

**Part 1            General**

**1.1               RELATED REQUIREMENTS**

- .1       Section 01 00 10 – General Instructions.  
         Section 01 33 00 Submittal Procedures.  
         Section 01 35 29.06 – Health and Safety requirements.  
         Section 01 45 00 – Quality Control.  
         Section 01 56 00 – Temporary Barriers.  
         Section 01 61 00 – Common Product Requirement.  
         Section 01 78 00 – Closeout Submittals.

**1.2               REFERENCES**

- .1       Architectural Woodwork Manufacturers Association of Canada (AWMAC).
  - .1           Quality Standards for Architectural Woodwork 2014.
- .2       Canadian Standards Association (CSA International).
  - .1           CAN/CSA-O132.5-M1992(R1998), Stile and Rail Wood Doors.
  - .2           CSA Certification Program for Windows and Doors 00.

**1.3               ACTION AND INFORMATIONAL SUBMITTALS**

- .1       Product Data:
  - .1           Submit manufacturer's printed product literature, specifications and data sheet in accordance with Section 01 33 00 - Submittal Procedures.
  - .2           Submit one electronic copy and three copies of WHMIS MSDS - Material Safety Data Sheets in accordance with Section 01 33 00 - Submittal Procedures. Indicate VOC's:
    - .1           For caulking materials during application and curing.
    - .2           For door materials and adhesives.
- .2       Shop Drawings:
  - .1           Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.
  - .2           Indicate door and frame modifications including for lights, sizes, construction, transom panel construction and cutouts modifications, extent of modified re-used sections, and controls for automatic door operation.

**1.4               SAMPLES**

- .1       Manufacturer's Instructions:
  - .1           Submit manufacturer's installation instructions.

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**1.5 DELIVERY, STORAGE, AND HANDLING**

- .1 Storage and Protection:
  - .1 Protect door and frame components from dampness. Arrange for delivery after work causing abnormal humidity has been completed.
  - .2 Deliver to site only when work is scheduled.
  - .3 Protect doors and frame components from scratches, handling marks and other damage. Wrap doors and frames components.

**Part 2 Products**

**2.1 STILE AND RAIL DOORS**

- .1 Modifications to doors as indicated to AWMAC.
- .2 Construction:
  - .1 Modifications: to AWMAC Standards. Wood components are to be same standard quality species and grade as existing.
- .3 Type: glazed, French combination door.

**2.2 GLAZING**

- .1 Glass: safety glass, 6 mm thick, to CAN/CGSB-12.1, transparent, to match existing.
- .2 Accessories: Glazing tape: preformed butyl compound. Edge strips: wood to match existing. Glazing stops: hardwood species same as existing.

**2.3 TRANSOM AND SIDE PANELS**

- .1 Construction: to match adjacent door, solid hardwood, stained finish.
- .2 Meeting edges of doors and transom panels: square, as detailed.
- .3 Veneer of doors and transom panels: colour and finish to match existing.

**2.4 FABRICATION**

- .1 Vertical edge strips to match face similar to existing.
- .2 Relocate doors to location shown on drawings.

**Part 3 Execution**

**3.1 MANUFACTURER'S INSTRUCTIONS**

- .1 Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

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**3.2            INSTALLATION**

- .1      Unwrap and protect doors in accordance with CAN/CSA-O132.2 Series, Appendix A.
- .2      Install doors and hardware in accordance with manufacturer's printed instructions and CAN/CSA-O132.2 Series, Appendix A.
- .3      Adjust hardware for correct function.
- .4      Install glazing in accordance as follows: using wood stops to match existing.
- .5      Install stops.
- .6      Secure transom and side panels by means of stops using wood plugs matching panel in grain and colour.

**3.3            ADJUSTMENT**

- .1      Re-adjust doors and hardware just prior to completion of building to function freely and properly.

**3.4            CLEANING**

- .1      Perform cleaning as soon as possible after installation to remove construction and accumulated environmental dirt.
- .2      Remove traces of primer, caulking; clean doors and frames.
- .3      Clean glass and glazing materials with approved non-abrasive cleaner.
- .4      On completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

**END OF SECTION**

## **1 GENERAL**

### **1.01 REFERENCES**

- .1 American National Standards Institute (ANSI) / Builders Hardware Manufacturers Association (BHMA)
  - .1 ANSI/BHMA A156.1-2000, American National Standard for Butts and Hinges.
  - .2 ANSI/BHMA A156.3-2001, Exit Devices.
  - .3 ANSI/BHMA A156.4-2000, Door Controls - Closers.
  - .4 ANSI/BHMA A156.13-2002, Mortise Locks and Latches Series 1000.
  - .5 ANSI/BHMA A156.18-2006, Materials and Finishes.

