SECTION 10 57 23.19

FIXED SOLID SHELVING

CLOSETMAID**®** ExpressShelf™ Solid Shelving

ClosetMaid®, a division of Emerson, is a leading manufacturer of storage and organization systems and professional design services for residential and non-residential applications. For over 50 years, ClosetMaid has expanded from its core business of ClosetMaid ventilated wire shelving systems to a broader range of storage systems supporting new construction and remodeling segments of the market. In addition to their world headquarters and primary manufacturing facility located in Ocala, Florida, ClosetMaid also maintains plants in Maryland, Mexico and China; distribution centers in Florida, Pennsylvania, Texas and California.

Follow the instructions listed in the SPECIFIER NOTES included throughout the specification. Edit carefully to suit project requirements. Modify as necessary and delete paragraphs that are not applicable. Note that the SPECIFIER NOTES are included as “Hidden Text” in MS-Word. Display hidden notes to Specifier by using “Tools”/”Options”/ “View”/”Hidden Text”.

GENERAL

SECTION INCLUDES

SPECIFIER NOTE - Delete items below not required for project.

Prefinished fixed, solid shelf and rod system shelving.

RELATED SECTIONS

SPECIFIER NOTE - Delete any sections below not relevant to this project; add others as required.

Section 06 10 00 - Rough Carpentry.

Section 06 20 00 - Finish Carpentry.

Section 09 21 16 - Gypsum Board Assemblies.

Section 03 0.00 – Cast-In-Place Concrete Walls.

Section 04 20.00 – Unit Masonry Walls.

Section 10 57 23.13 - Adjustable Wire Closet and Utility Shelving

Section 12.32.23.16 - Plastic-Laminate Clad Closet and Utility Shelving

SUBMITTALS

Submit under provisions of Section 01300.

Product Data: Manufacturer's data sheets on each product to be used, including: Preparation instructions and recommendations, Storage and handling requirements and recommendations, and Installation methods.

Shop Drawings: Prepared specifically for this project; show dimensions of shelving and interface with other products.

SPECIFIER NOTE - Delete the following paragraphs if LEED is not applicable.

LEED Submittals: Provide documentation of how the requirements of Credit will be met:

Product Data for Credit IEQ 4.2 (1 Point): For paints and coatings having low-emitting materials with documentation indicating compliance with:

* + - * 1. Product: Vinyl-coated shelving

SPECIFIER NOTE - "Laboratory Test Reports for Credit IEQ 4" Subparagraph below applies to LEED for Schools.

Product Data for Credit IEQ 4.5 (1 Point): For low emitting materials - furniture and furnishings.

Product: Vinyl-coated shelving.

Product Data for Credit MR 4 (1 or 2 Points): For products having recycled content, documentation indicating percentages of 10% to 20% by total value of post-consumer and pre-consumer recycled content (Innovation in Design Credit +1 point for exemplary performance by achieving a total recycled-content value of 30% or more). Include statement indicating cost for each product having recycled content and comply with:

ISO 14021-1999 environmental labels and declarations self-declared environmental claims (type II environmental labeling).

California Department of Health Services "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources using Small-Scale Environmental Chambers", including 2004 addenda.

Product: Vinyl-coated, ventilated wire shelving.

Product Data for Credit MR 5 (1 or 2 Points): For building materials or products extracted, harvested or recovered within 500 miles of project site for 10% or 20% based on cost of total materials value. (Only the percentage by weight can contribute to the regional value if only a fraction of the product is extracted, harvested or recovered and manufactured locally.)

* + - * 1. Product: Vinyl-coated, ventilated wire shelving.

SPECIFIER NOTE - Delete selection samples if colors have already been selected.

Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.

Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

Manufacturer's Certificates: Certify products meet or exceed specified requirements.

QUALITY ASSURANCE

Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum ten years documented experience of the same type and scope as specified.

Installer Qualifications: Company specializing in the installation of the products specified in this section with a minimum of five years demonstrated experience in installing products of the same type and scope as specified.

SPECIFIER NOTE - Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.

Finish areas designated by Architect.

Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.

Refinish mock-up area as required to produce acceptable work.

WARRANTY

At project closeout, provide to Owner or Owner's Representative an executed copy of the manufacturer's standard limited warranty against manufacturing defect, outlining its terms, conditions, and exclusions from coverage.

PRODUCTS

MANUFACTURERS

Acceptable Manufacturer: ClosetMaid Corp., which is located at: 650 S.W. 27th Ave.; Ocala, FL 34471; Toll Free Tel: 800-221-0641; Tel: 352-401-6338; Fax: 352-732-2140; Email: [request info (lou.cuomo@emerson.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=ClosetMaid+Corp.&coid=31489&rep=&fax=352-732-2140&message=RE:%20Spec%20Question%20(10670clm):%20%20&mf=); Web: [www.closetmaidpro.com](http://www.closetmaidpro.com)

SPECIFIER NOTE - Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

Substitutions: Not permitted.

Requests for substitutions will be considered in accordance with provisions of Section 01600.

Provide all storage shelving and accessories from a single manufacturer.

SPECIFIER NOTE - Select the Fixed Solid Shelving System(s) required from the following paragraphs and delete those not required.

FIXED SOLID SHELVING SYSTEM

SPECIFIER NOTE - ExpressShelf™ Solid Shelving System is the top-of-the-line, continuous-slide closet solution.

System: ExpressShelf Solid Shelving as manufactured by ClosetMaid Corp.

SPECIFIER NOTE - Select shelving paragraph required and delete the one not required. Note that that part numbers listed are for White colors and are listed for type and size only.

* + - 1. Laminate Shelving: 96 inches long, 12 inches deep, 3/4 inch thick.

Decorative laminate, 0.43 mm with PVC edgebanding.

Core: 3/4 inch M-S, commercial grade particle board with 45 lbs. density per cubic foot.

Nominal Size: 96 inches long, 11.67 inches deep, 3/4 inch thick.

* + - * 1. Available Colors:

White.

* + - 1. Melamine Shelving: 96 inches long, 14 inches deep, 3/4 inch thick.

Core: 3/4 inch (19 mm) industrial grade particleboard with 45 lbs. density per cubic foot

* + - * 1. Thermal fused melamine with 110 gram paper 1 mm PVC edge banding.
				2. Available Colors:

SPECIFIER NOTE - Select color paragraph required and delete those not required.

White thermal foil.

Color: Antique White thermal foil.

Color: Coastal Gray thermal foil.

Color: Chocolate Pear thermal foil.

Performance: System is capable of a maximum static load of 640 lbs.\* (

\*NOTE: 96”L x 14”D shelf or shelf with rod with backwall channel and brackets stud mounted per manufacturer’s installation instructions in a wall to wall configuration). Maximum static load is 280 lbs. for a single 96 inch L x 14” D shelf or shelf with rod is installed with backwall channels and brackets on drywall.

Hardware Accessories: Provide the following hardware accessories as required.

* + - * 1. Provide ExpressShelf Solid Shelving system hardware as required using hardware components recommended by the manufacturer.

SPECIFIER NOTE - Select hardware accessories required and delete those not required.

* + - * 1. Back Wall Channel

Stamped Metal: Sheet metal, AISI Grade C-1006; 18 gauge, epoxy coated.

Color:

White epoxy coated.

Black epoxy coated.

Dimensions: Cut to length on or off site.

1.35 inches high, 96 inches long, 0.89 inches deep

* + - * 1. Side Wall Bracket:

Stamped Metal: Metal: Sheet metal, AISI Grade C-1006; 16 gauge, epoxy coated.

Universal (left or right)

White epoxy coated.

Black epoxy coated.

Dimensions:

1.35 inches high, 11.74 inches long, 0.81 inches deep

* + - * 1. Universal Pole Cup

Die Cast Metal: Zamak Die Cast Metal Alloy

Color:

White epoxy coated.

Chrome plated.

Dimensions:

3.83 inches high, 2 inches long, 1.50 inches deep

* + - * 1. Shelf and Rod Support Angle Bracket for both 12 inch and 14 inch shelves.

Stamped Metal: Sheet metal, AISI Grade C-1006; 14 gauge, epoxy coated.

Rod Support Cup: Glass filled polypropylene.

Color:

White epoxy coated.

Chrome plated.

Dimensions:

7.43 inches high, 1.84 inches long, 11.50 inch deep

* + - * 1. Support Angle Bracket

Stamped Metal: Sheet metal, AISI Grade C-1006; 14 gauge, epoxy coated.

