

SECTION 12 32 16

MANUFACTURED PLASTIC-LAMINATE-CLAD CASEWORK

PART 1 GENERAL

1.1 Scope of Work

- A. Provide all of the labor, materials, equipment and services to furnish and install the prefabricated cabinetry, custom millwork, countertops and related components as specified herein. Refer to plans and equipment lists for details and requirements. Cabinetry shall include all fillers, scribes, finished ends, finished backs, laminate, and solid surface countertops. Locks to be provided where shown on casework drawings or described in equipment lists.

1.2 SUBMITTALS

- A. Action Submittals:
 - 1. Shop Drawings: Illustrate products, installation, and relationship to adjacent construction.
 - 2. Product Data: Manufacturer's descriptive data and product attributes.
 - 3. Samples:
 - a. Color Samples: Shall be submitted for selection and coordination at time of shop drawing submittals. Samples of materials and color shall be available as required.
- B. Closeout Submittals:
 - 1. Operation and Maintenance Data.
- C. Quality Control Submittals:
 - 1. Manufacturer qualification statement.
<https://www.casesystems.com/literature/ManufacturersQualificationStatement.pdf>
 - 2. Comprehensive quality assurance standard documentation.
<https://www.casesystems.com/specifications/Quality-Assurance-Standard-Case-Systems.pdf>

1.3 QUALITY ASSURANCE

- A. Manufacturer Qualifications:
 - 1. Manufacturer has a minimum of 10 years of experience of manufacturing architectural casework for similar projects, with a cataloged product line, and can show evidence of long-lasting financial stability.
 - 2. Certified for chain of custody by third party group approved by Forest Stewardship Council (FSC).
 - 3. Licensed under Architectural Woodwork Institute (AWI) Quality Certification Program (QCP).
- B. Installer Qualifications: Minimum 5 years' experience in work of this Section.

1.4 WARRANTIES

- A. Manufacturer's 10-year warranty against defects in materials and workmanship, including non-casework accessories.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Contract Documents are based on products by Case Systems, Inc., www.casesystems.com. As installed by Steve Ward and Associates, Inc. C/O Chad Breece.
- B. Substitutions:
 - 1.TMI Systems
 - 2.CIF
 - 3.Or Preapproved equal

2.2 MATERIALS

- A. Panel Core: Particleboard, ANSI A208.1, Grade M-2 or higher.
- B. Surfacing: NEMA LD-3 and ANSI A161.2.
 - 1. Vertical surface decorative grade: VGS.
 - 2. General purpose decorative grade: HGS.
 - 3. Cabinet decorative liner grade: CLS. White in color.
 - 4. Non-decorative backer grade: BKH.
 - 5. Decorative thermally fused laminate. White in color.
- C. Edge Banding:
 - 1. PVC, applied utilizing hot melt adhesive and radiused by automatic trimmer.
 - 2. Adhesive: PVA type, mechanically applied, ULEF, free from VOC's.

2.3 FABRICATION

- A. General Cabinet Body Construction:
 - 1. Joinery: Concealed interlocking fasteners or dowel construction at manufacturer's discretion
 - 2. Panels manufactured with balanced construction.
 - 3. Structural components: 3/4 inch thick for bottoms and ends of cabinets, tops of tall cabinets and tops and bottoms of wall cabinets.
 - 4. Fixed interior components: 3/4 inch thick for fixed shelves, dividers, and cubicle compartments.
 - 5. Cabinet body exterior surfaces: VGS. Colors to be chosen from standard offerings/finishes from Formica, Wilsonart, Pionite or Formica.
 - 6. Cabinet body interior surfaces:
 - a. Closed cabinets: Decorative thermally fused melamine, white in color.
 - b. Open cabinets: VGS. Colors to be chosen from standard offerings/finishes from Formica, Wilsonart, Pionite or Formica.
 - 7. Laminate grain direction: Vertical grain.
 - 8. Cabinet body front edge: .020 mm thick PVC. Automated hot melt adhesive application and trimming.
 - 9. Cabinet body mounting: 3/4 inch thick stretchers, concealed by cabinet back.
 - 10. Exposed laminate back panels: Finished 3/4 inch thick back panel when cabinet rear is exposed.
 - 11. Cabinet backs: 1/2 inch thick, surfaced both sides, fully captured on both sides and bottom.
 - 12. Stretchers:
 - a. 3/4 inch thick lower stretchers located behind back panel.
 - b. 3/4 inch thick intermediate stretchers located behind back panel.
 - 13. Adjustable shelf hole pattern: 5 mm diameter holes spaced 1-1/4 inches on center for mounting adjustable shelves, hardware mounting, and replacement and relocation of cabinet components.
 - 14. Intermediate shelves: Fixed.

