

PART 1 GENERAL

1.1. SECTION INCLUDES NON-RATED AND FIRE RATED FLUSH WOOD DOORS.

- A. Flush
- B. Glazed

1.2. RELATED SECTIONS

- A. Section 06 20 00 Finish Carpentry
- B. Section 06 40 00 Interior Architectural Woodwork
- C. Section 08 11 00 Metal doors and frames
- D. Section 08 70 00 Finish Hardware
- E. Section 08 81 00 Glazing

1.3. REFERENCES

- A. NFPA 80 Standard for Fire Doors and Other Opening Protectives (Current Edition)
- B. NFPA 252 Standard Methods of Fire Tests of Door Assemblies
- C. UBC STD 7-2 (1997) Fire Tests of Door Assemblies
- D. UL10C Positive Pressure Fire Tests of Door Assemblies
- E. NFPA 105 Standard for the Installation of Smoke Door Assemblies and Other Opening Protectives (Current Edition)
- F. ANSI/WDMA I.S. 1A -11 Industry Standard for Architectural Wood Flush Doors
- G. ASTM E779-10 Determining Air Leakage Rate by Fan Pressurization
- H. ASTM E-90-09 Laboratory Measurements of Airborne Sound Transmission Loss of Building Partition Elements
- I. ASTM E413-10 Classification for Rating Sound Insulation

1.4. QUALITY ASSURANCE

- A. All doors must be supplied through one manufacturer with a minimum of five years documented experience in the fabrication of WDMA IS 1A compliant doors.
- B. Meet or exceed ANSI/WDMA I.S.-1A-04 Extra Heavy-Duty Construction
- C. Fire doors: tested and listed in accordance with UL10C, NFPA 252, UBC STD 7-2 (1997)

1.5. WARRANTY:

- A. Provide manufacturer's warranty to comply with the following:
 - 1. Interior solid core doors; "Limited Life of Original Installation", including prior factory approved and authorized compensation for
 - A. Delivery and re-hanging if door(s) do not comply with warranty tolerance standards.
 - B. Re-finishing if door(s) do not comply with warranty tolerance standards.
 - 2. Manufacturer's warranty excludes the appearance of field-finished door(s).

1.6. DELIVERY, STORAGE, HANDLING AND SITE CONDITIONS:

- A. Deliver, store, protect and handle doors under provisions of ANSI/WDMA I.S. 1A-2011 J-1 and manufacturer's instructions.
- B. Do not deliver or install doors until spaces are enclosed and watertight, wet work in spaces is complete and dry, and HVAC system is operating and maintaining ambient temperature & humidity conditions at occupancy levels during the remainder of the construction period (relative humidity is not be less than 25%, or exceeds 55%).

- C. Inspect doors for damage prior to accepting job site delivery
- D. Do not store doors in areas subject to direct sunlight
- E. Certain wood species are light sensitive. Protect doors from exposure to natural and artificial light after delivery
- F. Store all doors in horizontal flat position prior to installation

1.7. SUBMITTALS:

- A. Submit shop drawings: illustrate and identify door openings to include elevations, sizes, bevels, undercuts, types, fire ratings, swings and machining specifications.
- B. Submit two samples of stain and finish on the specified veneer for architectural approval prior to finishing.
- C. Submit manufacturer's specification literature to assure product compliance.
- D. Submit copy of manufacturer's limited lifetime warranty.

PART 2 PRODUCTS / MATERIALS

2.1. DOOR MANUFACTURERS:

- A. Manufacturer: Lynden Door Inc. LD Series Construction or approved equal,
- B. Other Acceptable manufacturers:
 - 1. Eggers Industries
 - 2. Vancouver Door
 - 3. Other: _____
- C. Substitutions are allowed only if approved by the architect prior to bid date

