

SECTION 08211 - FLUSH WOOD DOORS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes the following:

- 1. Solid core doors with hardwood faces.

1.2 SUBMITTALS

A. General: Submit each item in this Article according to the Conditions of the Contract and Division 1 Specification Sections.

B. Shop drawings indicating location and size of each door, elevation of each kind of door, details of construction, location and extent of hardware blocking, fire ratings requirements for veneer matching and quality finishing and other pertinent data.

1. For factory-machined doors, indicate dimensions and locations of cutouts for locksets and other adjuncts to tight and lever openings.

1.3 QUALITY ASSURANCE

A. Quality Standard: Comply with the following standard:

- 1. AIA Quality Standard: "Architectural Woodwork Quality Standards" of the Architectural Woodwork Institute for grade of door, core, construction, finish, and other requirements.

B. Single-Source Responsibility: Obtain doors from one source and by a single manufacturer.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Protect doors during transit, storage, and handling to prevent damage, soiling, and deterioration. Comply with requirements of referenced standard and manufacturer's instructions.

B. Identify each door with individual opening numbers as designated on shop drawings, using temporary, removable, or concealed markings.

1.5 PROJECT CONDITIONS

A. Conditioning: Do not deliver or install doors until conditions for temperature and relative humidity have been established and will be maintained in storage and installation areas during the remainder of the construction period to comply with the following requirements or authorize the Contractor to project's geographical location:

- 1. AIA Quality Standard Section 100-5-11 "Relative Humidity and Moisture Content."

1.6 WARRANTY

A. General Warranty: Door manufacturer's warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.

B. Door Manufacturer's Warranty: Submit written agreement of door manufacturer's standard form signed by manufacturer, installer, and Contractor, agreeing to repair or replace defective doors that have warped (bow, cup, or twist) more than 1/4 inch in 42-by-84-inch section or that show unacceptable core construction in face veneers exceeding 0.01 inch in a 3-inch span, or do not conform to tolerance limitations of referenced quality standard.

1. Warranty shall be in effect during the following period of time after date of Substantial Completion.

A. Solid Core Interior Doors: Life of installation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Available Manufacturers: Subject to compliance with requirements, furnish manufacturers offering doors that may be incorporated in the Work include, but are not limited to, the following:

- 1. Solid Core Doors for Installation in Hollow Metal Frames:
a. Algoma Hardwoods Inc.
b. Forest-Corona Corp.
c. Weyerhaeuser Co.
d. Plyma Corp.

2.2 INTERIOR FLUSH WOOD DOORS

A. Solid Core Doors for Oak/Pine Finish: Comply with the following requirements:

- 1. Faces: Hardboard.
2. Construction: 5 or 7 plies.
3. Core: Particleboard.
4. Grade: A1/C Custom.

2.3 FABRICATION

A. Fabricate flush wood doors to comply with following requirements:

- 1. In sizes indicated for job-site fitting.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine installed door frames prior to hanging door:

- 1. Verify that frames comply with indicated requirements for type, size, location, and swing characteristics and have been installed with plumb jambs and level heads.
2. Reject doors with defects.

B. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Hardware: Fit installation per Division 8 Section "Door Hardware."

B. Manufacturer's Instructions: Install wood doors to comply with manufacturer's instructions and referenced quality standard and as indicated.

C. Job-Fit Doors: Align and fit doors in frames with uniform clearance and bevels as indicated below; do not trim edges of floor finish or covering. Where threshold is shown or scheduled, provide 1/4-inch clearance from bottom of door to top of threshold.

D. Field-Finished Doors: Division 9 Section "Finishing."

3.3 ADJUSTING AND PROTECTION

A. Operation: Rehab or replace doors that do not swing or operate freely.

B. Refinish or replace doors damaged during installation.

C. Protect doors as recommended by door manufacturer to ensure that wood doors will be without damage or deterioration at the time of Substantial Completion.

END OF SECTION 08211

SECTION 08710 - DOOR HARDWARE

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. Submittals: Hardware Schedule.

B. Deliver keys to FedEx Office Center Manager.

C. For fire-rated openings provide hardware tested and listed by UL or FM (NFPA 80). On exit devices provide UL "E" label indicating "Fire Exit Hardware."

1.2 SUBMITTALS

A. Operation/Maintenance Data: Provide operation and maintenance manuals and installation guides for locksets, exit devices, and door closers.

2. Contractor/installer to furnish to the hardware supplier one installation template guide from each hardware/cater.

B. Templates: Templates for door hardware items to be set in door and frame; installers within three working days of receipt of approved hardware schedule.

C. Certification of Compliance: Submit any information necessary to indicate compliance to any or all of these specifications as required.

D. Keying Schedule: Indicate keying of all cylinders, exit devices, locksets, and padlocks. Include door and item numbers as indicated in the approved hardware schedule. Close-out Requirement:

- 1. Two (2) copies of the keying schedule.
2. Two copies of manufacturer's catalog data for each item of hardware furnished.

