

# Section 12 35 70 – Modular Steel Healthcare Casework (Midmark Synthesis® Cabinetry)

## PART 1 - GENERAL

### 1.1 SUMMARY

#### A. Section Includes

1. Floor-mounted base units.
2. Wall-hung casework units.
3. Tall storage units.
4. Sinks and faucets.
5. Desks and work surfaces.
6. Overhead units.
7. Sloped tops, where specified.
8. Specialty units.
9. Countertops.
10. Mobile carts.
11. Accessory items.

#### B. Terminology

1. For purposes of this Section, references to “casework” mean Midmark Synthesis Cabinetry modular steel healthcare cabinetry components and related accessories specified herein.

### 1.2 SYSTEM DESCRIPTION

- A. Casework shall consist of modular metal units designed as individual, interchangeable and integrated components of the overall assembly. Each unit shall be structurally independent and shall not rely on adjacent units for rigidity. Internal components including drawers, slides, shelves and accessories shall be modular and interchangeable.
- B. Provide healthcare casework systems capable of withstanding normal healthcare operational use including routine cleaning, disinfection, moisture exposure, repetitive operation and mobile equipment contact without operational failure or deterioration of finish appearance.
- C. Coordinate casework configurations, sink locations and accessories with accessibility requirements, clinical workflow requirements and indicated equipment clearances.
- D. Mobile carts and mobile storage units shall comply with ANSI/BIFMA stability and performance standards applicable to the specified product type.
- E. Modular casework components shall permit replacement of individual components and accessories without requiring replacement of adjacent casework assemblies.
- F. Accessible work surfaces, sinks and wall-hung casework shall comply with applicable ADA and ICC A117.1 requirements where indicated and when installed in accordance to section 3.2 INSTALLATION.



### 1.3 SUBMITTALS

#### A. Product Data:

1. Submit manufacturer's tested and approved fabrication methodologies including cabinet construction, fabrication methods, hardware attachment, shelf support systems and drawer slide performance.
2. Submit manufacturer's published structural performance and load testing data applicable to specified products.
3. Submit manufacturer's installation instructions including anchorage and support requirements.
4. Submit manufacturer's published chemical resistance and finish durability test data.
5. Provide manufacturer documentation identifying compatibility with routine healthcare cleaning agents and disinfectants.

#### B. Shop Drawings: Coordinate shop drawings with architectural dimensions, reflected ceiling plans, medical equipment drawings, plumbing rough-ins, electrical devices, accessibility clearances and structural support conditions prior to fabrication.

1. Complete list of products, sizes, manufacturer's descriptive literature and technical data.
2. Plans, elevations, sections, large-scale details and attachment details.
3. Requirements for utility connections.
4. Requirements for blocking, backing, anchorage and support.
5. Location of concealed reinforcement and fastening methods.
6. Clearances required for operation of doors, drawers and accessories.
7. Keying schedule as applicable.
8. Coordination requirements with adjacent trades and building construction.
9. Coordinate casework dimensions, clearances, supports and utility access requirements with owner-furnished and contractor-furnished medical equipment.
10. Indicate on shop drawings all conditions requiring coordination with architectural, structural, plumbing, electrical, medical equipment, accessibility and infection prevention requirements including, but not limited to, the following:
  - a. Sloped tops.
  - b. ADA knee and toe clearances.
  - c. Rail-mounted systems.
  - d. Sealant locations and infection prevention interface conditions.
  - e. Mobile cart parking and circulation clearances.
  - f. Integrated equipment clearances.
  - g. Blocking, backing and wall reinforcement requirements.
  - h. Utility rough-in zones.
  - i. Countertop seam locations.
  - j. Access panel locations where applicable.
11. Submit manufacturer documentation identifying applicable structural testing, anti-tip testing and stability testing for mobile carts, wall-hung systems and tall storage units where specified.

**C. Samples for Verification:** Submit representative sample of each type of finish and color.

**D. Sustainable Design and LEED® Projects**

1. Submit documentation for MAS Certified Green® low-emitting materials, recycled content, UL GREENGUARD® Gold certifications, EPDs, VOC compliance documentation and other sustainability attributes where applicable to project requirements.

