

## PART 1 GENERAL

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

- A. Flush
- B. Glazed
- C. Limited applied moldings

### 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. USGBC LEED NC 2009 Green building Rating System for New Construction & Major Renovations
- H. State of California title 17, California Code of Regulations, sections 93120 – 93120.12
- I. ASTM E779-10 Determining Air Leakage Rate by Fan Pressurization
- J. ASTM E-90-09 Laboratory Measurements of Airborne Sound Transmission Loss of Building Partition Elements
- K. 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)
- D. Doors to contribute to LEED NC 2009 MR4, MR7 & EQ4.4
- E. Doors to be fabricated with TSCA Title VI components as required by Title 17, California Code of Regulations, Sections 93120-93120.12 and identified as such.

### 1.5. 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

**1.6. 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).

**1.7. 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. All doors assembled with No Added Urea-Formaldehyde components and PVA Type I adhesive or equal.
- C. Non-rated and 20-minute rated: WDMA PC-5 or PC-7, LD-1 minimum grade (LD2000FSCN)
  - 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
- D. Non-rated and 20-minute rated with vision lite exceeding half of door height or 40% of core field or installed without hinges or pivots: WDMA SCLC-5 or SCLC-7 (LD3500FSCN)
  - 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
- E. Ventilated Door (VanAir VA4NAUF with FSC® FSC-C103189 certified claim) 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

- F. 45, 60 & 90 minute fire rated: WDMA FD7 or FD5 Custom Grade (LD4500NAUF, LD6000NAUF, & LD9000NAUF)
  - 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
- G. 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 and 'S' label requirements
- H. 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

### 2.3. VENEER:

- A. Specie: \_\_\_\_\_ (Select Specie)
- B. Veneer Cut: Rotary / Plain Sliced / Quarter Sliced / Rift Cut (Select One)
- C. Veneer Match: Book Match / Slip Match (Select One)
- D. Veneer Assembly: Running Match
- E. Pair match at doors installed in pairs
- F. Set match at doors installed in sets of 4 or more leaves

### 2.4. ACCESSORIES:

- A. Wood Non-rated and 20-minute vision stop
  - 1. Wood lip stop (WVF-2 profile) compatible with face veneer
- B. 45, 60 & 90-minute approved and listed metal vision frames.
- C. Glazing of fire doors to be performed at factory or licensed facility.
- D. Factory machine doors for finish hardware (Ref. Sec. 08 70 00)
  - 1. Include pilot holes for hinges
  - 2. Include face holes for mortise and exit devices (excluding trim holes)
  - 3. Include thru bolt holes for lever design cylindrical locks
  - 4. Factory seal top and bottom rails

### 2.5. FINISH: FACTORY FINISH TR-8 UV CURED ACRYLATED POLYESTER URETHANE BLEND SYSTEM CONTAINING NO VOLATILE ORGANIC COMPOUNDS (VOC'S)

- 1. Stain Color (Select One)
  - o Factory standard stain color, Sample # \_\_\_\_\_
  - o Custom stain color, sample to be selected by the architect
- 2. Architect must approve all finish samples prior to finishing.
- 3. All factory finished doors to be individually poly-bagged for protection

---

## 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.