1.3 DELIVERY, STORAGE, AND HANDLING

A. Packaging: Each unit of hardware shall be individually packaged in the manufacturer's original containers as required by the respective hardware manufacturer.

1. Packaging shall include factory original installation instructions, operation and maintenance manuals and instruction sheets for each item of hardware furnished.

B. Wrapping: Wrap and cushion each item to prevent scratches & dents during delivery and shipment to the job site.

C. Environmental Packaging: Hardware shipped to the job site is to be wrapped in biodegradable packing to be utilized, such as plastic, plastic bags or polystyrene foam, then the Contractor will be responsible for the disposal of the non-biodegradable packing to the licensed or authorized collector for recycling of the material.

D. Markings: Each package shall be clearly marked on the outside, identifying contents with specific opening number corresponding to those listed in the hardware schedule. Include door and item number for each product.

E. Delivery: Except as dictated otherwise, deliver all hardware to the job site. The Contractor shall check each item of hardware against the approved finish hardware schedule.

F. Storage: All hardware shall be stored in a locked storage space until ready for installation. Hardware shall be protected against damage after application and during construction period.

PART 2 - PRODUCTS

2.1 HARDWARE

A. Provide materials as specified without substitutions.

2. See Schedule on Drawings for approved manufacturers.

B. Furnish hardware with all necessary screws, bolts or other fastenings of suitable type and size to anchor the hardware in position for long life and heavy use. Fasteners shall include expansion shields, set bolts, toggle bolts, or other approved fasteners according to material to which it is applied and as recommended by the respective manufacturer.

a. Furnish Phillips flat-head screws except as otherwise called for.

2. Representative of all fastenings shall harmonize with hardware as to material and finish.

2.2 Hinges

A. All hinges to be of one manufacturer as hereafter listed for continuity and consistency of warranty.

2. Unless otherwise specified, furnish five-knuckle as specified, butt top, full mortise template type hinges with non-rising loose pins.

3. Out-swinging exterior doors to be furnished with hinges of solid bronze with non-removable pin (NRP).

4. Furnish three hinges up to 50" high and one additional hinge for every 30" of elevation thereof.

5. Furnish standard weight hinges on doors up to 36" in width, and extra heavy weight on doors exceeding 36", or as indicated in the hardware schedule.

6. Where required, furnish hinges of sufficient width to clear trim and/or permit the door to swing 180 degrees as required by the specific opening.

2.3 Cylindrical Lock

A. All locksets, latchsets, and cylinders to be of one manufacturer as hereafter listed for continuity and consistency of warranty.

2. Locksets shall be approved by the Architect. Locksets shall be furnished with independent keying schedule. Independent keying schedule for lever style hardware for lever style hardware.

3. Provide strike with wrought iron pins. Strikes shall be of sufficient length to prevent trim or the inactive leaf door from hardware. Seal out surface fitting and machining.

4. Hardware shall be as listed in the hardware sets.

F. Exit Devices

A. All exit devices, lever trim, and cylinders to be of one manufacturer as hereafter listed and in the hardware sets for continuity of design and consistency of materials to be similar to SDI recommendations.

7. Exit devices to be "UL" listed for life safety. All exit devices for labeled doors shall have "UL" label that reads "Fire Exit Hardware." All devices mounted on labeled wood doors are to be thru-bolted or per the manufacturer's listing with fire-rated hardware.

8. All exit devices to be of a heavy duty, chassis mounting design, with one piece removable covers, eliminating necessity of removing the device from the door for standard maintenance and inspection.

9. All trim to be thru-bolted to the lock stile with.

10. Lever trim to be the same as specified with locksets.

11. Exit devices shall be push pad devices finished to match that of the locksets. Push pad to be high impact resistant black lexan with a maximum 3" projection.

12. Rail assemblies of all exit devices to be of brass or bronze base material, plated to standard architectural finishes, or solid stainless steel, or as specified in the hardware schedule. Painted or anodized aluminum finishes will not be considered acceptable for heavy duty use on this project.

G. Closers

A. All closers to be of a single manufacturer for continuity of design and consideration of warranty.

2. Delayed action (DA) required at restroom doors.

3. Closers shall be surface mounted, hydraulic type, with high strength cast steel. Pull track and pinion constructed of heavy steel.

4. Size all closers in accordance with the manufacturer's recommendations at the building site.

5. Closers to have adjustable spring power, which allows for closer timing. Closers to have adjustable tempering spring, noncritical regulating screw valves for closing speed, latching speed and backcheck control as standard features.

6. Closer arms to be forged steel, interchangeable with all closers specified on this project for uniformity of future Owner maintenance considerations.

