

CSC 40(50)-Beds Living Units

Technical Specification

Rev. 3

1.0 RELEASE

- 1.0 This Specification release date June 13, 2012, revision 3 by CORCAN Industries, Bath, Ontario.

MILLWORK in Kitchens

2.0 MATERIALS

- 2.1 Laminate shall be:
 - 2.1.1 Low-pressure laminate (melamine) shall be sandwich panels consisting of resin impregnated paper thermal-fused to both faces of an Industrial Grade R particleboard to CAN3-0188.1-M78, min.105 gram paper weight, 45 lb. density, mat formed machine finished.
 - 2.1.2 All box components shall be a minimum 5/8" (16 mm) thick with the exception of the back which shall be a minimum of 1/2" (12.5 mm) thick unless otherwise specified on CORCAN shop drawings.
 - 2.1.3 All doors & drawer fronts shall be 5/8" (16 mm) thick unless otherwise noted on CORCAN shop drawings.
 - 2.1.4 "Melamine as standard" for interior and exposed vertical surfaces.
- 2.2 All exposed cabinet panel faces to be Melamine or Plastic Laminate as specified, or as indicated on CORCAN shop drawings. Colour to be as specified by client and indicated on CORCAN shop drawings, with the exception of the back and drawer bottoms, which shall be coloured to match or as per CORCAN shop drawings.
- 2.3 All countertops to be:
 - 2.3.1 Plastic Laminate Post-Formed w/integral backsplash and attached sidesplash as requested.
 - 2.3.2 Plastic Laminate Post-Formed w/o integral backsplash or sidesplash as requested.
 - 2.3.3 Flat Plastic Laminate pressed as requested, with or without hardwood trim, bullnose as requested.
 - 2.3.4 Above to be applied as requested or as situation demands for optimum quality.
 - 2.3.5 Colour of laminate to be as specified by client and indicated on CORCAN shop drawings.
 - 2.3.6 Post-formed profile section to be "Innovation" style, with details attached.
- 2.4 Edge banding is to be:
 - 2.4.1 PVC material trimmed and smoothed to the full thickness of the panel. On cabinets, shelves and drawer bottoms all exposed edges shall be trimmed with 3mm thick PVC. All edges and corners to be relieved. Doors and drawers shall have exposed edges trimmed with 3mm thick PVC. All edges and corners to be relieved 3mm radii.
 - 2.4.2 Edge banding colour to match melamine panels or as specified on CORCAN shop drawings.
 - 2.4.3 Laminated plastic: to CAN3-A172-M79 grade post-forming (PF) and general purpose, (GP.) type S standard (S), mat or as requested.
- 2.5 Particleboard core for plastic laminate, mat-formed wood to CAN3-0188.1-M78, Grade H, sanded, 45 lbs. Density.

- 2.6 Drawer bottoms, same as 2.1, colour to match, both faces or as specified on CORCAN shop drawings, and shall have a minimum overall 1/4" (6 mm) thickness.
- 2.7 Drawer sides to be as per 2.1 and 2.2.
- 2.8 Doors shall be as per 2.1 and 2.2.
- 2.9 Shelves shall be to 2.1. and 2.2 adjustable at 32.0 mm increments.
- 2.10 Adhesive for laminating high-pressure plastic to panels shall be polyvinyl acetate emulsion, non-flammable. This shall be applied to panel faces if applicable.
- 2.11 Adhesive for bonding P.V.C. edging to panels shall be synthetic resin emulsion or high heat resistant adhesive, non-flammable. This shall be applied to panel edges if applicable.
- 2.12 Kicks:
 - 2.12.1 All cabinet toe kicks will be a minimum of 3/4" (19 mm) thick plywood unfinished, unless otherwise stated on CORCAN shop drawings.
 - 2.12.2 All cabinet separate base will be plywood, minimum 19mm thick 5-ply minimum, unless otherwise stated on CORCAN shop drawings.
- 2.13 All materials as per above unless otherwise noted on CORCAN shop drawings.

