

**SECTION 08 14 00
INTERIOR VINYL CLAD WOOD DOORS**

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Interior flush vinyl clad wood doors.

1.2 RELATED REQUIREMENTS

- A. Door Hardware including hardware location (height): Section 08 71 00, DOOR HARDWARE.
- B. HOLLOW METAL DOORS AND FRAMES: Section 08 11 13
- C. Glazing: Section 08 80 00

1.3 APPLICABLE PUBLICATIONS

- A. Comply with references to extent specified in this section.
- B. American National Standards Institute/Window and Door Manufacturers Association (ANSI/WDMA):
 - 1. I.S. 1A-13 - Architectural Wood Flush Doors.
- C. ASTM International (ASTM):
 - 1. E90-09 - Laboratory Measurements of Airborne Sound Transmission Loss of Building Partitions and Elements.
- D. Window and Door Manufacturers Association (WDMA):
 - 1. TM 7-14 - Cycle-Slam Test.
 - 2. TM 8-14 - Hinge Loading Test.
 - 3. TM 10-14 - Screw Holding Capacity.
 - 4. WDMA Industry Standard I.S. 1-A-04(Heavy Duty)

1.4 SUBMITTALS

- A. Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Submittal Drawings:
 - 1. Show size, configuration, and fabrication and installation details.
 - 2. Include details of glazing.
 - 3. Indicate project specific requirements not included in Manufacturer's Literature and Data submittal.
- C. Manufacturer's Literature and Data:
 - 1. Description of each product.
- D. Samples:

1. Corner section of flush vinyl clad door 300 mm (12 inches) square, showing details of construction including removable replaceable edge, labeled to show conformance to specified standards.

E. Test Reports: Indicate products comply with specifications.

1. Screw Holding Capacity Test.
2. Cycle-Slam Test.
3. Hinge-Loading Test.

F. Maintenance Data:

1. Care instructions for each exposed finish product.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications:

1. Regularly and presently manufactures specified products.
2. Manufactures specified products with satisfactory service on five similar installations for minimum five years.

1.6 DELIVERY

A. Deliver products in manufacturer's original sealed packaging.

1. Minimum 0.15 mm (6 mil) polyethylene bags or cardboard packaging to remain unbroken during delivery and storage.

B. Mark packaging, legibly. Indicate manufacturer's name or brand, type, color, and manufacture date.

1. Identify door opening corresponding to Door Schedule.

C. Before installation, return or dispose of products within distorted, damaged, or opened packaging.

1.7 STORAGE AND HANDLING

A. Store products indoors in dry, weathertight conditioned facility.

1. Store doors according to ANSI/WDMA I.S. 1A.

B. Protect products from damage during handling and construction operations.

1.8 FIELD CONDITIONS

A. Environment:

1. Product Temperature: Minimum 21 degrees C (70 degrees F) for minimum 48 hours before installation.
2. Work Area Ambient Temperature Range: 21 to 27 degrees C (70 to 80 degrees F) continuously, beginning 48 hours before installation.
3. Install products when wet construction is completed, dried, and cured.

- a. Comply with door manufacturer's instructions for relative humidity.

1.9 WARRANTY

- A. Construction Warranty: FAR clause 52.246-21, "Warranty of Construction."
- B. Manufacturer's Warranty: Warrant interior flush factory manufactured vinyl clad wood doors against material and manufacturing defects.
 - 1. Warranty Period: Lifetime of original installation.

PART 2 - PRODUCTS

2.1 PRODUCTS - GENERAL

Provide type as specified by the following manufacturers as basis of design; (or approved equal):

Bidding on:

Manufacturer: _____

Brand: _____

No: _____

- A. Basis of Design: Eggers Industries/ InPro Corporation - InPro eiDoos High Impact Protection Doors, or equal.
- B. Provide doors from one manufacturer.

2.2 FLUSH WOOD DOORS

- A. General:
 - 1. ANSI/WDMA I.S. 1A, Extra Heavy Duty.
 - 2. Adhesive: Type II.
 - 3. Core: Structural composite lumber.
 - 4. Thickness: 44 mm (1-3/4 inches)
- B. Faces:
 - 1. Factory applied Rigid Vinyl Facing Material (0.040-inch minimum face thickness).
- C. VERTICAL EDGES (STILES)
 - Matching Edges (0.040-inch minimum thickness) to match face material; edges applied after face.
 - 1. Removable edge
 - A. Removable, replaceable edge on hinge and lock stiles to be 7/16 non- visible at door frame stop.
- D. Glazing:

- a. Use applied painted metal stops secured from the room side with flathead, countersunk metal screws, spaced approximately 125 mm (5 inches) on center.
 - b. Reference Door & Window Schedule on Contract Drawings for specific lite sizes.
- E. Faces and Vertical Edges:
 - 1. Composite material having screw withdrawal force greater than minimum performance level value when tested according to WDMA TM 10.
 - 2. Provide adequate blocking for bottom of doors having mechanically operated door bottom seal meeting or exceeding performance duty level per WDMA TM 10 for horizontal door edge screw holding.
 - 3. Performance Criteria for Stiles of Doors Utilizing Standard Mortise Leaf Hinges:
 - a. Hinge Loading: WDMA TM 8. Average of 10 test samples for Extra Heavy Duty doors.
 - b. Direct Screw Withdrawal: WDMA TM 10 for Extra Heavy Duty doors. Average of 10 test samples using a steel, fully threaded #12 wood screw.
 - c. Cycle-Slam: 1,000,000 cycles with no loose hinge screws or other visible signs of failure when tested according to WDMA TM 7.
 - 4. Hardware Reinforcement:
 - a. Provide doors with hardware reinforcement blocking.
 - b. Size of lock blocks as required to secure hardware specified.
 - c. Top, Bottom and Intermediate Rail Blocks: Minimum 125 mm (5 inches) by full core width.
 - d. Reinforcement blocking in compliance with labeling requirements.

2.3 FABRICATION

- A. Factory machine interior vinyl clad doors to receive hardware, bevels, undercuts, cutouts and fitting for frame.
- B. Factory fit doors to frame, bevel lock edge of doors 3 mm (1/8 inch) for each 50 mm (2 inches) of door thickness. Order doors with factory undercut.
- C. Clearances between Doors and Frames and Floors:
 - 1. Door Jambs, Heads, and Meeting Stiles: Maximum 3 mm (1/8 inch).
- D. Provide cutouts for glazed openings.
- E. Finish surfaces, including both faces, top and bottom and edges of the doors smooth to touch.
- F. Identify each door on top edge.

1. Mark with stamp, brand or other indelible mark, giving manufacturer's name, door's trade name, construction of door, date of manufacture and quality.
2. Identify door manufacturing standard, including glue type.

2.4 FINISHES

PART 3 - EXECUTION

3.1 PREPARATION

- A. Examine and verify substrate suitability for product installation.
 1. Verify door frames are properly anchored.
 2. Verify door frames are plumb, square, in plane, and within tolerances for door installation.
- B. Protect completed work from damage.

3.2 INSTALLATION

- A. Install products per manufacturer's instructions and approved submittal drawings.
 1. When manufacturer's instructions deviate from specifications, submit proposed resolution for Contracting Officer's Representative consideration.

3.3 PROTECTION

- A. After installation, place shipping container over door and tape in place.
 1. Do not apply tape to door faces and edges.
- B. Provide protective covering over exposed hardware in addition to covering door.
- C. Maintain covering in good condition until removal is directed by Contracting Officer's Representative.

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