



GENERIC SPECIFICATIONS

SCOPE

The vendor shall furnish and install all equipment, materials, tools, and services necessary for the complete and proper operation of the mobile system(s) as specified and described herein. All materials, equipment and accessories necessary for the proper installation and operation of the system, and not described herein, shall be deemed part of the specifications.

GENERAL CONDITIONS

1. The contractor must inspect the site, take field measurements to determine job conditions.
2. Perform the installation with competent craftsmen skilled in this work under the daily supervision of factory approved supervision.
3. Installation shall be performed with strict accordance to manufacturer's written instructions.
4. The contractor shall at all times keep premises free from the accumulation of waste materials caused by his employees or work. Upon completion, the room shall be left "broom clean" and ready for use.
5. DELIVERY: All deliveries of materials and/or equipment shall be accepted by the contractor installing said materials.
6. SUBMITTALS: Shop drawings, manufacturers specifications and installation instructions shall be provided prior to beginning the installation.
- 7 EQUIPMENT STANDARDS: All competitive equipment must be equal to or higher than the standards of the system(s) described herein.
8. SYSTEM WARRANTY: The entire system shall be warranted by the manufacturer against defective parts and/or workmanship for the lifetime of the system. This warranty shall include the replacement of any defective parts including labor and cleanup without any expense to the owner.

9. MINIMUM RESPONSE TIME: During the warranty period, the contractor shall provide a service technical on site within 24 hours of notification.

Manufacturers Qualifications

All bidders of this project shall have been in manufacturing of mobile storage systems for a period no less than five years. All bidders must provide a list of no less than ten references of equal size and application to this project.

Bidders Qualifications

The work in this contract is to be performed by a single vendor having sole responsibility for performance and warrantee. They shall have the financial, technical and personnel resources for the manufacture, delivery, installation and service of the high density system as specified.

GENERAL COMPONENT SPECIFICATIONS

CARRIAGES

All carriages are to consist of special aluminum extrusions of 6061T6 alloy. All carriages will have a 1" corner or center plate securing each shelving upright to the carriage.

There will be a wheel assembly under each upright to distribute the load directly to the floor.

Each carriage is to be assembled using machine bolts and locknuts with a minimum of 7,000 lbs. shear strength.

Each carriage shall have a minimum of 4 case hardened wheels with a static load rating of 1,470 lbs. each.

The front guide wheels in each carriage are locked into place with flange bushings to eliminate swaying in the carriage.

Necessary carriage slices shall be hidden interlocking and designed to maintain proper unit alignment.

Each carriage will have dual bumpers to provide a safety space and a positioning stop.

MECHANICAL ASSIST

The mechanical mechanism shall be chain and sprocket driven to prevent slippage. Pre-stretched ANSI 35 chain is to be enclosed in a specially designed running track (MA track) for smooth operation.

Each unit will be supplied with an aisle safety lock to prevent unauthorized entry when the system is in use.

All sprocket assemblies will have adjustment within the unit to eliminate movement of the handle.

All handles must be rotating single spoke. The grip handle must rotate for easy operation.

SHAFT DRIVE

Each unit shall connect with a 3/4" solid steel cold rolled drive shaft. The shaft will be connected throughout the carriage with sealed, self-contained, high carbon chromium flange bearings.

Sprockets of 35JA28 carbon steel are driven incrementally throughout the carriage for high torque under heavy loads. All sprockets are secured by keys and set screws. All drive sprockets must engage a minimum of 3 teeth per linear inch to eliminate slippage.

ANTI-TIP

Each carriage will have a minimum of 2 anti-tip arms made of custom extruded angle. The tolerance shall allow a maximum of .125" before engagement occurs. [The arms shall be attached to wheel assembly channel which interlock into floor running track. Separate anti-tip rails from running tracks are not acceptable.](#)

RAILS

Rails shall be constructed of a dual insert in C-1095 spring steel inserted into the 6063-T6 housing. [The wheel riding surface shall be continuous no matter how long the run. There will be no joints or splices for the wheel to hit.](#)

All rail connection joints shall be secured with 125" tempered roll pins providing vertical and horizontal continuity with a .005" tolerance. The riding surface of the wheel is continuous - no deviation is acceptable.

Anti-tip rails have an anti-tip channel designed in interlock with a carriage mounted anti-tip arm on both sides of the carriage.

All rails shall be designed to be attached on top of any surface and be leveled over an uneven floor within factory tolerances.

RAISED FLOOR

The raised floor shall be constructed of a minimum of 5/8" thick, 5 ply exterior grade plywood. Fire retardant exterior meeting commercial grade standards will be used when specified. Floors shall be leveled and secured every 16" minimum.

ENTRY RAMP

An entry ramp of .125" serrated aluminum will be provide for the front of each system. The ramp is not to extend past the front of the mechanical mechanism.

FACE PANELS

All exposed front ends are to have high pressure laminate face panels. Core is to be 3/4" thick, 45 lb. high density particle board. All edges are to have black decorative molding. The panels are to cover the shelving and ends of the carriages.