

**SECTION 123530**  
**RESIDENTIAL CASEWORK**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. Section Includes:
  - 1. Casework for residential units and common spaces.
- B. Related Sections:
  - 1. Section 113100 – Residential Appliances: Appliances mounted in kitchen casework.
  - 2. Section 123640 – Stone Countertops.
  - 3. Section 123663 – Simulated Stone Countertops.
  - 4. Division 22 Section - Plumbing Fixtures for sink units mounted in countertops.

**1.2 DEFINITIONS**

- A. Exposed Surfaces: Surfaces visible when drawers and opaque doors are closed; behind clear glass doors; bottoms of casework 43 inches or more above finished floor.
- B. Semi-Exposed Surfaces: Surfaces which become visible when opaque doors are open or drawers are extended; bottoms of casework are more than 30 inches and less than 42 inches above finished floor.
- C. Concealed Surfaces: Surfaces considered concealed when surfaces not visible after installation; bottoms of casework less than 30 inches above finished floor; tops of casework over 78 inches above finished floor and not visible from an upper level; stretchers, blocking, and components concealed by drawers.
- D. Reveal Overlay: Door and drawer faces partially cover cabinet frame.
- E. Flush Overlay: Door and drawer faces cover cabinet frame with space between faces sufficient for operating clearance.
- F. Flush: Door and drawer faces flush with cabinet face.

**1.3 SUBMITTALS**

- A. General: Submit in accordance with Section 013300.
- B. Product Data:
  - 1. Submit product data for the following:
    - a. Each casework type and finish specified.
    - b. Each hardware type specified.
- C. Shop Drawings:
  - 1. Submit manufacturers shop drawings for casework showing location and size, accessories, materials, finishes, and filler panels. Include fully dimensioned plans, elevations, and anchorage details to countertop and walls.
  - 2. Submit shop drawings for countertops showing sizes, shapes, edge and backsplash profiles, cutouts for plumbing fixtures, and methods of joining.
- D. Samples:
  - 1. Submit samples for initial selection purposes of manufacturer's color charts in the form of unit sections showing the full range of colors, textures, and patterns available for each type of material indicated or exposed to view.
  - 2. Submit samples for verification purposes in full-size units of each type of material indicated; in sets for each color, texture, and pattern specified, showing the full range of variations expected in these characteristics.
    - a. 12 inch square samples of interior finishes and exposed surfaces of casework finish.
    - b. Full size drawer with drawer face and metal sides and glides.
    - c. One unit of each type of exposed hardware.
- E. Certification: Submit certifications specified in Quality Assurance article.

- F. Closeout Submittal: Submit manufacturer's printed, recommended maintenance data for kitchen casework.

#### **1.4 QUALITY ASSURANCE**

- A. Single Source Responsibility: To ensure quality of appearance and performance, obtain materials for systems from either a single manufacturer or from manufacturer approved by systems manufacturer.
- B. Certification: Provide kitchen casework with Kitchen Cabinet Manufacturers Association (KCMA) "Certified Cabinet" seal affixed in a semi-exposed location of each unit, showing compliance with above standard.

#### **1.5 DELIVERY, STORAGE, AND HANDLING**

- A. Comply with requirements of Section 016000.
- B. Deliver casework as factory-assembled units, packaged individually.

#### **1.6 PROJECT CONDITIONS**

- A. Environmental Requirements: Comply with casework manufacturer's written requirements for temperature and humidity conditions during storage and installation. Do not install casework until these conditions have been attained and stabilized.
- B. Field Measurements:
  - 1. Verify casework dimensions by field measurements. Verify kitchen casework can be installed in compliance with the original design and referenced standards.
  - 2. Verify countertop size and shape prior to fabrication by field measurements taken after base units are installed.

