

**SECTION 06200
FINISH CARPENTRY**

PART 1 - GENERAL

1.1 SUMMARY

- .1 Provide miscellaneous trim, paneling and shelving.
- .2 Install wood and metal doors and frames.
- .3 Install glazing to wood and metal doors and frames.
- .4 Install finish hardware.

1.2 RELATED SECTIONS

- .1 08110 Metal Doors and Frames.
- .2 08140 Wood Doors.
- .3 08710 Finish Hardware.
- .4 08810 Glazing.
- .5 12350 Manufactured Casework.

1.3 REFERENCES

- .1 Architectural Woodwork Institute Quality Standards Illustrated 2003 edition hereafter referred to as the QSI, together with authorized additions and amendments, shall be used as a reference standard and shall form part of this project specification.
- .2 A153/A153M-03, Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
- .3 ANSI A115.16-1990, Preparation for Double Type Locks in Pre-Hung Insulated Steel Doors and Steel Frames.
- .4 ANSI/DHI A15.1G-1994, Installation Guide for Door & Hardware.

1.4 SUBMITTALS

- .1 Submit in accordance with Division 1 Submittal Procedures.
- .2 Shop Drawings: indicating detailed connections to adjacent construction.
- .3 Samples: Finished samples of trim items in finishes specified.

1.5 QUALITY ASSURANCE

- .1 Items shall meet the requirements QSI for Custom Grade. If modifications to this standard occur in this specification or on Drawings, modifications shall govern.
- .2 Lumber grading shall conform to NLGA, National Lumber Grade Authority.
- .3 Plywood, particleboard, and hardboard shall be graded in accordance with applicable CSA or CGSB standards. MDF shall be formaldehyde free.
- .4 Douglas Fir plywood grades to conform to requirements for Standard and painted finish.
- .5 Wood framing: Douglas Fir or Hemlock, kiln dried. Select clear material for paint finish.

1.6 DELIVERY, STORAGE AND HANDLING

- .1 The General Contractor and the millwork manufacturer and Installer shall be jointly responsible for ensuring environmental conditions are suitable for delivery to take place and that millwork will not be exposed to excessive changes in humidity.
- .2 Store, handle, and protect materials to prevent marring of surfaces. Cover in an approved manner to protect from damage. Disfigured or twisted fabrications will be rejected.
- .3 Do not deliver materials or store on site until immediately prior to installation commencing. Deliver only quantities sufficient to permit efficient installation at one time.

- .4 Do not install millwork when the performance of the whole assembly would be prejudiced. Do not disrupt moisture equilibrium of finished products or subject them to excessive moisture changes.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 General: Materials used in this Contract to be manufactured by nationally recognized manufacturers.

| ITEM | MATERIAL | DESCRIPTION |
|--------------------------------------|--|---|
| Exterior Fascias, Trims and Battens. | SPF #2 or better | Finish: Textured (combed), preprimed for paint finish. |
| Accessories. | Screws, nails. | Galvanized or stainless steel for counters to receive sinks to ASTM A153. |
| Joint Sealant. | As specified in Section 07900. | Colour: selected by Consultant from manufacturer's full range. |
| Chair Rail | 3/4" x 5 1/2" Clear maple. | Finish: Semi transparent stain. |
| Door Casings. | Hemlock or Pine Finishing Touch # FT 103. | 57 mm W x 11 mm (2 1/2" x 7/16") with profile to edge, primed for paint finish. |
| Window Sills. | MDF. Finishing Touch # FT 1105 or 1106 to suit sill depth. | 32 mm (1 1/4") thick by other dimensions as indicated, primed for paint finish. |
| Cap to Pony Wall/Stair Guard | Hemlock or Pine. | 19 mm (3/4") thick x width indicated, primed for paint finish. |
| Shelving | Plastic Laminate on Shelf standards | 12" deep as indicated. adjustable |
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2.2 ACCESSORIES

