06 10 01 PERFORMANCE REQUIREMENTS

1. Design wood frame structures targeting a design service “Long Life” as defined in the CSA-S478 Guideline on Durability in Buildings.


3. Protect all wood frame components in contact with concrete, masonry or other building materials susceptible to moisture.

4. All exposed wood framing to be preservative treated or treated with other factory or field applied treatment, coating, or preservative.

5. All wood frame design and detailing to accommodate material shrinkage.

6. Finger jointed studs are not acceptable for exterior wall construction.

7. All exterior wall and roof sheathing to be plywood. OSB and gypsum board are not acceptable products.

8. Subfloors to be tongue and groove plywood; glued and screwed.

9. All wood shear walls are to be sheathed with plywood.

10. All manufactured wood products are to be protected from weather exposure at all times including delivery, storage and installation.
**06 40 01 PERFORMANCE REQUIREMENTS**


2. Quality standards for materials and installation shall be in accordance with the definitions of terms from the current edition of the AWMAC Manual:
   i. “Custom” grade: typical standard.
   ii. “Premium” grade: areas with enhanced architectural character, such as executive boardrooms and offices, ceremonial rooms, performing arts facilities, prestigious areas of high public use, etc.

3. The use of products from local manufacturers is preferred.

4. Avoid adhesives, preservatives, hardeners, synthesizing agents and finish coatings that contain formaldehyde and high V.O.C. content.

5. MDF to be formaldehyde-free and recycle certified.

6. Plywood shall be exterior grade (i.e. manufactured with formaldehyde-free adhesives).

7. Design of all furnishings shall primarily consider the use of standard size, pre-manufactured, freestanding modular furniture wherever possible.

8. Wall mounting: all wall mounted shelves, pilasters, coat hooks, panels, modular furniture, etc., shall be fastened either into wall studs or suitable backing materials, for adequate load capacity and seismic restraint. Freestanding units shall be seismically restrained.

9. Consult with FMGT to confirm the following requirements:
   i. Cabinet and Door Hardware: Provide 2% additional hardware stock of each type and finish.
   ii. Mock-ups: Provide freestanding mock-ups for large or enhanced architectural character projects.
   iii. Wall-mount Shelving: To be included within the Contractor’s work.
   iv. Surface Finishes for Specialized Uses: Provide chemical and wear resistance in labs, darkrooms, etc.

**06 41 01 CABINETRY**

Typical Cabinetry

1. Typical cabinet construction shall be 19 mm Baltic Birch plywood, G2S.

2. Endangered wood species must not be used. Sustainable and certified wood species are preferred. Encouraged materials are as follows: Ash, Birch, Cherry, Cypress, Hemlock, Magnolia, Oak, Pine, Spruce, Sycamore, or Walnut.

3. Solid wood and veneer materials are acceptable; Maple or Birch. Confirm with FMGT quality requirements for specific locations.

4. The use of mechanical fasteners is preferred over adhesives.

5. Maximize recycled content.
6. Drawer construction to be minimum 12 mm (1/2") plywood (Birch or Apple).

7. Edge Banding: Solid 6 mm (1/4") Birch or same species as veneer when hardboard veneer is used.


Laboratory Cabinetry

1. Wood to be used only with approval from FMGT. Preference is for pre-fabricated metal casework with factory finishes.

2. Provide a 50 mm clear plastic lip at the front of all shelving used for chemical storage to avoid spillage.

3. Design for vibration control.

Typical Countertops / Work Surfaces – Materials

1. High pressure plastic laminates (1 1/8" min. thickness).
   i. Application: Administration areas, staff lounges and kitchen areas, general purpose surfaces.
   ii. General purpose or high wear to suit application:
       a. 1.20mm thick: Flatwork, countertops.
       b. 1.00mm thick: Vertical surfaces (backsplashes) and post-forming work.
       c. 0.75mm thick: Backing sheets.
   iii. Provide finished surface (or backer sheet when concealed) on all surfaces of the core.
   iv. 1 1/8" minimum thickness.
   v. MDF shall be the typical core material.
   vi. Plywood core to be used in the following locations:
       a. Countertops with plumbing.
       b. High humidity and moisture locations.
       c. Food service areas.
   vii. Edging: Solid surface, laminated rolled edge, or PVC T mold edge (confirm with FMGT).