### **1.02 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
  - .1 Submit manufacturer's instructions, printed product literature and data sheets for door hardware and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Hardware List:
  - .1 Submit contract hardware list.
  - .2 Indicate specified hardware, including make, model, material, function, size, finish and other pertinent information.
- .4 Test Reports: certified test reports showing compliance with specified performance characteristics and physical properties.
- .5 Manufacturer's Instructions: submit manufacturer's installation instructions.

### **1.03 CLOSEOUT SUBMITTALS**

- .1 Submit in accordance with Section 01 78 00 - Closeout Submittals.
- .2 Operation and Maintenance Data: submit operation and maintenance data for door hardware for incorporation into manual.

### **1.04 MAINTENANCE MATERIALS SUBMITTALS**

- .1 Tools:
  - .1 Supply 2 sets of wrenches for door closers and fire exit hardware.

### **1.05 QUALITY ASSURANCE**

- .1 Regulatory Requirements:
  - .1 Hardware for doors in fire separations and exit doors certified by a Canadian Certification Organization accredited by Standards Council of Canada.

.2 Certificates: product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.

## **1.06 DELIVERY, STORAGE AND HANDLING**

.1 Deliver, store and handle materials in accordance with manufacturer's written instructions.

.2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.

.3 Package items of hardware including fastenings, separately or in like groups of hardware, label each package as to item definition and location.

.4 Storage and Handling Requirements:

.1 Protect prefinished surfaces with wrapping.

.2 Replace defective or damaged materials with new.

## **2 PRODUCTS**

### **2.01 HARDWARE ITEMS**

.1 Use one manufacturer's products only for similar items.

### **2.02 DOOR HARDWARE**

.1 Locks and latches:

.1 Mortise locks and latches: to ANSI/BHMA A156.13, series 1000 mortise lock, grade 1, designed for function and keyed as directed by Departmental Representative.

.2 Lever handles: plain design.

.3 Escutcheons: square.

.4 Normal strikes: box type, lip projection not beyond jamb.

.5 Cylinders: key into keying system as directed.

.6 Finished to match framing of glass partitions.

.2 Butts and hinges:

.1 Butts and hinges: to ANSI/BHMA A156.1, designated by letter A and numeral identifiers, followed by size and finish, listed in Hardware Schedule.

.3 Exit devices: to ANSI/BHMA A156.3, type push bar, function exit release including on fire alarm release, grade 1, modern-narrow stile, finished to match framing of glass partition.

.4 Door Closers and Accessories:

.1 Door controls (closers): to ANSI/BHMA A156.4, designated by letter C and numeral identifiers listed in Hardware Schedule, size to suit door, in accordance with ANSI/BHMA A156.4, table A1, finished to match framing of glass partition.

## **2.03 FASTENINGS**

- .1 Use only fasteners provided by manufacturer. Failure to comply may void warranties and applicable licensed labels.
- .2 Supply screws, bolts, expansion shields and other fastening devices required for satisfactory installation and operation of hardware.
- .3 Exposed fastening devices to match finish of hardware.
- .4 Use fasteners compatible with material through which they pass.

## **2.04 KEYING**

- .1 Doors, keying as directed.
- .2 Supply keys in duplicate for every lock in this Contract.
- .3 Stamp keying code numbers on keys and cylinders.

## **3 EXECUTION**

### **3.01 INSTALLATION**

- .1 Manufacturer's Instructions: comply with manufacturer's written recommendations, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.
- .2 Supply manufacturers' instructions for proper installation of each hardware component.
- .3 Where door stop contacts door pulls, mount stop to strike bottom of pull.

### **3.02 ADJUSTING**

- .1 Adjust door hardware, operators, closures and controls for optimum, smooth operating condition, safety and for weather tight closure.
- .2 Lubricate hardware, operating equipment and other moving parts.
- .3 Adjust door hardware to ensure tight fit at contact points with frames.

### **3.03 CLEANING**

- .1 Final Cleaning:
  - .1 Upon completion remove surplus materials, rubbish, tools and equipment.
  - .2 Clean hardware with damp rag and polish.

### **3.04 DEMONSTRATION**

- .1 Demonstrate operation, operating components, adjustment features, and lubrication requirements.

### **3.05 PROTECTION**

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by door hardware installation.

**END OF SECTION**