

**SECTION 12 32 00**  
**MANUFACTURED WOOD CASEWORK**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. This section specifies plastic laminate casework as detailed on the drawings, including related components and accessories required to form integral units. Wood casework items shown on the drawings, but not specified below shall be included as part of the work under this section, and applicable portions of the specification shall apply to these items. Each like item of casework shall be of the same design and by one manufacturer.
- B. Where shown, provide plastic laminate casework items as follows:
  - 1. Base and wall cabinets as indicated on Drawings.
  - 2. Plastic laminate covered adjustable shelving as indicated on Drawings.

**1.2 RELATED WORK**

- A. Wood Blocking: Section 06 10 00, Rough Carpentry.
- B. Color and Finish of Plastic Laminate: Section 09 06 00, SCHEDULE FOR FINISHES.
- C. Lavatories and Plumbing in Casework: Section 22 40 00, PLUMBING FIXTURES.

**1.3 MANUFACTURER'S QUALIFICATIONS**

The fabrication of casework shall be by a manufacturer who produces casework similar to the casework specified and shown.

**1.4 SUBMITTALS**

- A. Submit in accordance with Section `01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Manufacturer's Literature and Data:
  - Sinks, trim and fittings.
  - Locks for doors and drawers
  - Adhesive cements
- C. Samples:
  - Counter top, plastic laminate, 150 mm (six inch) square
  - Wood Face Veneer or Hardwood Plywood
- D. Shop Drawings (1/2 full size):
  - 1. All casework, showing details of construction, including materials, hardware and accessories.

2. Cabinets and counters showing faucets in connection with sink bowls, and electrical fixtures and receptacles which are mounted on cabinets and counters.
3. Fastenings and method of installation.

### 1.5 APPLICABLE PUBLICATIONS

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by basic designation only.
- B. American Society for Testing and Materials (ASTM):
  - A167-99 (R2004).....Stainless and Heat-Resisting chromium-Nickel Steel Plate, Sheet and Strip
  - A1008-07.....Steel, Sheet, Cold-Rolled, Carbon, Structural, High Strength Low Alloy
  - C1036-06.....Flat Glass
- C. Composite Panel Association (CPA):
  - A208.1-99.....Particleboard
- D. U.S. Department of Commerce Product Standards (Prod. Std):
  - PS1-95.....Construction And Industrial Plywood
- E. Hardwood, Plywood and Veneer Association (HPVA):
  - HP.1-04.....Hardwood and Decorative Plywood
- F. Architectural Woodwork Institute (AWI):
  - Architectural Woodwork Quality Standards, Guide Specifications Quality Certification Program - 1999
- G. American Society of Mechanical Engineers (ASME):
  - A112.18.1-05.....Plumbing Fixture Fittings
- H. National Electrical Manufacturers Association (NEMA):
  - LD3-05.....High Pressure Decorative Laminates
  - LD3.1-95.....Performance, Application Fabrication and Installations of High-Pressure Decorative Laminates
- I. Hardwood Plywood and Veneer Association
  - HP-1.....Hardwood and Decorative Plywood

## PART 2 - PRODUCTS

### 2.1 PLASTIC LAMINATE:

- A. NEMA LD-3.
- B. Exposed decorative surfaces including countertops, both sides of cabinet doors, cabinet and drawer edges, and for items having plastic laminate finish. High pressure decorative laminate (HPDL), 0.048 inch nominal thickness.

C. Cabinet Interiors Including Shelving: Both of following options to comply with NEMA, LD3.1 as a minimum.

1. Plastic laminate clad plywood or particle board.
2. Resin impregnated decorative paper thermally fused to particle board.

D. Backing sheet on bottom of plastic laminate covered wood tops. Backer Type BKL.

## **2.2 PLYWOOD, SOFTWOOD**

Prod. Std. PS1, five ply construction from 13 mm to 28 mm (1/2 inch to 1-1/8 inch) thickness, and seven ply for 31 mm (1 1/4 inch) thickness.

## **2.3 PARTICLEBOARD**

CPA A208.1, Type 1, Grade 1-M-3.

## **2.4 RUBBER OR VINYL BASE**

Cove (for carpet and resilient floor); 100 mm (4 inch) high, 3 mm (1/8 inch) thick, flexible to conform to irregularities in walls, partitions and floors.