### **PART 2 - PRODUCTS**

#### **2.1 CORE MATERIALS**

- A. CARB Compliant Particleboard: Shall be high performance industrial grade M2 core. Particleboard shall be 45# - 48# density conforming to American National Standards Institute (ANSI) A208.1 and American Society for Testing and Materials (ASTM) D1037-91A standards and current applicable California Air Resources Board (CARB) standards.
- B. Moisture Resistant (MR) / No Added Formaldehyde (NAF) Particleboard: Shall be high performance industrial grade core. Particleboard shall be 45# - 48# density 3-ply type formation conforming to ANSI A208.1 and ASTM D1037-91A standards. Cores shall have MR and NAF resin formulation.
- C. Fire Resistant (FR) Particleboard: Duraflake (or equal) Class A/Class 1 fire -rated particleboard panel. Panels are retardant throughout, stay classified after cutting. Successfully passing applicable Standard Tests including ASTM E 84 Standard Test for Surface Burning Characteristics of Building Materials, ASTM E2768 Standard Test for Extended Duration Surface Burning Characteristics of Building Materials, and CAN/ULC - S102 Test for Surface Burning Characteristics of Building Materials.
- D. Ultra-Low Emitting Formaldehyde (ULEF): Shall be VESTA (or equal) made with 100% recycled and/or recovered wood fiber and is an ECC (Eco-Certified Composite) sustainability certified product. Complies with ANSI A208.1 2016 section 5.2. Complies with formaldehyde emission requirement for particleboard in CPA-ECC-2011, ANSI A208.1 2016 and CCR 93120.2 (CARB Composite Wood ATCM Phase II).
- E. Medium Density Fiberboard (MDF): Core shall be minimum 48# density conforming to ANSI A208.2 MD-130 standards and current applicable CARB standards.
- F. High Density Fiberboard (HDF): Fibrex high density thin MDF.

#### **2.2 EDGINGS**

- A. Polyvinyl Chloride (PVC) edge banding shall color match the face of the TFL panel unless otherwise noted.

- B. PVC edge banding shall be equal in width to the TFL panel thickness.
- C. Edge banding shall be flat edge PVC extrusion. Automated hot melt adhesive application, PUR, or laser application with trimming.
- D. PVC edge banding thickness shall be **.5 mm - 1 mm**.

### **2.3 CABINET MATERIALS, GENERAL**

- A. Core: Particleboard or MDF.
  - 1. Comply with ANSI A208.1, Table A and HUD 24 CFR part 3281.308.
  - 2. Meet CPA 3-08 EPPS including formaldehyde emission requirements.
- B. Finish: Thermofused Laminate, manufacturer per Interior Design documents.
- C. Cabinet Work:
  - 1. Construction shall be frameless type.
  - 2. Interiors are white melamine with adjustable shelves in upper, lowers, and pantry cabinets.
  - 3. Upper cabinets at Kitchen to be 12" deep, Base cabinets 23" deep.
  - 4. Removable base cabinets for accessible units.
- D. Casework: Coordinate fabrication of casework with requirements of other work within or on casework. Provide neatly trimmed cutouts, backing, etc., for equipment and items of owner and all other trades.
- E. Hardware: As selected by Architect and as follows:
  - 1. Soft-close concealed Euro-Style hinges.
  - 2. Heavy duty, full extension, soft-close guides at drawers
  - 3. *any additional accessories, project specific*

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Examine conditions and proceed with work in accordance with Section 017300.
- B. Verify that blocking is in place and backpriming complete before beginning installation.
- C. Verify that field measurements are as shown on shop drawings.
- D. Verify that mechanical, electrical, and other items affecting work of this Section are in place and ready to receive the work.

### **3.2 PREPARATION**

- A. Make field cuts with care to avoid splintering.

### **3.3 INSTALLATION**

- A. Solidly attach cabinets by screwing into wall studs.
- B. Install casework with no variations in flushness of adjoining surfaces using concealed shims. Where casework abuts other finished work, scribe and cut for accurate fit. Provide filler strips, scribe strips, and moldings in finish to match casework face.
- C. Install casework without distortion so that doors and drawers fit openings properly and are aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. Complete the installation of hardware and accessories as indicated.
- D. Install casework and countertop level and plumb to a tolerance of 1/8 inch in 8 feet.
- E. Fasten unit of casework to adjacent unit and into structural support members of wall construction with No. 10 sheet metal or wood screws with washer head or washer.
- F. Fasten countertops by screwing through corner blocks in base units into underside of countertop. Spline and glue joints in countertops and provide concealed mechanical clamping of joint.
- G. Fasten solid surface countertops by screwing through corner blocks in base units into underside of countertop. Align adjacent surfaces. Form seams 1/8 inch wide and adhere with manufacturer's recommended joint adhesive in color to match countertop.

**3.4 ADJUSTING AND CLEANING**

- A. Adjust hardware to center doors and drawers in openings and lubricate to provide unencumbered operation.
- B. Clean casework on exposed and semi-exposed surfaces. Touch up factory-applied finishes to restore damaged or soiled areas.

**END OF SECTION**