

Section 12511

Part 1 General

- 1.1 Section Includes
 - A. Modular base cabinets
 - B. Modular wall cabinets
 - C. Modular storage cabinets
 - D. Countertops and backsplashes
- 1.2 Related Sections
 - A. Section 06100 - Rough Carpentry: Framing and blocking in walls, floors and ceiling to support casework
 - B. Section 06200 - Finish Carpentry: Finish trim associated with countertops and work surfaces
 - C. Section 07900 - Joint Sealers
 - D. Section 09650 - Resilient Flooring: Cove base for casework
 - E. Section 15050 - Basic Mechanical Materials and Methods: Connections for drain lines, service piping, vents, re-vents in-line vacuum breakers, special plumbing fixtures, traps and tailpieces to service fixtures
 - F. Section 16050 - Basic Electrical Materials and Methods: Connections for electrical service lines, wire and conduit to service fixtures
- 1.3 References
 - A. HPL - High Pressure Laminates
 - B. TFL - Thermally Fused Laminates
- 1.4 Submittals
 - A. Submit under provisions of Section 01300
 - B. Product Data: Manufacturer's Catalog, Spec Guide and Installation Guide
 - C. Shop Drawings: Complete, detailed layout with model numbers and complete dimensioning information for installation
 - D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns
 - E. Verification Samples: If Requested - For each product specified
 - F. Manufacturer's Certificates: Certify products meet or exceed specified requirements
- 1.5 Quality Assurance
 - A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum ten years documented experience
 - B. Installer Qualifications: Company specializing in performing work of this section with minimum five years documented experience
- 1.6 Delivery, Storage, and Handling
 - A. Do not deliver equipment until spaces where it is to be installed are complete and cleaned
 - B. Inspect products upon arrival for damaged or missing items
 - C. Store products in manufacturer's unopened packaging in a climate controlled building until ready for installation
- 1.7 Project Conditions
 - A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside the manufacturer's absolute limits
- 1.8 Warranty
 - A. Manufacturer's limited lifetime warranty as stated in Manufacturer's Catalog

Part 2 Products

- 2.1 Products
 - A. Acceptable Manufacturer: Carolina Web: www.carolina.ofs.com
 - B. Substitutions: Requests for substitutions will be considered in accordance with provisions of Section 01600

2.2 Materials

- A. Particleboard: Industrial Grade:
 1. Composition: ANSI-A208.1-1999, M-3
 2. Fire Rating: ASTM E84; Class C
 3. Density: Multi-Density averaging 45-lbs / cu ft
 - Moisture Content: 6%
- B. Edge Banding:
 1. PVC 1 mm thickness: Used on all cabinet body parts
 2. PVC 3 mm thickness: Used on all drawer, false drawer and door fronts
- C. High Pressure Laminate (HPL): NEMA LD 3 as manufactured by WilsonArt, Pionite, Nevamar or Formica
- D. Thermally Fused Laminate (TFL): NEMA LD 3 as manufactured by WilsonArt, Pionite, Nevamar or Formica
- E. Acrylic Solid Surfacing: ASTM E 84: Class I or A

2.3 Cabinet Hardware

- A. Pulls: Minimum of 4 styles
 1. Door and drawer pulls are to be selected from standard pulls within manufacturer's catalog
 2. Pull design should comply with the Americans with Disability Act Guidelines
- B. Hinges: Minimum of 4 styles
 1. European style with a minimum 120° opening angle
 2. European style 3 knuckle with 270° opening angle
 3. Fixed in 5 knuckle with 270° opening angle
 4. Stay lift system with a minimum 107° opening angle and soft close feature
 5. Hinges with a 90° opening or less are not acceptable
- C. Drawer Slides:
 1. 100 pound capacity steel ball bearing
 2. Full extension lever release
- D. Furniture Leverler
 1. Nylon screw-in type, at least 4 per cabinet
 2. Load capacity of 200 pounds per leverler
 3. Adjustment from 1/2" to 1 1/2" in height
 4. Adjustment is made with 1/2" box end wrench
- E. Locks: Minimum of 2 types
 1. Removable lock core system available in nickel and black with 2 keys per core
 2. Electronic keyless combination
- F. Shel Supports
 1. Powder coated steel for 5 mm diameter holes with screw to lock shelf in place
 2. Adjustable 32 mm increments
- G. Task Lights:
 1. LED and must be UL approved
 2. Daisy chain capable
- H. Wardrobe Options: Minimum of 3
 1. Oval chrome plated hanger rod with captive sockets
 2. Steel wardrobe rail with at least 20 pound load capacity
 3. Powder coated hooks

2.4 Fabrication

- A. Cabinet Body Construction:
 1. All fixed members of the cabinets are glued and doweled together
 2. End panels are bored to accept all related hardware
 3. Adjustable shelves are attached to shelf supports
 4. All cabinets to be placed on floor have an integrated 4" high toe kick with adjustable furniture levelers
- B. Work Surface and Splash Construction
 1. HPL tops are 1" thick balanced panel construction with optional PVC or Self Edge banding
 2. HPL splashes are 4" tall, 3/4" thick balanced panel construction with matching PVC or Self Edge branding
 3. Solid surface tops are 1" thick built up construction with a finished front edge and optional finished or seamable end edges
 4. Solid surface back splashes are 4" tall, 1/2" thick and integrated into the Solid Surface top
 5. Solid surface side splashes are 4" tall, 1/2" thick solid surface material

Part 3 Execution

3.1 Examination

- A. Do not begin installation until spaces to receive furniture have been completed and cleaned

3.2 Preparation

- A. Clean surfaces thoroughly prior to installation
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions

3.3 Installation

- A. Install in accordance with manufacturer's instructions
- B. Install furniture and accessories as indicated on drawings, level and plumb, with separate units securely anchored
- C. Adjust legs to height required
- D. Adjust doors, drawers, hardware, fixtures, and other moving or operating parts to function smoothly
- E. Clean casework, counters, shelves, legs, hardware, fittings, and fixtures

3.4 Protection

- A. Protect installed products until completion of project
- B. Do not permit finished casework to be exposed to continued construction activity

End of Section