08 14 16 Flush Wood Doors This Section includes solid core flush wood doors.

The integration of a security system into the flush wood door work is required. The Contractor shall be responsible for the total and complete coordination of the security system components into the Work.

Product Data: Submit product data for each type of door required. Include factory-finishing Submit laboratory test report results of hinge loading, cycle/slam, stile edge screw withdrawals,

and stile edge split resistance for fire rated doors. Shop Drawings: Submit shop drawings indicating location, size, thickness, and hand of each

door; elevation of each kind of door; construction details not covered in the product data; location and extent of hardware blocking; undercuts, special beveling, and other pertinent data. Indicate dimensions and locations of mortises and holes for hardware of factory machined doors.

Quality Standard: Comply with the applicable provisions and recommendations of AWI's "Architectural Woodwork Quality Standards Illustrated, 8th Edition, Version 1.0, Section 1300" where standards and specifications conflict the more stringent shall be required.

Project Conditions

Quality Assurance

Environmental Limitations: Do not deliver or install doors until wet work, such as concrete, tile, plastering, wallboard joint treatment, is complete and dried, and HVAC system is operating and will maintain temperature and relative humidity at occupancy levels during the remainder of the construction period. Do not expose doors to sudden changes in temperature such as forced heat used to dry out the site.

Manufacturers: Subject to compliance to requirements, provide products by one of the

Algoma Hardwoods, Inc. www.algomahardwoods.com Eggers Industries, Architectural Door Division. www.eggersindustries.com Marshfield Door Systems, Inc. www.marshfielddoors.com VT Industries, Inc. www.vtindustries.com

Construction of Doors for Transparent Finish: Grade: Premium, with Grade AA faces.

It is always preferable to state the face veneer specie and cut in order to provide clear direction for the Contractor. If that information is not available and the doors are intended to match building standard, it is acceptable to state just that.

Face Veneer Species and Cut: Plain sliced cherry Plain sliced white maple

Quarter sliced eucalyptus Rift cut red oak Match building standard veneer and cut

Match between Veneer Leaves: Match building standard. Assembly of Veneer Leaves on Door Faces: Balance match.

Pair and Set Match: Provide for doors hung in same opening or separated only by mullions.

Thickness: 1-3/4 inch (45-mm) unless otherwise indicated. Particleboard Core Material: Complying with ANSI A208.1, Grade 1-LD-2.

Blocking: 5-1/2 inch (138-mm) wide minimum top-rail blocking at doors with closers and bottom rail blocking at doors with kickplates consisting of minimum 1/2 inch (13-mm) wide single length mill option hardwood outer band and single length mill option hardwood or structural composite

Vertical Edges: 1-3/8 inch (35 -mm) wide minimum prior to fitting, 2 ply laminated wood construction consisting of a single piece hardwood outer band, without fingerjoints, and an inner band of mill option hardwood. Outer band to match face veneer for transparent finished veneered-faced doors. Trim non-rated door width equally on both jamb edges.

Crossbanding: Minimum 1/16 inch (1.5 -mm) thick, low density hardwood, composite, or high density hardboard.

Construction: AWI Section 1300, PC-5 ME. Stiles, rails, and blocking bonded to core then entire unit abrasive planed before veneering. Crossbanding materials shall extend full width of door with grain running horizontally, tapeless spliced without voids or show through (telegraphing), and directly glued to core and blocking. Sand cross banding before application of face veneer. Face veneer shall extend full height of door with grain running vertically, tapeless spliced without voids or show through (telegraphing), and directly glued to cross band. Glue lines between face veneer, crossbanding, and blocking shall be of a type to comply with the specified warranty using the hot plate process.

Construction of Doors for Opaque Finish: Grade: Custom. Face Veneer: Medium-density overlay.

Thickness: 1-3/4 inch (45-mm) unless otherwise indicated. Particleboard Core Material: Complying with ANSI A208.1, Grade 1-LD-2.

Blocking: 5-1/2 inch (138-mm) wide minimum top-rail blocking at doors with closers and bottom rail blocking at doors with kickplates consisting of minimum 1/2 inch (13-mm) wide single length mill option hardwood outer band and single length mill option hardwood or structural composite lumber inner band.

