
PART 1 - GENERAL

1.1 WORK INCLUDED

- .1 Supply cabinetry as shown and specified. Deliver to jobsite for unloading into designated locations within building.

1.2 REFERENCES

- .1 Do millwork to Millwork Standards of the Architectural Woodwork Manufacturers Association of Canada (AWMAC).
- .2 Do millwork to meet the recommendations of CAN/CSA B651-12 Accessible Design for the Built Environment.

1.3 SUBMITTALS

- .1 Submit shop drawings in accordance with Section 01 33 00.
- .2 Clearly indicate details of construction, profiles, jointing, fastening and other related details:
 - .1 Scale: details full size.
- .3 Indicate all materials, thicknesses, finishes and hardware.
- .4 Indicate locations of all service outlets in casework, typical and special installation conditions, and all connections, attachments, anchorage and location of exposed fastenings. Highlight areas which require data on built-in components supplied by the Departmental Representative.

1.4 MOCK-UPS

- .1 Construct mock-ups in accordance with Section 01 33 00 Submittal Procedures.
- .2 Shop prepare one base cabinet unit, wall cabinet, countertop, shelving unit, complete with hardware and shop applied finishes, and install on project at designated location.
- .3 Allow 24 hours for inspection of mock-up by Departmental Representative 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.

1.5 JOB CONDITIONS

- .1 Relative humidity in areas where materials are stored or installed shall not exceed 55%.
- .2 Work of this Section shall be protected from damage and deterioration during and following installation until Project completion.
- .3 Employ waste management practices including cabinet hardware, for review. Submit samples as required by the Departmental Representative.
 - .1 Save and protect corrugated cardboard wrapping materials for recycling.
 - .2 Save, separate and protect wood construction debris. Where possible reuse such products as temporary construction such as barriers.
 - .3 Use the least toxic adhesives, cleaners, sealers, etc., necessary to comply with the requirements of this Section.
 - .4 Fold up and flatten metal banding and save for recycling.

1.6 WARRANTY

- .1 Submit a Warranty for the Work of this Section for a period of one (1) year as specified in the General Conditions of the Contract.
- .2 Replacement during the Warranty Period shall include fitting, installation, reinstallation of hardware, grilles and glass.

PART 2 - PRODUCTS

2.1 WOOD MATERIALS

- .1 Softwood lumber: to CSA 0141 and National Lumber Grades Authority requirements, maximum moisture content of 7% for interior work selected for appropriate finish to AWMAC “custom” grade.
- .2 Hardwood lumber: to National Hardwood Lumber Association (NHLA) requirements, maximum moisture content of 7%, to AWMAC “custom” grade.
- .3 Hardwood Plywood: to CSA 0115-M of thickness indicated, birch veneer of good one side, unless otherwise noted.
- .4 Douglas fir plywood: to CSA 0121, sanded grade good two sides where both sides

are exposed to view, good one side otherwise.

- .5 All plywood is to be urea-formaldehyde free (UFF).

2.2 COMPOSITE MATERIALS

- .1 Particle Board
- .1 For countertops: to CAN3-0188.1, Grade M3 19mm thick, exterior grade for tops with sinks.
 - .2 For Flat Work and other Work: medium density particle board, Grade R, 721 kg/m³, 19mm or thickness indicated, exterior grade for cabinets with sinks.
 - .3 All particle board is to be urea-formaldehyde free (UFF).

2.3 FINISH MATERIALS

- .1 Plastic Laminate: to CSA A172-M.
- .1 Laminate to meet the following performance standards:
 - ANSI/NEMA Publication LD 3-2000
 - Wear Resistance: 1000 cycles NEMA LD3.3.13
 - Impact Resistance: (Inch drop) 66 inches NEMA LD3.3.8
 - Dart Impact Resistance: 700mm NEMA LD3.3.9
 - Resistance to Boiling Water: No Effect NEMA LD3.3.5
 - Resistance to High Temperature: No Effect NEMA LD3.3.6
 - Radiant Heat Resistance: 300 seconds NEMA LD3.3.10
 - Stain Resistance: Unaffected by reagents 1-15 NEMA LD3.3.4
 - Light Resistance: No Effect NEMA LD3.3.3
 - .2 Finish: suede.
 - .3 Colours as selected by the Consultant as indicated on the millwork drawing.
 - .4 Materials:
 - .1 For "flat-work": 1.15 mm thick grade, general purpose.
 - .2 For "postforming": 0.75 mm thick postforming grade.
 - .5 Laminating adhesives to be free of added urea-formaldehyde.
- .2 MCP Melamine Component Panels – interior concealed shelving
- .1 Material to be manufactured to American Laminators Association Performance Standards and ANSI A208.1, Grade M3.
 - .2 Construction laminated sandwich of melamine resin impregnated paper thermally fused to a medium density fibreboard (MDF) core. MDF to ANSI A2082, density 769 kg/m.
 - .3 Finish suede with a gloss rating of 13. White finish from manufacturer's full range of patterns and colours. Maximum four (4) colours for the project. Allow for price grouping 5 or lower.

