



## MDF PANEL DOORS

### PART1 – GENERAL

#### 1.01 SECTION INCLUDES

- A. Fire rated and non-rated MDF Panel Doors.
- B. Provide doors as shown on the Drawings and as specified.

#### 1.02 PRODUCTS INSTALLED BUT NOT SUPPLIED UNDER THIS SECTION

- A. Hollow Metal Frames and Doors
- B. Finish Hardware-Intumescent Seal sets.

#### 1.03 RELATED SECTIONS

- A. General Requirements
- B. Glazing
- C. Painting
- D. Metal Door Mechanical Louvers

#### 1.04 REFERENCES

- A. Americans with Disabilities Act (ADA) – Accessibility Guidelines for Buildings and Facilities.
- B. American Woodwork Institute (AWI) – Architectural Woodwork Quality Standards, 8th Edition, Version 1.0 (2003)
- C. American Society of Testing & Material- ASTM E2074 (2000)
- D. AHA A 135.4 – Basic Hardboard; American Hardboard Association.
- E. National Fire Protection Association (NFPA):
  - 1. Standard for Fire Doors and Fire Windows. (1999 Edition)
  - 2. Code for Safety to Life from Fire in Buildings and Structures. (1997 Edition)
  - 3. Fire Tests of Door Assemblies Including Positive Pressure. (2006)
- F. Warnock Hersey International (WH). Fire Label Listing and Certification.
- G. Underwriters laboratories: UL-10C(1998)-Positive Pressure Test of Door Assemblies.
- H. Uniform Building Code(UBC). UBC7-2 (1997) Part 1 and 2 Smoke and Draft Control Assemblies S labeled.

#### 1.05 SUBMITTALS

- A. Shop Drawings: Show door locations, sizes, types, elevations, and construction details; numerical door Designations corresponding to numerical designations scheduled on Drawings; face veneer species and grade; Preparations and blocking for installation of supplied door hardware; fire labels and ratings in hours; locations and sizes of openings in door faces, glazing materials, and glazing stop design; and other pertinent information.
- B. Product Data: DOORWISE Manufacturer's specifications and technical data, including installation and maintenance instructions and applicable Material Safety Data Sheets.
- C. Certification: letter from door supplier showing DOORWISE doors are furnished and signed by the door supplier, certifying that each type door specified and furnished are by the specified manufacturer for use throughout the project and that they comply with requirements specified.

## 1.06 QUALITY ASSURANCE

- A. Fire Rated Doors: Labeled by UL, FM,WH, or other independent testing agencies acceptable to governing authorities having jurisdiction, complying with requirements of NFPA80, UBC, and NFPA 101, UI-10C.
- B. Single Source Responsibility: Obtain each type door required from **DOORWISE** as the single manufacturer for use throughout this project.
- C. Doors with an STC Sound Rating shall bear the Manufacturer's label designating sound retardant construction and rating.

## 1.07 DELIVERY, STORAGE AND HANDLING

- A. Deliver after building is dry and has reached average prevailing relative humidity of locality, in original protective containers or coverings with seals intact and legibly marked to indicate manufacturer, product name, size, thickness and identifying symbol on protective covering.
- B. Store flat, with non-staining protective wrapped spacers placed 12" from ends and across centers of individual doors, in dry and vented areas only.
- C. Provide approved non-staining opaque covering, which does not permit light to penetrate, under bottom door and over top of stacks to protect door surfaces. Covering must allow air circulation. Protect from sunlight to avoid fading.
- D. Do not subject doors to extreme heat and/or humidity conditions. Relative humidity should be as recommended by the Door Manufacturers warranty.
- E. Handle with clean canvas gloves. Carry doors when moving them; do not drag doors or drag one door across another.
- F. On doors not sealed or primed prior to delivery, apply two coats of high quality enamel paint. This will seal the entire door. Be sure to include the top and bottom edges. Doors should be finished in a horizontal position and finish sanded by the finisher before and between finish coats.