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- B. Base Cabinet Construction:
 - 1. Sub-top: Solid 3/4 inch thick sub-top except at sink cabinets.
 - 2. Split removable back panels for sink cabinets.
- C. Wall Cabinet Construction:
 - 1. Wall cabinets over 36 inches in width: Fixed intermediate partition.
 - 2. Exterior bottoms: Match exterior surface.
- D. Tall and Wall Cabinet Top Edges: Nominally 1 mm thick PVC at top of end panels, stretchers and back.
- E. Tall, Wall, and Hutch Cabinet Exterior Top Finish: Match standard interior.
- F. Door Reveals:
 - 1. Between doors and drawers: 3 mm.
 - 2. Above drawer, base, wall, tall, and hutch doors: 3 mm.
- G. Cabinet Toe Bases:
 - 1. Material: Exterior grade plywood.
 - 2. Height: 96 mm.
 - 3. Type: Attached.
- H. Drawer Fronts and Solid Doors: Surfaced on both sides.
 - 1. Component materials: HPL door interior and exterior; both sides match front surface color.
 - 2. Surfaces: HPL Grade VGS
 - 3. Door and drawer front edges: 3 mm PVC. Fronts shall have radius edges and corners applied utilizing automated hot melt adhesive application and trimming.
- I. Drawer Boxes:
 - 1. Material: Particleboard.
 - 2. Core thickness: 1/2 inch thick.
 - 3. Construction: Non-racking, non-deflecting platform bottom carried by side-mounted ball bearing slides.
 - 4. Drawer boxes with finished interiors: Surface to match standard interior.
 - 5. Sides, backs, sub-fronts, and bottoms: 1/2 inch thick.
 - 6. Top edges: Nominal 1 mm PVC, matching drawer color.
 - 7. Box corners: Joined with hardwood dowels and glue.
 - 8. Horizontal parting rails between drawers: 3/4 inch thick core, balanced surfaces.
 - 9. File drawer box construction: Full height sides supporting heavy duty support rail.
- J. Cabinet Doors:
 - 1. Construction: Solid doors, 3/4 inch thick core.
 - 2. Glazed doors:
 - a. Frame thickness: 3/4 inch.
 - b. Glazing panel thickness: 1/4 inch.
 - c. Glazing panel mounting: Set into door frame secured with removable stops.
Operation: Hinged.
 - d. Glazing type: Tempered glass.
 - 3. Frameless glazed doors:
 - a. Thickness: 1/4 inch.
 - b. Material: Tempered glass.
 - c. Operation: Sliding.
 - d. Glass edges: Radius ground and polished.
 - 4. Sliding doors.
 - a. Upper track: Extruded aluminum, anodized finish.
 - b. Hardware: Two roller hanging brackets per door.

