

SECTION 12300

MANUFACTURED CASEWORK

PART 1 GENERAL

1.01 SUMMARY

A. Related Sections:

1. Rough carpentry: Division 6.
2. Architectural woodwork and custom casework: Division 6.
3. Mechanical connections: Division 15.
4. Electrical connections: Division 16.

B. Allowances: Section 01210.

C. Alternates: Section 01230.

D. Unit Prices: Section 01270.

1.02 REFERENCES

A. American National Standards Institute (ANSI):

1. A208.1, American National Standard for Particleboard.

B. American Society for Testing and Materials (ASTM):

1. C 1048, Specification for Heat-Treated Flat Glass-Kind HS, Kind FT Coated and Uncoated Glass.

C. Architectural Woodwork Institute (AWI):

1. Architectural Woodwork Quality Standards.

1.03 DEFINITIONS

- ###### A. In accordance with the Architectural Woodwork Quality Standards, unless indicated otherwise.

1.04 SUBMITTALS

- ###### A. Product Data: Manufacturer's technical data for casework specified.

- ###### B. Shop Drawings: Include plans and elevations, details at a large scale showing the location of each item, identify components used, indicate method of attachment.

C. Samples:

1. Plastic Laminate:
 - a. Selection: Manufacturer's standard range of colors.
 - b. Verification: 5-by 8-inch samples of each finish and selected color.
2. Hardware: One sample of each type specified, samples of each finish specified.

D. Quality Control Submittals:

1. Certificates: Manufacturer's certification that the installer is acceptable.

E. Contract Closeout Submittals:

1. Maintenance Data: Manufacturer's cleaning and maintenance instructions covering both routine (daily or weekly) and long-term (yearly or longer) operations.

1.05 QUALITY ASSURANCE

- A. Installer Qualifications: Acceptable to the manufacturer.
- B. Mock-Ups: Furnish a full size base and wall cabinet showing actual construction and materials to be used.
 1. Deliver mock-ups to the site.
 2. Acceptable mock-ups may be incorporated into the Work.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Storage and Protection: Store casework indoors in accordance with AWI Section 1700.

1.07 PROJECT CONDITIONS

- A. Environmental Requirements: Install units only when the building is enclosed and environmental conditions are in accordance with AWI Section 1700.
- B. Field Measurements: Verify all field measurements prior to fabrication.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. The design is based on products manufactured by PolyVision Corporation, www.polyvision.com, as indicated below: **Genesis Series**
- B. Products of other manufactures, provided they conform to project requirements, will be considered under standard substitution procedures.

2.02 MATERIALS

- A. Particleboard: ANSI A208.1.
 - 1. Density: 47 pounds per cubic foot, minimum.
 - 2. Moisture Content: 8 percent, maximum.
- B. (Additional Cost) Agriboard: Particleboard manufactured from sustainable, annually renewable agricultural fibers and a formaldehyde-free, emissions-free synthetic resin.
- E. High Pressure Decorative Laminate (HPDL): In accordance with AWI Section 200, Horizontal General Purpose type (HGS).
 - 1. Nominal Thickness: GP50 for countertops, GP28 for all other surfaces.
 - 2. Color(s): As selected by the Architect from the manufacturer's range of standard colors.
 - 3. Balance Sheet for Countertops Tops: Backer type (BKL), nominal thickness of 0.020 inch.
- F. Thermofused melamine: Thermofused decorative overlay flat pressed from a thermofused melamine web in accordance with AWI Section 200.
- H. PVC Edge Banding:
 - 1. Color(s): As selected by the Architect from the manufacturer's range of standard colors.
- I. Glass: ASTM C 1048, Kind FT (fully tempered), Type I.
 - 1. Thickness: 6 mm (1/4 inch nominal).
 - 2. Color: Clear.

2.03 MANUFACTURED UNITS

- A. Genesis:
 - 1. AWI Quality Grade: Custom.
 - 2. Construction Type: Flush overlay.
 - 3. Core Cabinet Material: Particleboard.
 - 4. Door Material: Particleboard core.
 - 5. Exposed Cabinet Surfaces: High pressure plastic laminate.
 - 6. Semi-Exposed Surfaces: Thermofused melamine.
 - 7. Drawer Material: Thermofused melamine.
 - 8. Countertop Material: High pressure plastic laminate on a particleboard core.
 - 9. Edgebanding:
 - a. Countertops: PVC, 3 mm thick.
 - b. Doors and Drawers: PVC, 3 mm thick.
 - c. Cabinet Bodies: PVC, 1 mm thick.

