

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 kitchen cabinets and plastic laminate countertops.

1.3 DEFINITIONS:

- A. Exposed portions of casework include all surfaces including edges visible when doors and drawers are closed. Also included are visible surfaces and visible edges of shelves in open casework and underside of bottoms of casework more than 4 feet above floor.
- B. Semiexposed portions of casework include surfaces behind opaque doors and drawer fronts including shelves, dividers, interior faces of cabinet ends, backs, tops, and bottoms, drawer sides, backs, and bottoms, and back face of doors.
- C. Concealed portions of casework include sleepers, web frames, dust panels, and other surfaces not normally visible after installation.

1.4 SUBMITTALS:

- A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification Sections.
- B. Product data for each type of casework specified.
- C. Shop drawings showing location and size of each type of casework, accessories, materials, finishes, hardware types and locations, filler panels, and anchorage details. Include fully dimensioned plans and elevations and anchorage details to countertop and walls.
- D. Samples for selection purposes showing full range of colors, textures, and patterns available for selection by Architect and Owner.
 - 1. 2-inch-square samples of plastic laminate required.

1.5 QUALITY ASSURANCE:

- A. Installer Qualifications: Engage an experienced Installer who has successfully completed the installation of kitchen casework similar in material, design, and extent to that indicated for project.
- B. Kitchen Casework: Complying with ANSI/NKCA-A161.1.

- C. NKCA Certification: Provide kitchen casework with National Kitchen Cabinet Association (NKCA) "Certified Cabinet" seal affixed in a semiconcealed location of each unit, evidencing compliance with above standard.
 - D. Plastic Laminate Countertop: Complying with ANSI-A161.2.
 - E. Single-Source Responsibility: Obtain kitchen casework from one source from a single manufacturer.
- 1.6 DELIVERY, STORAGE AND HANDLING:
- A. Do not deliver wood casework until painting, wet work, grinding, and similar operations have been completed in installation areas.
 - B. Deliver casework as a factory-assembled unit, packaged individually, and shipped each in its own carton.
- 1.7 PROJECT CONDITIONS:
- A. Field Measurements: Verify casework and countertop dimensions by field measurements. Verify that kitchen casework may be installed in compliance with the original design and referenced standards.

PART 2 - PRODUCTS

- 2.1 GENERAL:
- A. Products of one or more manufacturers have been specified to establish quality, design, and performance characteristics. Provide either specified products or equivalent products of listed manufacturers, offering equal or better characteristics, as judged solely by the Architect.
 - B. Manufacturer: Provide the following:
 - 1. Armstrong "Siena", Birch, Natural finish, "Premier" construction.
 - C. Alternate manufacturers:
 - 1. Aristokraft.
 - 2. Excel.
 - 3. HomeCrest.
 - 4. Kraft Maid.
 - 5. Merillat.
- 2.2 MATERIALS, GENERAL:
- A. Particle Board: ANSI-A208.1 mat-formed particle board, Grade 1-M-2 with minimum density of 40 pcf, internal bond of 60 psi, and minimum screw-holding capacity of 225 lbs. on faces and 200 lbs. on edges.
 - B. Plastic Laminate: Complying with NEMA-LD-3, of thickness, type, and grade designation indicated; in colors or patterns and finishes indicated, or, if not indicated, as selected by Architect from manufacturer's standard selections.

- C. Hardwood Plywood: ANSI/HPMA HP hardwood and decorative plywood, Good Grade (1) or better, of thickness, species, cut, and core construction indicated.
- D. Hardwood Lumber: Clear, dry, sound, and free of defects selected from First Grade lumber (NHLA), of species indicated.
- E. Hardboard: ANSI-A135.4, Class 1, tempered.