Vertical Edges: 1-3/8 inch (35 -mm) wide minimum prior to fitting, 2 ply laminated wood construction consisting of a single piece hardwood outer band, without fingerjoints, and an inner band of mill option hardwood. Trim non-rated door width equally on both jamb edges.

Crossbanding: Minimum 1/16 inch (1.5 -mm) thick, low density hardwood, composite, or high density hardboard.

Construction: AWI Section 1300, PC-5 CE. Stiles, rails, and blocking bonded to core then entire unit abrasive planed before veneering. Crossbanding materials shall extend full width of door with grain running horizontally, tapeless spliced without voids or show through (telegraphing), and directly glued to core and blocking. Sand cross banding before application of face veneer. Face veneer shall extend full height of door with grain running vertically, tapeless spliced without voids or show through (telegraphing), and directly glued to cross band. Glue lines between face veneer, crossbanding, and blocking shall be of a type to comply with the specified warranty using the hot plate process.

Fabricate doors in sizes indicated for Project-site fitting.

Factory machine doors for hardware that is not surface applied. Locate hardware to comply with DHI-WDHS-3 unless otherwise indicated to match existing frame hardware preparations. Comply with final hardware schedules, door frame Shop Drawings, AWI Section 1300-G-20, DHI A115-W series standards, and hardware templates.

Coordinate measurements of hardware mortises in frames to verify dimensions and alignment before factory machining.

Openings: Cut and trim openings through doors to comply with applicable requirements of referenced standards for kind(s) of door(s) required. Install light beads with fasteners spaced for opening size and fire rating indicated. Install wood bead moldings with finish nails and countersink without striking bead. Fill countersunk heads with putty matching wood bead color.

SPECIFICATIONS

DIVISION 08 - OPENINGS

This Section includes:

08 12 16 Interior Aluminum Frames

Aluminum door frames for interior applications. Aluminum framing for butt glazed panels.

Shop Drawings: Submit shop drawings showing scaled elevations, plans, and sections of the interior aluminum frame work. Full scale sections shall be prepared and submitted for details of the assemblies that cannot be shown in the elevations or sections. Include with shop drawings glass thicknesses, metal finishes, and all other pertinent information as necessary or requested by the Architect to indicate compliance with the Contract Documents. Details of field connections, anchorage, and their relationship to the work of others shall be clearly indicated for the coordination of the work by other building trades. Details of fastening and sealing methods and product joinery shall be shown to ensure proper performance of the field installation.

Quality Assurance

Installer Qualifications: Subcontract the interior frame work to a firm who has successfully installed interior aluminum framing systems similar in material, design, and extent to those indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

Project Conditions

Field Measurements: Verify interior aluminum frame dimensions by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

Provide interior aluminum frames by one of the following: Custom Components Co. Inc., Tampa, FL. Western Integrated Materials, Inc., Long Beach, CA. Wilson Partitions, Vernon, CA. Advanced Architectural Frames, Garden Grove, CA.

Fabricate interior aluminum frame components from aluminum extrusions complying with ASTM B 221 (ASTM B 221M), 'Anodizing Quality' and formed to the sizes, shapes, and profiles indicated; temper required to suit structural and finish requirements.

Frames: Minimum 0.062-inch thick extruded aluminum, knock down, and sized to receive scheduled doors, door sidelight glass, and borrowed light glass.

Finish: Anodized Finish: Medium matte (non-directional) finished, clear natural anodized complying with AA-M10C22A21 finish. Post Anodizing Finish (Sealing): Anodized finishes shall be fully sealed by the manufacturer or processor according to procedures recommended by the licensor of the process.

Glass Types: Safety glazing by means of tempered or laminated glass will be provided at all sidelights and locations required by code.

Fasteners: Aluminum, nonmagnetic stainless-steel or zinc plated steel complying with ASTM A164. Door Silencers (Mutes): Manufacturer's standard gray mohair. Glazing Gaskets: Manufacturer's standard extruded or molded gray plastic or EPDM, to accommodate scheduled glass thickness.