WORKSTATIONS in Offices

3.0 MATERIALS

- 3.1 Gable supports, doors, modesties and backs:
 - 3.1.1 These items are constructed from vertical panels made of low-pressure laminate (melamine).
 - 3.1.2 They shall be sandwich-panels consisting of resin impregnated paper, thermal-fused to both faces of an industrial grade R particleboard to CAN3-0188.1-M78, 120 density, mat-formed, and machine finished.
 - 3.1.3 Finished panel thickness will be 25mm minimum.
 - 3.1.4 Front surface of exposed hutch back is finished with tackable cork surface such as 13mm Korlite.
- 3.2 Panel edging:
 - 3.2.1 Edging is PVC material, 3mm thick, trimmed and smoothed to the full thickness of the panel. All edges and corners are to be relieved with a 3mm radius. Colour to match panel surface or as specified on CORCAN shop drawings.
 - 3.2.2 Adhesive for bonding PVC edging to panels shall be synthetic resin emulsion or high-heat resistant adhesive, non-flammable.
 - 3.2.3 Adhesive shall be applied to panel edges if applicable.
- 3.3 Work surfaces for desks, run-offs, credenzas, corner units, and 'D' surfaces:
 - 3.3.1 These are to be particleboard core, mat-formed wood to CAN3-0188.1-M78, Grade H, sanded, finished top and bottom with plastic laminate to CAN3-A172-M79 grade, general purpose, (GP.) type S standard (S) mat or as requested.
 - 3.3.2 Top surface is a decorative laminate (plam) and bottom backer is of equal thickness to balance the panel. The backer sheet is black or brown in color.
 - 3.3.3 Decorative colours are to be as indicated on shop drawings.
 - 3.3.4 Finished panel thickness will be 27.4mm minimum.
 - 3.3.5 Adhesive for laminating high-pressure plastic to panels shall be polyvinyl acetate emulsion, non- flammable.
 - 3.3.6 Adhesive shall be applied to panel faces if applicable.
 - 3.3.7 Standard finished working height is 762mm from floor.

- 3.3.8 The standard modesty panel is 335mm from bottom edge to the floor allowing for standard electrical box locations.
- 3.3.9 Provisions for other required dimension is as indicated on CORCAN shop drawings.
- 3.4 Support posts for 'D' surfaces:
 - 3.4.1 Unless otherwise stated on CORCAN shop drawings supports shall be 80mm diameter metal with an adjustable floor glide, metal threaded stem with nut at base, nickel plated.
 - 3.4.2 Base is nylon, non floor-marking.
 - 3.4.3 Finish is painted colour as indicated on CORCAN shop drawings.
- 3.5 Drawers for mobile pedestals and fixed lateral files:
 - 3.5.1 All vertical drawer box components shall be 13mm thick particleboard.
 - 3.5.2 These will be grooved at bottom to allow insertion of drawer bottom.
 - 3.5.3 Box is to be made of 2 sides, a front and vinyl back wrapped, 0.29mm thick.
 - 3.5.4 Colour is to be satin black.
 - 3.5.5 All drawer fronts shall be 19mm thick melamine finished as per 3.1.
 - 3.5.6 Drawer fronts shall be trimmed with 3mm banding with 3mm radius.
 - 3.5.7 Drawer slides are rated for a 100lb dynamic load.
 - 3.5.8 Anti-tip features are provided as necessary.
- 3.6 Drawer bottoms:
 - 3.6.1 These will be low pressure laminate sandwich panels consisting of resin impregnated paper, thermal fused to both faces of an industrial grade R particle board to CAN3-0188.1-M78, 120 density, mat-formed, machine finished.
 - 3.6.2 Colour to be black, 3mm thick.
- 3.7 Drawer filing units are a fixed "H" shaped rigid extrusion on all 4 sides allowing both side-to-side and front-to-back orientation for hanging file folders.
- 3.8 Pencil tray is black plastic. Size is 140mm wide x 323mm long x 21mm deep. Tray is located in all pedestal top drawers.
- 3.9 For sizes of bookcases, desk mounted hutches, pedestals mobile and fixed, lateral files, study carrels, and podiums see CORCAN shop drawing package.
- 3.10 Shelves shall be 25mm thick finished with materials per 3.1 and 3.2. If adjustable, then adjustments shall be at 32mm increments.
- 3.11 Desk mounted hutches shall have 2 fixed shelves at 25mm thick. Finish and materials per 3.1 and 3.2 allowing a 560mm height of to accommodate a monitor. Unit shall be secured to desk top with 2 brackets.
- 3.12 Back panels 19mm melamine on hutches with tackable 13mm thick Korlite finish.
- 3.13 All materials shall be as per above unless otherwise noted on CORCAN shop drawings.