## 1.08 PROJECT CONDITIONS

- A. Coordinate the work with the project construction schedule for door, frame and hardware installation.

## 1.09 WARRANTY

- A. Manufacturer's standard written warranty document.
- B. Warranty to be effective for following periods of time after date of acceptance:
  - 1. Interior Doors: 5 years from purchase date.
  - 2. Other Warranty terms are available with Factory Quote.
- C. Refer to Contract Closeout Section for submittal information.

## PART 2 – PRODUCTS

### 2.01 DOORS

- A. General:
  - 1. Provide in size and design shown on drawings, machine sanded and ready to receive finish. Finish sanding before painting is required with 180 grit sandpaper by the finisher. Sanding and finishing should be done with the door in a horizontal position.
  - 2. Provide doors reinforced to receive supplied door hardware.
  - 3. Provide **DOORWISE Type No. \_\_\_\_\_ as shown on the Drawings Only.**
  - 4. Provide doors and edges laminated with Type I waterproof adhesive.
  - 5. Sound rating certified as STC\_\_\_\_\_ for sound rated doors.
  - 6. Glazing Stops for Fire Rated and non-Rated Doors: Approved pre-fit and installed with Factory installed glazing. The minimum Vision lite size on Fire Rated wood doors is to conform to **DOORWISE** door Manufacturing U.L. listing requirements for min. Vision lite sizes on all Fire rated doors.
  - 7. Only Fire Rated Doors conforming to UBC 7.2 (Positive pressure) will be accepted.

B. Interior Type MDF panel Doors:

1. Door: 1 \_\_\_" thick MDF Raised Molding and Panel Design Door Style No. \_\_\_\_\_
2. Wood Door Species: Medium Density Fiberboard with hardwood edges on the stiles and rails.
3. Stile and Rail Edges and Other Wood Components: MDF or Hardwood species as determined by the manufacture standard of construction, Including applied profile trim detailed on the drawings.
4. Products and Manufacturers:

•  **WORKWISE Manufacturing** –  **DOORWISE Doors**

*Note: Any other Manufactured Products that are not listed above and installed on this project will be removed and the specified product will be re-installed at no additional cost to the Owner.*

C. Fire Rated Interior type MDF Panel Doors:

1. Door: 1 \_\_\_" thick Fire Rated MDF Panel Design Doors. Rating as indicated on the Door Schedule. Door Style No. \_\_\_\_\_
2. Door Wood Species: Medium Density Fiberboard with hardwood edges on the stile and rails conforming to WH Fire requirements.
3. Stile and Rail Edges and Other Wood Components: MDF or Hardwood species as determined by the manufacture standard of construction, including applied profile trim detailed on the drawings.
4. Provide Astragals at pairs of doors as required for Fire rating requirements from the Manufacturer.
5. Products and Manufacturers:

•  **WORKWISE Manufacturing** –  **DOORWISE Fusion Series**

*Note: Any other Manufactured Products that are not listed above and installed on this project will be removed and the specified product will be re-installed at no additional cost to the Owner.*

6. Fire-rated Doors, Intumescent Seals: Furnish fire-labeled opening Assembly complete and in full compliance with UL 10C/UBC-7-2. These seals should be supplied under the Finish Hardware Specification. Adhesive applied Pemco intumescent seal sets only are approved per WH fire test certification. All others are not acceptable. Careful coordination is required.

D. Louvered or Mirrored Doors:

1. Door: 1 \_\_\_" Thick MDF panel Design Door Type No. \_\_\_\_\_
2. Door Wood Species: MDF with hardwood edges on the styles and rails.
3. Mirror Insert: Max glass mirror thickness 3/16" Installed at the Factory.
4. Glass: Factory Installed.
5. Glass glazing bead: Manufacturing Standard.
6. MDF Wood louvers: louvers as supplied per Manufacturing Standard product.