Glass: As specified in Division 8 Section "Glazing."

Hardware: As specified in Division 8 Section "Door Hardware."

Fabrication

General: Fabricate the interior aluminum door frames to the designs, shapes, and sizes shown using the materials specified and shown to produce assemblies which meet or exceed the performance requirements. To the greatest extent possible complete fabrication, assembly, finishing, hardware applications and other work before shipment to Project site.

Frame Face Dimension: 1-1/2 inches, unless indicated otherwise on drawings.

Glazing shall be performed in accordance with Division 08 Section, 'Glazing'.

Cut, reinforce, drill and tap doors frames in strict accordance with the printed door hardware manufacturers templates and instructions. Provide solid steel hardware reinforcements, securely fastened to doors and frames where door hardware is to be attached. Joints in Metal Work: All exposed work shall be carefully fitted and matched to produce continuity of line and design, with all joints, being accurately fitted for hairline contact and rigidly secured. Provide concealed corner reinforcements and alignment clips for precise butt or mitered connections. Fabricate frames for glass to allow glass replacement without dismantling frame. Fabricate all components to allow secure installation without exposed fasteners.

Comply with interior aluminum door frame manufacturer's written installation instructions and the Architect reviewed shop drawings. Do not install damaged components. Fit frame joints to produce hairline joints free of burrs and distortion. Rigidly secure nonmovement joints.

Frame Installation: Install frames plumb and square, shimmed and then securely anchored to substrates with fasteners recommended by frame manufacturer.

Wood Door Installation: Refer to Division 8 Section, "Flush Wood Doors". Install glazing to comply with requirements of Division 8 Section, "Glazing," unless otherwise

Institute protective measures required throughout the remainder of the construction period to ensure that interior aluminum doors and frames work will be without damage or deterioration, at time of acceptance.

SPECIFICATIONS

DIVISION 08 - OPENINGS

08 11 13 Hollow Metal Door Frames

This Section includes hollow metal door frames.

Shop Drawings: Submit shop drawings showing scaled elevations, plans, and sections of the hollow metal frame work. Full scale sections shall be prepared and submitted for details of the assemblies that cannot be shown in the elevations or sections. Include with shop drawings glass thicknesses, metal finishes, and all other pertinent information as necessary or requested by the Architect to indicate compliance with the Contract Documents. Details of field connections, anchorage, and their relationship to the work of others shall be clearly indicated for the coordination of the work by other building trades. Details of fastening and sealing methods and product joinery shall be shown to ensure proper performance of the field installation.

Quality Assurance

Hollow Metal Door Frame Standard: National Association of Architectural Metal Manufacturers (NAAMM), Hollow Metal Manufacturers Association Division (HMMA) "HMMA 861 Guide Specifications for Commercial Hollow Metal Doors and Frames."

Project Conditions

Field Measurements: Verify hollow metal frame dimensions by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

Manufacturers Provide hollow metal frames by one of the following: Ceco Door Products; an Assa Abloy Group Company.

Curries Company; an Assa Abloy Group Company. Steelcraft; an Ingersoll-Rand Company. Hollow Metal Door Frames

Accurately machine, file, and fit exposed connections with hairline joints.

Provide combination type knockdown hollow metal door frames to be used as both door buck and trim, formed to profiles shown, of minimum 16 gage thick cold rolled steel. Frames shall be splined, tabbed, and miter fit, knockdown type compatible with adjacent construction conditions.

Typical Anchorage: Frames shall be provided with concealed mechanical compression anchors at top of each jamb and each jamb shall be prepared and provided with provision

for anchorage at floor line of jamb return face. Miter and anchorage type subject to

acceptance of Architect. Mortise, reinforce, drill and tap frames for mortise type hardware. Provide internal reinforcement for surface type hardware which is to be field drilled and tapped per requirements hereinbefore specified for welded frames and including silencers. Locate

hardware in frames to match location specified and in accordance with the hardware

schedule and templates.

Comply with hollow metal door frame manufacturer's written installation instructions. Do not install damaged components. Fit frame joints to produce hairline joints free of burrs and distortion. Rigidly secure nonmovement joints.

