

PART 1 GENERAL

1.1 SECTION INCLUDES

- .1 Finish carpentry items including shop prefabricated casework and countertops.
- .2 Hardware and attachment accessories.
- .3 Wood Benches.
- .4 Wall panels.

1.2 RELATED SECTIONS

- .1 Section 06114 – Rough Carpentry
- .2 Section 09900 – Paint and Coatings: Painting and finishing of finish carpentry items.
- .3 Section 10010- Miscellaneous Specialties: factory assembled tack boards.
- .4 Division 15 – Mechanical items in casework.
- .5 Division 16 – Electrical items in casework.

1.3 REFERENCES

- .1 ANSI A135.4 - Basic Hardboard.
- .2 ANSI A208.0 – Medium Density Fiberboard
- .3 ASTM E84 - Test Method for Surface Burning Characteristics of Building Materials.
- .4 NLGA (National Lumber Grades Authority) - Standard Grading Rules for Canadian Lumber.
- .5 CSA 0121M - Douglas Fir Plywood
- .6 CSA 0151M - Canadian Softwood Plywood
- .7 AWMAC - Quality Standards.
- .8 CAN3-A172M - High Pressure Decorative Laminates.

1.4 SUBMITTALS

- .1 Shop Drawings: Indicate materials, component profiles and elevations, assembly methods, joint details, fastening methods, accessory listings, hardware location and schedule of finishes.
- .2 Product Data: Provide data for hardware accessories.

1.5 QUALITY ASSURANCE

- .1 Perform work in accordance with AWMAC Premium quality.

1.6 QUALIFICATIONS

- .1 Fabricator: Company specializing in fabricating the products specified in this section with minimum five years documented experience.

1.7 DELIVERY, STORAGE, AND HANDLING

- .1 Protect work from moisture damage.
- .2 Store materials in ventilated interior locations with constant minimum temperatures of 16 degrees C and maximum relative humidity of 55 percent.

1.8 FIELD MEASUREMENTS

- .1 Verify that field measurements are as indicated on shop drawings.

1.9 COORDINATION

- .1 Coordinate the work with plumbing and electrical rough-in, installation of associated and adjacent components.

PART 2 PRODUCTS

2.1 LUMBER MATERIALS

- .1 Softwood Lumber: Graded in accordance with AWMAC Custom Premium; species, sawn, maximum moisture content of 6 percent; with vertical mixed flat grain , of quality suitable for transparent finish.
- .2 Hardwood Lumber (benches): Graded in accordance with AWMAC Premium; maple species, , maximum moisture content of 6 percent; of quality suitable for transparent finish.

2.2 SHEET MATERIALS

- .1 Softwood Plywood: Graded in accordance with CSA 0121M- Douglas Fir; AWMAC G1S; veneer core.
- .2 Fibreboard panels (FWP): engineered fiberboard panels; non-formaldehyde binders with wheat straw fibers, Wood Stalk manufactured by Dow BioProducts Ltd.
- .3 Hardwood veneer plywood: clear maple on Wood Stalk fibreboard core, 19 mm thick unless otherwise noted.
- .4 Hardboard: 11-GP-3M; Pressed wood fiber with resin binder, Type 1 - standard grade, 3 mm thick, smooth one side.
- .5 Glass: Type A specified in Section 08800; 5 mm thick.
- .6 Tackable material for bulletin board and display case (BB-1): Forbo Linoleum; colour 2186; uni-coloured linoleum 6 mm thick.

2.3 PLASTIC LAMINATE MATERIALS

- .1 Plastic Laminate: to CAN3-A172- M; 1.3 mm General Purpose quality. Provide the following colours and textures.
 - .1 Plam-1: Print Abet laminate; 1268 soft; Blue Net.
 - .2 Plam-2: Formica; 3234-58; Grasshopper; Matte Finish.
 - .3 Plam-3 Nevamar; S 3055T; Violine; Textured Finish.
 - .4 Plam-4: Nevamar; MP 600T; Silver Metaphor Textured; Armored Protection Finish.
 - .5 Plam-5: Nevamar; S2092 T; Cream Puff; Textured Finish.
- .2 Laminate Backing Sheet: 0.5 mm Backing Sheet grade, undecorated plastic laminate.

2.4 ADHESIVE

- .1 Adhesive: Type recommended by laminate manufacturer to suit application.

2.5 FASTENERS

- .1 Fasteners: Of size and type to suit application.

2.6 ACCESSORIES

- .1 Primer: Alkyd primer sealer e.

