
SECTION 06200 - FINISH CARPENTRY

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes items of finish woodwork shown on the plans or specified below, except those specified in Sections 06100 and 06410. The intent of this Section is to cover items which are primarily fabricated of wood and which are not covered elsewhere, including but not being limited to, the following:

1. Wood base boards, chair rails and trim.
2. Closet and storage room shelving.
3. Cabinets, counters and other manufactured items.

- B. Furnish each item complete with hardware, parts and finishes necessary for their proper function and service in the building. Where materials such as glass, metals, plastic, etc., are detailed as part of an assembly, furnish as a unit under this section, but conform to the applicable requirements of other sections covering similar materials.

- C. Related Sections:

1. Metal accessories and components: Section 05500.
2. Rough carpentry: Section 06100.
3. Cabinets and casework: Section 06410.
4. Metal stud partitions and gypsum wallboard systems: Section 09100 and 09250.

1.02 REFERENCE STANDARDS

- A. Comply with Quality Standards and Specifications of the Architectural Woodwork Institute, current Edition, meeting AWI custom quality work classification.

1.03 SUBMITTALS

- A. Manufacturer's Literature: Include specifications and catalog cuts for manufactured items such as hardware, plastic laminate, solid surfacing material and signage.

- B. Shop Drawings: Include wood species, grades, finishes, preservative treatment (where required), glues, assembly details, fastenings and anchorage methods, hardware locations, roughing-in clearances for work by others, and installation procedure.

- C. Samples: Submit samples of the following for selection and approval by the Resident.

1. Cabinet hardware.
2. Plastic laminate.

3. A finished sample of each wood species that is to receive transparent or factory applied finish.
 4. Solid surfacing material.
 5. Integrated signage.
- D. Manufacturer's guarantee against defects of materials or workmanship, including warpage or delamination, for a period of two years after final approval.

1.04 COORDINATION

- A. Fabricate work following field dimensions, unless roughing-in can be constructed to fit predetermined or shop drawing dimensions. In either case, improper fit will not be accepted.
- B. Bring to the attention of the Resident any unusual field conditions identified during field verification, such as possible alignment problems due to structural deflection or field conditions.
- C. Coordinate with plumbing and electrical work to ensure correct position for stub outs and outlets.

PART 2 PRODUCTS

2.01 GENERAL

- A. Lumber Sizes: Conform with Prod. Std. PS 20; unless otherwise specified, surfaced on four sides. Sizes and patterns for materials other than lumber to conform with requirements of rules or standards under which they are produced. Size references, unless otherwise specified, are nominal, and actual size shall be within manufacturing tolerances allowed.
- B. Moisture content at time of delivery and when installed in the work shall be as follows:
 1. Treated and Untreated Millwork, Finish Lumber and Trim: 8% minimum to 13% maximum.
 2. Other Materials: In accord with standard under which project is produced (Maximum 19%).

2.02 MATERIALS

- A. Lumber: Veneer Grade Finish Douglas Fir, or equivalent grade spruce, gum, or other close grained smooth hardwood, well seasoned, kiln dried, clear grade, free of checks, splits or knots, and with a maximum of 13% moisture content. Finger jointed stock may be used where opaque paint finish is intended.
- B. Plywood: American Plywood Association conforming to PS 1-74, APA OMT G-1, A-A Grade where both faces are exposed to view. Concealed or painted (opaque coatings only)

faces may be "B" Grade. Thicknesses indicated or in accord with approved shop drawings. Faces exposed to the interior of cabinets, except doors and drawer fronts, shall have factory laminated white laminate liner.

- C. Solid Wood Edging: Birch or similar dense hardwood, or VG Douglas Fir, not less than 5/8" deep, flush with faces of the board, square edged, glued with a tongue and groove connection, and completely tight joints.
- D. Plastic Laminate: Matte and polished finishes, colors and patterns, including solid colors (not Colorcore) to be selected by the Resident, thickness as follows:
 - 1. Counter, shelf tops and edges, back/end splashes: .062".
 - 2. Vertical and other exposed surfaces: .030".
 - 3. Back Sheet for Bottom Areas of Plastic Laminate Clad Countertops, Doors, Drawer Fronts, and Shelf Bottoms: .020", NEMA type BK20.
- E. Hardware: To be selected by Resident from Manufacturer's standard, with the following qualifications:
 - 1. Hinges: Non-corrosive metal, satin chrome plated.
 - 2. Catches: Magnetic.
 - 3. Pulls: To be selected by Resident from manufacturer's standard (wire pulls).
 - 4. Drawer Slides: Full extension, with nylon rollers and steel ball bearings, cold rolled, zinc plated steel frame, stop and removal features, minimum deflection at full extension 75 lb. capacity per pair.
 - 5. Adjustable Shelves: Knap & Vogt No. 255 cadmium plated surface mounted standards, No. 256 brackets.
- F. Adhesives:
 - 1. Plastic Laminates: Waterproof contact adhesive recommended or approved by AWI and the laminate manufacturer.
 - 2. Wood to Wood: Waterproof urea type Fed. Spec. MMM-A-188 or water and mold resistant casein type Fed. Spec. MMM-A-125C, Type 11, or waterproof resorcinol type Fed. Spec. MMM-A-181C.
- G. Wood Preservative: Meet AWPS Standards, clear, of a type that will not impair paint finishes.

