

GENERAL:

The Work includes fabrication and installation of built-in laminate clad casework, custom casework, countertops, and related items specified herein. **Laminate clad casework shall not be used in Laboratories, Toilet Rooms, or Home Economics Classrooms. All Glass in cabinets shall be safety or tempered glass.**

Open Interiors: Any open storage unit without solid doors or drawer fronts and units with glass doors. Material, thermalfused melamine or CL20 cabinet liner, white, light gray or almond. (Note: Glued on top coated melamine papers are not acceptable). GP28 HPDL shall be on specialized units as designated on elevations.

Closed Interiors: Any closed storage unit behind hinged solid door or drawer fronts and sliding solid doors. Material, thermalfused melamine or CL20 cabinet liner to be white. (Note: Glued on top coated melamine papers are not acceptable).

Exposed Surfaces: Any unit door/drawer front when closed and exposed ends. Material to be approved high pressure decorative laminate.

Semi-Exposed Surfaces: Tops of wall and tall cabinets and exterior bottoms of wall cabinets, unless otherwise designated, shall be thermalfused melamine or CL20 cabinet liner to be white.

Concealed Surfaces: Any surface not normally visible after installation such as cabinet backs to wall and cabinet sides to cabinet sides. Material shall be a balanced backer. These flat surfaces shall be laminated and not left raw or painted.

Core Materials

In areas where particleboard is approved, use high density Industrial grade 47 lb., water resistant, meeting or exceeding ANSI A208.1-1993, M-3 requirements. Thicknesses used are 3/8", 1/2", 3/4" and 1" as noted in other areas of this Specification. **For countertops plywood is preferred and required at all wet locations.**

Decorative Laminates/Veneer Where Applicable

Solid or pattern high pressure decorative laminates GP50 (.050) or post forming horizontal grade. NEMA test LD3-1995.

Solid or pattern color high pressure decorative laminates GP28 (.030). NEMA test LD3-1995, VGS. standards including thickness. For cabinet exposed surfaces. Thermal fused melamine is not acceptable.

High pressure cabinet liner (White) CL20 (.020) for balance to GP28 NEMA test LD3-1995.

Thermal fused melamine accredited by A.L.A. 1998 requirements or NEMA LD3-1995 GP20, White color for open and closed interiors, including drawer boxes.

Edging Materials

Use 1mm PVC banding, machine applied with waterproof hot melt adhesive. **T-Mold is not acceptable.**

3mm PVC banding, machine applied with waterproof hot melt adhesive. Use 3mm for all doors and drawer fronts. Use 1mm for end panels, exposed shelves, and intermediate vertical panels on exposed shelving. **T-Mold is not acceptable.**

Cabinet Hardware

Hinges

Heavy duty, five knuckle 2-3/4 inch institutional type hinge. Mill ground, hospital tip, tight pin feature with all edges eased. Hinge to be full wrap around type of tempered steel .095 inch thick, each hinge to have minimum 9 screws, #7, 5/8 inch FHMS to assure positive door attachment. One and one-half pair over 48 inches in height. Hinge to accommodate 13/16 inch thick laminated door and allow 180-degree swing. Finish to be dull or satin chrome for fixed cabinetry.

Door/drawer pulls

To be recess (color to match cabinet edge banding), 3 1/2" PVC construction.

Drawer Slides

Standard Drawers: Bottom mount, self-closing design, epoxy powder coated to match drawer body color, with positive in-stop, out-stop, and out-keeper to maintain drawer in 80% open position. Captive nylon rollers, both front and rear. Minimum 100 lb. dynamic load rating. Provide adjuster cam to regulate body side sway.

File Drawers: Full extension, 3-part progressive opening slide, minimum 100 lb., zinc plated or epoxy coated at Manufacturer's option.

File Drawer Accessory: Knappe & Vogt No. 476 follower and track assembly, or Pendaflex rack, as DP selected.

Catches

Provide 6 lb. magnetic catch for base and wall cabinets. Provide two 6 lb. pulls at each tall cabinet door. Catch housing to be molded in color to match cabinet interior.

Adjustable Shelf Supports

To be twin pin design with anti tip-up shelf restraints for both 3/4 inch and 1 inch shelves. Design to include keel to retard shelf slide-off, and slot for ability to mechanically attach shelf to clip. Load rating to be minimum 300 lbs. each support. Also approved: Knappe & Vogt K-V 346.

Locks (at minimum Locations only ,Clinics and Admin areas as required by design)

To be 5-disc tumbler lock equal to National Lock Remove-A-Core series. Locks may be keyed alike or keyed differently with a minimum of 200 key changes. Two master keys shall be furnished to permit opening of any lock. Locks to have dull chrome finish.