2.2. DOOR CONSTRUCTION:

- A. WDMA Custom Grade Extra Heavy-Duty Construction
- B. Non-rated and 20-minute rated: WDMA PC-3 or PC-5, LD-1 minimum grade (LD2000)
 - 1. Minimum 1-1/4" stiles prior to trim
 - 2. Minimum 2" top & bottom rails prior to trim
 - 3. Reinforced blocking required for all surface mounted hardware when thru bolts are not use in the installation of the hardware
 - 4. Stiles and rails securely bonded to the core with adhesive, then bonded assembly machine calibrated prior to application of face components to achieve minimal telegraphing per section T-1
 - 5. Construct 20 minute rated pairs so that no metal edge and/or astragal is required
- C. Non-rated and 20-minute rated with vision lite exceeding half of door height or 40% of core field or doors in high abuse areas (to be determined by the architect, see door schedule): WDMA SCLC-5 (LD3500)
 - 1. Minimum 1-1/4" stiles prior to trim
 - 2. Rails to be an integral component of the core
 - 3. Stiles and rails securely bonded to the core with adhesive, then bonded assembly machine calibrated prior to application of face components to achieve minimal telegraphing per section T-1
 - 4. Construct 20 minute rated pairs so that no metal edge and/or astragal is required
- D. Ventilated Door (VanAir VA4) with an integrated air channel in a z-shaped profile and opposing ventilation openings routed into the front and back faces, and integrated acoustic baffling air channel
- E. 45, 60 & 90 minute fire rated: WDMA FD5 Custom Grade (LD4500, LD6000, & LD9000)
 - 1. Fabricate in accordance with manufacturer's U.L or Warnock Hersey (ITS) listings.
 - 2. Reinforced blocking required for all surface mounted hardware when thru bolts are not used in the installation of the hardware.
 - 3. Construct pairs so that no metal edge and/or astragal is required
- F. 20 Minute rated single swing doors to be supplied as Category 'B' construction. See Section 08 70 00 to assure gasketing complies with fire door listing (Category G Gasketing) and 'S' label requirements (Category H Gasketing)
- G. 20 Minute rated pairs of door and all 45, 60, & 90 minute rated doors to be supplied as Category 'A' construction. See Section 08 70 00 to assure gasketing complies with 'S' label requirements (Category H Gasketing)

2.3. HPDL:

- A. Manufacturer: _____ (Select Manufacture of HPDL)
- B. Use General Purpose HPDL (.050 nominal thickness) with typical matte finish, color to be determined by architect
- C. Vertical edges to be of same material as faces. Apply vertical HPDL edges after faces.

2.4. 2.4 MACHINING:

- A. Factory machine doors for frames and finish hardware
 - 1. Locations of hardware prep will be coordinated between frame and door manufacturers
 - 2. Include pilot holes for hinges
 - 3. Include face holes for mortise and exit devices (excluding trim holes)
 - 4. Include thru bolt holes for lever design cylindrical locks
- B. Factory seal top and bottom rails

2.5. LIGHT AND LOUVER OPENINGS – CUTOUT AND TRIM OPENINGS THROUGH DOORS TO COMPLY WITH NFPA 80 AND MANUFACTURER'S FIRE DOOR LISTING AND WARRANTY:

- A. Rated and non-rated doors with vision lites are to be glazed with metal vision frames. Metal vision frames to be supplied with manufacturer's standard powder coat finish as approved by architect.
- B. Glazing of fire doors to be performed at factory or licensed facility.
- C. Non-fire doors may be glazed at factory. Refer to Section 08 81 00 for glass requirements

PART 3 EXECUTION

3.1. EXAMINATION:

- A. Inspect doors for any damage prior to installation.
Do not install damaged doors as installation of damaged doors may void manufacturer's warranty.
- B. Verify opening sizes and tolerances are acceptable and ready to receive this work.
- C. Do not install doors in frame openings that are not plumb or are out of tolerance for size or alignment.

3.2. INSTALLATION:

- A. Schedule installation of doors after finishing of walls and finish floor installation.
- B. Coordinate installation of doors with approved Finish Hardware and Frame Schedules
- C. Install doors in accordance with ANSI/WDMA IS-1A, NFPA 80, and NFPA 105
- D. Do not trim fire doors for width
- E. Provide 1/8" clearance at head, jambs and between pairs of doors

3.3. ADJUSTING

- A. Adjust operation of door for smooth and balanced movement.
- B. Do not remove hinge screws after initial insertion. Shims used for alignment purposes must not be inserted between hinge and the door.
- C. Doors may be repaired or refinished if work complies with requirements and shows no evidence of repair or refinishing
- D. Replace doors that are damaged or do not comply with requirements.