - Positive Pressure
- E. NFPA 80 - Fire Doors and Windows.
- F. Quality Standards:
 - 1. WDMA Industry Standard I.S. 1-A-04 (Window and Door Manufacturers Association)
 - 2. AWI Quality Standards 8th Edition, Version 2.0 2005
 - 3. WI Manual of Millwork, 11th Edition, 2003
 - 4. ANSI A115. W Series, Wood Door Hardware Standards. (American National Standard Institute)
 - 5. LEED 3.0

Door Construction [recommendation for maximum LEED contributions]

Core [choose one]:

- A. FSC particleboard core conforming to ANSI 208.1 LD-2 LEED Credits MR 4, MR 7, EQ 4.4
- B. FSC stave core LEED Credits MR 4, MR 7, EQ 4.4
- C. Agrifiber Core. LEED Credit MR 4, MR 6 and EQ 4.4

Stiles: Exposed surface vinyl banded or solid lumber painted to match face material. Edge strips bonded to core. No added urea-formaldehyde in wood components and adhesives. LEED Credit EQ 4.4

Removable Edges: Screw attached to edge of door and vinyl clad.

Top and Bottom Rails: Mill option hardwood or SCL glued to core. 5", 8" and 12" optional. No added urea-formaldehyde in wood components and adhesives. LEED Credit EQ 4.4

Crossbanding: high-density fiberboard with no added urea-formaldehyde or sound hardwood veneer. LEED Credit EQ 4.4

Adhesives: Glue lines for assembly between the plies of face, crossbanding and core are to be Type 1 polyvinyl acetate (PVA) or catalyzed ethylene vinyl acetate (EVA). LEED Credit EQ 4.4

Face Material: IPC EnviroGT non-PVC face and edge cladding

H. Labeling Agencies

- 1. Underwriters Laboratories, Inc. (UL) (Neutral pressure and positive pressure rated doors)

1.4 SUBMITTALS

- A. Submit under provisions of AWI Section 01300.

Edit the product listings as required for your project.

B. Shop drawings: Illustrate door opening criteria, elevations, sizes, types, swings, undercuts, special beveling, blocking for hardware in mineral core doors, identify cutouts.

C. Indicate compliance with positive pressure.

D. Product Data: eiDOORS (Eggers-InPro-High Impact Protection). Indicate door core materials, thickness, con-

struction, InPro Vinyl Clad face material [Vinyl color code and name].

- E. Construction samples: Submit one or more of manufacturer's standard samples demonstrating door construction.
- F. Manufacturer's full lifetime warranty

1.5 QUALITY ASSURANCE

- A. Meet or exceed WDMA I.S.1-A Performance Standards (Heavy Duty)
- B. Labeled Doors: Listed and conform to the requirements of:
 - 1. Underwriters Laboratories (UL).

1.6 DELIVERY STORAGE AND HANDLING AND SITE CONDITIONS

- A. Deliver, store, protect and handle products under provisions of WDMA and manufacturer's care and handling instructions.
- B. Accept doors on site in manufacturer's standard packaging. Inspect for damage. Do not store in damp or wet areas. HVAC systems should be operating and balanced prior to arrival of doors. Acceptable humidity shall be no less than 25% nor greater than 55%.
- C. Face material may be light sensitive. Protect doors from exposure to natural and artificial light after delivery.

1.7 COORDINATION

- A. Coordinate work under provisions of Section 01620.
- B. Coordinate the work with door opening construction, door frame and door hardware installation with a pre-installation conference.

1.8 WARRANTY

- A. Provide manufacturer's warranty to the following term:
 - 1. Interior Solid Core Doors: "Full Life of Original Installation" including rehanging and refinishing if door(s) do not comply with warranty tolerance standards.
 - 2. Include coverage for delamination, warping, bow, cup and telegraphing of core construction beyond warranty tolerances.

PART 2. PRODUCTS

2.1 MANUFACTURER

- A. Eggers Industries, 5-ply pressed door quality as defined in this section.

- B. No substitutions.

