

SOUTHERN CABINETRY'S FRAMELESS CONSTRUCTION LAMINATE CABINETS

General Construction

Definition

Exposed Surfaces of Casing: Surfaces visible when doors and drawers are closed. Including bottoms of cabinets more than 48 inches above floor and visible surfaces in open cabinets or behind glass doors.

Semi-exposed Surfaces of Casing: Surfaces behind opaque doors, such as cabinet interiors, shelves, and dividers; interiors and sides of drawers; and interior faces of doors. Tops of cabinets 78 inches or more above floor are defined as semi-exposed.

Concealed Surfaces of Casing: Include sleepers, web frames, dust panels, and other surfaces not usually visible after installation.

- Ends of cabinets, indicated to be installed, directly against and completely concealed by walls or other cabinets are defined as concealed.

Construction

Design: Reveal Overlay

- Carcass of cabinet shall be $\frac{3}{4}$ " thick Thermal fused Melamine with doweled and glued construction.
- Finished cabinet sides to be $\frac{3}{4}$ " thick vertical grade laminate with balanced construction.
- Tops of wall and tall cabinets to be 1" thick Thermal fused Melamine.
- Bottoms of wall cabinets to be 1" thick vertical grade laminate with balanced construction.
- Shelves are 1" thick Thermally Fused Melamine in semi-exposed areas and plastic laminate faced in exposed areas.

- Backs of cabinets are $\frac{1}{4}$ " thick Thermally Fused Melamine in semi-exposed areas and $\frac{3}{4}$ " plastic laminate faced on exposed surfaces.
- All units shall have full back panels to ensure a totally enclosed unit. Removable panels shall be located in cupboard units where access to mechanical service is required.
- Drawer fronts are $\frac{3}{4}$ " thick particleboard, and plastic laminate faced.
- Drawer sides and backs are $\frac{3}{4}$ " Thermally Fused Melamine with glued multiple dowel joints.
- Drawer bottoms are $\frac{1}{4}$ " Thermally Fused Melamine dado encapsulated into drawer front and back.
- Paper storage drawers shall include a retaining hood at rear of drawer.
- File drawers shall have front to back and side-to-side hanger file capability.
- Doors are $\frac{3}{4}$ " thick; with particleboard core and plastic laminate faced balanced construction.
- Cabinet base shall be water repellent treated 3/4" plywood. All bases over 24 inches wide will be provided with additional center support. Finished ends, base will set back $\frac{1}{4}$ " to except vinyl base, which will be supplied by other.

Number of adjustable shelves provided, unless drawings or schedule indicate different.

- Tall Cabinets
 - 3 up to 60"
 - 4 up to 72"
 - 5 up to 84"
 - 6 up to 96"
- Wall Cabinets
 - 0 up to 24"
 - 1 up to 30"
 - 2 up to 36"
 - 3 up to 40"
- Base Cabinets
 - 2 up to 36"

Hardware

Hinges shall be 2-3/4" institutional five knuckle with interlaying leaves capable of 270-degree swing. They shall have nominal .090" minimum thickness steel and shall be hospital tipped with non-removable pins. Hinge shall accommodate nine screws a piece for fastening to cabinetry. Concealed hinge is also option with architect's request.

Pulls shall be 96mm (3.75") metal bent wire with a brushed chrome finish. Pull shall be accurately spaced on door and drawer fastened with machine screws through fronts.

Drawer slides shall have:

Standard drawer slides shall have full extension and load rating static position to be no less than 100 lb. side mounted

File drawer and paper storage drawer slides shall have same as above except for full extension and load rating static position to be no less than 150 lb.

Project can be built with all full extension heavy duty ball bearing construction drawer slides with architect's specification.

Adjustable shelf supports shall be molded nylon with a two pin anti-lift bar. Shelf support shall have a minimum of 300lb. capacity.

Catches shall be Manufacturer's heavy duty magnetic catch, which will meet all handicap requirements for pounds of pull for opening of doors. Cabinet doors over 48" will be supplied with two catches placed on top and bottom of cabinet. Tall wardrobe units and cabinets shall be supplied with a chain catch which will allow the door to open 90 degrees minimum.

Tote trays shall be molded high impact plastic with cardholders on front of tray. Dividers shall be prefinished 1/4" thick tempered hardboard.

