

1 GENERAL

1.01 RELATED SECTIONS

- .1 Section 01 33 00 – Submittal Procedures.
- .2 Section 01 78 00 – Closeout Submittals.
- .3 Section 07 92 10 – Sealants
- .4 Section 09 91 00 – Painting

1.02 REFERENCES

- .1 American National Standards Institute (ANSI)
 - .1 ANSI A208.1-99, Particleboard.
 - .2 ANSI A208.2-02, Medium Density Fibreboard (MDF).
 - .3 ANSI/HPVA HP-1-2004, Standard for Hardwood and Decorative Plywood.
- .2 Architectural Woodwork Manufacturers Association of Canada (AWMAC) and Architectural Woodwork Institute (AWI)
 - .1 Architectural Woodwork Standards, 1st Edition, 2009.
- .3 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-11.3-M87, Hardboard.
- .4 Canadian Standards Association (CSA International)
 - .1 CSA B111-74(R2003), Wire Nails, Spikes and Staples.
 - .2 CAN/CSA G164-M92(R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.
 - .3 CSA O121-08, Douglas Fir Plywood.
 - .4 CSA O141-05 (R2009), Softwood Lumber.
 - .5 CSA O151-09, Canadian Softwood Plywood.
 - .6 CSA O153-M1980(R2008), Poplar Plywood.
- .5 National Electric Manufacturers Association (NEMA):
 - .1 NEMA LQ1, Decorative Boards
- .6 National Hardwood Lumber Association (NHLA)
 - .1 Rules for the Measurement and Inspection of Hardwood and Cypress v 1.1, 2011.
- .7 National Lumber Grades Authority (NLGA)
 - .1 NLGA Standard Grading Rules for Canadian Lumber, 2010

1.03 SUBMITTALS

- .1 General: Submit each item in this Article according to the Conditions of the Contract and the applicable Division 01 Specification Sections
- .2 Shop Drawings:
 - .1 Cabinetwork shop drawings to be to the same units of measure as architectural drawings.

- .2 Clearly indicate details of construction, profiles, jointing, fastening and other related details.
- .3 Samples:
 - .1 Submit a full size sample of a typical upper cabinet complete with specified hardware.
 - .2 Submit duplicate colour samples of laminated plastic, and melamine panels and all other materials exposed to sight for colour selection.
 - .3 The accepted sample shall be the standard of acceptance for the work of this Section.
- .4 Maintenance Data: Provide maintenance data for plastic laminate work for incorporation into maintenance manual specified in Section 01 78 00 "Closeout Submittals".

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

- .1 Protect materials against dampness during and after delivery.
- .2 Store materials in ventilated areas, protected from extreme changes of temperature or humidity.
- .3 Cover finished laminated plastic surfaces heavy kraft paper or put in cartons during shipment. Protect installed laminated surfaces by approved means. Do not remove protection until immediately before final inspection.
- .4 Do not store or install materials in areas where relative humidity is less than 25% or greater than 60% at 22oC.

1.05 WARRANTY

- .1 For the work of this Section, the 12-months warranty prescribed in the General Conditions of the Contract, is extended to 5 years.

2 PRODUCTS

2.01 Lumber Materials

- .1 Softwood lumber: Pine species: 7% moisture content, (minimum individual piece 5%, maximum individual piece 9%), grades in accordance with QSI Section 100, as follows:
 - .1 Exposed and semi exposed work: Grade II.
 - .2 Concealed work: Grade III.
 - .3 Finger-jointed lumber is not acceptable.

2.02 Panel Materials

- .1 Mat formed wood particleboard: industrial grade to ANSI A208.1, Grade R, density 449 k/m³, thicknesses as indicated.
- .2 Melamine panels: Melamine resin impregnated decorative sheet thermal fused to rigid particleboard substrate to the following standards:
 - .1 Particleboard core: particleboard as specified herein.
 - .2 Melamine finish: to NEMA LQ1, minimum 120 gram weight, thermally fused to both sides of particleboard. Colours to be selected by the Consultant from the

- melamine manufacturer's complete colour range. Colours which are unique to a particular manufacturer may be selected at no additional cost to the Owner. Colour of interiors of cabinets shall be white.
- .3 Prepainted UV board is not acceptable as a substitute for melamine specified herein.
 - .2 Hardboard: to CAN/CGSB 11.3, Type 2 (tempered), density 496 kg/m³, thickness 5 mm unless otherwise indicated, prefinished one side, colour white.
 - .3 Edge banding for melamine panels: "Polyband" polyester edge banding, 60 gram print paper, fully impregnated with polyester resin, hot meltcoated. Colour to match melamine. Apply to all exposed edges.
 - .4 Laminated plastic: in accordance with QSI Section 200, based on grades established by NEMA LD3, as follows:
 - .1 Postforming Grade (HGP):
 - .1 1 mm thick, satin textured finish colours to be selected by the Consultant from the manufacturer's complete colour range.
 - .2 Core: Particleboard as specified herein.
 - .2 Flatwork: Horizontal General Purpose Grade (HGS), 1.2 mm thick, satin textured finish, colours to be selected by the Consultant from the manufacturer's complete colour range.
 - .5 Adhesive for laminated plastic: as recommended by laminated plastic manufacturer.
 - .6 Sealants: in accordance with Section 07 92 00 "Joint Sealants".
 - .7 Nails and staples: to CSA B111, galvanized.