- .4 All MCP panels to be edged with:
 - .1 Solid high impact, purified colour-thru PVC, 3mm thick, hot machine applied, and automatically trimmed face, back and corners for a uniform appearance.
 - .2 Laminating adhesives to be free of added urea-formaldehyde.
- .5 All MCP panels to be urea-formaldehyde free (UFF).

2.4 FASTENERS AND HARDWARE

- .1 Cabinet Hardware
 - .1 Door Hinges:
Full overlay application, concealed and self-closing.
 - .2 Door and Drawer Pulls:
'D' pulls mat nickel finish or approved equal. For specific sizes refer to drawings.
 - .3 Drawer System:
Integral full extension metal drawer metal sides with nylon roller on epoxy coated slides (white), c/w silent closure.
 - .4 Locks: Where indicated.
22.23mm drawer lock, five (5) disc-tumbler. Locks to be keyed alike unless noted otherwise.
 - .5 Elbow Catch:
Steel catch and strike installed on left hand door of double locking doors.
 - .6 Door and Drawer Bumpers: (all locations)
 - .7 For specialty items such as waste bins refer to drawings.

2.5 FABRICATION

- .1 Fabricate general purpose cabinetry as follows:
 - .1 Fronts and all exposed gables, top and bottoms and panels to be balanced HPL faced plywood.
 - .2 Interiors to be MCP panels.
 - .3 Shelves to be 19mm on metal pins into drilled holes. If the shelves span farther than 900mm they shall be of 25mm MCP.
 - .4 Filler and scribe strips to match doors.
 - .5 Backs to be 12mm MCP panels.

- .6 Drawer fronts to be balanced HPL faced plywood same colour as door; securely fastened to drawer box unit.
- .7 Exposed and semi-exposed edges to be covered with 3 mil PVC, radiused and rounded on all door and drawer fronts.
- .8 Countertops to be postformed plastic laminate, except where indicated as flat-work.
- .9 Toekicks to be 19mm plywood covered by others unless otherwise detailed.
- .10 Any required wood members to be hardwood.
- .11 Plastic anchor insert or bolt through construction for all hardware.
- .12 Wooden dowels at all glued connections.
- .13 Bolt through connections for side to side connections.

- .2 Shop fabricate pre-finished cupboard sections so that they are self-supporting, square, plumb and true.

2.6 PLASTIC LAMINATE

- .1 Layout laminate pieces in minimum 3600mm (144") long pieces and with joints at least 600mm (24") from sink cutouts. Ensure hairline joints.
- .2 Ensure laminate is fully supported by core material.
- .3 Adhere plastic laminate to core material in strict accordance with adhesive manufacturer's written instructions. Apply adhesive over entire surface.
- .4 Exposed edges of flat work are to be moderately and uniformly bevelled (20° off vertical).
- .5 All exposed edges of core material are to be faced with plastic laminate to match.
- .6 At mitred countertop corners, use draw bolts and splines, spaced at maximum 400mm (16"), and so as to produce hairline crack along joint.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Do architectural woodwork to Quality Standards of the Architectural Woodwork Manufacturers' Association of Canada (AWMAC).
- .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 At junction of plastic laminate counter back splash and adjacent wall finish, apply small bead of sealant.
- .7 Apply bituminous coating over wood framing members in contact with masonry or cementitious construction.
- .8 Fit hardware accurately and securely in accordance with manufacturer's directions.

3.2 CLEANING

- .1 Clean millwork and cabinet work inside cupboards and drawers and outside surfaces.

3.3 PROTECTION

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

3.4 SCHEDULES

- .1 Refer to drawings for casework elevations and details.

END OF SECTION 06 40 00