Locks shall be of cylinder type cast with five-disc tumbler mechanism. Each lock shall be provided with two brass keys. Locks shall be provided as shown on casework schedule or drawings. Locks shall be keyed different or alike as required by Owner or Architect. Locks shall be master keyed using manufacturer's keying system.

Materials

General:

- **Adhesives:** Do not use adhesives that contain urea formaldehyde.
- **Particleboard:** ANSI A208.1, Grade M-2, made with binder containing no urea formaldehyde complying with ANSI A208.1, Grade M-2, except for density, made with binder containing no urea formaldehyde.
- **Hardboard:** AHA A135.4, Class 1 Tempered.
- **Plastic Laminate:** High-pressure decorative laminate complying with NEMA LD 3.
- **Thermoset Decorative Panels:** Particleboard or MDF finished with thermally fused, melamine-impregnated decorative paper complying with LMA SAT-1.
- **Edge banding for Plastic Laminate:** Rigid PVC extrusions, through color with stain finish, 3mm thick at doors and drawer fronts, 1mm thick elsewhere.
- **Edge banding for Thermoset Decorative Panels:** PVC or polyester edge banding complying with LMA EDG-1 and matching thermoset decorative panels.

Exposed Materials:

- **Plastic Laminate:** Grade VGS, unless otherwise noted with balanced construction.

Semi exposed Materials:

- **Thermally Fused Melamine.**
- **Metal for Steel Drawer Pans:** Cold-rolled, carbon-steel sheet complying with ASTM A 1008/A 1008M; matte finish; suitable for exposed applications. Steel Drawer Pans may be provided as Architects option.

Concealed Materials: Provide any of the following:

- Particleboard or melamine.

Auxiliary Cabinet Materials

- **Acid Storage-Cabinet Lining:** $\frac{1}{4}$ -inch-(6-mm-) thick, polyethylene, polypropylene, epoxy, or phenolic-composite lining material.
- **Glass for Glazed Doors:** Clear tempered glass complying with ASTM C 1048, Kind FT, Condition A, Type 1 Class 1, Quality-Q3; not less than 6.0 mm thick.

Leading Edges for Doors and Drawer fronts shall be edged with 3mm thick high impact PVC extrusion with a Satin finish. Leading edges with 3 mm thick shall be square with radius edges. Horizontal and vertical front of cabinet members shall be flat edged with 1mm thick high impact PVC extrusion with a Satin finish. Edges shall be machine applied with waterproof hot melt adhesive. The Owner or Architect shall select color of PVC leading edges including wood grain patterns at no additional cost.

Plastic Laminate shall be high pressure laminate conforming to NEMA LD3-1991. Density shall be 90 lb. / cu. ft. minimum for all grades. Owner or Architect shall select colors and patterns from full complement of choices for each component.

- Products from the following manufacturers will be available:
 - Wilsonart
 - Formica
 - Nevamar Corp.
 - Pioneer Plastic Corp.

Countertops with sinks shall be shop sanding exterior grade veneer core plywood or phenolic resin particleboard, Type 2-M-2, or 2-M-3.

Countertops shall be of Horizontal grade laminate conforming to NEMA standards for GP50 horizontal grade. Exposed edge of countertop shall be of 3MM PVC. Post formed countertops are an option with post form grade plastic laminate surface.

All exposed finishes except for countertops to be Vertical grade laminate conforming to NEMA standards for GP28.

Semi-exposed surfaces shall be finished with Melamine conforming to NEMA LD3-3.1-1991 for wear requirements for GP28 vertical grade.

System Description

Casework shall be provided to conform to American Disabilities Act Accessibility Guidelines (ADAAG) and State and Local Regulations. These requirements supersede Technical Specifications in this Section.

Guarantee

All plastic laminate casework, cabinets, shelving, sinks and countertops shall be equal to standards, quality of materials, construction, workmanship and finish for work of similar character by Southern Cabinetry Inc. The entire installation shall be guaranteed for a period of five (5) years from the date of substantial Completion against defects in material and workmanship in accordance with the terms of the contract. The guarantee shall cover repair or replacement, without cost to the owner, of items that become defective within the five (5) year period. Damage to the equipment caused by improper operation or misuse is not covered by this guarantee.