SECTION 10 57 23.14

FIXED WIRE SHELVING

CLOSETMAID[®] Fixed Mount Hardware System

ClosetMaid®, a division of Emerson, is a leading manufacturer of storage and organization systems and professional design services for residential and nonresidential 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 ClosetMaid's world headquarters and primary manufacturing facility located in Ocala, Florida, they also maintain plants in Maryland, Mexico and China; distribution centers in the South, Southeast, East and West Coasts.

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".

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Fixed mount wire shelving.

1.2 RELATED SECTIONS

- A. Section 06 10 00 Rough Carpentry.
- B. Section 06 20 00 Finish Carpentry.
- C. Section 09 21 16 Gypsum Board Assemblies.
- D. Section 03 0.00 Cast-In-Place Concrete Walls.
- E. Section 04 20.00 Unit Masonry Walls.
- F. Section 10 57 23.13 Adjustable Wire Closet and Utility Shelving
- G. Section 12.32.23.16 Plastic-Laminate Clad Closet and Utility Shelving

1.3 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. 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.
- C. Shop Drawings: Prepared specifically for this project; show dimensions of shelving and interface with other products.

- D. LEED Submittals: Provide documentation of how the requirements of Credit will be met:
 - 1. Product Data for Credit IEQ 4.2 (1 Point): For paints and coatings having low-emitting materials with documentation indicating compliance with:
 - a. Product: Vinyl-coated shelving
 - 2. Product Data for Credit IEQ 4.5 (1 Point): For low emitting materials furniture and furnishings.
 - a. Product: Vinyl-coated shelving.
 - 3. 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:
 - a. ISO 14021-1999 environmental labels and declarations selfdeclared environmental claims (type II environmental labeling).
 - b. 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.
 - c. Product: Vinyl-coated, ventilated wire shelving.
 - 4. 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.)
 - a. Product: Vinyl-coated, ventilated wire shelving.
- E. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.

- F. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.
- G. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

1.4 QUALITY ASSURANCE

- A. 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.
- B. 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.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 - 1. Finish areas designated by Architect.
 - 2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
 - 3. Refinish mock-up area as required to produce acceptable work.

1.5 WARRANTY

A. 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.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. 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); Web: www.closetmaidpro.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.
- D. Provide all storage shelving and accessories from a single manufacturer.

2.2 MATERIALS GENERAL

- A. Steel Wire: Basic cold drawn, Grade C-1006; average tensile strength over 100,000 psi (690 MPa); coated.
- B. Wire Coating: Proprietary heavy-duty polyvinyl chloride (PVC) formula resin, plasticizers, stabilizers, pigments, and other additives.
 - 1. Thickness: 7 to 17 mil (0.178 to 0.432 mm).

Classification: No ingredients listed as hazardous per OSHA 29CFR1910.0017.

2.3 FIXED WIRE SHELVING

A. SuperSlide/Linen Wire Shelving:

- 1. Size:
 - a. Part # 30600: 12 foot long Linen 6 inches deep.
 - b. Part # 31021: 12 foot long Linen 9 inches deep.
 - c. Part # 32521: 12 foot long Linen 20 inches deep.
 - d. Part # 564021: 12 foot long Low Profile Linen SuperSlide/All-Purpose 12 inch.
 - e. Part # 564221: 12 foot long Low Profile Linen SuperSlide/All-Purpose 16 inch.
- 2. Cross Deck Spacing: 1 inch (25 mm) 12-3/4 GA wire.
- 3. Color:
 - a. White PVC Coated Wire.
 - b. Satin Chrome PVC Coated Wire.
- 4. Performance: System is capable of a maximum static load of _____.
- 5. Mounting System: Provide the fixed mount system mounting hardware as required using hardware components recommended by the manufacturer.
- 6. Hardware Accessories: Provide the following hardware accessories as required.

- a. Provide the fixed mount system hardware as required using hardware components recommended by the manufacturer.
- b. Continuous-Slide Closet Rod Attachments:
 - 1) TotalSlide Pro: 3/32 inch diameter closet rod support hardware
 - (a) Color:
 - (1) White
 - (2) Satin Chrome
 - (b) Corner Closet Rod: Part # 794900
 - (c) Corner Support Bracket: Part # 793100
 - 2) SuperSlide 3/4 inch (19 mm) diameter closet rod and support hardware:
 - (a) Color:
 - (1) White
 - (2) Chrome
 - (3) Satin Chrome
 - (b) Corner Closet Rod: Part # 564900/574800
 - (c) Closet Rod Support Bracket: Part # 92500
- c. Universal Shoe Shelf Support: Part # 923. Attaches to the back of shelving to support shelf at an angle for shoes. Shelf should be installed lip up using wall clips to keep shoes in place.
- B. TotalSlide Shelving
 - 1. Size:
 - a. Part # 591401: 12 foot long TotalSlide 12 inch.
 - b. Part # 591801: 12 foot long TotalSlide 16 inch.

- 2. Cross Deck Spacing: 1 inch (25 mm) 12-3/4 GA wire.
- 3. Color:
 - a. White PVC Coated Wire.
 - b. Satin Chrome PVC Coated Wire.
- 4. Performance: System is capable of a maximum static load of ______.
- 5. Mounting System: Provide the fixed mount system mounting hardware as required using hardware components recommended by the manufacturer.
- 6. Hardware Accessories: Provide the following hardware accessories as required.
 - a. Provide the fixed mount system hardware as required using hardware components recommended by the manufacturer.
- C. Shelf & Rod Wire Shelving
 - 1. Size:
 - a. Part # 30000: 12 foot long Shelf & Rod 12 inches deep.
 - b. Part # 30500: 12 foot long Shelf & Rod 16 inches deep.
 - c. Part # 31600: 12 foot long Shelf & Rod 10 inches deep.
 - d. Part # 3730400: 12 foot long Shelf & Rod 16 inches deep with 10 inch Hang
 - 2. Cross Deck Spacing: 1 inch (25 mm) 12-3/4 GA wire.
 - 3. Color: White PVC Coated Wire.
 - 4. Performance: System is capable of a maximum static load of _____.
 - 5. Mounting System: Provide the fixed mount system mounting hardware as required using hardware components recommended by the manufacturer.

D. Heavy Duty Shelving

- 1. Size:
 - a. Part # 73100: 12 foot long Heavy Duty 12 inch.
 - b. Part # 73300: 12 foot long Heavy Duty 16 inch.
- 2. Cross Deck Spacing: 1 inch (25 mm) 12-3/4 GA wire.
- 3. Color: White PVC Coated Wire.
- 4. Performance: System is capable of a maximum static load of _____.
- 5. Mounting System: Provide the fixed mount system mounting hardware as required using hardware components recommended by the manufacturer.
- 6. Hardware Accessories: Provide the following hardware accessories as required.
 - a. Provide the fixed mount system hardware as required using hardware components recommended by the manufacturer.
 - b. Continuous-Slide Closet Rod Attachments:
 - 1) TotalSlide Pro: 3/32 inch diameter closet rod support hardware
 - (a) Color:
 - (1) White
 - (2) Satin Chrome
 - (b) Corner Closet Rod: Part # 794900
 - (c) Corner Support Bracket: Part # 793100
 - 2) SuperSlide 3/4 inch (19 mm) diameter closet rod and support hardware:
 - (a) Color:
 - (1) White

- (2) Chrome
- (3) Satin Chrome
- (b) Corner Closet Rod: Part # 564900/574800
- (c) Closet Rod Support Bracket: Part # 92500
- c. Universal Shoe Shelf Support: Part # 923. Attaches to the back of shelving to support shelf at an angle for shoes. Shelf should be installed lip up using wall clips to keep shoes in place.

E. Close Mesh Shelving

- 1. Size:
 - a. Part # 31800: 12 foot long Close Mesh 16 inches deep.
 - b. Part # 40200: 12 foot long Close Mesh 12 inches deep.
 - c. Part # 40300: 12 foot long Close Mesh 20 inches deep.
 - d. Part # 3740400: 12 foot long Close Mesh 9 inch.
- 2. Cross Deck Spacing: 5/8 inch (16 mm) 13-1/2 GA wire.
- 3. Color:
 - a. White PVC Coated Wire.
 - b. Satin Chrome PVC Coated Wire.
- 4. Performance: System is capable of a maximum static load of _____.
- 5. Mounting System: Provide the fixed mount system mounting hardware as required using hardware components recommended by the manufacturer.
- 6. Hardware Accessories: Provide the following hardware accessories as required.
 - a. Provide the fixed mount system hardware as required using hardware components recommended by the manufacturer.

F. Linen Shelving

- 1. Size:
 - a. Part # 30600: 12 foot long Linen 6 inches deep.
 - b. Part # 3731021: 12 foot long Linen 9 inches deep.
 - c. Part # 32521: 12 foot long Linen 20 inches deep.
 - d. Part # 564021: 12 foot long Low Profile Linen SuperSlide/All-Purpose 12 inch.
 - e. Part # 564221: 12 foot long Low Profile Linen SuperSlide/All-Purpose 16 inch.
- 2. Cross Deck Spacing: 1 inch (25 mm) 12-3/4 GA wire.
- 3. Color:
 - a. White PVC Coated Wire.
 - b. Satin Chrome PVC Coated Wire.
- 4. Performance: System is capable of a maximum static load of _____.
- 5. Mounting System: Provide the fixed mount system mounting hardware as required using hardware components recommended by the manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- C. Verification of Conditions:
 - 1. Prepared spaces are sized and located in accordance with shop drawings.
 - 2. Framing, reinforcement, and anchoring devices are correct type and are located in accordance with shop drawings.
- D. Installer's Examination:
 - 1. Examine conditions under which installation is to be performed; submit written notification if such conditions are unacceptable.
 - 2. Installation activities started before unacceptable conditions have been corrected is prohibited.
 - 3. Installation indicates installer's acceptance of conditions.

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 approved shop drawings and manufacturer's printed instructions.
- B. Cut shelves 1/2 inch to 1-3/8 inches (12.7 to 35 mm) shorter than actual wall measurements; cap all exposed ends.
- C. Install shelving plumb and level at heights indicated in accordance with shop drawings and manufacturer's printed installation instructions.
- D. Drill holes where required using sharp bit; do not punch.
- E. Drywall: Drill 1/4 inch (6 mm) hole, insert No. 910 or 911 wall clip. Use No. 658
 # 8 x 1 inch (25 mm) pin to expand anchor if unloaded.
- F. Wood: Drill 1/4 inch (6 mm) hole into wood, secure wall clip with No. 8 x 1 inch (25 mm) screw or secure pole clip No. 978 directly to wood with No. 8 x 1-1/4 inch (31 mm) screws.
- G. Concrete: Drill 1/4 inch (6 mm) hole with masonry bit, insert wall clip No. 911 or 978 with 250 anchor, secure with No. 8 x 1 inch (25 mm) screws.

3.4 CLEANING

- A. As work proceeds, maintain premises free of unnecessary accumulation of tools, equipment, surplus materials, and debris related to this work.
- B. Upon completion of installation, clean all surfaces that have become soiled during installation.

3.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION