Section 08 14 23.16 Plastic-Laminate-Faced Wood Doors

PART 1 - GENERAL

1.01 SUMMARY

A. SECTION INCLUDES

1. Interior flush wood doors with plastic laminate finishes.

1.02 REFERENCES

ANSI/WDMA I.S. 1A- 2021 Industry Standard for Interior Architectural Wood Flush Doors

NFPA 80: Standard for Fire Doors and Other Opening Protectives

NFPA 252: Standard Methods of Fire Tests of Door Assemblies

CAN/ULC S104: Standard Method for Fire Tests of Door Assemblies

UL 10C: Standard for Positive Pressure Fire Tests of Door Assemblies

NEMA LD 3: Standards for high-pressure decorative laminates.

1.03 SUBMITTALS

A. GENERAL

B. PRODUCT DATA

1. Include construction details, materials, and finishes.

C. SHOP DRAWINGS

1. Show door elevations, dimensions, and hardware locations.

D. SAMPLES

1. Provide samples of door construction and plastic laminate finish for approval.

1.04 QUALITY ASSURANCE

A. SUPPLIER

1. Reputable Door, Frame, and Builders Hardware supplier with a successful track record for at least 5 years.

B. MANUFACTURER

1. Companies specializing in manufacturing custom wood doors with a successful track record for at least 10 years.

1.05 DELIVERY, STORAGE, AND HANDLING

A. PACKING, SHIPPING, AND HANDLING

1. Deliver doors to site in manufacturer’s original, unopened containers and packaging, with labels clearly identifying product name, manufacturer, and tag number.

B. ACCEPTANCE AT THE SITE

1. Inspect shipment immediately upon delivery.
2. Document condition received with pictures.
3. Document any damage on BOL, make copy of BOL, and return BOL to driver.
4. Report damage to Supplier and Manufacturer by emailing copy of BOL documenting damage with pictures immediately but no later than 5 days.

C. STORAGE AND PROTECTION

1. Store doors in clean, dry area indoors, protected from damage and direct sunlight.
2. Store doors flat on level surface.
3. Do not store doors directly on concrete.
4. Keep doors completely covered. Use covering which allows air circulation and does not permit light to penetrate.
5. Store doors between 50- and 90-degrees F (10- and 32- degrees C) and 30 to 50 percent relative humidity.
6. Protect doors and finish during handling and installation to prevent damage.
7. Handle doors with clean hands or clean gloves.
8. Lift and carry doors. Do not drag doors across other doors or surfaces.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. ACCEPTABLE MANUFACTURERS

1. StyleCraft by Eliason, or equivalent manufacturer, specializing in quick ship flush wood doors with plastic laminate finishes.

Eliason Corporation
9229 Shaver Rd
Portage, MI 49024
800-543-4455
www.eliasoncorp.com

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2.02 MATERIALS

A. BONDED CORE ASSEMBLY

1. Non-Fire Rated:
    a. Core Material - Particleboard featuring no added formaldehyde carrying the Sustainable Forestry Initiative® label, Composite Panel Association Eco-Certified Composites certification, meeting the same strict emission levels as required by California Air Resources Board Phase Two.
    b. Perimeter Stile & Rails - Laminated-Strand-Lumber (LSL) that delivers superior screw-hold in ALL directions.
2. Fire-Rated:
    a. Provide core material in accordance with rating required (20, 45, 60, 90 Minute) in accordance with NFPA 80, NFPA 252, CAN/ULC S104, UL 10C as tested and listed by nationally recognized testing organization.
    b. UL 10C – Positive Pressure Categories
        i. Category A – Integral intumescent seal concealed by outer stile and rail, where required.
        ii. Category B – Surface intumescent seals applied to door frame, supplied by Door, Frame, and Builders Hardware supplier per requirements of Section 08 71 00 Door Hardware.

B. FACES

1. Plastic Laminate: High-pressure decorative laminate (HPDL) meeting NEMA LD 3 standards:
2. Thickness: .050 inch maximum (1.27 mm)
3. Finish: Matte, gloss, or texture as specified to match or complement the interior finishes.
4. Color/Pattern: To be selected from manufacturer's standard stocked laminates (https://senneca.dcatalog.com/v/StyleCraft-Sales-Sheet---Dealer-Version/) or as specified.

C. EDGE CONSTRUCTION

1. Matching laminate to the face

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2.03 FABRICATION

A. SHOP ASSEMBLY

1. 5-ply design incorporating a bonded core with high pressure decorative laminate meeting WDMA standards for Extra Heavy-Duty Performance including but not limited to cycles, hinge-loading, and screw-holding.

B. HARDWARE PREPARATION

1. Doors shall be prepped for hardware as specified in Section 08 71 00, including hinges, locks, and exit hardware.

2. Factory-prepare doors for hardware with precision to prevent operational issues.

C. FABRICATION TOLERANCES

1. Fabricate Doors per ANSI/WDMA I.S. 1A- 2021 Industry Standard for Interior Architectural Wood Flush Doors section P-2, Dimensional Information.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine doors upon arrival. Notify manufacturer of any issues discovered.

B. Ensure frames are solidly anchored, allowing no deflection when doors are installed.

C. Ensure frames are plumb, level, square, and within tolerance.

3.02 PREPARATION

A. Allow doors to become acclimated to building temperature and relative humidity for a minimum of 24 hours before installation.

3.03 INSTALLATION

A. Install doors in accordance with manufacturer’s instructions.

B. Install doors at locations indicated on the door schedule or drawings.

C. Install doors plumb, level, and square.

D. Install door hardware as specified.

3.04 ADJUSTING

A. Adjust doors to swing freely, without binding in frame.

B. Adjust hardware to operate properly.

C. Repair minor damages to finish in accordance with manufacturer’s instructions and as approved by Architect.

3.05 CLEANING

A. Clean doors promptly after installation in accordance with manufacturer’s instructions.

B. Do not use harsh cleaning materials or methods that could damage finish.

3.06 PROTECTION

A. Protect installed doors from damage during construction until project completion or certificate of occupancy is granted.

End of Section