**E. Installer Reports:** Submit copy of installer's reports for the following

1. Certification that installer is acceptable to the manufacturer.
2. Manufacturer's field service report.
3. Pre-installation meeting report.

**F. Quality Assurance Submittals**

1. Documentation verifying installer qualifications.
2. Field measurement verification where required.
3. Documentation of approved substitutions or deviations from specified construction requirements.

**G. Operations and Maintenance Data:**

1. Submit manufacturer's recommendations for cleaning and maintenance, including a list of spare parts and information for ordering.

**H. Warranty:** Submit executed copy of manufacturer's standard limited warranty.

**1.4 QUALITY ASSURANCE**

**A.** Manufacturer shall be regularly engaged in manufacturing healthcare casework systems and maintain ISO 9001 certifications.

**B.** Installer: Minimum 2-year documented history of installing similar casework and acceptable to the manufacturer. Installer shall accept responsibility for all field verifications.

**C.** Pre-Installation Meeting: Convene a pre-installation meeting to review existing conditions, schedule, sequence of installation and proper placement of utilities.

**D.** Solid surface countertop fabrication and installation shall be performed by installers approved or certified by the solid surface manufacturer where required to maintain manufacturer warranty requirements.

**E.** Coordinate casework fabrication and installation with applicable accessibility regulations, seismic requirements, healthcare operational requirements and authority having jurisdiction requirements.

## 1.5 DELIVERY, STORAGE AND HANDLING

A. Deliver, store and handle casework in accordance with manufacturer's written instructions.

## 1.6 WARRANTY

A. Provide manufacturer's standard written limited warranty for Midmark Synthesis Cabinetry products.

B. Warranty period shall begin on date of delivery to original user.

C. Warranty coverage shall be as follows:

1. Ten years for Midmark brand casework products and components, including door fronts, drawer fronts and casters.
2. Three years for task lights.
3. One year for countertop surfaces and accessories.

D. Where Midmark installation or manufacturer-authorized installation services are provided, warranty coverage may include labor for authorized repair or replacement work when approved in writing by Midmark.

E. Exclusions, limitations and conditions of warranty shall be in accordance with manufacturer's published warranty documentation.

## 1.7 CALIFORNIA HEALTHCARE PROJECT REQUIREMENTS

### A. HCAI Seismic Compliance

1. Where required for California healthcare projects regulated by the California Department of Health Care Access and Information (HCAI), provide casework, anchorage, supports and attachments complying with applicable California Building Code, HCAI and project-specific seismic requirements.
2. Provide manufacturer-prepared or manufacturer-coordinated seismic anchorage details, calculations and documentation where required by project-specific HCAI review procedures.
3. Where applicable to specified products, provide documentation for HCAI/OSHPD Preapproval of Manufacturer's Certification (OPM) for seismic design of supports and attachments or OSHPD Special Seismic Certification Preapproval (OSP) for nonstructural components requiring special seismic certification.
4. Where HCAI preapproval is not applicable, provide project-specific seismic calculations and anchorage documentation prepared by a qualified design professional as required by the Contract Documents and authority having jurisdiction.

### B. Indoor Air Quality and Material Emissions

1. Composite wood components incorporated into decorative fronts, panels, countertops or accessory assemblies shall comply with applicable California Air Resources Board (CARB) Airborne Toxic Control Measure requirements for composite wood products and EPA TSCA Title VI formaldehyde emission requirements.
2. Products shall comply with applicable low-emitting material requirements for healthcare and institutional occupancies where specified.
3. Low-emitting materials documentation, VOC compliance information and third-party certifications shall be submitted where required by the Contract Documents.

### C. Healthcare Coordination Requirements

1. Coordinate installation requirements, accessibility clearances, utility conditions and seismic anchorage requirements with applicable California healthcare project review procedures and authority having jurisdiction requirements.



## PART 2 - PRODUCTS

### 2.1 MANUFACTURER

**A. Basis-of-Design Manufacturer:** Midmark Corporation, 60 Vista Drive, Versailles, Ohio 45380-0286,  
1.800.MIDMARK | midmark.com.