7. Supply appropriate arm assembly for each closer so that closer body and arm are mounted on non-public side of door opening and on the interior side of exterior opening, with a 16" to 18" of clearance between the door and the arm.

8. Furnish closers with special application and heavy-duty arm as specified in the hardware schedule or as otherwise called for to insure a proper operation.

9. All closers to be rectangular, full cover type of nonferrous, noncorrosive material painted to match lockset finishes.

H. Door Stops

A. Place door stops in such a position that they permit maximum door swing, but do not present a hazard or obstruction.

1. Thresholds and Gasketing: Manufacturer to design and specify in accordance with the requirements of the ADA and ANSI A117.1.

a. Furnish thresholds with machine screws and lead anchors. Furnish all necessary anchoring devices for gasketing and seal.

b. Thresholds may require modification depending on final drawings and frame/door details.

Verify with Architect before ordering material.

B. Hardware Locations: All hardware to be mounted between 30" and 44" in California 1092.1. Review hardware locations with FedEx Office before issuing templates and door/hardware purchase orders.

12. In mounting locations, carefully read SDI recommendations.

13. Threshold and Perimeter Seal: All exterior doors, set thresholds in a bed of sealant.

3.1 INSTALLATION

A. Install steel framing to comply with ASTM C 754 and with ASTM C 940 requirements that apply to framing installation.

1. Isolate steel framing from building structure, except at floor, to prevent structural movement from transferring loading to partitions.

2. Where studs are installed directly against exterior walls, install asphalt felt strips or gaskets between studs and wall.

3. Install and finish gypsum panels to comply with ASTM C 940 and manufacturer's instructions.

4. Examine all surfaces to receive gypsum panels and make certain that framing is plumb and true.

5. The fastening surface of any framing or starting member to be fastened to shall be free of paint, corrosion, or other damage.

6. Cut gypsum board by scoring or by sawing, working from the face side.

7. When cutting by scoring, the paper face shall be cut with a sharp utility knife.

8. Opposite walls must have 3/4 inch clearance.

9. Ceiling areas over 1000 sq ft must have horizontal resilient wires or rigid bracing.

10. Ceiling areas over 2500 sq ft must have seismic separation joints and rigid bracing.

11. Ceilings must have 2 inch oversized trim rings for sprinklers and other penetrations.

12. Changes in ceiling plane must be made independently supported and braced.

13. Cable trays and electrical conduits must be independently supported and braced.

14. Suspended ceilings shall be subject to special inspection.

D. Additional Requirements:

1. Fire proofing architectural components must have adequate "traffic rooms."

2. Minimum 12 inch clearance.

3. Must permit hinges to swing to a 45 degree angle without striking another object.

4. Provide metal corner bead at all external angles.

5. Provide metal edge trim at all exposed edges of gypsum board face layer.

6. Finish: All walls shall be skim-coated to provide a smooth, texture-free finish.

C. Gypsum Board Installation:

1. Cut gypsum board by scoring or by sawing, working from the face side.

2. Opposite walls must have 3/4 inch clearance.

3. Ceiling areas over 1000 sq ft must have horizontal resilient wires or rigid bracing.

4. Ceiling areas over 2500 sq ft must have seismic separation joints and rigid bracing.

5. Ceilings must have 2 inch oversized trim rings for sprinklers and other penetrations.

6. Changes in ceiling plane must be made independently supported and braced.

7. Cable trays and electrical conduits must be independently supported and braced.

8. Suspended ceilings shall be subject to special inspection.

2.2 FABRICATION

A. Prepare substrate for production in accordance with manufacturer's published instructions.

1. Seal joints well at joints before applying trim.

2. Prefill each panel before sealing in place. Cut panels for inside-tipped power saw or swirl-bead finish.

3. Provide manufacturer's recommended spacing between abutting panel ends, edges and trim. Provide minimum 1/8 inch space around pins, electrical fittings, obstructions and other items penetrating panels. Fill joints with sealant.

4. Gypsum Board Substrate: Apply adhesive to gypsum board substrate and to panel backs as recommended by manufacturer with appropriate trowel. Provide 100 percent coverage of adhesive.

5. Install accessory panel trim pieces concurrently with installation of panels. Mitre cut accessory panel trim to corners to provide smooth transition. Set trim attached to wall with sealant.

6. Seal corner seams, and base, junctions, and junctures between panels and wall with sealant. Remove excess sealant during installation.

7. Provide sealant around all openings, corners, and joints.

3.4 FIELD QUALITY CONTROL

A. Inspect fiber reinforced plastic coated panel substrate, accessories, and fastening to installation.

B. Correct deficiencies in Work which inspection indicates are not in compliance with Contract requirements.

END OF SECTION 09542

SECTION 09542 - FIBER REINFORCED PLASTIC COATED PANELS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

- 1. Glass fiber reinforced plastic (FRP)
2. FRP accessories.

B. Related Sections:

- 1. Section 09260 - Gypsum Board Systems: Gypsum board substrate.

1.2 QUALITY ASSURANCE

A. Regulatory Requirements:

- 1. Surface Burning Characteristics in accordance with ASTM E 84 for Class C finish.
a. Flame Spread: Less than 200.
b. Smoke Density: Less than 450.

PART 2 - PRODUCTS

2.1 FIBER REINFORCED PLASTIC COATED PANELS

A. Fiberglass Reinforced Plastic Coated Panel: UL flame spread Class C. Color to be selected by Architect.

1. Kermitex Glassboard P, Sealmite, Kermitex Company, Inc.

2. Structoglas Pyro-Pan; Sequentia Incorporated.

3. Fiberglass Reinforced Plastic Coated Panel: Kermitex Company, Inc.

4. Kermitex FRP Panels; Kermitex Corporation.

5. Call Trim: Manufacturer's standard moldings and trims.

6. Fasteners: Non-corroding steel head nylon drive screws or stainless steel screws.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine surfaces and adjacent areas where products will be installed to verify that surfaces conform to product manufacturer's requirements for substrate conditions. Do not proceed until unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Prepare substrate for production in accordance with manufacturer's published instructions.

1. Seal joints well at joints before applying trim.

2. Prefill each panel before sealing in place. Cut panels for inside-tipped power saw or swirl-bead finish.

3. Provide manufacturer's recommended spacing between abutting panel ends, edges and trim. Provide minimum 1/8 inch space around pins, electrical fittings, obstructions and other items penetrating panels. Fill joints with sealant.

4. Gypsum Board Substrate: Apply adhesive to gypsum board substrate and to panel backs as recommended by manufacturer with appropriate trowel. Provide 100 percent coverage of adhesive.

5. Install accessory panel trim pieces concurrently with installation of panels. Mitre cut accessory panel trim to corners to provide smooth transition. Set trim attached to wall with sealant.

6. Seal corner seams, and base, junctions, and junctures between panels and wall with sealant. Remove excess sealant during installation.

7. Provide sealant around all openings, corners, and joints.

3.4 FIELD QUALITY CONTROL

A. Inspect fiber reinforced plastic coated panel substrate, accessories, and fastening to installation.

B. Correct deficiencies in Work which inspection indicates are not in compliance with Contract requirements.

END OF SECTION 09542

SECTION 09651 - RESILIENT TILE FLOORING

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. Submittals: Product Data and Color Samples.

B. Extra Materials: Deliver to Owner at least 1 box for each 50 boxes or fraction thereof, of each type and color of resilient floor tile installed.

PART 2 - PRODUCTS

2.1 RESILIENT FLOORING AND BASE

A. Flooring: For Vinyl Composition Tile (VCT) performance specifications and Luxury Vinyl Tile, see Description of Finish Materials and Finish Schedule on Drawings.

B. Resilient Base: 4 inch vinyl base, Type TP, installed in accordance with manufacturer's instructions.

C. Trowelable Levelling and Patching Compound: Lantz-modified, portland cement- or blended hydraulic cement-based formulation provided or approved by flooring manufacturer for applications indicated.

D. Adhesive: Water-resistant type recommended by manufacturer to suit resilient products and substrate conditions indicated.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Lay out tiles from center marks established with principal walls, discounting minor offsets, so tile widths at opposite edges of room are equal to one another and are at least one-half of a tile.

B. Roll tile in two directions with 100-lb roller to compact tiles, and trim, and filling low spots, control or construction joints, and other defects in the flooring material.

C. Do not scrub or wash floor for five days after installation.

D. Install resilient base per manufacturer's written instructions.

END OF SECTION 09651

SECTION 09511 - ACOUSTICAL PANEL CEILING

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. Acoustical Panel Ceiling: ASTM E 1264, Class A material, tested per ASTM E 84.

B. Fire-Rating Ceiling Assemblies: Tested per ASTM E 119, and listed in UL's "Fire Resistance Directory," in its "Certification Listings," or in the listing of another qualified testing and inspecting agency.

PART 2 - PRODUCTS

2.1 ACOUSTICAL PANELS

A. Existing Acoustical Ceilings: Match existing in texture, shape, and color as closely as possible to provide an appearance indistinguishable from existing, unless otherwise indicated on Drawings.

B. New Acoustical Ceilings: For product specification, see Description of Materials and Finish Schedule on Drawings.

C. Direct-hung, ASTM C 635, intermediate-duty structural ceiling and wall.

D. Attachment Devices: Sized for 5 times the design load indicated in ASTM C 635, Table 1. Direct Hung, unless otherwise indicated.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Lay out tiles from center marks established with principal walls, discounting minor offsets, so tile widths at opposite edges of room are equal to one another and are at least one-half of a tile.

B. Roll tile in