2.04 COMPONENTS

- A. Hardware: Provide a satin chrome finish on hardware exposed to view, unless indicated otherwise.
 - 1. Hinges: 2-3/4-inch, five knuckle, overlay type, hospital tipped, 0.090-inch thick.
 - 2. Wire Pulls: 4-inch.
 - 3. Drawer Slides:
 - a. File Drawers: Heavy duty, bottom mounted, epoxy coated slides with a minimum load capacity of 100 pounds.
 - 1) Acceptable Product: Model No. BS430E, Julius Blum & Company, Inc.
 - b. All Other Drawers: Bottom mounted, epoxy coated slides with a minimum load capacity of 100 pounds.
 - 1) Acceptable Product: Model No. BS230M, Julius Blum & Company, Inc.
 - 4. Catches: Magnetic type with adjustment slots for screw attachment.
 - 5. Adjustable Shelf Supports: Heavy duty, nylon clips designed to be inserted into predrilled holes spaced 1-1/4-inches apart. Provide clips with two pins for engagement.
 - 6. Locks: 5-disc tumbler cam type
 - 8. Coat Rods: 1-inch-diameter steel.

2.05 ACCESSORIES

- A. Instrument Shelves: Shelf system with 1-1/4-inch-thick solid core high impact molded shelving with 180-degree wrapped front nose and continuous grooves for ventilation.
- B. Tack Board: Manufacturer's standard self-healing vinyl or cork, 1-inch thick with 3 mm edgebanding and integral with door/drawer front.
- C. Dowels: Hardwood; birch, beech, or maple and fluted with chamfered ends.

2.06 FABRICATION

- A. General: In accordance with AWI Section 400, Custom Grade.
- B. Shop Assembly:
 - 1. Joinery: Assemble cabinets using dowels. Glue dowels and clamp cabinets under pressure to provide secure joints.
 - 2. Bases: Provide base and tall cabinets with either an integral base or a separate ladder type continuous subbase of veneer core plywood.
 - 3. Tops and Bottoms:
 - a. Provide full solid tops and bottoms. Provide exposed parts with finish to match cabinet face. Provide semi-exposed parts with finish to match cabinet interior.

- b. Provide 3/4-inch-thick bottoms for wall cabinets.
 - c. Consider tops less than 72-inches above finished floor as exposed.
- 4. Ends and Partitions: 3/4-inch-thick. Provide exposed parts with finish to match cabinet face. Provide semi-exposed parts with finish to match cabinet interior.
- 5. Edges: Apply specified banding to all exposed edges.
- 6. Adjustable Shelves: Thickness as indicated. Provide exposed parts with finish to match cabinet face.
 - a. 30-inches Long or Less: 3/4-inch thick.
 - b. Longer than 30-inches: 1-inch thick.
- 7. Backs:
 - a. Standard: Prefinished 1/4-inch-thick, dadoed into ends.
 - b. Open Cabinets and Cabinets with Glass Doors: 1/4-inch-thick with finish to match cabinet face.
 - c. Sink Cabinets: Provide a removable back for access to plumbing.
 - d. Exposed: 3/4-inch-thick with finish to match cabinet face.
- 8. Doors and Drawer Fronts:
 - a. 3/4-inch-thick with finish to match cabinet face. Provide 1-inch-thick for doors greater than 48-inches high.
 - b. Where tackable door surfaces are indicated, provide a tack surface that is integral to the door with an overall door thickness of 1 inch.
- 9. Drawers:
 - a. Front, Back, Sides, and Bottom of Box: 1/2-inch-thick. Assemble with dowels spaced at 1-1/4-inches on center.
 - b. Front: 3/4-inch-thick with finish to match cabinet face. Attach to drawer box with screws.
- 10. Hanging Rails:
 - a. Wall Cabinets: Provide 2 hanging rails, 3/4-inch-thick by 3-3/4-inches-wide. Attach rails to the cabinet ends with dowels and mechanically attach to the cabinet top.
 - b. Base Cabinets: Provide 1 hanging rail, 3/4-inch-thick by 3-3/4-inches-wide.
- 11. Countertops and Backsplashes: 1-1/8-inches-thick with plastic laminate on top surface and balance sheet on bottom surface. Provide 3/4- inch by 4-inch backsplashes unless indicated otherwise.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions:
 - 1. Verify that surfaces to receive units are true and plumb. Correct unsuitable surfaces before beginning installation.
 - 2. Verify that blocking and backings have been installed as required for anchorage.

3.02INSTALLATION

A. General:

1. In accordance with Architectural Woodwork Quality Standards for Custom Grade and the manufacturer's recommendations.
2. Provide all necessary installation accessories.
3. Install doors and drawers to operate smoothly with edges aligned.
4. Anchor tops securely.

B. Tolerances: Install tops level to within 1/8-inch in 8 feet.

3.03ADJUSTING

A. At Substantial Completion, adjust and lubricate cabinet hardware for smooth operation if required.

3.04CLEANING

A. At Substantial Completion, clean exposed and semi-exposed parts using manufacturer's recommended procedures.

3.05PROTECTION

A. Protect casework from damage and maintain design environmental conditions until Substantial Completion.

3.06SCHEDULES

A. Hardware Schedule:

1. Hinges: 2 per door, 3 on doors greater than 48-inches high.
2. Wire Pulls: One per door or drawer.
3. Drawer Slides: One set per drawer.
4. Catches: one per door, 2 on tall doors.
5. Adjustable Shelf Supports: 4 per shelf.
6. Locks: As indicated.
7. Coat Rods: As indicated.

END OF SECTION 12300