

1 GENERAL

1.1 General Requirements

- .1 All requirements of the Contract apply to and govern all work of this Section.
- .2 Comply with the requirements of Division 1.

1.2 Related Work Specified in Other Sections

- .1 Rough Carpentry Section 06 10 10
- .2 Wood Doors Section 08 14 00
- .3 Cabinet and Miscellaneous Hardware Section 08 71 73

1.3 Standards Referred to in this Section

- .1 American Society for Testing and Materials International (ASTM)
 - .1 ASTM D2369-10(2015)e1, Standard Test Method for Volatile Content of Coatings
 - .2 ASTM D2832-92(2011), Standard Guide for Determining Volatile and Nonvolatile Content of Paint and Related Coatings
- .2 Architectural Woodwork Manufacturers Association of Canada (AWMAC)
 - .1 Architectural Woodwork Standards, 2014.
- .3 Canadian Standards Association (CSA)
 - .1 CSA B111-74(R2003), Wire Nails, Spikes and Staples.
 - .2 CSA O112.5-M1977(R2006), Standard for Wood Adhesive.
 - .3 CSA O115-M82(R2001), Hardwood and Decorative Plywood.
 - .4 CSA O121-08(R2013), Douglas Fir Plywood.
 - .5 CAN/CSA O141-05(R2014), Softwood Lumber.
 - .6 CSA O151-09(R2014), Canadian Softwood Plywood.
- .4 National Electrical Manufacturers Association (NEMA)
 - .1 NEMA LD3-2005, High Pressure Decorative Laminates.
- .5 National Hardwood Lumber Association (NHLA)
 - .1 Rules for the Measurement and Inspection of Hardwood and Cypress 2003.
- .6 National Lumber Grades Authority (NLGA)
 - .1 Standard Grading Rules for Canadian Lumber 2010.

1.4 Quality Assurance and Extended Guarantees

- .1 No specific requirements.

1.5 Specific Handling and Transportation Requirements

- .1 Protect materials against dampness during and after delivery.
- .2 Store materials in ventilated areas, protected from extreme changes of temperatures or humidity.

1.6 Submittals

- .1 Shop Drawings
 - .1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.
 - .2 Indicate details of construction, profiles, jointing, fastening and other related details.
 - .3 Indicate materials, thicknesses, finishes and hardware.
 - .4 Indicate locations of service outlets in casework, and connections, attachments, anchorage and location of exposed fastenings.
- .2 Samples : Not required.

1.7 Maintenance Data and Manuals

- .1 Provide maintenance data for hardwood plywood for incorporation into manual specified in Section 01 78 00.

1.8 Specific Environmental Requirements

- .1 None

1.9 Specific Protection Requirements

- .1 Protect millwork against dampness and damage during and after delivery.
- .2 Store millwork in ventilated areas, protected from extreme changes of temperature or humidity.

2 PRODUCTS

2.1 Lumber Material

- .1 Softwood lumber: unless specified otherwise, S4S, moisture content 9 % or less in accordance with following standards:
 - .1 CAN/CSA-O141.
 - .2 NLGA Standard Grading Rules for Canadian Lumber.
 - .3 AWMAC premium grade, moisture content as specified.
- .2 Machine stress-rated lumber is acceptable for all purposes.

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- .3 Hardwood lumber: moisture content 9 % or less in accordance with following standards:
 - .1 National Hardwood Lumber Association (NHLA).
 - .2 AWMAC premium grade, moisture content as specified.

2.2 Panel Materials

- .1 Douglas fir plywood (DFP): to CSA O121, standard construction, exposed locations.
- .2 Canadian softwood plywood (CSP): to CSA O151, standard construction, unexposed locations.
- .3 Hardwood plywood: to CSA O115.

2.3 Fasteners

- .1 Nails and staples: to CSA B111. Galvanized for exterior work, interior humid areas and for treated lumber, plain finish elsewhere.
- .2 Wood screws: to CSA B35.4. Electroplated

2.4 Sealants

- .1 Sealant: to the requirements of Section 07 92 10.

2.5 Laminated Plastic

- .1 Laminated plastic for flatwork: to NEMA LD3, Grade VGL, Type S 1.27 mm thick; based on solid and printed pattern colour range with finish selected by Departmental Representative.
- .2 Laminated plastic adhesive: urea resin adhesive to CSA O112.5
 - .1 Test for acceptable VOC emissions in accordance with ASTM D 2369 and ASTM D 2832.

2.6 Casework

- .1 Fabricate casework to AWMAC custom quality grade.
- .2 Furring, blocking, nailing strips, grounds and rough bucks and sleepers.
 - .1 S2S is acceptable for cabinetry.
 - .2 Board sizes: "Standard" or better grade.
 - .3 Dimension sizes: "Standard" light framing or better grade.
- .3 Framing SPF species, NLGA, custom grade.
- .4 Case bodies (ends, divisions and bottoms).

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- .1 Hardwood plywood:
 - .1 Thickness: as indicated
 - .2 Face veneer: select white birch species, custom grade, rotary cut, book matched.
 - .3 Back veneer: select white birch species, custom grade, rotary cut.
 - .4 Core: veneer.
 - .5 Bond: Type II.
 - .6 Sanding: touch sanding.
 - .7 Grain direction vertical.
 - .2 Solid wood: select white birch species, architectural grade, thickness as indicated.

 - .5 Backs.
 - .1 Softwood DFP or CSP custom grade, square edge, thickness as indicated.