Frame Installation: Install frames plumb and square, shimmed and then securely anchored to substrates with fasteners recommended by frame manufacturer.

Wood Door Installation: Refer to Division 8 Section, "Flush Wood Doors".

Install glazing to comply with requirements of Division 8 Section, "Glazing," unless otherwise indicated.

Institute protective measures required throughout the remainder of the construction period to ensure that hollow metal door frames work will be without damage or deterioration, at time of acceptance.

SPECIFICATIONS

DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

06 10 53 Miscellaneous Rough Carpentry

Provide wood framing, blocking, support, and nailers as required.

Fire-retardant treat all subframing, furring etc. concealed within wall construction.

Thickness: As indicated or, if not indicated, not less than 15/32 inch thick.

Plywood for equipment backing panels: Comply with DOC PS 1 "Construction and Industrial" Plywood" for plywood panels.

06 40 23 Interior Architectural Woodwork

All interior architectural woodwork shall be fabricated in accordance with the quality standards of the AWI 'Architectural Woodwork Quality Standards', 8th Edition, Version 2.0.

Paneling and Casework: Flush (not raised panel) type complying with AWI 400, 400A (wood), and 400B (plastic laminate); doors and drawers to be either reveal, or flush overlay, style to be determined through 100% documents.

AWI Custom Grade woodwork: Plastic-laminate cabinets and countertops.

Solid surface countertops, colors as scheduled herein.

Standing and running trim, shop-primed for field finish

Closet and utility shelving.

Plastic Laminate Veneer: NEMA LD-3, General Purpose Grade 0.050" thick, eight colors and two textures to be determined.

Submittal requirements include:

Product data Shop drawings

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

Pecora Corporation; 898 Silicone Sanitary Sealant.

Tremco, an RPM Co.; Tremflex 834.

Architect will select colors from the manufacturer's standard colors.

Samples of each exposed finish

07 92 00 Interior Joint Sealants This Section includes interior joint sealants.

Submittals: Not required.

Materials, General Colors: For fully concealed joints, provide the manufacturer's standard color of sealant which has the best overall performance characteristics for the application shown. For exposed joints, the

Joint Sealants

Sealants for Contact with Food: Comply with 21 CFR 177.2600, NSF Standard 51, and ASTM Product: Dow Corning; 786 Mildew Resistant Silicone Sealant.

Mildew-Resistant Silicone Sealant (use for joints at plumbing fixtures, toilet room countertops and vanities): Complying with ASTM C920, Type S (single component), Grade NS (non-sag), class 25, Use NT (non-traffic), Substrate uses G, A, and O; and containing a fungicide for mildew resistance Products: Provide one of the following: Dow Corning; 786 Mildew Resistant Silicone Sealant.

Tremco, an RPM Co.; Tremsil 200. Latex Sealant: Complying with ASTM C 834, Type P (opaque sealants), Grade NF: Products: Provide one of the following:

Pecora Corporation; AC-20 + Silicone Sonneborn Building Products Div., ChemRex, Inc.; Sonolastic Sonolac.

Surface Cleaning of Joints: Clean out joints in accordance with sealant manufacturer's written

Installation of Sealants: Install sealants so they directly contact and fully wet joint substrates, completely filling recesses provided for each joint configuration, and providing uniform, crosssectional shapes and depths that allow optimum sealant movement capability.

Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing

begins, tool sealants to form smooth, uniform, concave shaped beads, to eliminate air pockets, and

to ensure contact and adhesion of sealant with sides of joint. Remove excess sealants from surfaces adjacent to joint. Cleaning: Clean excess sealants or sealant smears adjacent to joints as installation progresses by

methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.

Joint Sealant Schedule Interior joints in the following vertical surfaces and horizontal nontraffic surfaces:

Control and Expansion Joints on Exposed Interior Surfaces of Exterior Walls: Latex sealant.

Perimeter Joints of Exterior Openings Where Indicated: Latex sealant.

