

Part 1 General

1.1 RELATED SECTIONS

- .1 Contract Conditions
- .1 Section 07 92 10 - Joint Sealing.

1.2 REFERENCES

- .1 American National Standards Institute (ANSI)
 - .1 ANSI/NPA A208.1, Particleboard.
 - .2 ANSI A208.2, Medium Density Fiberboard (MDF) for Interior Applications.
 - .3 ANSI/HPVA HP-1, Standard for Hardwood and Decorative Plywood.
- .2 American Society for Testing and Materials (ASTM)
 - .1 ASTM E1333, Standard Test Method for Determining Formaldehyde Concentrations in Air and Emission Rates From Wood Products Using a Large Chamber.
 - .2 ASTM D2832, Standard Guide for Determining Volatile and Nonvolatile Content of Paint and Related Coatings.
 - .3 ASTM D5116, Standard Guide For Small-Scale Environmental Chamber Determinations of Organic Emissions From Indoor Materials/Products.
- .3 Architectural Woodwork Manufacturers Association of Canada (AWMAC)
 - .1 AWMAC/ AWI Architectural Woodwork Quality Standards Illustrated 8th edition, Version 1.0.
- .4 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-71.20-M, Adhesive, Contact, Brushable.
- .5 Canadian Standards Association (CSA)
 - .1 CSA B111-74, Wire Nails, Spikes and Staples.
 - .2 CSA O112-Series-M Standards for Wood Adhesives.
 - .3 CSA O115-M, Hardwood and Decorative Plywood.
 - .4 CSA O121-M, Douglas Fir Plywood.
 - .5 CAN/CSA O141 Softwood Lumber.
 - .6 CSA O151, Softwood Plywood.
 - .7 CSA O153-M, Poplar Plywood.
- .6 International Organization for Standardization (ISO)
 - .1 ISO 14040, Environmental Management-Life Cycle Assessment - Principles and Framework.
 - .2 ISO 14041, Environmental Management-Life Cycle Assessment - Goal and Scope Definition and Inventory Analysis.
- .7 National Electrical Manufacturers Association (NEMA)
 - .1 NEMA LD 3, High-Pressure Decorative Laminates.

- .8 National Hardwood Lumber Association (NHLA)
 - .1 Rules for the Measurement and Inspection of Hardwood and Cypress.
- .9 National Lumber Grades Authority (NLGA)
 - .1 Standard Grading Rules for Canadian Lumber.
- .10 South Coast Air Quality Management District (SCAQMD), California State (SCAQMD)
 - .1 SCAQMD Rule 1113, Architectural Coatings.
 - .2 SCAQMD Rule 1168, Adhesives and Sealants Applications.

1.3 SHOP DRAWINGS

- .1 Submit shop drawings in accordance with Contract Conditions.
- .2 Indicate details of construction, profiles, jointing, fastening and other related details.
 - .1 Scales: profiles full size, details 1/2 full size.
- .3 Indicate materials, thicknesses, finishes and hardware.
- .4 Indicate locations of service outlets in casework, typical and special installation conditions, and connections, attachments, anchorage and location of exposed fastenings.

1.4 SAMPLES

- .1 Submit samples in accordance with Contract Conditions.
- .2 Submit duplicate samples: sample size 300 x 300 mm or 300mm long unless specified otherwise.
- .3 Submit duplicate colour samples of laminated plastic for colour selection.
- .4 Submit duplicate samples of laminated plastic joints, edging, cut-outs and post formed profiles.

1.5 MOCK-UPS

- .1 Construct mock-ups in accordance with Contract Conditions.
- .2 Shop prepare one base cabinet unit, wall cabinet, counter top and shelving unit, complete with hardware and shop applied finishes, and install on project in designated location.
- .3 Allow 48 hours for inspection of mock-up by Consultant before proceeding with this work.
- .4 When accepted, mock-up will demonstrate minimum standard for this work. Mock-up may remain as part of finished work.