### 2.2 MODULAR METAL CASEWORK

#### A. GENERAL REQUIREMENTS

1. Factory-fabricated modular steel healthcare casework.
2. Individual interchangeable modular units.
3. Cabinet frame fabricated from minimum 18-gauge steel.
4. Powder-coated finish on exposed steel surfaces.
5. Coordinated fillers, trim and accessories.
6. Mechanically fastened factory-assembled construction.
7. Factory assembled to maximum extent practical.
8. Consistent construction methods throughout project.
9. Color and style selections shall be from manufacturer's standard offering.
10. Steel components shall contain recycled content consistent with standard steel industry manufacturing practices.
11. Steel cabinet body construction shall resist moisture-related swelling and warping associated with composite wood cabinet substrates.
12. Steel components and finishes shall resist corrosion associated with routine healthcare environmental conditions and cleaning procedures.

#### B. HEALTHCARE ENVIRONMENT REQUIREMENTS

1. Exposed surfaces shall be smooth and cleanable.
2. Exposed joints and transitions shall minimize dirt ledges and moisture retention.
3. Exposed finishes shall resist deterioration from routine healthcare cleaning and disinfection procedures.
4. Sloped tops shall be provided where indicated.
5. Sealants and transitions shall support infection prevention requirements.

#### C. STRUCTURAL PERFORMANCE REQUIREMENTS

1. Cabinet assemblies shall support design loads under normal service conditions without permanent deformation, fastener failure or impairment of operation.
2. Wall-hung systems, including anchorage systems, shall support imposed design loads without disengagement, fastener failure or deflection adversely affecting operation or alignment.
3. Adjustable shelving shall comply with specified deflection limits.
4. Tall units shall incorporate anti-tip protection measures where required for safe operation.
5. Mobile carts shall maintain stability during transport and drawer operation.
6. Cabinet units modified for sinks, plumbing or equipment shall maintain structural integrity.



#### **D. DOORS AND HARDWARE**

1. Hinges: Concealed, self-closing, adjustable type.
2. Pulls: Manufacturer's standard 128mm pull selection.
3. Panels: Manufacturer's standard selection.
4. Hardware: Commercial-grade construction suitable for repetitive operational use.
5. Installed components shall maintain consistent alignment and reveal spacing.
6. Door front composed of composite core materials utilized within decorative front assemblies shall comply with applicable low-emitting material requirements.
7. Door and drawer front assemblies shall maintain consistent alignment, fit and reveal spacing.

#### **E. DRAWERS**

1. Heavy-duty ball-bearing drawer slides.
2. Standard soft-close drawer slides: 100 lb minimum capacity.
3. File drawer slides: 200 lb minimum capacity.
4. Drawer bodies shall be of one-piece, high-impact construction with formed 90-degree corners and no exposed joints, seams or crevices.
5. Drawer bodies shall facilitate cleaning, support infection prevention (IP) requirements, and fully protect drawer glides from debris, fluids and contaminants.
6. Drawer assemblies shall maintain structural integrity and operational alignment under normal service conditions.
7. Pulls: Manufacturer's standard 128mm pull selection.
8. Drawer fronts shall maintain consistent alignment during operation.

#### **F. SHELVING**

1. Painted steel adjustable shelves with die cast zinc support clips.
2. Shelf deflection shall not exceed 1/4 inch at full design load over unsupported span.
3. Gravity-flow shelving where indicated.

#### **G. MOBILE CARTS**

1. Factory-fabricated steel mobile carts - treatment carts, procedure carts, linen carts, waste carts and/or specialty mobile storage units where indicated.
2. Locking casters standard. 60mm, 3" and 4" as indicated on drawing.
3. Integrated anti-tip and stability features.
4. Drawer interlock systems where required.
5. Compliance with applicable ANSI/BIFMA stability requirements.

#### **H. COUNTERTOPS**

1. General
  - a. Provide countertops, backsplashes, side splashes and sink integration components as indicated.
2. Basis of Design
  - a. Corian® solid surface.
3. Alternate Surfacing Materials
  - a. Solid surface.
  - b. High-pressure laminate.
  - c. Anti-microbial solid surfacing.



