

SECTION 08213

PLASTIC LAMINATE FACED DOORS



For best results, display hidden notes to specifier.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Doors for frames specified elsewhere.
- B. Doors for pre-hung door and frame units.

1.2 RELATED SECTIONS

- A. Section 08105 - Adjustable Metal Door Frames: Door frames for pre-assembled door and frame units.

1.3 REFERENCES

- A. AWI P-200 - Architectural Woodwork Quality Standards Illustrated; 1997, Seventh Edition, Version 1.0.
- B. WDMA NWWDA I.S.1-A - Architectural Wood Flush Doors; 1997.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: Door and frame schedule.
- D. Selection Samples: For each finish product specified, two color charts representing manufacturer's full range of available colors and patterns.
- E. Specimen Warranty.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Mark packages with size, swing, and door tag or opening number.

1.6 WARRANTY

- A. Provide manufacturer's written warranty that doors will be free of defects for the period specified under normal use. Adhere to manufacturer's requirements to avoid voiding warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Marlite; 202 Harger Street, Dover, OH 44622. ASD. Tel: (330) 343-6621. Fax: (330) 343-7296. Email: info@marlite.com www.marlite.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 MATERIALS

- A. Hollow Core Doors: Flush wood doors complying with AWI Type SHC-5 and WDMA NWWDA I.S.1-A; faced with 0.050 inch (1.3 mm) thick high pressure plastic laminate applied over 1/10 inch (2.5 mm) thick 3-ply wood crossbanding or 1/10 inch (2.5 mm) thick hardboard face backer.
 - 1. Facing Color: Color and pattern selected from manufacturer's full range.
 - 2. Facing Color: _____.
 - 3. Edge Facing: Matching laminate.
 - 4. Edge Facing: None, natural wood.
 - 5. Total Thickness: 1-3/8 inches (35 mm).
 - 6. Total Thickness: 1-3/4 inches (44 mm).
 - 7. Core: Corrugated expanded honeycomb.
 - 8. Core Edges: Structural composite lumber.
 - 9. Stiles and Rails: Solid hardwood lumber.
 - 10. Stile Width: 1-3/8 inches (35 mm) before trimming.
 - 11. Stile Width: _____.
 - 12. Top Rail Height: 1-3/8 inches (35 mm) before trimming.
 - 13. Top Rail Height: _____.
 - 14. Bottom Rail Height: 1-3/8 inches (35 mm) before trimming.
 - 15. Bottom Rail Height: _____.
 - 16. Adhesive: Type I, waterproof.
 - 17. Adhesive: Type II, water-resistant.
 - 18. Factory prefit.
 - 19. Factory premachined for hardware.
 - 20. Cutouts for lights and louvers made at factory.
 - 21. Face Plane Tolerance (Telegraphing): Variation in surface of face not more than 1/100 inch (0.25 mm) from true plane in any 3 inch (75 mm) span.
 - 22. Warp Tolerance: Bow, cup, and twist not more than 1/4 inch (6 mm) in any 42 inches (1066 mm) wide by 84 inches (2133 mm) high area, or less, if door dimensions are smaller; excluding doors less than 1-3/4 inch (44 mm) thick that are over 36 inches (914) wide or 84 inches (2133 mm) high and doors with cutouts exceeding manufacturer's specified limits.
 - 23. Provide 1 year warranty.
- B. Non-Fire-Rated Solid Core Doors: Flush wood doors faced with 0.050 inch (1.3 mm) thick high pressure plastic laminate.
 - 1. Type: Particleboard core type, complying with AWI Type PC-HPDL-3 and WDMA NWWDA I.S.1-A; with average 30 pcf (480 kg/cu m) density core complying with ANSI A208.1 Grade LD-1.
 - a. Crossbanding: 1/10 inch (2.5 mm) thick 3-ply wood crossbanding.
 - b. Face Backer: 1/10 inch (2.5 mm) thick hardboard face backer.

2. Type: Staved core type, complying with AWI Type SLC-HPDL-5 and WDMA NWWDA I.S.1-A; with core of low density kiln dried wood blocks not more than 2-1/4 inch in length with joints well staggered and 1/10 inch (2.5 mm) thick 3-ply wood crossbanding or 1/10 inch (2.5 mm) thick hardboard face backer.
 3. Facing Color: Color and pattern selected from manufacturer's full range.
 4. Facing Color: _____.
 5. Edge Banding: Matching laminate.
 6. Total Thickness: 1-3/4 inches (44 mm).
 7. Core Edges: Structural composite lumber.
 8. Stiles and Rails: Solid hardwood lumber.
 9. Stile Width: 1-3/8 inches (35 mm) before trimming.
 10. Stile Width: _____.
 11. Top Rail Height: 1-3/8 inches (35 mm) before trimming.
 12. Top Rail Height: _____.
 13. Bottom Rail Height: 1-3/8 inches (35 mm) before trimming.
 14. Bottom Rail Height: _____.
 15. Adhesive: Type I, waterproof.
 16. Adhesive: Type II, water-resistant.
 17. Factory prefit.
 18. Factory premachined for hardware.
 19. Cutouts for lights made at factory; provide matching stops.
 20. Face Plane Tolerance (Telegraphing): Variation in surface of face not more than 1/100 inch (0.25 mm) from true plane in any 3 inch (75 mm) span.
 21. Warp Tolerance: Bow, cup, and twist not more than 1/4 inch (6 mm) in any 42 inches (1066 mm) wide by 84 inches (2133 mm) high area, or less, if door dimensions are smaller; excluding doors less than 1-3/4 inch (44 mm) thick that are over 36 inches (914) wide or 84 inches (2133 mm) high and doors with cutouts exceeding manufacturer's specified limits.
 22. Provide life-of-installation warranty.
- C. 20-Minute Fire Doors: Flush wood doors faced with 0.050 inch (1.3 mm) thick high pressure plastic laminate.
1. Type: Particleboard core type, complying with AWI Type PC-HPDL-3, FD1/3 and WDMA NWWDA I.S.1-A; with average 30 pcf (480 kg/cu m) density core complying with ANSI A208.1 Grade LD-1.
 - a. Crossbanding: 1/10 inch (2.5 mm) thick 3-ply wood crossbanding.
 - b. Face Backer: 1/10 inch (2.5 mm) thick hardboard face backer.
 2. Type: Staved core type, complying with AWI Type SLC-HPDL-5, FD1/3 and WDMA I.S.1-A; with core of low density kiln dried wood blocks not more than 2-1/4 inch in length with joints well staggered and 1/10 inch (2.5 mm) thick 3-ply wood crossbanding or 1/10 inch (2.5 mm) thick hardboard face backer.
 3. Fire Rating: Provide ITS (Warnock Hersey) 20-minute label.
 4. Facing Color: Color and pattern selected from manufacturer's full range.
 5. Facing Color: _____.
 6. Edge Banding: Matching laminate.
 7. Total Thickness: 1-3/4 inches (44 mm).
 8. Core Edges: Structural composite lumber.
 9. Stiles and Rails: Solid hardwood lumber.
 10. Meeting Edges of Pairs: Fire retardant treated lumber.
 11. Meeting Edges of Pairs: 20 gauge (0.9 mm) steel channel edges with 1 inch (25 mm) face.
 12. Stile Width: 1-3/8 inches (35 mm) before trimming.
 13. Stile Width: _____.
 14. Top Rail Height: 1-3/8 inches (35 mm) before trimming.
 15. Top Rail Height: _____.
 16. Bottom Rail Height: 1-3/8 inches (35 mm) before trimming.

