Part 1 General

1.01 RELATED REQUIREMENTS

.1 Section 08 11 13 - Hollow Metal Doors and Frames: For pressed steel frames

.2 Section 08 71 00 - Door Hardware

1.02 REFERENCE STANDARDS

.1 Reference Standards:

.1 National Fire Protection Association (NFPA)

.1 NFPA 80, Fire Doors and Windows

.2 NFPA 252, Door Assemblies, Fire Tests of

.2 American Society for Testing and Materials (ASTM)

.1 ASTM B29, Specification for Pig Lead

.2 ASTM B749, Specification for Lead and Lead Alloy Strip, Sheet and Plate Products.

.3 Architectural Woodwork Institute / Architectural Woodwork Manufacturers Association of Canada (AWI/AWMAC)

.1 Architectural Woodwork Standards.

.4 Hardwood Plywood & Veneer Association (HPVA):

.1 HPVA HP-1 - American National Standard for Hardwood and Decorative Plywood.

.5 Underwriters' Laboratories of Canada (ULC)

.1 CAN4 S104M, Fire Tests of Door Assemblies

.2 CAN4 S105M, Fire Door Frames

.6 Window & Door Manufacturers Association (WDMA)

.1 WDMA - I.S. 1-A Architectural Wood Flush Doors.

.7 Standards Council of Canada (SCC)

.2 Abbreviations:

.1 PC: Particleboard core.

.2 SCLC: Structural composite lumber core

.3 HPDL: High pressure decorative laminate.

.4 MDF: Medium density fibreboard

.5 MDO: Medium density overlay board.

1.03 ACTION AND INFORMATIONAL SUBMITTALS

.1 Submit in accordance with Section 01 33 00 - Submittal Procedures.

.2 Shop Drawings.

.1 Indicate details of construction, materials and finishes, location of hardware, cutouts for louvers and glazing, [transom panel construction and cutouts].

.2 Submit door schedule identifying each unit, with door marks and numbers relating to door numbers in Door Schedule. Indicate door types and sizes, hardware sets.

.3 Indicate fire-ratings for fire doors.

.3 Samples.

.1 Submit one 12 x 12-inch corner sample of wood door. Show door construction, core, glazing detail, and face.

.2 Submit duplicate samples of specified hardwood plywood face veneers. Size 12 x 12 inch.

.3 Submit one full size door fabricated to specifications showing door construction, core, glazing detail, face veneers in specified species, grade and veneer matching.

1.04 STORAGE AND PROTECTION

.1 Store and protect doors in accordance AWI/AWMAC Architectural Woodwork Standards, Section 2.

.2 Protect doors from dampness. Arrange for delivery after work causing abnormal humidity has been completed.

.3 Store doors in well-ventilated room, off floor, in accordance with manufacturer's recommendations.

.4 Protect doors from scratches, handling marks, and other damage.

1.05 SITE CONDITIONS

.1 Ambient Conditions:

.1 Maintain relative humidity between 25 and 60% at 22°C during storage and installation.

.2 During and after installation of work of this section, maintain the same temperature and humidity conditions in building spaces as will occur after occupancy.

.2 Do not deliver or install doors until building is enclosed, wet work is complete, and HVAC system is operating and will maintain temperature and relative humidity at occupancy levels during the remainder of the construction period.

1.06 WASTE MANAGEMENT AND DISPOSAL

.1 Comply with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

1.07 WARRANTY

.1 Provide manufacturer’s warranty for wood doors against defects in materials and workmanship in accordance with General Conditions, but for two years.

Part 2 Products

2.01 WOOD FLUSH DOORS – SOLID CORE

.1 To AWI/AWMAC Architectural Woodwork Standards, Section 9 – Doors, except where specified otherwise.

.2 Grade: Custom.

.3 Performance Duty Level: Heavy duty.

.4 Core Material: Particleboard, MDF, agrifiber, staved lumber, SCL conforming to minimum requirements of WDMA - I.S. 1-A.

.5 Construction: Style and rail frame bonded to core; with wood lock blocks and special wood blocking for surface mounted hardware.

.6 Face Panels:

.1 Transparent Finish:

.1 Hardwood Veneer Plywood: To ANSI/HPVA

.1 Species: Maple.

.2 Cut: Plain slice.

.3 Face Grade: AWI/AWMAC Architectural Woodwork Standards, Section 9 for door grade specified.

.4 Match of Individual Leaves: To AWI/AWMAC Architectural Woodwork Standards, Section 9 for door grade specified.

.5 Assembly of Door Face: AWI/AWMAC Architectural Woodwork Standards, Section 9, for door grade specified.

.7 Adhesive: Type II (water-resistant) for interior doors.

2.02 FABRICATION

.1 Fabricate wood doors in accordance with AWI/AWMAC Architectural Woodwork Standards, except where specified otherwise.

.2 Vertical Edges:

.1 Edge manufacturer's option.

.2 For doors with transparent finish provide wood species and grade to match face veneer, colour matched to door faces without dark or light streaks.

.3 Bevel vertical edges of single acting doors 3 mm in 50 mm on lock side and 1.5 mm in 50 mm on hinge side. Radius vertical edges of double acting doors to 60 mm.

2.03 FACTORY FINISHES

.1 Factory finish wood doors in accordance with AWMAC Architectural Woodwork Standards, Section 5 - Finishing, custom grade, using one of the following finish systems selected at fabricator's option:

.1 System - 3, Lacquer, Postcatalyzed

.2 System - 5, Varnish, Conversion

.3 System - 7, Vinyl, Catalyzed

.4 System - 8, Acrylic Cross Linking, Water-Based

.5 System - 9, Uv Curable, Acrylated Epoxy, Polyester Or Urethane

.6 System - 10, Uv Curable, Water-Based

.7 System - 11, Polyurethane, Catalyzed

.8 System - 12, Polyurethane, Water-Based

.9 System - 13, Polyester, Catalyzed

.2 Provide transparent topcoat finish with satin sheen.

.3 Provide vinyl washcoat on close grain woods; and filler on open grain woods.

.4 Provide semi-transparent wood stain to wood doors, to match existing wood doors. Topcoat with clear finish.

.5 Seal door top edge with sealer to match door facing.

.6 Provide touch-up materials to door installer for field touch-up and repair of factory finishes.

Part 3 Execution

3.01 EXAMINATION

.1 Verify that frames are set square, plumb, level, and in plane.

.2 Report openings that are not within tolerance to the General Contractor for correction before hanging doors.

3.02 INSTALLATION

.1 Install doors and hardware in accordance with manufacturer's printed instructions and AWI/AWMAC Architectural Woodwork Standards, conforming to the door grade specified.

.2 Adjust hardware for correct function.

.3 Install stops.

3.03 ADJUSTMENT

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

3.04 FIELD TOUCH-UP

.1 After installation, touch-up and repair materials and finishes using touch-up materials provided by the door fabricator.

.2 Fill and touch-up fasteners holes; refinish raw surfaces from job fitting; repair scratches and mars and other defects.

.3 Make touch-ups and repairs inconspicuous when viewed from 1 000 mm.

3.05 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