4. Finish Requirements
  - a. Matte finish unless otherwise indicated.
5. Fabrication Requirements
  - a. Inconspicuous seams.
  - b. Finished edges.
  - c. Integral or applied splashes where indicated.
  - d. Field seams shall be minimized where practical.
6. Performance Requirements - Countertop materials shall be:
  - a. Nonporous.
  - b. Repairable where applicable.
  - c. Resistant to routine healthcare cleaning and disinfection protocols.
  - d. Compatible with integrated, undermount and drop-in sink applications and coordinated backsplash configurations where specified.
  - e. Fabricated to minimize visible seams, moisture intrusion and debris accumulation at joints and transitions.

#### **I. PLUMBING FIXTURES**

1. Sinks and faucets as scheduled on the drawings, selected from manufacturer's standard options.
2. Where specified, plumbing fixtures and fittings shall support project water reduction strategies through low-flow and sensor-operated fixture options.
3. Accessible sink configurations shall be coordinated to maintain required knee clearance, reach ranges, plumbing protection and front-approach accessibility requirements in accordance with applicable accessibility regulations.
4. Wall-hung and ADA-accessible sink units shall be coordinated with required wall reinforcement, plumbing rough-ins, removable access panels and accessibility clearances as indicated on the drawings.
5. ADA sink enclosures shall incorporate removable or accessible panels designed to substantially conceal and protect plumbing components from incidental contact while minimizing exposed plumbing cavities and visible openings and while maintaining required accessibility clearances, service access, cleanability and infection prevention objectives.

#### **J. ACCESSORIES**

1. Locks
  - a. Provide keyed or electronic locking systems where indicated.
  - b. Locking systems shall be compatible with healthcare operational requirements and manufacturer's standard casework construction.
  - c. Locking components shall be installed in accordance with manufacturer's written recommendations.
2. Task Lights
  - a. Provide manufacturer's standard LED task lighting assemblies where indicated.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates and site conditions for compliance with requirements for installation tolerances and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.
- B. Verify that wall blocking, backing, anchorage, utilities, substrates and environmental conditions are suitable for installation and comply with approved shop drawings.

### 3.2 INSTALLATION

- A. Install in accordance with manufacturer instructions and approved shop drawings.
- B. Coordinate backing, blocking, utilities, accessibility clearances and medical equipment interfaces.
- C. Install plumb, level, square, aligned and securely anchored.
- D. Provide sealants where required for cleanability and finished appearance.
- E. Coordinate seismic anchorage where applicable.
- F. Rail-mounted systems shall permit modular removal and replacement where indicated.
- G. Adjust doors, drawers, hardware and moving components for proper operation and alignment after installation.
- H. Field assembly of cabinets shall be limited to installation of pre-drilled pulls, lock cylinders and minor accessory components identified by the manufacturer.

### 3.3 CLEANING AND PROTECTION

- A. Clean exposed surfaces using methods acceptable to the manufacturer which will not damage finish.
- B. Protect casework against damage until accepted. Restore damaged components and finishes as necessary so no evidence remains of corrective work.

### 3.4 FIELD QUALITY CONTROL

- A. Inspect installed casework for compliance with approved shop drawings, requirements, alignment, operation, attachment and aesthetic quality.
- B. Repair or replace components that do not comply with specified requirements.
- C. Manufacturer-trained field personnel may provide installation support services and final quality review where included in the Contract.
- D. Manufacturer-trained field personnel shall verify alignment, attachment, operation, finish condition and functional performance of installed components.
- E. Manufacturer field services do not relieve the installing contractor of responsibility for proper installation in accordance with contract documents and manufacturer requirements.
- F. Verify operation of anti-tip devices, drawer interlocks, locking systems and mobile cart stability features prior to project closeout.

### END OF SECTION

**NOTICE:** This guide specification is provided by Midmark for drafting assistance only and must be reviewed, edited and coordinated by the project design professional, who remains responsible for project-specific requirements, code compliance, drawings, site conditions, installation, anchorage and field verification.





CARB 93120.2 Phase 2 Compliant and TSCA Title VI Compliant

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