- .1 Fasteners: Adequately size fasteners to fasten millwork and carry imposed loads. Fasten millwork items as required to resist seismic loading. Refer to details and confirm types and sizes of typical fastener types on shop drawings. Use stainless steel or galvanized fasteners in exterior or moist locations.
- .2 Anchors: Select the material, type, size and finish required by each substrate for secure anchorage. Provide toothed steel or lead expansion bolt devices for drilled-in-place anchors. Furnish inserts and anchors, as required, to be set into concrete or masonry work for subsequent woodwork anchorage.
- .3 Insulation: Spray foam insulation for exterior and non-rated interior door frames as indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

- .1 Examine surfaces to which work of this section is applied, with Installer present and ensure conditions are suitable to provide a complete and satisfactory installation. Correct unsatisfactory conditions.
- .2 Start of work indicates acceptance of surfaces and conditions.

3.2 INSTALLATION – FINISH CARPENTRY

- .1 Install finish carpentry and millwork in accordance with reviewed Shop Drawings.
- .2 Install fascias and trim in longest practical lengths minimum 4'-0".
- .3 Fasten with hot dipped galvanized casing nails and countersink.
- .4 Cabinet and Casework: Install in accordance with Section 400 of the Manual.
- .5 Paneling and Trim: Install in accordance with Section 200 of the Manual.
- .6 Interior Frames: Install in accordance with Section 900 of the Manual.
- .7 Exterior Frames: Install in accordance with Section 900 of the Manual.

- .8 Wood Doors into Frame: Install in accordance with Section 500 of the Manual.
- .9 Install woodwork straight, plumb, level and in true alignment except where otherwise indicated.
- .10 Fit joints closely and fasten pieces rigidly in place. Neatly match and mitre joints. Fill exposed joints prior to jointing.
- .11 Nails shall be finish or casing nails. Countersink nail heads and leave ready for putty.
- .12 Finished size shall be as indicated.
- .13 Leave surfaces free from hammer marks, warp, twist, open joints or other defects, and clean, scraped and sanded ready for finishing.
- .14 Shim as required using concealed shims.
- .15 Cut millwork to fit unless specified to be shop-fabricated or shop-cut to exact size. Where millwork abuts other finished work, scribe and cut for accurate fit. Before making cutouts, drill pilot holes at corners.
- .16 Distribute defects allowed in quality grade to best overall advantage when installing job assembled millwork items.
- .17 Install trim and mouldings in single, unjointed lengths for openings and for runs less than maximum length of lumber available. For longer runs, use only one piece less than maximum length available in any straight run. Stagger joints in adjacent members.
- .18 Attach millwork securely in place with uniform joints providing for thermal and building movements. Attach to substrates by anchoring and fastening as shown, as required by recognized standards, and as follows:
 - .1 Nailing: Blind nail where possible. Use fine finishing nails where exposed. Set exposed nail heads for filling except for exterior wood which is to receive a natural finish (if any).
 - .2 Anchoring: Secure millwork to anchors or blocking built-in or directly attached to substrates.
- .19 Where finishes are applied at job site, clean millwork and fill nail holes in preparation for finishes application. Where millwork is to receive a transparent finish, use matching wood filler.
- .20 Fit millwork to other work; scribe and cope as required for accurate fit. Correlate location of furring, nailers, blocking, grounds and similar supports to allow proper support.