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- c. Bottom retainers.
- 5. Pocket doors: Self-closing, three-way adjustable door hinge with precision steel ball bearing slides, zinc plated.
- K. Shelves:
 - 1. Adjustable shelves: Finished on both sides.
 - a. Core material: Particle board.
 - b. Thickness, in closed cabinets: 3/4 inch for shelves under 27 inches wide; 1 inch for shelved over 27" wide.
 - c. Thickness, in open cabinets: 1 inch thick, except for special use cabinets.
 - d. Edges in open cabinets: Matching edges. Nominal 1 mm thick PVC
 - e. Edges in closed cabinets: Matching edges. Nominal 1 mm thick PVC
 - f. Shelf surfaces in closed cabinets: Match cabinet interior.
 - g. Shelf surfaces in open cabinets: VGS HPL on both sides.
 - h. Setback for adjustable shelves: 15 mm from front.
 - 2. Fixed shelves:
 - a. Thickness:
 - b. All shelves: 3/4 inch thick except 1 inch at open shelves.
 - c. Shelves under 27 inches wide: 3/4 inch.
 - d. Shelves over 27 inches wide: 1 inch.
 - e. Shelf surfaces in closed cabinets: Match interior.
 - f. Shelf surfaces in open cabinets: Match interior.
 - 3. Wall shelves: Grade VGS.
 - 4. Wire shelves: White, plastic coated.
 - 5. Hardboard shelves: 1/4 inch thick high density fiberboard with S2S surface finish.
- L. Mobile Cabinets:
 - 1. Mobile backs: 1 inch thick core.
 - 2. Maximum load rating: 500 pounds.
 - 3. Construction:
 - a. Core: 3/4 inch thick.
 - b. Core platform: 1 inch thick.
 - c. Edging for platform and mobile tops: 3 mm thick.
 - d. Mobile tops:
 - e. Overhang at front, sides and rear.
 - 4. Surface materials: VGS laminate.
- M. Sloped Tops: Separate unit from cabinet, set at 30-degree angle.
- N. Lockers:
 - 1. Match general casework construction except fixed shelved 3/4 inch thick.
- O. Plastic Laminate Countertops:
 - 1. Surfacing: High-pressure decorative laminate, grade HGS.
 - 2. Backing: Grade BKL.
 - 3. Core thickness:
 - a. Solid: 1-1/8 inches.
 - 4. Joints: Secured with biscuits and tight joint fasteners.
 - 5. Backsplashes: 4 inches high, thickness to match countertop thickness.
 - 6. Edges: 3 mm thick for solid.

2.4 ACCESSORIES

- A. Hardware:
1. Hinges: Five-knuckle type, reveal overlay, Institutional Grade per ANSI/BHMA A156.9; two per door except three per door for doors over 48 inches high.
 2. Pulls: Anodized aluminum wire type. 96mm
 3. Drawer slides:
 - a. Standard drawers: Full Extension, side mount, 100-pound rated, minimum Grade 1 per ANSI/BHMA A156.9.
 - b. File drawers: Full extension, side mount, 100-pound rated, minimum Grade 1 per ANSI/BHMA A156.9.
 4. Wall shelving hardware:
 - a. Design: Heavy-duty wall shelving hardware.
 - b. Finish: Anochrome.
 - c. Shelf clips: Injection molded clear plastic, AWI 400-B-T-9, double pin type except single pin type with anti-tip locking tabs at hardboard shelves.
 - d. Adjustable shelf clips: AWI 400-B-T-9; double pin type except single pin type with anti-tip locking tabs at hardboard shelves.
 5. Coat hooks: Zinc plated.
 6. Closet rods: Chrome plated oval rod, 15 x 30 mm.
 7. Mirrors: 8 x 10 inches.
 8. Label holders: None.
 9. Locks:
 - a. Locations: As indicated on Drawings.
 - b. Type: Dead bolt style. Best – 5L.
 - c. Keying: Key locks differently by room and master key, minimum of 50 keying options.
 - d. Lock cores: Removable, except at five pin locks.
 10. Casters:
 - a. Model M, 6 inch diameter. Model U, 4 inch diameter nominal height.
 - b. Bearings: Ball bearing, 360-degree swivel.
 - c. Wheels: Non-marring, locking. non-locking.
 11. Catches:
 - a. Chain pulls: Zinc plated.
 - b. Chain stops: Zinc plated.
 - c. Elbow catches: Chrome plated.
 - d. Roller catches: Heavy-duty, spring-loaded.
 - e. Magnetic catches: White plastic housing.
 - f. Catch types:
 - 1) Single roller at base and wall cabinets, two rollers at tall cabinets.
 12. Tote trays: Impact resistant polystyrene with label holder, supported by polycarbonate rails.
 13. Countertop Supports: Powder coated, formed metal.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install in accordance with manufacturer's instructions and approved Shop Drawings.

END OF SECTION