2.03 CABINETS

- .1 General description:
 - .1 Cabinets to be fabricated from melamine panels, 16 mm thick, two (2) colours to be selected from melamine manufacturer's standard colour range.
 - .2 QSI Section 1600, Custom Grade.
 - .3 Casework Type: Flush overlay.
 - .4 Edge banding: Polyester, hot melt bonded to panel edges. Colour to match melamine.
 - .5 Sections of cabinet/vanity containing sinks shall be fabricated with appropriate frame construction.
- .2 Concealed and semi-exposed gables: 19 mm melamine panels, edge banded, drilled for adjustable shelves.
- .3 Tops of upper cabinets and cabinet bottoms: 19 mm melamine panels, edge banded.
- .4 Doors and drawer fronts, exposed gables: 19 mm melamine panels, edge banded.
- .5 Shelves: 19 mm melamine panels, edge banded, adjustable, supported on plastic clips into predrilled holes in gables.
- .6 Backs:

- .1 Upper cabinets: 5 mm tempered hardboard, prefinished white, recessed 10 mm and backed up top and bottom by 19 mm x 64 mm melamine panel rails.
- .2 Lower cabinets: Rails top and bottom, no hardboard.
- .7 Drawer construction: 13 mm vinyl wrapped particleboard sub front, sides and back. 3 mm prefinished hardboard bottom.
- .8 Assembly and Finishing:
 - .1 Sand polyester edge banding to provide smooth edges.
 - .2 There shall be no exposed fasteners.
- .9 Countertops: plastic laminate with 100 mm backsplash on 16 mm particleboard.
- .10 Kickboards: 100 mm high x 13 mm thick, prefinished black melamine.
- .11 Cabinet Hardware: as selected by consultant.

2.04 FABRICATION

- .1 Cabinets to be fabricated using melamine panels throughout. Paint finish or vinyl faced materials are unacceptable.
- .2 Fabricate cabinetwork to applicable AWMAC custom quality standard except where otherwise specified or otherwise indicated on the drawings.
- .3 Fabricate and assemble cabinetwork items in fabricator's shop.
- .4 Verify dimensions on site before commencing fabrication
- .5 Fabricate units to manufacturer's standard lengths as follows:
 - .1 250 mm to 550 mm in 50 mm increments.
 - .2 600 mm to 1200 mm in 100 mm increments.
 - .3 Maximum length of upper cabinet: 900 mm
 - .4 Maximum length of lower corner cabinet: 1200 mm.
- .6 Provide matching filler pieces at ends of runs adjacent to return walls to make up dimension for exact fit. Maximum width of filler pieces to be 50 mm.
- .7 Join units on site with screws. Knock-down joint locations to be indicated on shop drawings, for review by the Consultant.
- .8 Shop joints to be pressure glued and hardwood dowelled, tight and flush, without nailing.
- .9 Fabricate fixed shelves and web frames with dado joints stopping back of exposed junctions.
- .10 Provide for built-in mechanical and electrical services and other equipment. Verify locations before cutting or drilling and allow suitable tolerances where required. Check shop drawings for such items. Where design requires services built-in during fabrication, employ a qualified technician and provide appropriate materials. Comply with governing codes.

- .11 Shop install cabinet hardware for doors, shelves and drawers. Use countersunk screws.
- .12 Shelving to upper cabinets to be adjustable unless otherwise noted.

3 EXECUTION

3.01 EXAMINATION

- .1 Examine areas and conditions under which work is to be performed and notify the Consultant in writing of conditions detrimental to the proper and timely completion of the work.
- .2 Do not proceed with the work until unsatisfactory conditions have been corrected to the satisfaction of the installer.
- .3 Take field measurements to verify or supplement dimensions.
- .4 Commencement of the installation will be construed as acceptance of the site conditions and, thereafter, the Contractor shall be fully responsible for satisfactory work as specified herein.

3.02 INSTALLATION

- .1 Do not install base cabinets until gypsum board behind cabinets has been painted.
- .2 Set and secure all materials and components in place, rigid plumb and square. Caulk counter tops to walls, scribe cabinets to walls and floors, install filler mouldings where required. Secure all cabinets to walls and floors, through back rails, top and bottom.
- .3 Scribe "toe kick" to floor. Hardboard "toe kick" unacceptable.
- .4 Provide heavy duty fixture attachments for wall mounted cabinets. Coordinate with Section 06 10 10 to ensure the provision of adequate wood blocking for fastening to stud walls.
- .5 Use draw bolts in counter top joints. Make flush hairline joints.
- .6 At junction of plastic laminate counter back splash and adjacent wall finish, apply a small continuous bead of white silicone caulking. Refer to Section 07 92 00 "Joint Sealants".
- .7 After installation, fit and adjust operating hardware for cabinet doors, drawers and shelves. Adjust so that doors and drawer fronts are perpendicular and square.
- .8 Provide cutouts for plumbing fixtures, inserts, appliances, outlet boxes and other fixtures. Ensure that cutouts are accurate, square and perpendicular where applicable, in required locations and at required heights.

END OF SECTION
