

SECTION 12 32 16
MODULAR CASEWORK

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Modular base cabinets.
- B. Modular wall cabinets.
- C. Modular reception stations.
- D. Modular mail receiving, sorting, and distribution casework.

1.2 RELATED SECTIONS

- A. Section 07900 - Joint Sealers.

1.3 REFERENCES

- A. NEMA LD 3 - High Pressure Decorative Laminates.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- 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: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.
- F. Maintenance Data: Ordering information on optional components.
- G. 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 five years documented experience.
- B. Installer Qualifications: Company specializing in performing work of this section with minimum three 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. Store products in manufacturer's unopened packaging 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 manufacturer's absolute limits.

1.8 WARRANTY

- A. Manufacturer's limited lifetime warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

Acceptable Manufacturers and Qualifications:

- A. General: Modular Casework by Southwest Solutions Group 2535-B State Hwy 121, Ste 110 Telephone: 1-800-803-1083.
- B. The materials, products and equipment described in the Bidding Documents establish a standard of required function, dimension, appearance and quality to be met by any proposed substitution.
- C. No substitution will be considered prior to receipt of Bids unless written request for approval has been received by the Architect at least ten days prior to the date for receipt of Bids. Such requests shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitution including drawings, performance and test data, and other information necessary for an evaluation. A statement setting forth changes in other materials, equipment or other portions of the Work, including changes in the work of other contracts that incorporation of the proposed substitution would require, shall be included. The burden of proof of the merit of the proposed substitution is upon the proposer. The Architect's decision of approval or disapproval of a proposed substitution shall be final.
- D. If the Architect approves a proposed substitution prior to receipt of Bids, such approval will be set forth in an Addendum. Bidders shall not rely upon approvals made in any other manner.
- E. No substitutions will be considered after the Contract award unless specifically Provided for in the Contract Documents.
- F. Alternate manufacturers may be considered by showing evidence of 5 years of experience in the manufacture and/or supply of the products herein, without deviation.

2.2 MATERIALS

- A. Particleboard: Industrial grade, 40 to 50 pcf (640 to 800 kg/cu m), substrate.
- B. Door Handles: Metal with material and finish as selected from the manufacturer's standard range.
- C. Hardware:
 - 1. Mepla full overlay self-closing 110 degree concealed hinges.
 - 2. Wind Hardware, 100 lb (45.4 kg) full extension steel ball bearing drawer slides.

3. Hettich concealed steel suspension brackets mounted on steel electroplated fixing rails with 286 lb (129.7 kg) load capacity. Suspension system allows wall cabinets to be easily mounted and adjusted both laterally and horizontally.
 4. Hafele base levelers with 330 lb (149.7 kg) load capacity each with socket head adjustment from inside base cabinet.
 5. Metal adjustable shelf supports with protective plastic cover.
 6. Keyed cam locks with removable lock plug system.
- D. High Pressure Melamine Laminate: NEMA LD 3 as manufactured by WilsonArt, Pionite, Nevamar, or Formica.

2.3 MODULAR FURNITURE COMPONENTS

- A. Provide fully modular and reconfigurable components.
1. Select type and size of units and accessories to provide the functionality indicated on the Drawings.
 2. Laminate Colors: As selected by Architect from manufacturer's standard range of colors.
- B. All Laminate Base Cabinet: All laminate panel construction connected with Hafele mini-fix cam hidden fastener system with metal-to-metal connection points. Parts shall be predrilled for uniformity and consistency.
1. Side Panels: 3/4 inch (19.0 mm) thick thermal set decorative overlay on core particleboard, with matching (2 mm) edge banding.
 2. Modesty Panels: 3/4 inch (19.0 mm) thick thermal set decorative overlay on core particleboard, with matching (2 mm) edge banding.
 3. Top and Bottom: 3/4 inch (19.0 mm) thick thermal set decorative overlay on core particleboard, with matching (2 mm) edge banding.
 4. Work Surface Finish: Mar- and stain-resistant high pressure plastic laminate.
 5. Work Surface Finish: Impact-resistant ABS plastic where indicated.
 6. Work Surface Finish: Stainless steel where indicated.
 7. Work Surface Finish: Bacteria resistant marmoleum where indicated.
 8. Hinged Doors: 3/4 inch (19.0 mm) thick thermal set decorative overlay on core particleboard; with matching (2 mm) edge banding. Where indicated. Hardware as selected from the manufacturer's standard selection.
 9. Vertical Dividers: 3/4 inch (19.0 mm) thick thermal set decorative overlay on core particleboard; with matching (2 mm) edge banding. Where indicated.
 10. Adjustable Wood Shelving: 1 inch (25.4 mm) thick thermally fused laminate on core particle board, with matching (2 mm) edge banding, with adjustable supports. Where indicated.
 11. Provide with a 4 inch (101.6 mm) recessed kick plate where indicated.
 12. Configuration:
 - a. As indicated on the Drawings.
 - b. Hinged Door Base Cabinet (MCBA w x d x h): Includes full height hinged doors and (1) adjustable shelf.
 - c. Hinged Single Door Base Cabinet (MCBB w x d x h): Includes full height left hinged door and (1) adjustable shelf.

