

A.1.1 General Specifications

1. Basic Materials

General:

Provide materials and quality of workmanship which meet or exceed established Industry standards for products specified. Material thicknesses/gauges are manufacturer's option unless indicated otherwise.

1.1 Manufactured Components

A. Design:

- Wedge-lock type consisting of uprights, shelves, and shelf supports
- Designed to be assembled without fasteners or clips.
- Shelves shall not have any holes on exposed surfaces.
- Front and back flanges shall be flush with outside faces of posts.
- Design shall permit individual shelf adjustment and/or removal anywhere along the entire height of uprights.

B. Materials and Workmanship:

- Fabricate units from Class 1, cold-rolled steel sheet with all bends sharp and true and no exposed "knife" edges.
- All units shall be free of burrs, sharp edges and projecting hardware with smooth, non-abrasive surfaces and edges.
- After fabrication, shelving shall exhibit no dents, "oil canning", buckling or other surface irregularities.

C Uprights:

- Formed from steel sheet to a hollow "tee" shape for intermediate supports and formed angles for end supports.
- Uprights shall have keyhole slots on inner wall only.
- Provide with sheet steel panels full height and depth of end uprights. Provide intermediate "tee" uprights between adjacent units

D. Shelves:

- Form from sheet steel with flanges on all sides and return hem on front and back flanges.
- Ends shall be formed to clear inside of upright offset panels.

- Shelves shall be independently adjustable.
- Provide all shelves with slots for file dividers.

E. Canopy Tops:

- Same construction as shelf units

F. Shelf Supports:

- Form from heavy gauge steel sheet with four solid steel shoulder rivets, two per ear, that interlock with inner wall of uprights.

G. Front Bases

- Same construction as shelf materials

H. Load Carrying Capabilities:

- Provide shelf units capable of supporting 40 pounds per lineal foot (18kg/305mm) with maximum deflection of L/140. Shelves shall exhibit no permanent deflection under fully loaded conditions.

I. Accessories

- File Dividers: Provide 1 file divider per 18 inches (457 linear mm) for all shelves.
- Center Stops: Provide manufacturer's standard.
- Back Stops: Provide manufacturer's standard.

1.2 Fabrication

A. General

- Coordinate fabrication and delivery to ensure no delay in progress of the Work.

B. Wheels

- Provide precision machined and balanced units with permanently shielded and lubricated bearings.

C. Carriages

- Fabricate to ensure no more than 1/4 inch (6mm) maximum deviation from a true straight line. Splice and weld to ensure no permanent set or slippage in any spliced or welded joint when exposed to forces encountered in normal operating circumstances.

1.3 Finish

A. Colors

- Selected from manufacturer's standard available colors.
- B. Paint Finish
 - Provide factory applied electrostatic powder coat paint. Meet or exceed Specifications of the American Library Association.
- C. Edgings
 - Provide preformed edging, color-matched to unit colors selected

2. Execution

2.1 Examination

- A. Examine floor surfaces with Installer present for compliance with requirements for installation tolerances and other conditions affecting performance of mobile storage units.
- B. For installations on existing floors, ensure that rail spacing indicated on shop drawings is in proper locations so existing load-bearing structural members are not over stressed. Rail locations must meet the specifications shown in drawings.

2.2 Installation

A. Rail

- Lay out rails using full length units to the maximum extent possible. Use cut lengths only at ends to attain total length required. Locate and position properly, following dimensions indicated on approved shop drawings. Verify thickness of finished floor materials to be installed (by others) and install level 1/16 inch (0.6mm) above finished floor surfaces.
- Installation Tolerances - Do not exceed levelness of installed rails listed below:
 - Maximum Variation From True Level Within Any Module: 3/32 inch (2.4mm).
 - Maximum Variation between Adjacent (Parallel) Rails: 1/16 inch (1.6mm), perpendicular to rail direction.
 - Maximum Variation in Height: 1/32 inch (.8mm), measured along any 10 foot (3.05m) rail length.
- Verify rail position and level; anchor to structural floor system with anchor type and spacing indicated on approved shop drawings.

B. Shelving Units Installation

- General - Follow layout and details shown on approved shop drawings and the Manufacturer's printed installation instructions. Ensure shelving units are level, plumb and at the proper location relative to adjoining units and related work.
- Carriages - Place movable carriages on rails. Ensure that all wheels track properly and centering wheels are properly seated on centering rails. Fasten multiple carriage units together to form single movable base where required.
- Position fixed carriage units to align with movable units.
- Shelving Units - Permanently fasten shelving units to fixed and movable carriages with vibration-proof fasteners.

- Stabilize shelving units following manufacturer's written instructions. Reinforce shelving units to withstand the stress of movement where required and specified.