

## Section 12511

### Part 1: General

- 1.1 Section Includes
  - A. Modular base cabinets
  - B. Modular wall-hanging cabinets
  - C. Modular storage cabinets, lockers, and media cabinets
  - D. Worksurfaces, backsplashes/sidesplashes, and support
  
- 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 Laminate
  - B. CSL - Customer Specified Laminate (HPL)
  - C. TFL - Thermally Fused Laminate
  - D. ANSI - American National Standards Institute
  - E. BIFMA - Business Institutional Furniture Manufacturers Association
  - F. SCS - Scientific Certification Systems
  - G. LEED - Leadership in Energy and Environmental Design
  - H. WELL - WELL Building Standard as outlined by the International WELL Building Institute (IWBI)
  
- 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 models 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:
    - 1. Company specializing in manufacturing products since 1970
    - 2. ANSI/BIFMA - X5.9 - 2012 Storage Products Test Standard
    - 3. ANSI/BIFMA - X5.5 - 2014 Desk/Table Products Test Standard
    - 4. Scientific Certification Systems (SCS) Indoor Air Advantage GOLD Certified and BIFMA Level 3 certified
    - 5. Pre-Consumer recycling content: 58%
    - 6. Post-Consumer recycling content: 2.2%
    - 7. Qualifies for LEED & WELL Credits
  - 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:
    - 1. Before signing for the merchandise, make notation of all visible damage, shortages and/or time of truck arrival on the bill of lading.
    - 2. Contact Kimball Customer Service within 15 calendar days of delivery receipt to report issue. We will advise whether a freight claim will need to be filed based on mode of transportation.
  - 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: Kimball, [www.kimball.com](http://www.kimball.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-A208.1-2009
    - 2. Density: Averages 45-lbs / cubic-foot
    - 3. Moisture Content: 6%
  - B. Edge Banding:
    - 1. Cabinet Chassis Vinyl banding is .5mm thick
    - 2. Doors and Drawer Front Vinyl banding is 2mm thick
  - C. High Pressure Laminate (HPL): ISO 4586-3 as manufactured by Wilsonart, Pionite, Nevamar or Formica
  - D. Thermally Fused Laminate (TFL): ISO 4586-3 as manufactured by Wilsonart, Pionite, Nevamar or Formica
  - E. Solid Surfaces produced with acrylic resins, fire-retardant fillers and proprietary coloring agents that are homogeneous, with uniform color throughout the thickness: ASTM E 84: Class I or A
- 2.3 Cabinet Hardware
- A. Pulls: Minimum of 6 options
    - 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 2 options
    - 1. Concealed hinge with 120° opening angle
    - 2. Pivot hinge, partially exposed 3-knuckle design, with 270° opening angle, 160-pound load capacity
    - 3. Hinges with a 90° opening or less are not acceptable
  - C. Drawer Slides:
    - 1. Progressive action slides with precision steel ball bearings, 100-pound load capacity
    - 2. Full extension slides provide full drawer access
    - 3. Interior drawer space weight load rating is .017 per cubic inch
  - D. Adjustable Floor Glides
    - 1. Nylon screw-in type with a minimum of 4 per cabinet
    - 2. Load capacity of 200 pounds per floor glide
    - 3. Adjustment up to 1 1/4" in height
    - 4. Adjust glides manually or with a 3/4" open end wrench

## H. Locks: Minimum of 2 options

1. Non-locking is standard on all storage units
2. Optional removable nickel or black lock cores with 1 black hinged key per core; can be keyed specific
3. Optional Electronic keyless locking with keypad

## I. Interior Shelf Supports

1. Powder coated steel for 5 mm diameter holes with screw to lock shelf in place
2. Adjustable 32 mm increments

## J. Under Cabinet Task Lights:

1. LED bulbs
2. Must be UL approved
3. Daisy chain capable
4. 6' power cord

## K. Wardrobe Options:

1. Satin Nickel powder coat hooks, minimum of 50-pound load capacity
2. Steel wardrobe rail with a minimum of 20-pound load capacity

## 2.4 Plumbing Accessories

## A. Sink Options - Reference product specifications and drawings for applicable sink location.

1. Option 1 - Integral bowl sink available on solid surface tops. Acrylic-modified polyester material in White Frost
2. Option 2 - Undermount 18-gauge stainless steel sink with straight-sided bowl with 1 1/2" self-rim, includes drain and flat removable strainer; for use with solid surface tops.
3. Option 3 - Drop-in 18-gauge stainless steel sink with straight-sided bowl with 1 1/2" self-rim, includes drain and flat removable strainer; for use with laminate or solid surface tops.

## B. Faucet Options

1. Option 1 - Paddle Handle, two-handle centered lavatory faucet with gooseneck spout; polished chrome
2. Option 2 - Touchless Sensor, with gooseneck spout; battery operated and includes CR-P2 lithium battery with a life of 192,000-cycles (4 years @ 4,000 cycles per month); polished chrome

## C. Plumbing accessories must be installed by certified plumbers; reference mechanical drawings for installation

## 2.5 Fabrication

## A. Cabinet Body Construction:

1. Mechanical wood attachment fasteners with dowels and glue; no exposed fasteners
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 a recessed 4" high toe kick with adjustable floor glides

## B. Worksurface and Splash Construction

1. HPL surfaces are 1 3/16" thick with 3-ply balanced panel construction which includes 45-pound medium density particle board with a softened 3mm vinyl finished front edge and .5mm vinyl self-edge on ends; optional 3mm vinyl edge available for ends.
2. Surface consists of a minimum of 0.028" - 0.032" +/- 0.004" thick top face and a .026 phenolic backer
3. HPL surfaces are adhered to the core material with a hot press glue process using environmentally friendly, water-based PVA Glue. There are virtually no VOCs using this process.
4. Laminate backsplash and sidesplash are HPL splashes are 4" tall, 3/4" thick balanced panel construction with matching .5mm vinyl self-edge
5. Customer Specified Laminate (CSL) available as an option on HPL tops
6. Solid surface tops are 1" thick with finished front edge and consist of a solid surface top with a moisture resistant MDF core. Optional finished or unfinished end edges.
7. Solid Surface tops with Integrated back splashes are 4" tall, 3/4" thick
8. Solid surface side splashes are 4" tall, 3/4" 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 surface 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 floor glides to height required
  - D. Adjust doors, drawers, hardware, fixtures, and other moving or operating parts to function smoothly
  - E. Clean caseworks storage, surfaces, shelves, hardware, fittings, and fixtures
- 3.4 Protection
  - A. Protect installed products until completion of project
  - B. Do not permit finished caseworks to be exposed to continued construction activity

End of Section