 - .6 Shelving.
 - .1 Hardwood plywood:
 - .1 Thickness: as indicated.
 - .2 Face veneer: select white birch species, custom grade, rotary cut, book matched.
 - .3 Back veneer: select white birch species, custom grade, rotary cut, book matched.
 - .4 Core: veneer.
 - .5 Bond: Type II.
 - .6 Sanding: touch sanding.
 - .7 Grain direction horizontal.

2.7 Drawers

- .1 Fabricate drawers to AWMAC custom grade supplemented as follows:
 - .1 Sides and Backs.
 - .1 Softwood DFP or CSP custom grade, square edge, thickness as indicated.
 - .2 Hardwood plywood:
 - .1 Thickness: as indicated.
 - .2 Face veneer: select white birch species, custom grade, rotary cut, book matched.
 - .3 Back veneer: select white birch species, custom grade, rotary cut.
 - .4 Core: veneer.
 - .5 Bond: Type II.
 - .6 Sanding: touch sanding.
 - .7 Grain direction horizontal.
 - .2 Fronts.
 - .1 Softwood DFP or CSP custom grade, square edge, thickness as indicated.
 - .2 Hardwood plywood:
 - .1 Thickness: as indicated.
 - .2 Face veneer: select white birch species, custom grade, rotary cut, book matched.
 - .3 Back veneer: select ash species, custom grade, rotary cut.
 - .4 Core: veneer.

- .5 Bond: Type II.
- .6 Sanding: touch sanding .
- .7 Grain direction horizontal

- .3 Bottoms.
 - .1 Softwood DFP or CSP custom grade, square edge, thickness as indicated.
 - .2 Hardwood plywood:
 - .1 Thickness: as indicated
 - .2 Face veneer: select white birch species, custom grade, rotary cut, book matched.
 - .3 Back veneer: select white birch species, custom grade, rotary cut.
 - .4 Core: veneer.
 - .5 Bond: Type II.
 - .6 Sanding: touch sanding.
 - .7 Grain direction horizontal.

2.8 Casework Doors and Drawer Fronts

- .1 Fabricate doors to AWMAC custom grade supplemented as follows:
 - .1 Hardwood plywood:
 - .1 Thickness: as indicated.
 - .2 Face veneer: select white birch species, custom grade, rotary cut, book matched.
 - .3 Back veneer: select white birch species, custom grade, rotary cut.
 - .4 Core: veneer.
 - .5 Bond: Type II.
 - .6 Sanding: touch sanding.
 - .7 Grain direction vertical.

2.9 Laminated Plastic Counter Tops and Backsplashes

- .1 Integral countertops and splashbacks: factory laminated, self-edge type on OSB core as indicated for site installation.

2.10 Edge Banding

- .1 Provide 6 mm thick solid matching wood strip on plywood edges 12 mm or thicker, exposed in final assembly. Strips same width as plywood.

2.11 Standing and Running Trim

- .1 See Section 06 20 00, Finish Carpentry.

3 EXECUTION

3.1 Fabrication

- .1 Set nails and countersink screws, apply stained plain wood filler to indentations, sand smooth and leave ready to receive finish.
- .2 Shop install cabinet hardware for doors, shelves and drawers. Recess shelf standards unless noted otherwise.
- .3 Provide adjustable shelving to cabinetwork unless otherwise noted.
- .4 Provide cutouts for plumbing fixtures, inserts, appliances, outlet boxes and other fixtures.
- .5 Obtain governing dimensions before fabricating items which are to accommodate or abut appliances, equipment and other materials.
- .6 Shop assemble work for delivery to site in size easily handled and to ensure passage through building openings.
- .7 Factory seal and varnish casework and cabinet work on all surfaces. On site finishing limited to touch up only.

3.2 Finishing

- .1 Factory Finishing materials: use only products included in Manufacturer's Product List of Canadian Painting Architectural Specification manual, latest edition.
- .2 Backprimers: white alkyd enamel primer or gloss varnish thinned 25 %, compatible with exposed finish.
- .3 Comply with applicable requirements and recommendations for factory finishing in AWMAC Manual.
- .4 Backprime all cutout concealed surfaces, surfaces in contact with carpet, or concrete, sink cutouts, drain cutouts, any surfaces which may be subjected to moisture. Provide two coats.

3.3 Installation

- .1 Do architectural woodwork to Quality Standards of the Architectural Woodwork Manufacturers Association of Canada (AWMAC), custom grade, except where specified otherwise.
- .2 Install prefinished millwork at locations shown on drawings. Position accurately, level, plumb straight.
- .3 Fasten and anchor millwork securely. Provide heavy duty fixture attachments for wall

- mounted cabinets.
- .4 Use draw bolts in counter top joints.
 - .5 Scribe and cut as required to fit abutting walls and to fit properly into recesses and to accommodate piping, columns, fixtures, outlets or other projecting, intersecting or penetrating objects.
 - .6 At junction of plastic laminate counter back splash and adjacent wall finish, apply small bead of sealant.
 - .7 Fit hardware accurately and securely in accordance with manufacturer's directions.
 - .8 Provide door stop or bumper for protection where operation of architectural wood work door would otherwise damage adjacent surface.

3.4 Cleaning

- .1 Clean millwork and cabinet work both inside cupboards and drawers and outside surfaces.
- .2 Remove excess glue from surfaces.

3.5 Protection

- .1 Protect millwork and cabinet work from damage until final inspection.

END OF SECTION