1.6 DELIVERY, STORAGE, AND HANDLING

- .1 Deliver, handle, store and protect materials of this section in accordance with Contract Conditions.

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

Part 2 Products

2.1 MATERIALS

- .1 Softwood lumber: unless specified otherwise, S4S, moisture content 19% 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.
 - .4 Forestry Stewardship Council (FSC) certified.
- .2 Machine stress-rated lumber is acceptable for all purposes.
- .3 The manufacturing process must adhere to Lifecycle Assessment (LCA) Standards as per ISO 14040/14044 LCA Standards.
- .4 Hardwood lumber: moisture content 19 % or less in accordance with following standards:
 - .1 National Hardwood Lumber Association (NHLA).
 - .2 AWMAC premium grade, moisture content as specified.
 - .3 Forestry Stewardship Council (FSC) certified.
- .5 Quartz: solid quartz countertop.
 - .1 Pattern: Veined
 - .2 Finish: Polished
 - .3 Collection: Boutique
 - .4 Thickness: 25mm
 - .5 Acceptable product: HanStone Quartz SOHO BG872, or preapproved equivalent.
- .6 Nails and staples: to CSA B111.
- .7 Wood screws: steel and/or plain, type and size to suit application.
- .8 Splines: wood.
- .9 Sealant: in accordance with Section 07 92 10 - Joint Sealants.

2.2 MANUFACTURED UNITS

- .1 Countertops:
 - .1 Fabricate caseworks to AWMAC premium quality grade.
 - .2 Furring, blocking, nailing strips, grounds and rough bucks and sleepers.
 - .1 S2S is acceptable for areas not visible.
 - .2 Board sizes: "Standard" or better grade.
 - .3 Dimension sizes: "Standard" light framing or better grade.

- .3 Quartz countertop with waterfall edge; colour to be selected from manufacturer's standard colour range.
- .4 Frames:
 - .1 Welded metal frame to section 05 55 00. Provide stamped shop drawings. Painted finish.
- .5 Wood Wainscoting skirt (below lavatories): oak veneer with hardwood mouldings. Walnut stain finish.

2.3 FABRICATION

- .1 Set nails and countersink screws apply stained or 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 Shelving to cabinetwork to be adjustable unless otherwise noted.
- .4 Provide cut-outs for plumbing fixtures, inserts, appliances, outlet boxes and other fixtures.
- .5 Shop assemble work for delivery to site in size easily handled and to ensure passage through building openings.
- .6 Obtain governing dimensions before fabricating items which are to accommodate or abut appliances, equipment and other materials.
- .7 Ensure adjacent parts of continuous laminate work match in colour and pattern.
- .8 Veneer laminated plastic to core material in accordance with adhesive manufacturer's instructions. Ensure core and laminate profiles coincide to provide continuous support and bond over entire surface. Use continuous lengths up to 2400 mm. Keep joints 600 mm from sink cut outs.
- .9 Form shaped profiles and bends as indicated, using post forming grade laminate to laminate manufacturer's instructions.
- .10 Use straight self-edging laminate strip for flatwork to cover exposed edge of core material. Chamfer exposed edges uniformly at approximately 20 degrees. Do not mitre laminate edges.
- .11 Apply laminate backing sheet to reverse side of core of plastic laminate work.
- .12 Apply laminated plastic liner sheet to interior of cabinetry.

2.4 FINISHING

- .1 Refer to Section 09 91 23 - Interior Painting.

Part 3 Execution

3.1 INSTALLATION

- .1 Do architectural woodwork to Quality Standards of the Architectural Woodwork Manufacturers Association of Canada (AWMAC), 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 countertop 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 Apply water resistant building paper over wood framing members in contact with masonry or cementitious construction.
- .7 Fit hardware accurately and securely in accordance with manufacturer's written instructions.

3.2 CLEANING

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

3.3 PROTECTION

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

3.4 SCHEDULES

- .1 Install millwork and cabinet work in locations as indicated on drawings.

END OF SECTION