2.2 MATERIALS

A. WORKMANSHIP

Comply with WDMA workmanship for faces, vertical edges, crossbands, horizontal edges and dimensional tolerances.

B. DOOR CONSTRUCTION GRADE

Except as may be otherwise shown on the drawings fabricate the work of this section to WDMA "Custom Grade" for PC 5 pressed doors.

C. FLUSH DOOR FACING

- 1. Vinyl Clad: [IPC Rigid Vinyl Sheet (Rigid PVC) or IPC Enviro GT (non-PVC), 0.040 face thickness, pattern, and color]

Specify sections F and G per project requirements. See WDMA A-4 or AWI Section 1300 G14 and G15.

D. DOORS IN PAIRS OR SETS

- 1. Door schedule shall reflect pairs and sets by door numbers, including doors separated by a mullion.

E. DOORS WITH TRANSOMS [Choose One]

- 1. Continuous Match [standard unless otherwise noted]
- 2. End Match

2.3 FABRICATION

A. DOOR AND TRANSOM PANEL CORE CONSTRUCTION

Specify per project requirements. Choose One construction and One pressure option, if applicable, from items 1-3.

- 1. All constructions to include: Bond stiles and rails to core, abrasive sand core assembly to achieve uniform thickness. Crossband to be minimum 1/11th high density fiberboard
- 2. Non-rated: ANSI A208.1
 - LD-2 Particleboard, PB (standard, no-urea formaldehyde, or FSC);
 - Structural Composite Lumber; SCL
 - Kiln Dried Staves with one species per core SLC (standard or FSC)

- 3. 20-minute fire-rating: ANSI A208.1

- Neutral Pressure
- Positive Pressure: Category A (concealed intumescent) [or] Category B (frame mounted edge seal)
 - LD-2, Particleboard; PB (standard, no urea formaldehyde, or FSC)
 - Structural Composite Lumber; SCL-20
 - Kiln Dried Staves with one species per core; SLC-20 (standard or FSC)
- 4. 45-, 60- or 90-minute mineral core fire-rated (not available with removable edge):
 - Neutral Pressure
 - Positive Pressure: Category A (concealed intumescent) [or] Category B (frame mounted intumescent)

Modify or omit this listing to meet your project requirements. Specify STC rating required.

- 5. Acoustical: The Sound Transmission Class (STC) specified shall be certified by the manufacturer to be based on tests conducted at an independent testing agency in accordance with ASTM E90-90 and E413-87. Earlier tests not acceptable. Door may be fire labeled if specified. [STC Ratings 27-43 available] (Sound test report available for fixed edge construction only)

Modify or omit this listing to meet your project requirements. Specify total lead thickness required.

- 6. Lead Lined: LL [] inch ([] (mm) thick sheet lead. LL-20 min.

Modify or omit this listing to meet your project requirements.

B. Optional Lite, Louver and Astragal Details:

- 1. Lite openings shall be furnished with wood lite beads, painted to match the face.
- 2. Louvers in non-rated doors shall be wood, painted to match the face. Wood louvers shall be manufacturer's standard construction. Louvers shall be made with matching lumber to the door face and be factory installed. Wood louvers shall be [Choose one] Single slat or V-slate chevron.
- 3. For pairs of fire doors where no metal meeting edges are desired, specify "No Metal Meeting Edges Accepted." Metal astragals or edge sets for pairs of fire doors to be formed and pre-machined.

C. VERTICAL EDGES (STILES)

- 1. Matching Edges to match face material; edges applied after face
- 2. 20-minute rated pairs do not require metal edges or astragal
- 3. Removable edge option (available on non-rated and 20 minute doors only)
 - A. Removable replaceable edge on hinge and lock stiles to be 7/16 non- visible at door frame stop.

Specify per project requirements. Choose One construction and One pressure option for items 4 and 5, as needed.

4. Mineral Core

Mineral core door stiles to be manufacturer's standard edge for improved screw holding and fire rating.

- Singles: vinyl edge banding to match face; edges applied after face
- Pairs: vinyl edge banding to match face vinyl over manufacturer's edge for improved screw holding. Edges applied after face
- As required by manufacturer to meet Positive Pressure Category A (concealed intumescent) or B (frame mounted intumescent).

D. HORIZONTAL EDGES (RAILS)

Mill option structural composite lumber or hardwood lumber no exposed intumescent.

E. ADHESIVES

- 1. Face Adhesive: Type 1

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Suggested Specifications

F. INNER BLOCKING FOR AGRIFIBER AND MINERAL CORE DOORS

Supply inner blocking for all surface applied hardware - Through bolts not accepted.

G. MACHINING

Factory fit and machine doors for frame and finish hardware in accordance with hardware and NFPA 80 requirements and dimensions. Do not machine for surface hardware. Apply appropriate fire labels.

Modify or omit this listing to meet your project requirements. If applicable, choose one.

H. DUTCH DOORS TYPE:

1. One side shelf
2. Two side shelf
3. 20-minute shelf
4. No shelf

2.4 ACCESSORIES

Modify or omit this listing to meet your project requirements. If applicable, choose One.

A. LOUVERS

1. Wood louvers as detailed on the elevations.
2. Louvers to be furnished by the door manufacturer.
3. Metal Louvers: Specified in Section 10255.

Specify per project requirements. Choose item 1 or item 2, and one construction option.

B. GLAZING STOPS

1. Non-Rated:

- Wood, painted or stained to match door face
- Metal Vision Frames

2. Fire-Rated:

- Flush, veneer wrapped bead, painted to match face
- Metal Vision Frames

Verify compatibility of glazing system with positive pressure requirements.

Adjust top rail on full glass doors to accept hardware so that no hardware is visible in daylight opening.

STC doors with light kits shall be factory glazed to maintain rating & warranty

Labeled fire rated doors to be factory glazed to comply with NFPA 80

Modify or omit this listing to meet your project requirements. Choose one option for item 1.

C. MEETING EDGES FOR PAIRS OF FIRE RATED DOORS

1. Metal edge and astragal or metal edges [or] On fire rated pairs, no metal meeting edges allowed
2. Manufacture doors whereby the opening will not require either an overlapping metal edge and astragal or metal meeting edges. (Special hardware requirements apply).
3. Meeting edge complies with Positive Pressure requirements for Category A, Category B, or Neutral pressure applications [Choose One]

Modify or omit this listing to meet your project requirements. Choose one option between A-E. Refer to www.eggserindustries.com or Eggers Standard Color Finish Portfolio for color guides. Consult an Eggers representative for custom color options.

PART 3. EXECUTION

3.1 EXAMINATION

- A. Verify that opening sizes and tolerances are acceptable and ready to receive this work.
- B. Do not install doors in frame openings that are not plumb or are out of tolerance for size or alignment.
- C. Use three hinges for doors 7'-6" in height or less and one additional hinge for each incremental 30 inches of height over 7'-6"

3.2 INSTALLATION

A. Install fire-rated and non-rated doors in accordance with applicable NFPA 80, Manufacturers' instructions and to UL requirements.

B. Trim door height by cutting bottom edges by a maximum 3/4 inch (19-mm).

C. Trim fire door height at bottom edge only, in accordance with fire rating requirements. Allow a maximum clearance of 1/8" at each side and at top of door.

D. Do not trim doors for width.

Choose one option for sections F and G, or omit this listing to meet your project requirements.

E. Pilot drill screw and bolt holes using templates provided by hardware manufacturer [or] select pilot holes to be factory drilled.

F. Exercise caution when drilling pilot holes and installing hinges to ensure pilot holes are not over-drilled and screws are not over-torqued. Do not use self-drilling or combination screws to attach hardware. Follow Manufacturer's installation instructions.

G. Coordinate installation of doors with installation of frames and hardware

H. Coordinate installation of glass and glazing.

I. Install door louvers and light kits plumb and level.

J. Reseal or refinish any doors that required site alteration.

3.3 WARRANTY TOLERANCES

Conform to WDMA standards and testing methods for warp, cup, bow and telegraphing.

3.4 ADJUSTING

A. Adjust work under provisions of Section [_____].

B. Adjust doors for smooth and balanced door movement.

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