2.3 WOOD CASEWORK, LAMINATE FINISH:

- A. Solid Lumber: Dry, sound, selected to eliminate appearance defects, of any species of hardwood or softwood with color and grain characteristics similar to exposed portions.
- B. Style of face construction for base, wall, and full-height units, if any, with drawer fronts, doors, and fixed panels as follows:
 - 1. Reveal overlay style, raised panel doors.
- C. Construction for face frame of casework as follows:
 - 1. Rails and Stiles: Not less than 3/4-inch by 1-1/2-inch solid hardwood lumber with glued mortise and tenon joints.
 - 2. Exposed Ends: Not less than 1/2-inch thick, 45 lb. industrial grade particle board core with not less than 2-mil vinyl laminate on both surfaces. Connect to stile with pressure-glued tongue and plow joint and supplemented by concealed mechanical fasteners.
 - a. Unexposed Ends: Same as exposed ends.
 - 3. Wall and Base Hanging Rails: Not less than 3/4-inch by 3 1/2-inch solid lumber, machined to interlock with end panels, and rabbeted to receive top and bottom panels; with back rails secured under pressure with glue and mechanical fastening devices.
 - 4. Shelving: Not less than 3/4-inch-thick 45 lb. industrial grade particle board prefinished with not less than 2-mil vinyl laminate on top and bottom, and filled and sealed front edge, adjustable.
- D. Construction for wall units with doors and fixed panels as follows:
 - 1. Tops and Bottoms: Not less than 3/8-inch-thick, 45 lb. industrial grade particle board, fully supported by and secured in rabbets in end panels, front frame, and back rail.
 - 2. Backs: Not less than 1/8-inch thick fiberboard, with 2 mil. vinyl laminate, fastened to machined rear edge of ends and to top and bottom hanger rails.
- E. Construction for base units with doors and fixed panels as follows:
 - 1. Front Frame Drawer Rails: Not less than 3/4-inch by 1-1/2-inch lumber mortised and fastened into face frame.
 - 2. Bottoms: Not less than 3/8-inch-thick 45 lb. industrial grade particle board with 2-mil vinyl laminate finish, fully supported by and secured in rabbets in end panels, front frame, and back bottom rail.

3. Back Panels: Not less than 1/8-inch thick tempered hardboard fastened to machined rear edge of end panels and to top and bottom rails. Interior surface prefinished with 2-mil vinyl laminate.
 4. Toe Boards: Not less than 1/2x4", 45 lb. industrial grade particle board core attached between end panels and extended from bottom panel to floor.
 5. Corner Blocks: Glued and fastened in each of 4 top corners to maintain cabinet squareness and rigidity.
- F. Construction for drawer units as follows:
1. Drawer Body: Not less than 7/16-inch-thick hardwood plywood sides and back and 1/2" thick front. Provide box-type construction with subfront and back rabbeted into sides and secured with glue and mechanical fasteners. Exposed fronts fastened to subfront with mounting screws from interior of body. Drawer bottom of not less than 1/8-inch-thick hardwood plywood, set into rabbets in back, sides, and front.
 2. Drawer Suspension: Not less than 75-lb.-capacity twin track, side-mounted drawer glide suspension with nylon rollers, self-closing feature, and positive stop.

2.4 COUNTERTOPS:

- A. Exposed Surfacing Material: 0.042-inch-thick high-pressure plastic laminate, PF.
- B. Substrate (Core) for Exposed Surfacing Material: Particle board.
- C. Countertop Configuration: Provide countertops with the following front styles (nose), cove, and backsplash style, unless otherwise indicated:
 1. Front Style: Square.
 2. Cove: Direct bond.
 3. Backsplash Style: Square.
- D. Countertop Thickness: As indicated, or, if not indicated, not less than 1-1/2 inch, unless otherwise indicated, with substrate (core) not less than 3/4-inch thick.

2.5 CABINET HARDWARE:

- A. General: Manufacturer's standard hardware units of type, size, and finish indicated, complying with ANSI A156.9, of type, material, size, and finish as selected by Architect from manufacturer's standard choices.
- B. Hinges: Manufacturer's standard concealed hinges, fully adjustable.
- C. Pulls: 4" wire pulls on all doors and drawers, brushed aluminum finish.

2.6 FABRICATION:

- A. Fabricate wood kitchen casework to dimensions and profiles and details indicated.
- B. Assemble units in shop in components as large as practicable to minimize field cutting and jointing.

PART 3 - EXECUTION

3.1 INSTALLATION:

- A. Install casework plumb, level, true, and straight with no distortions using concealed hardwood shims. Where wood kitchen casework abut other finished work, scribe and cut for accurate fit. Provide filler strips, scribe strips, and moldings as indicated or required and in finish to match cabinet face.
- B. Anchor casework securely in place with concealed fasteners, anchored into structural support members of wall construction. Comply with manufacturer's instructions for support of units.
- C. Attach countertops securely to base units. Spline and glue joints in countertops; provide concealed mechanical clamping of joint. Cut out for fixtures and appliances as indicated; drill pilot holes at corners before making cutouts. Smooth-cut edges and coat with waterproof coating or adhesive.
- D. Complete hardware installation and adjust doors and drawers for proper operation.
- E. Clean all casework surfaces upon completion of installation.

3.2 PROTECTION:

- A. Protect installed casework from damage during construction period. Replace units damaged prior to Substantial Completion.

...END OF SECTION 12372