

## **SECTION 12372 - KITCHEN CASEWORK**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

#### **1.2 SUMMARY**

- A. This Section includes wood and plastic-laminate-faced kitchen cabinets and countertops.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
  - 1. Division 15 Section "Plumbing Fixtures" for sink units mounted in countertops.

#### **1.3 DEFINITIONS**

- A. 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.
- B. 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.
- C. Reveal Overlay: Door and drawer faces partially cover cabinet frame.
- D. Flush Overlay: Door and drawer faces cover cabinet frame with space between faces sufficient for operating clearance.
- E. Flush: Door and drawer faces flush with cabinet face.

#### **1.4 SUBMITTALS**

- A. General: Submit the following according to the Conditions of the Contract and Division 1 Specification Sections.
- B. Product data for each casework type specified.
- C. Product data for each hardware type specified.
- D. 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.
- E. Shop drawings for countertops showing sizes, shapes, edge and backsplash profiles, cutouts for plumbing fixtures, and methods of joining.
- F. 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.

#### **1.5 QUALITY ASSURANCE**

- A. Kitchen Casework: Comply with ANSI/KCMA A161.1 and HUD "Minimum Property Standards," Housing 4910.1, paragraph 611-1.1.
  - 1. KCMA Certification: Provide kitchen casework with Kitchen Cabinet Manufacturers Association (KCMA) "Certified Cabinet" seal affixed in a semiexposed location of each unit, showing compliance with above standard.
- B. Plastic Laminate Countertops: Comply with ANSI A161.2.
- C. Single-Source Responsibility: Obtain kitchen casework from one source of a single manufacturer.

#### **1.6 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver casework as factory-assembled units, packaged individually.

#### **1.7 PROJECT CONDITIONS**

- A. Environmental Conditions: 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: Verify casework dimensions by field measurements. Verify kitchen casework can be installed in compliance with the original design and referenced standards.
- C. Field Measurements: Verify countertop size and shape prior to fabrication by field measurements taken after base units are installed.

## **PART 2 - PRODUCTS**

### **2.1 MANUFACTURERS**

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include, but are not limited to, the following:
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Kitchen Casework:
    - a. Merillat Ind., Inc.
    - b. Triangle Pacific Corp.
    - c. Yorktowne Cabinets.
  - 2. Plastic Laminate for Countertops:
    - a. Formica Corp.
    - b. Wilson Plastics Co., Wilsonart.

### **2.2 CABINET MATERIALS, GENERAL**

- A. Sizes, dimensions, and thicknesses given are minimum dimensions.
- B. Particleboard: ANSI A208.1, mat-formed particleboard, Grade 1-M-2 with minimum density of 40 pcf, internal bond of 60 psi, and minimum screw-holding capacity of 225 psi on faces and 200 lbs on edges.

- C. Hardwood Plywood: ANSI/HPMA HP hardwood and decorative plywood, Good Grade (1) or better.
- D. Particleboard Core Plywood: ANSI/HPMA HP hardwood and decorative plywood, Good Grade (1) or better.
- E. Solid Wood: Clear, dry, sound, and free of defects selected from First Grade lumber as defined by NHLA.
- F. Hardboard: ANSI A135.4, Class 1, tempered.
- G. Plastic Laminate: NEMA LD 3.
  - 1. Provide colorthrough plastic laminate.
- H. Thermoset Decorative Panels: Comply with ALA-1988 and NEMA LD 3 for GP 20; melamine or polyester.

### 2.3 PLASTIC LAMINATE FACE CASEWORK

- A. Edge: Flush
- B. Face Frame: Frameless.
- C. Concealed Surfaces: Sound and dry solid wood, plywood, or particleboard without defects affecting strength, utility, or stability.
- D. Sides, Dividers, Tops, Bottoms, Shelves, and Stretchers: Plastic laminate GP 28 on 1/2 inch thick particleboard. Provide stretchers for top of base cabinet.
- E. Back Panels: 1/8 inch- thick hardboard with thermoset decorative panels on interior surfaces fastened to rear edge of end panels and to top and bottom rails.
- F. Exposed Edge Treatment: Edge doors and drawer fronts with plastic laminate of same material as exposed faces.
- G. Doors, Drawer Fronts, Fixed Panels, Toeboards, and Ends: Plastic laminate GP 28 on 5/8 inch thick particleboard.
- H. Drawers: Fabricate with front, bottom, and back rabbeted in sides and secured with glue and mechanical fasteners as follows:
  - 1. Subfronts, Sides, and Backs: 3/8 inch thick particleboard.

2. **Bottoms:** Not less than 1/4 inch thick particleboard.
  3. **Drawer Suspension:** Provide for a minimum capacity of 50 lbf with twin-track, side-mounted, drawer-glide suspension with nylon rollers. Provide self-closing feature and positive stop.
- I. **Joinery:** Rabbet backs flush into end panels and secure with concealed mechanical fasteners. Connect tops and bottoms of wall cabinets and bottoms and stretchers of base cabinets to ends and dividers with mechanical fasteners. Rabbet tops, bottoms, and backs into end panels.
  - J. **Subbase:** 3/4 inch thick particleboard.
  - K. **Toe Board:** 5/8 inch thick particleboard attached to subbase with concealed fasteners.

#### **2.4 CASEWORK HARDWARE**

- A. **General:** Manufacturer's standard units complying with ANSI A156.9, of type, material, size, and finish as selected from manufacturer's standard choices.

#### **2.5 COUNTERTOPS, PLASTIC LAMINATE**

- A. **General:** Comply with ANSI A161.2.
  1. Provide colorthrough plastic laminate.
- B. **Plastic Laminate Substrate:** Comply with ASTM D 1037.
  1. **Particleboard:** Comply with ANSI A208.1, 45 lb/cu.ft. density, not less than 3/4 inch thick.
  2. **Medium-Density Fiberboard:** Comply with ANSI A208.2, not less than 3/4 inch thick.
- C. **Plastic Laminate Substrate for Countertop with Sink:** Exterior grade plywood or phenolic resin particleboard complying with ASTM D 1037.
- D. **Countertop, Backsplash, and Endsplash Plastic Laminate:** GP 50.
- G. **Configuration:** Provide countertops with the following front style, cove, and backsplash style:
  1. **Front Style:** Rolled.

2. Cove: Cove molding.
3. Backsplash and Endsplash Style: Square edge without scribe.

### **PART 3 - EXECUTION**

#### **3.1 INSTALLATION**

- A. 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.
- B. 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.
- C. Install casework and countertop level and plumb to a tolerance of 1/8 inch in 8 feet.
- D. Fasten unit of casework to adjacent unit and into structural support members of wall construction with #10 sheet metal or wood screws with washer head or washer.
- E. Fasten plastic laminate 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.

#### **3.2 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 12372