2. Stainless steel (minimum 14 ga. Grade 304).
   i. Application: Food preparation areas.

3. Solid cast epoxy resin (ie Corian).
   i. Application: Washrooms.

Laboratory Countertops / Work Surfaces

1. Design to minimize joints. Where possible, tops to be continuous with no open seams.

2. Surfaces to be integral with backsplash.

3. All edges to be rounded.

   i. Solid cast epoxy resin.
   ii. Stainless steel (minimum 14 ga. Grade 304) (mandatory for Containment Level 4 Labs).
   iii. Resin-impregnated natural stone.
   iv. Laboratory grade plastic laminate (1 1/8" min. thickness).
06 41 02  SHELVING AND STORAGE

Wall-Mounted Shelving

1. Each office shall be provided with wall-mounted shelving, 305 mm wide, Birch plywood.

2. Shelving Quantities Per Office: Vertical spacing at 355 mm o/c; bottom shelf at 405 mm above finished floor, to a max. stack of 5 shelves. Horizontally, total shelving length max. 12.2 lin. Metres.

3. Pilasters: Single slot, 2100mm length throughout, including where only 3 or 4 shelves are specified. Products:
   i. Reeve, heavy duty wall standard and bracket system, Brillatone (Satin Zinc) finish, as supplied by Matthews Store Fixtures and Shelving.
      a. Wall Standard: Line 700; 3.2 mm thick steel; screw holes at 305 mm o/c.

Coat Hooks

1. Coat hooks are typically installed on the interior wall adjacent to the hinge side of the door, mounted on a 125 mm wide birch ply panel, with the bottom edge at 1550mm above finished floor. Provide hooks spaced as indicated in the table, in the rooms identified below. Adjust spacing to fit 3 hooks on a 650mm panel and 4 hooks on an 800mm panel.
   i. Each office shall be equipped with 2 hooks, installed as shown in table below.
   ii. Each meeting room and designated lab or seminar room, which is not served by a closet or alcove, shall be equipped with 3 to 5 hooks, installed as shown in the table below.

<table>
<thead>
<tr>
<th>No. of Hooks</th>
<th>Centered on Panel and Spaced at (mm)</th>
<th>Length of Panel (mm)</th>
<th>Vertical Panel Edge from Corner of Room (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>450</td>
<td>650</td>
<td>200</td>
</tr>
<tr>
<td>5</td>
<td>150</td>
<td>800</td>
<td>100</td>
</tr>
</tbody>
</table>

2. Coat hooks shall be heavy-duty, metal, satin chrome or brushed aluminum finish. Acceptable products:
   i. Bobrick B6827 (satin stainless steel).
   ii. Bradley 9134.
   iii. 140mm long 237BCV (brushed chrome).

Closets and Coat Alcoves

1. Each closet and coat alcove shall have one:
   i. Hat shelf: 450mm wide, birch ply.
   ii. Adjustable chrome-finish hanging rod: Richelieu, rod #122.208.140; bracket #1225-140.

Note: The above assemblies are typical throughout the campus, and are normally installed by the Contractor or in special instances by FMCA.

06 41 93  CABINET AND DRAWER HARDWARE

Cabinet and Shelving Hardware

1. Use only heavy duty hardware.
2. Cabinet Locks: Schlage “CL” series. In order to maintain consistent keying throughout the campus, alternates are NOT acceptable for cabinet locks. Mount flush to face of cabinetry.
   i. Review locking and keying requirements with UVic.
   ii. Keyway to be specified by UVic and Key Schedule to be supplied by UVic.
   iii. Door Locks: CL100PB (25mm throw bolt) c/w trim collar 36-031 and slot strike 10-052.
   iv. Drawer Locks: CL200PB (19mm throw bolt) c/w trim collar 36-031 and slot strike 10-052.
   vi. Cylinder Alignment: Vertical (horizontal alignment not acceptable).

3. Metal bolt – to be installed at the stationary door of a pair with a lockable active door.
   i. Richelieu – B 375-180, chromium or nickel finish, complete with recessed mounted slot strike installed with countersunk screws.


5. Drawer Slides: Side mount, ball bearings, full extension, telescoping, trigger disconnect, chrome or zinc finish. Products (select to suit use):
   i. Accuride: 3832 series – 45 kg rating; 3640 series – 90 kg rating (storage drawers)
   ii. Grant, HEG-4932 – load rating 60 kg.


7. Pulls: Wire type D-pull 9mm diameter, 96mm centres, 26mm depth, chrome satin finish. Product: Gallery 945-26D, or Richelieu 2214-175.


9. Glass for cupboard doors: 6mm thick, clear, tempered.

10. Door and Drawer Bumpers: 5mm diameter, neutral colours; 2 bumpers per door up to 1200mm in door height; 3 bumpers per door over 1200mm in door height; 2 bumpers per drawer.

11. Adjustable Shelf Supports: (Semi)-recessed (not surface mounted) pilasters c/w seismic support clips. Products: Richelieu, Pilasters 2552G c/w clips 242762G.

12. Grommets to suit wiring through millwork components: Cable entry plug, plastic, typical, φ72mm, larger φ where required. Product: Richelieu A 60.0910-90, or larger size, asa required.

Hardware Schedule

Consultant shall produce the Hardware Schedule, as part of project documentation.