

SECTION 10670

STORAGE SHELVING

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Vinyl-coated ventilated shelving.
- B. Laminated closet systems
- C. Adjustable shelf systems.
- D. Storage accessories.

1.2 RELATED SECTIONS

- A. Section 09260 - Gypsum Board Assemblies.
- B. Section 03300 - Cast-In-Place Concrete.
- C. Section 04220 - Concrete Masonry Units
- D. Section 06110 - Wood Framing.
- E. Section \_\_\_\_\_ - \_\_\_\_\_.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's catalog data, detail sheets, and specifications.
- C. Shop Drawings: Prepared specifically for this project; show dimensions of shelving and interface with other products.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: ClosetMaid (Clairson International), P.O. Box 4400; Ocala, FL 34478-4400; ASD. Tel: (800) 874-0008.

- B. Requests for substitutions will be considered in accordance with provisions of Section 01600.
- C. Substitutions: Not permitted.
- D. Provide all storage shelving from a single manufacturer.

## 2.2 MATERIALS

- 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: 9 to 11 mils (0.229 to 0.279 mm).
  - 2. Classification: No ingredients listed as hazardous per OSHA 29CFR1910.0017.

## 2.3 MANUFACTURED UNITS

- A. Wire Shelving: Coated steel wire, 1/2 to 1 inch (13 to 25 mm) incremental cross-deck spacings.
- B. Laminated Closet System:
  - 1. Thermal-Fused White Melamine laminated Particle Board:
    - a. Thickness, Upper Storage Shelves: 3/4 inch (19 mm).
    - b. Thickness, Other Shelves: 5/8 inch (15.8 mm).
    - c. Edge Banding: 0.039 inch (1 mm) PVC.
  - 2. Hang Rod: 1 inch (25 mm) diameter by 20 gage epoxy-coated tubular steel.

## 2.4 ACCESSORIES

- A. Wall Clips.
- B. End Brackets.
- C. Support Brackets.
- D. Poles.
- E. Standards.
- F. Shelf Brackets.

G. Pole Clips.

PART 3 EXECUTION

3.1 EXAMINATION

- A. 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.
  
- B. Installer's Examination:
  - 1. Examine conditions under which installation is to be performed; submit written notification if such conditions are unacceptable.
  - 2. Installation activities before unacceptable conditions have been corrected is prohibited.
  - 3. Installation indicates installer's acceptance of conditions.

3.2 INSTALLATION

- A. Cut shelves 1/2 inch to 1-3/8 inches (12.7 to 35 mm) shorter than actual wall measurements; cap all exposed ends.
  
- B. Install shelving plumb and level at heights indicated in accordance with shop drawings and manufacturer's printed installation instructions.
  
- C. Place wall clips No. 970, 971 every 10 to 12 inches (250 to 300 mm) on level line.
  
- D. Install end brackets No. 972, 973, 974 on same level line as wall clips, centered on the front rods of shelves. Support shelves 36 inches (915 mm) maximum with end brackets, support brackets, or poles.
  
- E. Drill holes where required using sharp bit; do not punch.
- F. Drywall: Drill 1/4 inch (6 mm) hole, insert No. 970 or 971 wall clip. Use No. 8 pin to expand anchor.
  
- G. 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.
- H. Concrete: Drill 1/4 inch (6 mm) hole with masonry bit, insert wall clip No. 978, secure with No. 8 x 1 inch (25 mm) screws.
- I. Standards and Brackets:
1. Install standards vertically every 16 inches (400 mm) on studs.
  2. Install horizontal tracks level, secured with screws or mollies in studs or drywall; use hanging adapters to connect wall standards for hanging.
  3. Attach shelf brackets with SuperSlide, Heavy Duty, Linen Shelf and Rod and Close Mesh 12-inch (300 mm) or 16-inch decking.
- J. Use lightning pole clip No. 978 for linen shelving, clip No. 977 for shelf and rod shelving.
- K. Shelf Supports:
1. Place shelf support brackets No. 164 or 166 vertically to the shelf, attach with No. 950 or 975 wall anchors.
  2. Install down clips No. 983/977 or cable clips No. 312 with 1/4 inch (6 mm) anchor on the back rod behind every support bracket.
  3. 36 inches (900 mm) o.c. maximum.
  4. 24 inches (600 mm) o.c. maximum.
- L. Attach No. 977 or 978 pole clips at same elevations as wall clips for a given shelf; use with No. 117 or 118 poles.
- M. Use No. 120 corner support brackets on all corner "butt" joints.
- N. For wall to wall installation, use lightning end bracket No. 972 or 973; drill 1/4 inch (6 mm) holes, and secure with No. 8 pins.
- O. SuperSlide Component Installation:
1. Place hang bar supports No. 5647 every 24 to 36 inches (600 to 900 mm); place express support brackets (No. 164) adjacent to supports.
  2. Use SuperSlide end bracket No. 979 or 940 at side wall where pole is used.

3. Use 12 inch (300 mm) express support brackets (No. 164) for 12 inch or 16 inch (300 or 400 mm) deep shelves.
4. Place pole caps No. 2083 on cut ends of poles.
5. Use pole connector No. 2075 to connect 3/4 inch (19 mm) poles; rest joints in brackets.
6. For wall installation, use end bracket No. 979 or 980.
7. For open end installations, use down clips No. 978, 983, or 312 (312 stud installation preferred).

### 3.3 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.

END OF SECTION