BEDROOMS

4.0 MATERIALS

- 4.1 Gable supports, doors, modesties and cover panels :
 - 4.1.1 These items are constructed from vertical panels made of low-pressure laminate (melamine).
 - 4.1.2 They shall be sandwich-panels consisting of resin impregnated paper, thermal-fused to both faces of an industrial grade R particleboard to CAN3-0188.1-M78, 120 density, mat-formed, and machine finished.
 - 4.1.3 Finished panel thickness will be 25mm on desk and hutches, 19mm on beds, 16mm on night tables and wardrobes.

- 4.1.4 Front surface of exposed hutch back is finished with tackable cork surface such as 13mm Korlite.
- 4.1.5 Beds interior frame shall be 19mm plywood.

4.2 Panel edging:

- 4.2.1 Edging is PVC material, 3mm thick, trimmed and smoothed to the full thickness of the panel. All edges and corners are to be relieved with a 3mm radius. Colour to match panel surface or as specified on CORCAN shop drawings.
- 4.2.2 Adhesive for bonding PVC edging to panels shall be synthetic resin emulsion or high-heat resistant adhesive, non-flammable.
- 4.2.3 Adhesive shall be applied to panel edges if applicable.

4.3 Work surfaces for desks, run-offs, credenzas, corner units, and 'D' surfaces:

- 4.3.1 These are to be particleboard core, mat-formed wood to CAN3-0188.1-M78, Grade H, sanded, finished top and bottom with plastic laminate to CAN3-A172-M79 grade, general purpose, (GP.) type S standard (S) mat or as requested.
- 4.3.2 Top surface is a decorative laminate (plam) and bottom backer is of equal thickness to balance the panel. The backer sheet is black or brown in color.
- 4.3.3 Decorative colours are to be as indicated on shop drawings.
- 4.3.4 Finished panel thickness will be 27.4mm minimum.
- 4.3.5 Adhesive for laminating high-pressure plastic to panels shall be polyvinyl acetate emulsion, non- flammable.
- 4.3.6 Adhesive shall be applied to panel faces if applicable.
- 4.3.7 Standard finished working height is 762mm from floor.
- 4.3.8 The standard modesty panel is 335mm from bottom edge to the floor allowing for standard electrical box locations.
- 4.3.9 Provisions for other required dimension is as indicated on CORCAN shop drawings.

4.4 Drawers for pedestals on desk:

- 4.4.1 All vertical drawer box components shall be 13mm thick melamine.
- 4.4.2 These will be grooved at bottom to allow insertion of drawer bottom.
- 4.4.3 Box is to be made of 2 sides, a front and vinyl back wrapped, 0.29mm thick.
- 4.4.4 Colour is to be satin black.
- 4.4.5 All drawer fronts shall be 16mm thick finished as per 3.1.
- 4.4.6 Drawer fronts shall be trimmed with 3mm banding with 3mm radius.
- 4.4.7 Drawer slides are rated for a 100lb dynamic load.
- 4.4.8 Anti-tip features are provided as necessary.

4.5 Drawer bottoms:

- 4.5.1 These will be low pressure laminate sandwich panels consisting of resin impregnated paper, thermal fused to both faces of an industrial grade R particle board to CAN3-0188.1-M78, 120 density, mat-formed, machine finished.
- 4.5.2 Colour to be black, 3mm thick.

4.6 Pencil tray is black plastic. Size is 140mm wide x 323mm long x 21mm deep. Tray is located in all pedestal top drawers.

4.7 For sizes of desk, mounted hutches, night table and wardrobe see CORCAN shop drawing package.

4.8 Desk mounted hutches shall have 2 fixed shelves at 25mm thick. Finish and materials per 3.1 and 3.2 allowing a 560mm height of to accommodate a monitor. Unit shall be secured to desk top with 2 brackets.

4.9 Back panels 19mm melamine on hutches with tackable 13mm thick Korlite finish.

5.0 HARDWARE

- 5.1 Cabinet hinges shall be:
 - 5.1.1 Cabinet hinges shall be concealed type with a 32-mm. mounting hole pattern, zinc plated surface, self-closing. Hinge plate is adjustable in 3 dimensions.
 - 5.1.2 All standard cabinet doors are to be 170-degree hinges as standard. Blum #71T658-180 is to be used. Hinge plates are Blum #175H910.
 - 5.1.3 Contractor 107-110-degree hinges are to be used at 90-degree corners. Blum #75M158-180 FO or 75M168-180 HO are to be used as situation demands. Hinge Plates are Blum #175H910.
 - 5.1.4 Hinges will be 170-degree, and 110-degree as requested or as situation requires for optimum quality.
- 5.2 Cabinet pulls are brushed nickel finish, 96 mm centers, secured from back with two #8/32 or M4 x 1 1/8" long machine screws. Pulls are surface mounted "D" type. Supplier: Richelieu # 33205-170 or equivalent. Flush mounted drawer pulls are similar as above, Hafele # 151.09.609 or equivalent.
- 5.3 Adjustable shelf supports w/5-mm steel pin type Richelieu #5834-180 or equivalent for system 32 lockable.
- 5.4 Drawer box slide sets:
 - 5.4.1 Drawer box side and slide set to be "Metabox" steel by Blum #320M & 320H series where applicable. These feature a 75 lb.dynamic & 100-lb. static load capacity. Finish is to be epoxy color, off-white.
 - 5.4.2 For workstation pedestals to be Knappe & Vogt #8405 Series full extension slide, steel series, as standard. These feature a minimum 45 kilogram static load capacity. Finish is to be chrome-plated, length to suit application.
- 5.5 Keyboard pullout trays or pullout shelves use 3/4 extension with hold-out detent and steel ball bearing slides. BIFMA load-rated at 100 lbs. shall be used. 14" CompX # 4490D14 with a clear zinc finish or similar, or as specified on CORCAN shop drawings.
- 5.6 Cupboard door and drawer locks will be bored cam-type cylinder locks, keyed differently per room, or as situation requires.
- 5.7 Coat rod is chrome-plated 32mm OD, Richelieu #122.212-140. Rod support is chrome-plated Richelieu #1225.140 or equivalent.
- 5.8 Cable grommet will be 60mm plastic, spring closing, black or as specified by consultant. Richelieu #600.910.90 or equivalent.
- 5.9 Door bumpers are clear, self-adhesive, approximately 2 mm thick, making doors proud of cabinet by this amount. Hafele #356.21.428 or equivalent.
- 5.10 CPU holder will be CompX model 7356D (Richelieu #5007351-90) with swivel and extension or equivalent.
- 5.11 Screw plugs will be Richelieu #91611-xxx covercap with matching wood-grain, self adhesive or Richelieu #7100-xx plastic cap, solid colour, as situation demands or equivalent.
- 5.12 Casters on the bed shall be heavy duty Faultless #127-2 1/2" or equivalent lockable.

6.0 FABRICATION

- 6.1 Fabrication is to Architectural Woodwork Manufacturers Association of Canada (AWMAC), Quality Standards for Architectural Woodwork 2009, Custom Grade or better. Quality control is further ensured by adherence to the International Standards Organization ISO 9001:2008 Quality Management System.
- 6.2 Units are to be assembled in sizes to allow ease of passage to installed location where possible.
- 6.3 All exposed parts of each unit shall be shaped, sanded and machined to ensure uniformity and precision for assembly.
- 6.4 CORCAN will cover all exposed edges with PVC edging, and all exposed faces where required.
- 6.5 CORCAN will apply laminated plastic with hairline joints.
- 6.6 Countertops shall be one piece except up to 3 meters from ends or at angled corners Mitering and joints shall be done using joint hardware - Richelieu draw bolt #35026 or better.
- 6.7 CORCAN will seal all exposed hardwood surfaces for site-finishing using water-based white vinyl sealer. CORCAN will apply a top coat to panel faces when required with precatalized lacquer to a 35 degree gloss meter sheen.
- 6.8 Part marking: Manufacturer to mark where each item is to be installed, i.e. building #, room # as well as the manufacture's code #. Also, see 6.0 Packaging. All marks are to be seen after packaging is removed and invisible after installation.

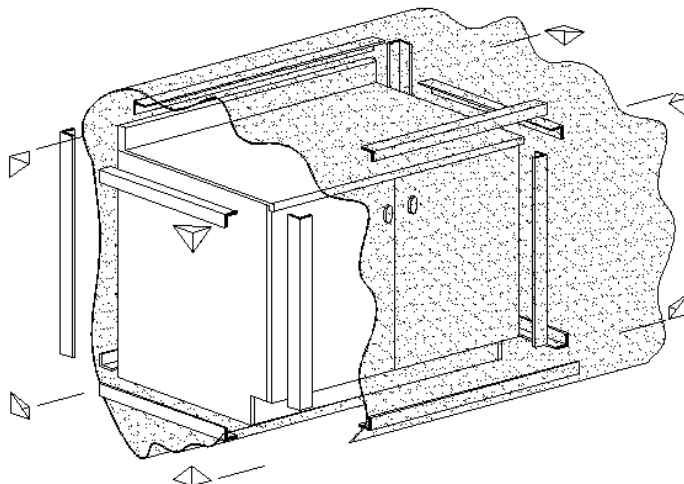
EXECUTION

7.0 HARDWARE SCHEDULE

- 7.1 Swinging doors shall have:
 - 7.1.1 Two cabinet hinges if door is less than 1 meters in length, three cabinet hinges if door is up to 1.5 meters, and four hinges if over 1.5 meters in length minimum, or as required by weight to height ratio dictated by the Blum Technical specifications,
 - 7.1.2 One cabinet pull,
 - 7.1.3 Two door bumpers,
 - 7.1.4 Lock as requested and indicated on CORCAN shop drawings.
- 7.2 Drawers shall have:
 - 7.2.1 One drawer slide set,
 - 7.2.2 One cabinet pull,
 - 7.2.3 Two drawer bumpers,
 - 7.2.4 Four supports per shelf,
 - 7.2.5 Lock as requested and indicated on CORCAN shop drawings.
- 7.3 Other millwork hardware as specified on CORCAN shop drawings.

8.0 PACKAGING

- 8.1 The item shall be shipped in commercially acceptable packaging. The package shall be marked legibly in dark ink with the description, model number, and size of fabrication of the item.



9.0 INSTALLATION

- 9.1 Set items in place, plum, straight and level to a tolerance of 1:400 mm, rigidly secured in place. See CORCAN shop drawings.
- 9.2 Site assembly of all units is to be completed and shimmed where required.
- 9.3 All screws shall be # 8 square socket drive, countersunk, and capped where seen on the outside of unit.
- 9.4 When securing to GWB walls, screws shall be # 8 square socket drive, and each shall have a finishing washer, a minimum of two screws per unit. Provide the appropriate wall anchor devices for other types of wall construction, i.e. concrete or block.
- 9.5 All abutting tops are to be drawn together.
- 9.6 Apply sealant to junction of backsplash and adjacent wall finish.
- 9.7 Adjust all hardware after cabinets are installed for smooth effortless operation of doors and drawers by adjusting hinges and drawers. Allow consistent margins of 3 mm.
- 9.8 Installation requirements and the responsibility thereof to be coordinated with General Contractor and client.

10.0 CLEANING

- 10.1 Clean all surfaces using mild soap and water. Do not use abrasive kitchen cleaners. See CORCAN Cleaning Guide for care and maintenance of CORCAN products.