3.3 INSTALLATION – DOORS AND FRAMES

- .1 Place frames prior to construction and enclosing of walls and ceilings. Set frames accurately in position, plumbed, aligned, and braced securely until permanent anchors are set. After construction is completed, remove temporary braces and spreaders leaving surfaces smooth and undamaged.
- .2 Fit hollow metal doors accurately in their respective frames with clearances specified in Canadian Door and Frame, Manufacturers Association Standards, plumb, free swinging, smooth operating, and with even margins.
- .3 Install minimum three (3) wall anchors per jamb at hinge and strike levels.
- .4 Field grout interior fire rated door frames.
 - .1 Coat inside throats of steel frames with 1/8 inch thick bituminous protective coating.
 - .2 Install temporary spreaders at midpoint and threshold of door frame so that alignment is not disturbed during grouting.
 - .3 Grout frames solid with fast setting, stiff mix.
 - .4 Remove spreaders after grouting is completed.
- .5 Field fill exterior and non-fire rated interior, steel door frames, with spray foam insulation.
- .6 Install sealant between door frames and wall in accordance with Section 07910.
- .7 Glazing: Provide stops and accessories for installation work of Section 08810 Glass and Glazing.
- .8 Install rated wood and metal doors in accordance with NFPA 80.
- .9 Provide solid blocking above door frames where door closers or operators are to be installed.

3.4 FINISH HARDWARE INSTALLATION

- .1 Install hardware using experienced installers. Provide field tapping and drilling and installation of surface applied hardware not applicable for factory installation.
- .2 Coordinate and cooperate with the installation of finish hardware in accordance with manufacturer's instructions. Fit accurately, using full compliment of screws and draw up tight.
- .3 Install hardware to standard hardware location dimensions in accordance with ANSI A115.16-1994, except where indicated otherwise.
- .4 Make mortises accurately to receive hardware and depth so that hardware is flush with finish surfaces.
- .5 Use cast-in-place anchor bolts or steel expansion shields for items supported by, or on, new concrete.
- .6 Conform to Manufacturer's templates and directions.
- .7 Adjust movable parts to operate correctly at time of final acceptance.
- .8 Make further adjustments required during guarantee period.
- .9 Replace hardware which has been damaged by use when damage is caused by faulty installation.
- .10 Place door stops and holders to allow maximum swing. Doors not to contact anything but stop.
- .11 Set thresholds for exterior doors in full bed of butyl-rubber or polyisobutylene mastic sealant. Remove excess sealant and clean adjacent surfaces.
- .12 Clean and polish hardware. Remove scratched, marred or damaged hardware and replace with new.
- .13 Upon completion of installation a representative of the hardware supplier shall review the installation and confirm in writing to the Consultant that finish hardware has been installed correctly. Replace incorrectly installed items with those specified at no additional cost to the Owner.

3.5 INSTALLATION OF GLAZING TO DOORS AND FRAMES

- .1 Work shall be by skilled glaziers with a minimum of 5 years experience.
- .2 Install glazing to wood or metal frames in accordance with reviewed shop drawings.
- .3 Install glass in frames without bending or twisting, with planes true and parallel to frame faces, with thickness or bedding even and regular all around.
- .4 Ensure wood and steel frames and stops are primed before glazing. Protect prefinished metal surfaces.
- .5 Obtain glass sizes from site measurements with allowances made to suit glass thickness and sizes as recommended by manufacturers.
- .6 Glass weight and thicknesses shall be as required by size of glass unit in accordance with code requirements, but in no case shall be less than as detailed.
- .7 Install glass on glazing blocks and with spacer blocks, both of sizes required, and to ensure adequate spaces for glazing, as recommended by manufacturer of tapes.
- .8 Wood Doors: Wood stops; install glass type as indicated or scheduled and as required by light size. Set glass in continuous tape, both sides, according to the manufacturer's recommendations for interior glazing. No movement, sagging or rattling of glass allowed. Trim excess material.
- .9 All glazing in wood or metal fire rated doors, to be in metal frames.

3.6 PROTECTION AND CLEANING

- .1 Glazing in rated wood doors to be in metal frames.
- .2 Protect adjacent work from damage, staining, and disfigurement caused by work of this section.
- .3 Promptly, as the work proceeds and on completion, keep premises clean and free from rubbish, debris, surplus materials, and equipment accumulation.
- .4 Protect materials and installed woodwork from damage by work of other trades until acceptance of work. Ensure required temperature/humidity conditions during remainder of construction period in areas of finish woodwork installations are maintained.

END OF SECTION