## **2.5 PLUMBING FIXTURES**

ASME A112.18.1, except die-cast zinc-alloy material is not acceptable.

## **2.6 HARDWARE**

A. Furnish and install pin tumbler locks on all drawers and doors, disc tumbler lock "Duo A", with brass working parts and case, as manufactured by the Illinois Lock Company will be an acceptable substitute. Locks for each type casework, shall be keyed differently and shall be master-keyed for each type service, such as Office Users and Administration. Provide two keys for each lock. Exposed hardware, except as otherwise specified, shall be satin finished chromium plated brass.

B. Marking of Locks and Keys:

1. The name of the manufacturer, or trademark by which manufacturer can readily be identified, legibly marked on each lock.
2. The key change number marked on the exposed face of lock, and also stamped on each key.
3. Key change numbers shall provide sufficient information for replacement of the key by the manufacturer.

C. Hinged Doors:

1. Doors 900 mm (36 inches) and more in height shall have three hinges and doors less than 900 mm (36 inches) in height shall have two hinges. Each door shall close against two rubber bumpers.
2. Door Hinges: European style concealed self-closing type, steel with polished chrome/aluminum finish, allowing 3-dimensional adjustment. Provide complete with black plastic cover caps, and manufacturer's

recommended mounting plates with dowel inserts and fasteners, 165° snap on with doweled hinge cup.

D. Locks:

1. Cylinder type pin tumbler.
2. Equip all doors and drawers with locks.

E. Drawer and Door Pulls:

Doors and drawers shall have 10mm diameter steel wire pulls, fabricated of stainless steel; 96mm centers. Provide two (2) pulls for drawers greater than 24 inches wide.

F. Drawer Slides:

1. Full extension steel slides with nylon ball-bearing rollers.
2. Capacity: 100 pounds - static load.
3. Slides shall have positive stop.
4. Equip drawers with rubber bumpers.

G. Sliding Doors:

1. Each door shall be supported by two ball bearing bronze or nylon rollers, or sheaves riding on a stainless steel track at top or bottom, and shall be restrained by a nylon or stainless steel guide at the opposite end.
2. Plastic guides are not acceptable.
3. Each door shall have rubber silencers set near top and bottom of each jamb.

H. Shelf Standards (Except For Fixed Shelves):

Bright zinc-plated steel for recessed mounting with screws, 16 mm (5/8 inch) wide by 5 mm (3/16 inch) high providing 13 mm (1/2 inch) adjustment, complete with shelf supports.

## 2.7 FABRICATION

- A. Casework shall be of the flush overlay design and, except as otherwise specified, be of premium grade construction and of component thickness in conformance with AWI Quality Standards.
- B. Fabricate casework of plastic laminated covered plywood or particleboard as follows:
  1. Where shown, doors, drawers, shelves, and all semi-concealed surfaces shall be plastic laminated.
- C. Electrical fixtures, receptacles, wiring and junction boxes required for fixtures and receptacles:
  1. Factory installed in casework.
  2. For electrical lighting fixtures, see drawings.

3. For electric receptacles and lighting fixtures installed below or adjacent to wall cabinets or above counter tops, see electrical sections or specifications.
4. Install wiring in built-in raceways and terminate at junction box mounted on rear of cabinet and counter.
5. For final hook-up at junction box see electrical sections of specifications.

D. Base:

1. Provide coved vinyl base with close, flush joints; set with adhesive.
2. Remove adhesive from exposed surfaces.
3. Install base at floor line after casework has been accurately leveled.
4. Rub base to glossy finish.

E. Support Members for Tops of Tables:

1. Construct as detailed.
2. Provide miscellaneous steel members and anchor as shown.

### **PART 3 - EXECUTION**

#### **3.1 INSTALLATION**

- A. Set casework in place; level, plumb and accurately scribe and secure to walls, and/or floors.
- B. The installation shall be complete including all trim and hardware. Leave the casework clean and free from defects.

#### **3.2 FASTENINGS**

- A. Fastenings for securing casework to adjoining construction shall be as detailed on the drawings or approved shop drawings.
- B. See Section 06 10 00, ROUGH CARPENTRY for reinforcement of walls and partitions for casework anchorage.

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