2.7 HARDWARE

- .1 Shelf Standards and Rests: KV No.255 c/w No.256 supports. Nickel finish.
- .2 Shelf Brackets (wall): Adjustable standards and brackets: K & V, No. 87 ANO anochrome standards; with K & V No. 187 ANO anochrome brackets for 12" shelves; with 211 ANO centre bracket for attachment of shelf to bracket.
- .3 Drawer and Door Pulls: "U" shaped pull, steel with chrome finish; Richelieu, #491, finish 140, chrome metal, 96 mm c.c., M4 screw.
- .4 Cabinet Locks: Keyed cylinder, two keys per lock, nickel plated finish.
- .5 Glass Door locks (display case): Liberty cam lock Model No. L1958A; keyed alike.
- .6 Catches: elbow catch on inactive leaf; nickel plated finish.
- .7 Drawer Slides (middle and bottom drawer): Galvanized steel construction, ball bearings separating tracks, full extension type. K V 8500, length to suit.
- .8 Drawer Slides (top drawer): Galvanized steel construction, ball bearings separating tracks, 3/4l extension type. K V 8350, length to suit.
- .9 Hinges: Blum 90 concealed hinges, 176° opening, spring closed. chrome finish.
- .10 Computer Desk Grommets: 76 mm inside diam., circular black plastic.

- .11 Keyboard system: K & V; optimal Opt-4 25" w c/w full length gel wrist rest.
- .12 Glass door hinges (display case): Liberty Hardware; large side mounted glass door hinge; model no. H16980; BP finish.

2.8 FABRICATION - CASEWORK

- .1 Fabricate to AWMAC Premium standards.
- .2 Shop assemble work for delivery to site, permitting passage through building openings.
- .3 All casework to be plastic laminate on Fibreboard core unless otherwise indicated.
- .4 Counter tops shall be plastic laminate on veneer core plywood.
- .5 Drawers: veneer core birch sides, front (box drawers) and back with hardboard bottoms.
- .6 Drawer fronts and doors shall be plastic laminate on fibreboard core.
- .7 Cap exposed plastic laminate finish edges with material of same finish and pattern.
- .8 Provide cutouts for plumbing fixtures, appliances, fixtures and fittings. Verify locations of cutouts from on-site dimensions. Seal cut edges.
- .9 Apply edging to all edges of loose shelves.
- .10 When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.
- .11 Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 600 mm from sink cut-outs.
- .12 Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.

2.9 WALL PANELS

- .1 Strawboard wall panels: 1200 x 3000 x 19 mm nominal with 9 mm bevel on all four edges.
- .2 Fastening: stainless steel tamper proof screws with stainless steel cup washers, and construction adhesive.

PART 3 EXECUTION

3.1 EXAMINATION

- .1 Verify adequacy of backing and support framing.
- .2 Verify mechanical, electrical, and building items affecting work of this section are placed and ready to receive this work.
- .3 Verify location and sizes of utility rough-in associated with work of this section.

3.2 INSTALLATION

- .1 Install work in accordance with AWMAC Premium Quality Standard.
- .2 Set and secure materials and components in place, plumb and level.
- .3 Carefully scribe work abutting other components, with maximum gaps of 1 mm. Do not use additional overlay trim to conceal larger gaps.
- .4 Install fibreboard paneling with tamper proof screws and cup washers and wall adhesive by the bead method at 300 mm on center. Locate exposed fasteners 25mm from panel edges, one screw at each corner of panel and an additional screw at midpoint between corner screws at all four edges.

3.3 INSTALLATION CASEWORK

- .1 Set and secure casework in place; rigid, plumb, and level.
- .2 Use fixture attachments in concealed locations for wall mounted components.
- .3 Use concealed joint fasteners to align and secure adjoining cabinet units and counter tops.
- .4 Carefully scribe casework abutting other components, with maximum gaps of 1 mm. Do not use additional overlay trim for this purpose.
- .5 Secure cabinet and counter bases to floor using appropriate angles and anchorages.
- .6 Countersink anchorage devices at exposed locations. Conceal with solid wood plugs of species to match surrounding wood; finish flush with surrounding surfaces.

3.4 PREPARATION FOR SITE FINISHING

- .1 Set exposed fasteners. Apply wood filler in exposed fastener indentations and leave ready to receive applied finishes. On items which are to receive transparent finishes, use wood filler which matches surrounding surfaces and of type recommended for applied finishes. Sand work smooth.
- .2 Before installation, prime paint surfaces of items or assemblies to be in contact with cementitious materials.

3.5 ERECTION TOLERANCES

- .1 Maximum Variation from True Position: 1.5 mm.
- .2 Maximum Offset from True Alignment with Abutting Materials: 0.7 mm.

3.6 ADJUSTING

- .1 Adjust moving or operating parts to function smoothly and correctly.

END OF SECTION