17. Bottom Rail Height: _____.
 18. Adhesive: Type I, waterproof.
 19. Adhesive: Type II, water-resistant.
 20. Factory prefit.
 21. Factory premachined for hardware.
 22. Cutouts for lights made at factory; provide steel glazing stops.
 23. Face Plane Tolerance (Telegraphing): Variation in surface of face not more than 1/100 inch (0.25 mm) from true plane in any 3 inch (75 mm) span.
 24. Warp Tolerance: Bow, cup, and twist not more than 1/4 inch (6 mm) in any 42 inches (1066 mm) wide by 84 inches (2133 mm) high area, or less, if door dimensions are smaller; excluding doors less than 1-3/4 inch (44 mm) thick that are over 36 inches (914) wide or 84 inches (2133 mm) high and doors with cutouts exceeding manufacturer's specified limits.
 25. Provide life-of-installation warranty.
- D. Fire Doors Rated Over 20 Minutes: Flush wood doors complying with AWI Type FD-HDPL-5, faced with 0.050 inch (1.3 mm) thick high pressure plastic laminate applied over 1/10 inch (2.5 mm) thick 3-ply wood crossbanding.
1. Fire Rating: Provide ITS (Warnock Hersey) 45-minute label.
 2. Fire Rating: Provide ITS (Warnock Hersey) 60-minute label.
 3. Fire Rating: Provide ITS (Warnock Hersey) 90-minute label.
 4. Fire Rating: Provide ITS (Warnock Hersey) label in ratings specified on drawings.
 5. Facing Color: Color and pattern selected from manufacturer's full range.
 6. Facing Color: _____.
 7. Edge Banding: Matching laminate.
 8. Total Thickness: 1-3/4 inches (44 mm).
 9. Core: Non-asbestos mineral composition.
 10. Core Edges: Solid non-fingerjointed wood.
 11. Meeting Edges of Pairs 20 gauge (0.9 mm) steel channel edges with 1 inch (25 mm) face; 5 inch (127 mm) face for concealed vertical rod exit devices.
 12. Adhesive: Type I, waterproof.
 13. Adhesive: Type II, water-resistant.
 14. Factory prefit.
 15. Factory premachined for hardware in accordance with label.
 16. Cutouts for lights made at factory; provide steel glazing stops.
 17. Face Plane Tolerance (Telegraphing): Variation in surface of face not more than 1/100 inch (0.25 mm) from true plane in any 3 inch (75 mm) span.
 18. Warp Tolerance: Bow, cup, and twist not more than 1/4 inch (6 mm) in any 42 inches (1066 mm) wide by 84 inches (2133 mm) high area, or less, if door dimensions are smaller; excluding doors less than 1-3/4 inch (44 mm) thick that are over 36 inches (914) wide or 84 inches (2133 mm) high and doors with cutouts exceeding manufacturer's specified limits.
 19. Provide life-of-installation warranty.
- E. Lead-Lined Doors: Flush wood complying with AWI Type PC-HPDL-7-LL, faced with 0.050 inch (1.3 mm) thick high pressure plastic laminate applied over 1/10 inch (2.5 mm) thick 3-ply wood crossbanding or 1/10 inch (2.5 mm) thick hardboard face backer.
1. Lead Sheet: 1/16 inch thick.
 2. Lead Sheet: _____ thick.
 3. Core: Average 42 pcf (672 kg/cu m) density particleboard with lead sheet bonded in center.
 4. Facing Color: Color and pattern selected from manufacturer's full range.
 5. Facing Color: _____.
 6. Edge Banding: Matching laminate.
 7. Total Thickness: 1-3/4 inches (44 mm) plus lead thickness.
 8. Core Edges: Structural composite lumber.

9. Stiles and Rails: Solid hardwood lumber.
10. Meeting Edges of Pairs: Provide lead-lined steel edge and astragal set.
11. Stile Width: 1-3/8 inches (35 mm) before trimming.
12. Stile Width: _____.
13. Top Rail Height: 1-3/8 inches (35 mm) before trimming.
14. Top Rail Height: _____.
15. Bottom Rail Height: 1-3/8 inches (35 mm) before trimming.
16. Bottom Rail Height: _____.
17. Adhesive: Type I, waterproof.
18. Adhesive: Type II, water-resistant.
19. Factory prefit.
20. Factory premachined for hardware.
21. Cutouts for lights made at factory; provide lead-lined steel glazing frame and stops.
22. Face Plane Tolerance (Telegraphing): Variation in surface of face not more than 1/100 inch (0.25 mm) from true plane in any 3 inch (75 mm) span.
23. Warp Tolerance: Bow, cup, and twist not more than 1/4 inch (6 mm) in any 42 inches (1066 mm) wide by 84 inches (2133 mm) high area, or less, if door dimensions are smaller; excluding doors less than 1-3/4 inch (44 mm) thick that are over 36 inches (914) wide or 84 inches (2133 mm) high and doors with cutouts exceeding manufacturer's specified limits.
24. Provide life-of-installation warranty.

F. Hardware:

1. Locksets: _____.
2. Closers: _____.
3. Kickplates: _____.
4. Door Stops: _____.
5. Hinges: _____.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install doors in frames plumb and true, without rack, and so doors do not fall open or closed simply due to gravity.
- C. Install doors with all hardware specified.
- D. Adjust door and frame for free operation without binding, rack, or warp.

3.2 PROTECTION

- A. Protect installed products until completion of project.
- B. Clean, touch-up, repair or replace damaged products after Substantial Completion.

END OF SECTION