Color:

White epoxy coated.

Chrome plated.

Dimensions:

7.43 inches high, 1.84 inches long, 11.50 inch deep

* + - * 1. Shelf Trim Set

ABS Resin.

Color:

White

Chrome

Dimensions:

1.21 inches high, 13.57 inches long, 1.0 inch deep

* + - * 1. Closet Rod: 1 inch OD Industrial grade steel.

Color:

White

Chrome

Dimensions: Cut to length on site.

1 inch high, 120 inches long, 1 inch deep

* + - * 1. Closet Rod End Cap

Stamped Metal

Color:

White

Chrome

Dimensions

1.75 inches high, 1.3 inches long, 1.75 inches deep

Miscellaneous Hardware: Provide as required for the installation.

Edgeband tape

* + - * 1. 3⁄4 inch by 14 inches long.
				2. Self adhesive
				3. Use on cut ends to give finished look
				4. Available in all finishes

H Channels

* + - * 1. Used to butt shelves together in corner
				2. Available in all finishes

Touch-up sticks

* + - * 1. Wax material used to cover scratches and dings
				2. Includes applicator

Screws/Fasteners: Provide as required for the installation.

4.5 by 60 mm wood screw (#230900). Used to secure channels and brackets to wall into studs

#8 by 11/4 screw (#231600) – used with easy anchors to secure channels and brackets to drywall.

Easy Anchor (#231700). Used to secure channels and brackets to drywall

#10 by 2 inch screws for securing channels and brackets to studs

#8 by 5/8 inch flat head screws (#233700) for securing the shelf to channels and brackets. Used to secure edge trim to shelf.

#10x 5/8 inch self-drilling screw (#233300) for securing the closet rod to the pole cup.

EXECUTION

EXAMINATION

Do not begin installation until substrates have been properly prepared.

If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

Verification of Conditions:

Prepared spaces are sized and located in accordance with shop drawings.

Framing, reinforcement, and anchoring devices are correct type and are located in accordance with shop drawings.

Installer's Examination:

Examine conditions under which installation is to be performed; submit written notification if such conditions are unacceptable.

Installation activities started before unacceptable conditions have been corrected is prohibited.

Installation indicates installer's acceptance of conditions.

PREPARATION

Clean surfaces thoroughly prior to installation.

Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

INSTALLATION

SPECIFIER NOTE - Mounting components provide for shelving installation to drywall without requiring mounting to concealed wall structural members.

Cut the back channel to the same width as the back wall measured from corner to corner. Determine and mark the desired height for each shelf.

* + - 1. For stud mount, level the back wall channel and fasten with screws directly to studs every 16 inches including the end slots using 1-1/2 inch wood screws.
			2. For drywall mount, level the back channel and mark easy anchor locations every 10-12 inches including end slots. Drill pilot holes as needed using sharp bit; do not punch. Install drywall easy anchors into holes. Secure the channel through the channel slots with screws into the anchors.

Cut shelves at least 5/8 inches but no more than 1 inch (15.8 to 24.4 mm) shorter than actual wall measurements

Secure sidewall brackets using easy anchors and screws. Install shelving plumb and level at heights indicated in accordance with shop drawings and manufacturer's printed installation instructions.

For shelf with closet rod applications: Install pole cups.

Secure the cut shelf to the back wall channel and sidewall brackets with #8 x 5/8 inch wood screws. For shelf with closet rod applications: Cut the closet rod the same length as the front of the shelf or as measured from pole cup to pole cup. Secure the closet rod to the pole cups with self-tapping screws.

Install the angle support brackets. Space and mount angled brackets equidistant from each supported end of the shelf but not more than 32 inches apart. For unsupported ends, a bracket is required to be placed no more than 6 inches from an unsupported end of a shelf and preferably into studs. Secure brackets to wall using the appropriate fastener, then secure brackets to the shelf with wood screws.

Install the shelf edge trim at each wall supported end of the shelf, secure to the shelf with wood screws.

CLEANING

As work proceeds, maintain premises free of unnecessary accumulation of tools, equipment, surplus materials, and debris related to this work.

Upon completion of installation, clean all surfaces that have become soiled during installation.

PROTECTION

Protect installed products until completion of project.

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

END OF SECTION