Hinged doors and drawers National Lock No. M4-7054.

Heavy Duty Casters

All mobile cabinets shall have four heavy duty casters. Two front casters shall have wheel locks. All casters shall be 5" ball bearing swivel casters with a minimum wheel face of 1-1/4". Casters shall have a 200 lb. working load per caster. Four (4) flat head bolts with lock nuts shall be used to attach casters through bottom panels.

Preferred Cabinet Body Construction

Joinery to be 8mm or 10mm hardwood dowels completely glued. Dowels used for alignment with panels secured by screws are not allowed. Tops and bottoms to cabinet ends, cabinet components such as fixed horizontals, rails, verticals, and anchor rails shall be doweled. Dowel spacing shall not exceed 3.5 inches on center.

Core Preferred plywood construction and required in wet areas. When particle board approved it is to be as described above.

Unit backs on fixed cabinets shall be 3/8" thick particleboard, laminated both sides with thermalfused melamine, captured four sides and glued. Exposed backs shall be 3/4" particleboard with exterior surface GP28 laminate as selected.

All fixed base and tall units shall have a separate and continuous pressure treated pine or exterior grade plywood base. Cabinet sides continuous to floor are not allowed.

All under counter units, except sink base units, shall be provided with a full subtop. All sink cabinet bodies shall be exterior grade plywood core laminated with CL20 cabinet liner.

All exposed and semi-exposed edges of the cabinet body shall be factory edged with 1mm PVC banding, machine applied with waterproof hot melt adhesive. **Do not use T-Molding**

Adjustable shelf core shall be 3/4" thick plywood up to 30" wide or 1" thick particleboard up to 30" wide. Cabinets over 30" wide shall have a vertical divider.

All upper wall cabinets shall provide a clear inside depth of 12".

Exposed ends of double sided shelving units shall be covered with one piece of high pressure decorative laminate finish material. No joints permitted.

Mobile cabinets to be all plywood construction and shall have a double bottom and top frame panel design. Exterior and interior bottoms and tops shall be 3/4" thick. Top and bottom panels shall extend approximately 1" to 2" past all four sides of the unit and be edged with a high impact plastic extrusion, forming a wrap around bumper system to prevent damage during normal use. Mobile cabinet backs shall be 3/4" thick.

Drawers

Back and sides shall be 1/2" thick high pressure water resistant particleboard, laminated with thermalfused melamine. Subfront shall be 5/8" particleboard. Sides, back, and sub-front shall be connected by glued lock shoulder or doweled. Top edge is banded with 1mm PVC edging in matching color. **No T-Molding**

Drawer bottoms shall be 3/8" thick with the drawer box bottom sides, hardwood edged. All surfaces shall be laminated with thermalfused melamine. Drawer bottom shall be captured four sides with a continuous bead of glue. Drawers over 24" shall have the bottoms reinforced with solid wood glue blocks.

Paper/map storage drawers are similarly constructed except for 3/4" thick particleboard for the front, sides, and back. A retaining hood (**metal not plastic**) shall be included at the rear of each drawer.

Door/Drawer Fronts

Core for all doors and applied drawer fronts shall be 3/4" thick particleboard. All edges shall be finished with 3mm PVC (**No T-Molding**). Colors to be selected from approved DCPS color palette.

Double doors shall be used on all cabinets in excess of 24" wide.

Exterior faces shall be laminated with high pressure decorative laminate GP28, color as selected, balanced with cabinet liner CL20 to match basic cabinet interior body color.

Decorative Laminate Countertops

Use solid plastic or poured-type countertops preferred especially wet areas. Otherwise all countertops shall be self edged with a 1-1/2" thick built-up front edge. Top face laminated with GP50 (.050) high pressure water resistant laminate and balanced with backer underside. Exposed corners shall have a 2" radius. Back and side splashes shall be 3/4" butt type and fastened to the deck with a waterproof caulk and screwed. Core material shall be high density water resistant particleboard except over sink units to be exterior grade Douglas Fir plywood core.

Splices in core materials or laminate shall not be over knee spaces or sink cabinets.

Specify

That full blocking is installed for all wall-hung Casework prior to installation. Casework shall not be stored on site until building has fully conditioned air.

Require Contractor protect casework and tops from damage by other trades until acceptance of the Work by the Owner. All material and workmanship covered by this section shall be warranted for 3 years from date of acceptance by Owner

END OF SECTION 12304