## **PART3 - EXECUTION**

### **3.01 INSPECTION**

- A. Examine installation areas. Report unsatisfactory conditions in writing to Architect. Do not proceed until unsatisfactory conditions have been corrected.
  1. Verify that installed frames comply with indicated requirements for type, size, location, and swing characteristics.
  2. Verify that frames have been installed with plumb jambs and level heads.
- B. Starting installation constitutes acceptance of conditions as satisfactory for installation of doors by Contractor, who shall correct damage and defective or unsatisfactory work at no additional cost.

### **3.02 INSTALLATION**

- A. Condition doors to average prevailing humidity in installation areas prior to hanging.

- B. Use only certified, experienced and skilled door hardware installers to install and adjust the Finish Hardware on these doors.
- C. Fit doors to frames plumb and square for accurate fit, continuous seal, and uniform edge clearance. Machine for all supplied door hardware.
  - 1. Fit for width by planning from lock side only; for height by cutting bottom only.
  - 2. Mortise, drill and work doors to receive specified door hardware.
  - 3. Locate door hardware in accordance with requirements of ADA and NFPA80, as applicable.
  - 4. Factory prepare fire door assemblies for locks, latches, hinges, remotely operated or monitored hardware supplied by Owner, concealed closers, glass lights, vision panels, louvers, astragals, and laminated overlays in conformance with manufacturer's inspection service procedure and under label Service, as required by NFPA80.
  - 5. Verify door under cut to allow for flooring and leave \_\_\_" to 3/8" final clearance.
  - 6. Bevel non-rated doors 1/8" in 2" at lock and hinge edges.
  - 7. Bevel fire rated doors 1/16" in 2" at lock and hinge edges.
- D. Non-rated Doors: Install in compliance with requirements of manufacturer's instructions and final shop drawings, with following clearance, unless otherwise shown on drawings:
  - 1. Sides and Heads: 3/32".
  - 2. Door Bottom to Top of Floor Finish or Covering: \_\_\_".
  - 3. Door Bottom to Top of Threshold: \_\_\_".
  - 4. Meeting Stiles for Pairs of Doors: 1/8".
- E. Fire Rated Doors: Install in fire rated frames, with labels visible when doors are in open position, in compliance with most stringent requirements of NFPA 80, final shop drawings, and manufacturer's instructions. Install with following clearances unless otherwise required by governing authority having jurisdiction:
  - 1. Between Door Sides and Heads and Door Frame: 1/8" maximum.
  - 2. Door Bottom to Nominal Top of Floor Finish or Covering: \_\_\_" maximum.
  - 3. Door Bottom to Nominal Top of Floor without Sill or Finish Covering: \_\_\_" maximum.
  - 4. Door Bottom to Top of Noncombustible sill or Threshold: 3/8" maximum.
  - 5. Meeting Stiles for Pairs of Doors: 1/8" maximum.
- F. Install sound seals on sound rated openings per the manufacturer's directions.
- G. Install Intumescent fire smoke seals on Door frame per Pemco's written instructions.
- H. After doors have been fitted for all supplied door hardware, seal surface cuts and door ends and edges with 2 coats minimum of enamel paint.
- I. Finish doors at job site; refer to DOORWISE finishing requirements.
- J. Glazing: Factory Installed.
- K. Install all hardware to be in working order, with airtight seals, and latching and closing forces in compliance with handicapped code requirements, and the Americans with Disabilities Act. (ADA)
- L. Upon completion of installation the installer shall provide, for the owner, for each hardware item installed on this project, one copy of each installation instruction sheet. These installation sheets shall be put in plastic sheet covers and alphabetized in a 3 ring binder.

### 3.03 ADJUSTING AND CLEANING

- A. Check doors for operation. Replace or re-hang doors which are hinge bound and do not swing or operate freely as directed.
- B. After the doors have been adjusted clean them in place to remove any handling marks or dirt left during hardware installation.
- C. Refinisher replace job finished doors damaged during installation or subsequent construction operations, as directed and at no additional cost.

### 3.04 PROTECTION OF COMPLETED WORK

- A. After the doors and hardware are installed in their openings, furnish protection to prevent damage due to other construction operations and movement of materials, equipment and people through the door opening.