Perimeter Joints between Interior Wall Surfaces and Frames of Interior Doors, Windows, and Elevator Entrances: Latex sealant.

Joints between Plumbing Fixtures and Adjoining Walls, Floors, and Counters: Mildew resistant

MSDS sheets for all adhesives and sealants are to be provided to the landlord.

SPECIFICATIONS

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS

Provided by owner

DIVISION 01 - GENERAL REQUIREMENTS

Provided by owner.

No asbestos containing materials are to be used.

05 50 00 Metal Fabrications

Miscellaneous framing and supports, including but not limited to framing for architectural woodwork, partial height walls, window shades, and projection screens.

Structural Performance Requirements Countertop and Vanity Framing: Provide countertop and vanity framing capable of withstanding the following structural loads without exceeding the allowable design working stress of the materials involved, including anchors and connections, or of exhibiting excessive deflections in any of the components making up the countertops and vanities:

All deadloads. 500 pound live load placed on the countertop and vanity Deflection at Midspan: L/1000 times span or 1/8-inch- (3-mm) whichever is less.

Tube Framing for Partial Height Walls: Provide tube framing for partial height walls capable of withstanding a deflection not to exceed 2L/1440 of the wall height when subjected to a positive and negative pressure of 5 psf.

Projection Screen, and Window Shade Framing: Fabricate and install framing so that when installed, it is capable of supporting all deadloads and withstanding the live loads imposed on it from the operation of the projection screens and window shades.

Submittals: Submit, for record only, structural analysis data, for information only, signed and sealed by the qualified professional engineer responsible for their preparation.

Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of metal fabrications that are similar to those indicated for this Project in material, design, and extent.

Welding: Qualify procedures and personnel according to AWS D1.1, "Structural Welding Code--Steel." Certify that each welder has satisfactorily passed AWS qualification tests for welding processes involved and, if pertinent, has undergone recertification.

Field Measurements: Where metal fabrications are indicated to fit walls and other construction, verify dimensions by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

Metal Surfaces, General: For metal fabrications exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, or roughness

Steel Plates, Shapes, and Bars: ASTM A 36/A 36M. Steel Tubing: Cold-formed steel tubing complying with ASTM A 500, or hot formed steel tubing complying with ASTM A 501.

Slotted Channel Framing: Cold-formed metal channels 1-5/8 by 1-5/8 inches (41 by 41 mm) with flange edges returned toward web and with 9/16-inch- (14.3-mm-) wide slotted holes in webs at 2 inches (51 mm)

Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.

Shop Assembly: Preassemble items in shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Use connections

that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated Welded connections may be used where bolted connections are shown.

Provide for anchorage of type indicated; coordinate with supporting structure. Fabricate and space

anchoring devices and fasteners to secure metal fabrications rigidly in place and to support indicated

Miscellaneous Framing and Supports: Provide steel framing and supports indicated and as necessary to complete the Work and which are not a part of the structural framework Fabricate units from structural-steel shapes, plates, and bars of welded construction, unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent

construction retained by framing and supports. Cut, drill, and tap units to receive hardware, hangers, and

similar items. Countertop and Vanity Framing: Custom fabricate countertop and vanity framing, using steel shapes and plates, and cold finished mild steel bars at exposed conditions, for support framing and plywood, to the thicknesses, sizes and shapes shown, and as required to produce work of adequate strength and durability, without objectionable deflections. Use proven details of fabrication, as required, to achieve

Finish metal fabrications after assembly. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes. Shop

proper assembly and alignment of the various components of the work.

prime ferrous-metal items.

General: Provide anchorage devices and fasteners for securing metal fabrications to in-place construction. Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, with edges and surfaces level, plumb, and true. Drill holes for bolts to the exact diameter of the bolt. Provide screws threaded full length to the screw head.

Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be

Touch up surfaces and finishes after erection. Clean field welds, bolted connections, and abraded areas

left as exposed joints but cannot be shop welded because of shipping size limitations.

and touch up paint with the same material as used for shop painting.

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Date Description

Seal / Signature

Project Number

SPECIFICATIONS

G00.05

Description

Project Name URS - PORTLAND

59.6222.900

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