

- D. Guarantee: This Contractor shall guarantee all materials and workmanship of equipment provided on this contract for a period of one (1) year from the date of final acceptance. Any defective materials or faulty workmanship occurring within that time shall be replaced or corrected without charge.

1.3 QUALITY ASSURANCE

- A. Provide all work by a single manufacturer.
- B. Casework Manufacturer: Five (5) years experience in providing installations of similar type and complexity.
- C. Protect casework materials from dampness during and after delivery. Do not expose casework to extreme changes in humidity.
- D. Do not store or install casework until concrete, masonry and other wet work is completely dry.
- E. Store casework in an environment with a minimum ambient temperature of 32-degrees F, with a relative humidity between 25-percent and 85-percent.
- F. Store casework panels face-to-face in a horizontal position. Do not store on damp or wet surfaces.

1.4 WARRANTY

- A. Provide 5-year written warranty on all casework and associated hardware against all defects in material and workmanship.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Manufactured Wood Plywood Panels:
 - 1. Comply with AWI custom grade standards.
- B. Visible Edge Material: 3-mm, solid, high impact, acid resistant polyvinyl chloride (PVC), machine applied with moisture resistant polyurethane glue and automatically trimmed, buffed and corner chamfered edges, and corner radiused for 1-1/8 inch edges.
 - 1. Fixed front panels, drawer fronts, doors, visible edges of sides and shelves: 1-1/8-inch minimum.
 - 2. All edges, including unexposed edges: Minimum 1-1/8 inch PVC.
 - 3. Work surfaces and backsplashes: 3-mm minimum. All exposed and unexposed edges on countertops shall be edge banded.
- C. Unexposed Wall and Base Ends: Plastic surfaced and banded on all visible edges 3-mm minimum.

- D. Plastic Laminate: Melamine complying with NEMA LD3 - 1991 and ALA 1988. Antibacterial and aseptic with the following performance characteristic:
1. Paper Weight: no less than 120-gm.
 2. Wear Resistance: 600 cycles
 3. Scuff Resistance: No effect
 4. Conductive Heat Resistance: No effect
 5. Radiant Heat Resistance: 165 seconds
 6. Boiling Water Resistance: Slight to no effect
 7. High Temperature Resistance: Slight to no effect
 8. Cigarette Burn Resistance: 520 seconds
 9. Stain Resistance: No effect by stains 1-23 and minor effect by stains 24-29.
 10. Color: Selected by Design Criteria Professional from manufacturer's standard color palettes.
- E. Carcass Panels: Provide as follows
1. All Cabinets: Modular in design.
 2. Side and Shelf Panels: 3/4-inch thick.
 3. Mail Slots and Back Panels: 3/4-inch thick.
 4. Front Panels (doors, drawer fronts and face panels): 3/4-inch thick.
- F. Drawers:
1. Sides: Constructed of powder coated 16-gauge steel with u-turned edge to permit attachment to drawer bottom.
 2. Drawer Bottom: 3/4-inch multi-density melamine covered top and bottom, edge banded on all four edges with 1-mm PVC.
- G. Work Surface Tops
1. 1-1/8 inch thick melamine.
 2. Provide cutouts for plumbing fixtures.
 3. Seal all cutouts and exposed edges.
- H. Recessed Support Base: Fully recessed rigid 4-inch high and 3/4-inch thick manufactured wood plywood panel base with four (4) levelers per cabinet providing 2-1/4 inch adjustment from inside the cabinet.
- I. Fasteners and Anchors: Types, sizes, material and finish as required for conditions of use.
1. Wood Screws: FS FF-S-1 11.
 2. Cabinet Attachment Screws: #10 pan head screws, minimum 7/16-inch diameter head and 1-1/2 inch long.
 3. Use of nails will not be permitted.
 4. Anchors: As required for substrate condition and adequate anchorage of the casework.
- J. Hardware

1. Panel Assembly Pins
 - a. Nickel coated zinc alloy cam and solid galvanized screw. Pin KD fasteners for connections of tops and floors to side panels and designed to be two times stronger than glue and dowel construction.
 - b. Sleeved Cam and Dowel KD fasteners for connecting fixed shelves to side panels.
 - c. Cam and Tongue KD fasteners for connecting back panel to side panels.
2. Pulls: Solid matte nickel coated steel, 3/8-inch diameter wire pulls projecting 1-1/4-inch to allow full grasp and securely mounted with two screws from backside of panel.
 - a. Drawers and Cabinet Doors: 4 inches
 - b. Tall Cabinet Doors: 8 inches
3. Hinges: Hafele Aximat nickel-coated zinc alloy with lifetime warranty and as follows:
 - a. Exposed self-closing 15-mm overlay nickel-plated finish opening 290-degrees maximum and providing reveal to match standard cabinet reveals.
 - b. Provilsa and amum ae esh43atch stwyo a

7. Flatness Warpage: Not to exceed 3/8-inch in 96 inches of length or 1/4-inch in a 48 inch width.
- C. Sides, fronts and shelves: 3/4-inch thickness and shall be flush type with 5/32-inch reveals at the panel joints.
- D. Backs: 3/4-inch thickness and shall be fully overlaid on the sides.
- E. Panels: Equipped with 3/16-inch diameter holes drilled 1-1 /4 inches on center and 1-1/2 inches from the face to facilitate adjustable shelving, drawers, system hardware and accessories.
- F. Worksurface Tops: 1-1/8 inch thickness with 1-1/8 inch PVC banding on all four edges. Backsplashes shall be 3/4-inch minimum thickness.
- G. Cabinet Parts: Accurately machined and bored for premium quality grade joinery construction utilizing automatic machinery to insure consistent sizing of modular components.
- H. Fabricate casework to ensure durable and rigid units and to permit plumb and level site installation with tight joints between sections.
- I. Worksurface Tops: Fasten to base with concealed screws of adequate length through brackets or top shelf provided at top insides of bases. Seal all cutouts and exposed edges.
- J. Provide cutouts with appropriate grommets for plumbing fixtures, inserts, appliances, out boxes, and other fixtures and fittings.
 1. Verify locations of cutouts from on-site dimensions.
 2. Prime paint or seal contact surfaces of cut edges.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Casework Installation

1. Casework: Installed in accordance with reviewed shop drawings and manufacturer's written instructions.
2. Field verify site dimensions of casework locations prior to fabrication.
3. Set all casework straight to line, true, square, plumb, level and ready to receive tops.
4. Apply casework attachment rails to wall along entire length of wall to facilitate installation of wall cabinets.
5. Hang all wall-mounted casework to attachment rails. Level and adjust wall unit mounting brackets.
6. Work surface tops: Installed and assembled on site with the use of concealed screws on bases such as base cabinets pedestals or columns.
7. Fabricate casework in as many individual pieces as required to fit through doors.

3.2 PROTECTION

- A. Protect casework in shipping. Replace any cabinets or panels damaged in transit.

- B. Protect finished installation from damage by water, heat and other causes until final acceptance.
- C. Warpage, surface discoloration and damage will be cause for rejection and replacement at no additional cost to the Owner.

3.3 CLEAN UP

- A. Upon completion of work, remove from the premises all rubbish and other accumulated materials not caused by other trades and leave the work area in a clean and orderly condition acceptable to the Owner and Design Criteria Professional.
- B. Remove dirt with a damp cloth and soap and water. Stubborn dirt may be removed with: Non-flammable chlorinated solvents. Lacquer thinner, MEK or contact adhesive solvent if area is ventilated sufficiently to prevent the build-up of fumes and noticeable odors. Do not use harsh abrasive cleaners.
- C. Repair small scratches and surface blemishes on units or replace units prior to final completion.

END OF SECTION 12300