

PART 1 GENERAL**1.01 SECTION INCLUDES**

- A. Specially fabricated cabinet units.
- B. Countertops.
- C. Hardware.

1.02 RELATED REQUIREMENTS

- A. Section 01 6116 - Volatile Organic Compound (VOC) Content Restrictions.
- B. Section 09 0000 - Finish Products: Plastic laminates and wood finishes for casework and countertops.
- C. Section 10 1124 - Tackable Wall Systems: Tackable panels to be incorporated into casework and installed between casework elements.

1.03 REFERENCE STANDARDS

- A. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards; 2014.
- B. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards, U.S. Version 3.1; 2016, with Errata (2017).
- C. AWI/AWMAC (QSI) - Architectural Woodwork Quality Standards Illustrated; Architectural Woodwork Institute and Architectural Woodwork Manufacturers Association of Canada; 2005, 8th Ed., Version 2.0.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate materials, component profiles and elevations, assembly methods, joint details, fastening methods, accessory listings, hardware location and schedule of finishes.
- C. Product Data: Provide data for hardware accessories.

1.05 QUALITY ASSURANCE

- A. Perform work in accordance with AWI/AWMAC Architectural Woodwork Quality Standards Illustrated, Custom quality, unless other quality is indicated for specific items.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Protect units from moisture damage.

1.07 FIELD CONDITIONS

- A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

PART 2 PRODUCTS**2.01 CABINETS**

- A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.
- B. Plastic Laminate Faced Cabinets: Custom grade.

2.02 WOOD-BASED COMPONENTS

- A. Wood fabricated from old growth timber is not permitted.
- B. Provide sustainably harvested wood, certified or labeled as specified in Section 01 6000.
- C. Provide wood harvested within a 500 mile radius of the project site.
- D. Wood fabricated from timber recovered from riverbeds or otherwise abandoned is permitted, unless otherwise noted, provided it is clean and free of contamination; identify source; provide lumber re-graded by an inspection service accredited by the American Lumber Standard Committee, Inc.
- E. Panels fabricated from chopped wheat straw.

2.03 PANEL MATERIALS

- A. Wheatboard: Medium density (40 lbs/cu ft) panels composed of shredded wheat stalks with a no-added-formaldehyde MDI adhesive; sanded faces; thickness as required; use for components indicated on drawings.
 - 1. Water Absorption (24-hour): No greater than 20-percent.
 - 2. Thickness Swell (24-hour): No greater than 8-percent.
 - 3. Moisture Content: No greater than 8-percent.
- B. Hardboard: AHA A135.4; Pressed wood fiber with resin binder, Class 1 - Tempered, 1/4 inch thick, smooth two sides (S2S); use for drawer bottoms, dust panels, and other components indicated on drawings.

2.04 LAMINATE MATERIALS

- A. High-Pressure Decorative Laminate (HPDL): As specified in Section 09000 Finish Products.
- B. Low Pressure Decorative laminate (LPDL): NEMA LD 3, type as recommended for specific applications.
 - 1. Use at all cabinet interiors.
 - a. Color: White.

2.05 COUNTERTOPS

- A. Plastic Laminate Countertops: Exterior-grade plywood substrate covered with plastic laminate, conventionally fabricated with edge condition as indicated on drawings.

2.06 ACCESSORIES

- A. Adhesive: Type recommended by fabricator to suit application.
- B. Plastic Edge Banding: Extruded PVC, flat shaped; smooth finish; of width to match component thickness.
 - 1. Acceptable Manufacturers
 - a. Doellken Woodtape (www.doellken-woodtape.com)
 - b. Substitutions: See section 01 6000 - Product Requirements.
 - 2. Certifications: Certified by GreenGuard.
 - 3. Color: To match adjacent plastic laminate surface, including wood grain plastic laminate.
 - 4. Use at all exposed edges, including box, door, drawer and shelf edges.
- C. Grommets: Standard plastic grommets for cut-outs, 2-inch diameter, in color black.

2.07 HARDWARE

- A. Adjustable Shelf Supports: Standard side-mounted system using multiple holes for pin supports and coordinated self rests, satin chrome finish, for nominal 1 inch spacing adjustments.
- B. Drawer and Door Pulls: "U" shaped wire pull, steel with satin finish, 4 inch centers.
- C. Cabinet Locks: Keyed cylinder, two keys per lock, master keyed, steel with chrome finish steel with satin finish.
- D. Drawer Slides:
 - 1. Static Load Capacity: Commercial grade.
 - 2. Mounting: Side mounted.
 - 3. Stops: Integral type.
 - 4. Features: Provide self closing/stay closed type.
 - 5. Manufacturers:
 - a. Accuride International, Inc; ____: www.accuride.com/#sle.
 - b. Knap & Vogt Manufacturing Company; Light-Duty Drawer Slides: www.knapeandvogt.com/#sle.
 - c. Substitutions: See Section 01 6000 - Product Requirements.
- E. Hinges: European style concealed self-closing type, steel with satin finish.
 - 1. Manufacturers:
 - a. Grass America Inc; Tiomos Hinge System: www.grassusa.com/#sle.

- b. Blum, Inc; _____: www.blum.com/#sle.
- F. Keyboard Trays: Knappe & Vogt Manufacturing Company; Product 5700.
- G. Keyless Cabinet Locks: Rev-a-Shelf; Product RAL 11201-R.
 - 1. Keys: Rev-a-Shelf: RAL11202
 - a. Provide one key for every four locks provided.
- H. Trash Management Rings: Mockett TM-8" or Bobrick B-529
- I. Wall-mounted Shelf Standards and Brackets:
 - 1. Wall standard: Knappe & Vogt Manufacturing Company; Product 87.
 - 2. Bracket: Knappe & Vogt Manufacturing Company; Product 187 (length to match shelf depth indicated on drawings).
 - 3. Front clip (provide one at each bracket): Knappe & Vogt Manufacturing Company; Product 212.

2.08 FABRICATION

- A. Cabinet Style: Flush overlay.
- B. Cabinet Doors and Drawer Fronts: Flush style.
- C. Drawer Construction Technique: As recommended by fabricator.
- D. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
- E. Edging: Fit shelves, doors, and exposed edges with edging to match main surface. Do not use more than one piece for any single length.
- F. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Locate counter butt joints minimum 2 feet from sink cut-outs.
 - 1. Orient wood grain laminate the same as specified for "Matching Wood Grain" below.
- G. Matching Wood Grain: Comply with requirements of quality standard for specified Grade and as follows:
 - 1. Orient grain vertically unless noted otherwise.
 - 2. Orient grain on soffits, valances and toe kicks to match the orientation of adjacent field panels.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify adequacy of backing and support framing.

3.02 INSTALLATION

- A. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
- B. Use concealed joint fasteners to align and secure adjoining cabinet units.
- C. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose.

3.03 ADJUSTING

- A. Adjust moving or operating parts to function smoothly and correctly.

3.04 CLEANING

- A. Clean casework, counters, shelves, hardware, fittings, and fixtures.

END OF SECTION