- d. Hinged Single Door Base Cabinet (MCBC w x d x h): Includes full height right hinged door and (1) adjustable shelf.
 - e. Open Storage Base Cabinet (MCBD w x d x h): Open cabinet with (1) adjustable shelf and no doors.
 - f. Hinged Door Base Cabinet with Drawer (MCBE w x d x h): Includes hinged doors, (1) upper drawer and (1) adjustable shelf.
 - g. Hinged Single Door Base Cabinet with Drawer (MCBF w x d x h): Includes left hinged door, (1) upper drawer and (1) adjustable shelf.
 - h. Hinged Single Door Base Cabinet with Drawer (MCBG w x d x h): Includes right hinged door, (1) upper drawer and (1) adjustable shelf.
 - i. Hinged Door Base Cabinet with Drawers (MCBH w x d x h): Includes full height hinged doors, (2) upper drawers and (1) adjustable shelf.
 - j. Hinged Door Sink Base Cabinet (MCBI w x d x h): Includes hinged doors, (1) false upper drawer front and a 2-piece back panel for plumbing access.
 - k. Four Drawer Base Cabinet (MCBJ w x d x h): Includes (4) equal sized slide-out drawers.
 - l. Sorter Base Cabinet (MCBK w x d x h): Includes 15 legal or oversize polyethylene shelves.
 - m. Sorter Base Cabinet with Doors (MCBL w x d x h): Includes 9 legal or oversize polyethylene shelves with half height hinged doors at bottom.
 - n. Vertical Slot Base Cabinet (MCBM w x d x h): Includes fixed vertical openings on approximate 3" centers.
13. Provide matching laminate inserts in exposed faces of frame members.
- C. All Laminate Wall Cabinet: All laminate panel construction connected with Hafele mini-fix cam hidden fastener system with metal-to-metal connection points. Parts shall be predrilled for uniformity and consistency.
- 1. Side Panels: 3/4 inch (19.0 mm) thick thermal set decorative overlay on core particleboard, with matching (2 mm) edge banding.
 - 2. Modesty Panels: 3/4 inch (19.0 mm) thick thermally fused laminate on core particle board, with matching (2 mm) edge banding.
 - 3. Top and Bottom: 3/4 inch (19.0 mm) thick thermal set decorative overlay on core particleboard, with matching (2 mm) edge banding.
 - 4. Vertical Dividers: 3/4 inch (19.0 mm) thick thermal set decorative overlay on core particleboard, with matching (2 mm) edge banding.
 - 5. Hinged Doors: 3/4 inch (19.0 mm) thick thermal set decorative overlay on core particleboard; with matching (2 mm) edge banding. Where indicated. Hardware as selected from the manufacturer's standard selection.
 - 6. Wall Cabinet Filler Strip: 3/4 inch (19.0 mm) thick thermal set decorative overlay on core particleboard, with matching (2 mm) edge banding.
 - 7. Adjustable Wood Shelving: 1 inch (25.4 mm) thick thermally fused laminate on core particle board, with matching (2 mm) edge banding, with adjustable supports. Where indicated.
 - 8. Adjustable Polyethylene Module Shelving.

9. Standard Size: 10-13/16 by 11-3/4 inches (274.6 by 298.4 mm) deep shelves.
10. Legal Size: 10-13/16 by 15-3/4 inches (274.6 by 403.0 mm) deep shelves.
11. Oversize: 12-13/16 by 15-3/4 inches (325.4 by 403.0 mm) deep shelves.
12. Removable and interchangeable polyethylene shelves of 1/8 inch (3.175 mm) polyethylene with memory retention, with full-width aluminum indexing support channel front and rear, rated capacity of minimum of 35 lbs (13.6 kg); manufacturer's standard quantity for unit size. Fit each vertical section with full depth injection molded rigid PVC plastic shelf supports, at 1 inch on center. Where indicated.
13. Adjustable Laminate Module Shelving:
 - a. Standard Size: 10-13/16 by 11-3/4 inches (274.6 by 298.4 mm) deep shelves.
 - b. Legal Size: 10-13/16 by 15-3/4 inches (274.6 by 403.0 mm) deep shelves.
 - c. Oversize: 12-13/16 by 15-3/4 inches (325.4 by 403.0 mm) deep shelves. Removable and interchangeable 5/8 inch (15.8 mm) thick thermal set decorative overlay on core particleboard; with matching (2 mm) edge banding, shelves with full-width aluminum stick-on indexing support channel front and rear, rated capacity of minimum of 50 lbs (22.68 kg); manufacturer's standard quantity for unit size. Fit each vertical section with full depth injection molded rigid PVC plastic shelf supports, at 1 inch on center. Where indicated.
14. Provide with a 2 inch (52 mm) recessed fascia.
15. Configuration:
 - a. As indicated on the Drawings.
 - b. Hinged Door Wall Cabinet (MCWA w x d x h): Includes full height hinged doors and (1) adjustable shelf.
 - c. Hinged Single Door Wall Cabinet (MCWB w x d x h): Includes full height left hinged door and (1) adjustable shelf.
 - d. Hinged Single Door Wall Cabinet (MCWC w x d x h): Includes full height right hinged door and (1) adjustable shelf.
 - e. Open Storage Wall Cabinet (MCWD w x d x h): Open cabinet with (1) adjustable shelf and no doors.
 - f. Wall Sorter Cabinet (MCWE w x d x h): Includes (3) columns of letter, legal or oversize sorting with (15) plastic polyethylene adjustable shelves.
 - g. Hinged Door Wall Cabinet with Sorting (MCWF w x d x h): Includes (9) plastic polyethylene adjustable shelves and hinged doors on top half of cabinet.
 - h. Hinged Door Wall Cabinet with Open Storage (MCWG w x d x h): Includes half height hinged doors at the top and open storage below.
 - i. Hinged Single Door Wall Cabinet with Open Storage (MCWH w x d x h): Includes half height left hinged door at the top and open storage below.

- j. Hinged Single Door Wall Cabinet with Open Storage (MCWI w x d x h): Includes half height right hinged door at the top and open storage below.
 - k. Hinged Door Wall Cabinet with Vertical Storage (MCWJ w x d x h): Includes half height hinged doors at the top and vertical storage below. Number of vertical dividers based on 3 inch (76.2 mm) wide openings.
 - 16. Provide matching laminate inserts in exposed faces of frame members.
- D. All Laminate Reception Station: All laminate panel construction connected with Hafele mini-fix cam hidden fastener system with metal-to-metal connection points. Parts shall be predrilled for uniformity and consistency.
 - 1. Side Panels: 3/4 inch (19.0 mm) thick thermal set decorative overlay on core particleboard, with matching (2 mm) edge banding.
 - 2. Back Panels: 3/4 inch (19.0 mm) thick thermal set decorative overlay on core particleboard, with matching (2 mm) edge banding.
 - 3. Work and Transaction Surfaces: 17/16 inch (26.9 mm) thick particleboard, backed with 0.027 inch (0.7 mm) phenolic backer, with matching (2 mm) edge banding.
 - 4. Work Surface Finish: Mar-and stain-resistant high pressure plastic laminate.
 - 5. Provide with a 4 inch (101.6 mm) recessed kick plate where indicated.
 - 6. Provide matching laminate inserts in exposed faces of frame members.

2.4 MAILROOM FURNITURE COMPONENTS

- A. Sort Modules: Thermally fused laminate on core particle board; 1 inch (25.4 mm) thick vertical ends and 5/8 inch (16 mm) thick top, bottom, and interior partitions; concealed fasteners; locking to console frame.
 - 1. Sort module size configuration as indicated on the Drawings.
 - a. Standard size: 10-13/16 by 11-3/4 inches (274.6 by 299 mm) deep shelves.
 - b. Legal size: 10-13/16 by 15-7/8 inches (274.6 by 403 mm) deep shelves.
 - c. Oversize: 12-13/16 by 15-7/8 inches (325.4 by 403 mm) deep shelves.
 - 2. Fit each vertical section with full depth injection molded rigid PVC plastic shelf supports, at 1 inch (25.4 mm) on center.
 - 3. Adjustable Polyethylene Shelving: Removable and interchangeable polyethylene shelves of 1/8 inch (3.175 mm) polyethylene with memory retention, with full width aluminum indexing support channel front and back, rated capacity of minimum of 35 pounds (13.6 kg); manufacturer's standard quantity for unit size.
 - 4. Adjustable Wood Shelving: Removable and interchangeable wood shelves of 5/8 inch (15.875 mm) thick matching thermally fused laminate on core particle board with 0.059 inch (1.5 mm) PVC edge banding, rated capacity of minimum of 50 pounds (22.68 kg); manufacturer's standard quantity for unit size.
 - 5. Indexing channels covered with removable clear plastic cover, holding paper index strips.
 - 6. Integral platforms where platform space is indicated.

7. Provide open back modules with clear acrylic plastic doors on back where indicated.
8. Provide clear acrylic plastic doors on front where indicated.
9. Provide open back platform where indicated.
10. Provide clear acrylic display boards mounted at angle at top of modules.
11. Provide drawers and file hangers where indicated.
12. Provide tack board where indicated; fabric: As manufactured by Guilford of Maine, terratex premium panel fabric card.
13. Provide task lights where indicated.

2.5 FABRICATION

- A. Shop assemble casework for delivery to site in units easily handled and to permit passage through building openings.
- B. Fabricate corners and joints without gaps or inaccessible spaces or areas where dirt or moisture could accumulate.

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.
- C. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION