

OFFICE FURNITURE SPECIFICATIONS

1 GENERAL

1.1 SECTION INCLUDES

- A. Work required to complete the product indicated by the Contract Documents, and the items necessary for its proper installation.

1.2 REFERENCES

- A. American Nation Standards Institute (ANSI)
- B. American Society For Testing And Materials (ASTM)
 - 1. ASTM D1037, Standard Methods of Evaluating the Properties of Wood-Base Fiber and Particle Panel Materials.
- C. Federal Specifications (FS)

1.3 QUALITY ASSURANCE

- A. Product is compliant with AWI requirements for laminate-clad cabinets.
 - 1. Cabinet construction shall be flush overlay.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store and handle products in exact accordance with the manufacturer published instructions and requirements. Store materials out of the weather.
- B. Deliver materials in the original unopened packages with manufacturer's name, labels, product identification and lot numbers where appropriate.

1.5 WARRANTY

- A. Manufacturer shall provide a 10-year materials and workmanship warranty for the replacement of any defective part.

2 PRODUCTS

2.1 MANUFACTURERS

- A. Product shall be "Techline" as manufactured by Techline USA.

2.2 MATERIALS

- A. Particleboard
 - 1. Particleboard shall be 48-pound per cubic foot density, industrial grade M-2, conforming to ASTM D1037. Product shall meet requirements of ANSI A208.1-1999.
 - 2. Particleboard backs and drawer bottoms shall be 1/4-inch thick, conforming to ASTM D1037. Product shall meet requirements of ANSI A208.1-1999.
 - 3. Particleboard drawer sides shall be 5/8-inch thick, 48-pound per cubic foot density, industrial grade M-2, conforming with ASTM D1037. Product shall meet requirements of ANSI A208.1-1999.

- B. High-pressure laminate for exposed cabinetry and work surfaces shall be Vertical Grade GP-28, with 0.030-inch nominal thickness as defined by NEMA - LD3-1995 vertical surfacing grade. Product shall be adhered to substrate with thermosetting water based multi-bond adhesive, under 200-psi at no more than 200-degree Fahrenheit. Color shall be indicated on the drawings.
- C. Edging shall be rigid polyvinyl chloride (PVC), 0.5-millimeter and 1.4-millimeter thick. Edging shall be attached with a hotmelt thermoplastic adhesive.
- D. Thermofused melamine laminate shall be thermally fused to substrate under 400-psi at 380-degree Fahrenheit. Product shall have been tested in accordance with NEMA - LD3-1995.

2.3 CABINET HARDWARE AND ACCESSORIES

- A. Hinges shall be clip-on European style, nickel plated metal, with six-way adjustment, with spring-loading for self-close and hold open feature. Hinges shall have 120-degree.
- B. Drawer slides shall be zinc chromate-plated steel, side mounted, full-extension, with steel ball bearings. Slides shall have quick disconnect feature.
 - 1. Slides for box drawers with full extension shall have a load carrying capacity of at least 100-pounds.
 - 2. Slides for file drawers with full extension shall have a load carrying capacity of 150-pounds.
 - 3. Slides for pencil drawers with full extension shall have a load carrying capacity of at least 70-pounds.
- C. Pulls shall be 8-millimeter wire steel, nickel plated, with an overall dimension of 104-millimeter in length and protruding 27-millimeter from the surface.
- D. Shelf supports shall be 5-millimeter positive locking pin support.
- E. Locks shall be steel and zinc alloy composition, bright nickel finish, with 5-pin cylinder type tumbler, two keys per lock. Individually keyed, keyed alike, master keyed, and grand master keyed are optional, as required.

2.4 CASEWORK FABRICATION

- A. Door and drawer fronts shall be of low-pressure laminate or particleboard.
- B. Cases and interior drawer parts shall be of flush overlay frameless design machined to a tolerance of 0.2-millimeter on a 32-millimeter grid system. Tops, bottoms, and sides shall be melamine surfaced 3/4-inch particleboard. Drawer sides shall be melamine surfaced 5/8-inch particleboard. Cabinet parts shall be accurately machined and bored for joinery construction utilizing automated machinery to ensure consistent sizing of modular components. Interior tops, and internal cabinet components, such as fixed horizontal or vertical dividers, shall be joined using 5/16-inch diameter hardwood dowels. These parts are glued and clamped under pressure during assembly to secure joints and ensure a square cabinet.
- C. Case backs shall be 1/4-inch particleboard with melamine surfaced on two sides. The back shall be dadoed into the case and secured with metal fasteners.
- D. Drawer bottoms shall be 1/4-inch particleboard.
- E. File drawers shall have a prefabricated metal rail system attached to the top to allow for a hanging file system.
- F. Drawer slides shall be mounted on the drawer sides with metal fasteners.

- G. All casework and top drawer edges shall be machine-edged in solid colored 0.5-millimeter PVC banding. All drawer and door fronts shall be machine-edged in solid colored 1.4-millimeter PVC banding eased with 2-millimeter radius.
- H. Hinges shall be designed with two or three per door on upper wall cabinets and two to four per door on larger doors.
- I. Pulls shall be attached with 2-screws, 96-millimeter on center.

3 EXECUTION

3.1 EXAMINATION

- A. Examine all adjoining work, verify all governing dimensions, and report any unsatisfactory conditions.

3.2 INSTALLATION

- A. Install materials and systems in accordance with manufacturer published instructions and requirements. Install materials with uniform appearance and in proper relation with adjacent construction.
- B. Accurately set all cabinets plumb, square level, and permanently secure in position as indicated on the Drawings. Install casework to a tolerance of 1/8-inch in 96-inches for plumb and level.
- C. Install casework without distortion so that doors and drawers fit openings properly and are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operations.
- D. Exercise extreme care to avoid damaging case work finish during the handling and erecting of all members.
- E. Field fabrications and modifications of casework required for completion of units shall be performed with extreme care to avoid damage to casework finish. Scribe casework and fillers as required for a tight fit.
- F. Wall cabinets shall be securely fastened to studs or blocking in the wall.

3.3 CLEANING

- A. Clean all materials provided under this Section and all adjacent materials, which may have become soiled from this Work.
- B. Wipe out casework interiors and empty drawers of dirt and debris. Remove pencil marks and other blemishes from casework surfaces.
- C. Remove foreign matter that could affect operation or appearance of hardware.
- D. Make final adjustments to drawers and doors. Doors shall swing freely. All doors shall be aligned both vertically and horizontally. Drawers shall open and close smoothly, without binding or excessive slide and play.
- E. Remove from the site all debris resulting from the Work of this Section.

END OF SECTION