PART 3 EXECUTION

3.01 GENERAL REQUIREMENTS

- A. Workmanship and Assembly: Conform to custom grade standards of the Architectural Woodwork Institute. (See paragraph 1.03.A.) Assemble work at the mill, whenever practical,

and deliver ready for erection. When it is necessary to cut and fit on the job, fabricate the work in accordance with measurements taken at the site, with ample provisions to allow proper fit. Sand exposed surfaces to an even, smooth surface, ready for finish.

- B. Edge exposed plywood with solid wood. Join mill assemblies with concealed nails, staples and screws where practical, with mortise and tenons, or dowels, and with glued blocks where required. Countersink exposed nails. Do not use wood screws to fasten onto plywood or particleboard faces. Provide countersunk inserts for machine bolts.
 - 1. Cover semi-exposed surfaces of cabinets with white laminate liner.
- C. Cover exposed wood surfaces of cabinets and counters with plastic laminate. Design counters to support rigidly the weight of the equipment built into them, and in addition, a concentrated load of 200 lbs. applied to the edge of any point on their length, without appreciable deflection or deformation. Provide appropriate supports, grounds, or reinforcements in walls or adjacent construction to ensure a safe and secure attachment.
- D. Provide end splashes where counters abut a vertical surface, except kitchen appliances.

3.02 FABRICATION

- A. Cabinets:
 - 1. Fabricate cabinets, assemble, finish and apply hardware at the plant.
 - 2. Clean and inspect work for defects before shipment to the site. Remove glue marks, scratches, trademark names and defects from plastic surfaces. Clean case interior free of dust. Inspect doors and drawers for proper fit and operation before shipping.
 - 3. Anchorage: Provide cabinets with the necessary members for fastening to each other and with rigid anchorage to floor and/or walls.
 - 4. Application of Plastic Laminate Finish:
 - a. Apply in accordance with manufacturer's published directions using recommended waterproof adhesive. Materials and workmanship to conform with specified AWI quality grade standard.
 - b. Apply to countertop and shelf edges before application to top and bottom, with face sheets overlapping edges. Finish exposed edges with a 45 degree chamfer. Provide trim and closures.
 - c. When possible, use the hot plate pressure method for laminating work, in a manner to assure warp-free and stable panels.
 - 5. Shelves:
 - a. Solid plywood, 3/4" thick. Where plastic laminate finish is indicated, provide .062" thickness on top and bottom surfaces for reversible use and laminate both long edges. Provide solid wood edging on non-laminated shelves.

- b. Valance: As shown on the drawings, with plastic laminate on front, back, and both edges of fascia.
 - (1). Coordinate work with electrical subcontractor or installation of the lighting fixtures.
- c. Shelving in Storage Rooms and Closet: 3/4" plywood, edged in front and other exposed locations, cut to full width of shelf or vertical divider, conforming to AWI custom grade and approved shop drawings.

3.03 INSTALLATION

- A. Install millwork plumb, level and rigidly secured, scribed to conform to surfaces at contact points, and in accordance with approved shop drawings. Miter joints at corners, tight and uniform. Provide moldings or fittings, as required, to cover the joint between millwork items and walls or floors.
- B. Make sure that proper grounds and substantial backing for the secure, rigid and accurate installation of millwork are provided in the walls or partitions on which they will be mounted.
- C. Installation of Cabinets:
 - 1. Installation to be by qualified craftsmen with experience in setting factory built cabinets and making required service connections.
 - 2. Base Cabinets:
 - a. Set cabinets in line, plumbed and leveled by means of wood shims or by levelers provided in each cabinet component unit.
 - b. Secure base units together with nylon inter-screws; minimum of 4 per sharing panel.
 - c. Secure cabinets to masonry walls, concrete floors or to wood blocking in metal stud partitions and furred areas, at concealed locations, near each end, with 1/4" diameter cadmium plated screws in concrete expansion anchors or toggles as required.
 - 3. Tops and Filler Panels:
 - a. Field cut and scribe cabinet tops and splashes as required to fit job conditions. Provide cover molds at intersections of cabinets with walls unless uniform tight joints can be fitted. Do not use unbacked plastic laminate for cover. Place plastic laminate tops and end filler panels on base cabinets carefully fitting all field joints.
 - b. Draw countertop and backsplash joints tight with concealed tite-joint type assembly fasteners.

- c. Seal plastic laminate countertop, backsplash and end splash field joints watertight on assembly with silicone or polysulfide sealant. Secure tops to base cabinets with galvanized screws from inside cabinets.
- d. Provide plastic laminate surfaces on underside of front lip to match edge and top.

4. Shelves:

- a. Adjustable Shelving: Install level, supported by specified end standards, clips and pins. For shelves longer than 48" provide cantilever shelf standards and cantilever brackets. Rest standards perpendicular to floor slab. Erect shelf standards plumb and secure with cadmium plated steel screws.
- b. Fixed shelving shall be factory built into cabinets.

3.04 FINISHING

- A. As specified for interior wood in Section 09900.

END OF SECTION