

A. **Sheldon High Density Storage:**

TP 02.01.18

- 72460 Single-faced (30"w. x 12"d.) Fixed Shelving Unit.
- 72470 Single-faced (35"w. x 12"d.) Fixed Shelving Unit.
- 72465 Double-faced (30"w. x 24"d.) Movable Shelving Unit.
- 72475 Double-faced (35"w. x 24"d.) Movable Shelving Unit.
- 72480 Double-faced (30"w. x 24"d.) Fixed Shelving Unit.
- 72490 Double-faced (35"w. x 24"d.) Fixed Shelving Unit.

1. General: Movable shelving provides efficient storage for chemicals, supplies, and bulk items for the laboratory to maximize use of floor space. A movable double-faced unit consists of one (1) or more sections securely attached to each other. Movable double-faced shelving units are mounted on metal carriage systems, and operate on three (3) surface mounted metal tracks. Carriages are provided with an anti-tip mechanism, and tracks meet ADA accessibility requirements at entrance to aisle space. Fixed single-faced units are provided at the end of an assembly against a wall, and fixed double-faced units are provided at the open end of an assembly with no wall.
2. Physical Requirements: Shelving units are available in 30" or 35" widths with a nominal 78" height. Overall assembly height including track and carriage is approximately 82". Units are provided with five (5) adjustable shelves that are mounted on steel shelf pins semi-fixed with screws to prevent accidental removal during use. Units are constructed of Birch plywood including ends, backs, tops, and bottoms. Exposed ends of shelving units are provided with decorative 3/4" oak veneer end panels, with oak edge banding. Exposed ends of movable units are provided with large heavy-duty black ABS pulls.
3. Shelves: 3/4" black, Phenolic Resin with 1-1/4" x 1/4" Phenolic Resin retaining lip.
4. Tracking System: Main frame and track body is 6063-T5 extruded aluminum, anodized for appearance and corrosion resistance. Angles are 2" x 2" x 1/8" 6064-T5 anodized aluminum. Corner brackets are made of 2" x 2" x 1/8" aluminum angles that are black powder coated and pre-drilled for assembly and attachment of shelving unit to carriage.
 - a. Carriages are assembled with nickel plated 10-32 bolts through holes in the corner brackets and screwed into extruded screw bosses, forming a strong unitized carriage. Rubber bumpers to cushion noise and prevent finger

pinching are attached at the same time. The carriage channels are designed with screw bosses to provide for assembly to the carriage frames, and to house the wheel assembly. Channels are 6063-T5 anodized aluminum. End stops, $\frac{3}{4}$ " x 1-1/2" long, are supplied with the track to bring carriages to a soft stop at the end of each row of track. These bumpers are raised so that they stop the assembly by hitting the body of the carriage. The load limit is 3,000 lbs. per carriage for ease of movement.

- b. Tracks are equipped with leveling screws that are set in the track in steel T-nut housings. These set screws are $\frac{1}{4}$ -20 x $\frac{3}{8}$ " flat point hardened type. Screws are on 3" centers on both sides of the track to provide adequate support of the carriage load.
- c. Wheels are 6023 ball bearing type with a dynamic load capacity of 1500 lbs. Bearings are permanently greased and sealed. Wheels are mounted in a channel and held in place by screws in lower screw bosses that fit through grooves, which are precision ground into the axle.
- d. The Anti-Tip system consists of a Z-shaped rail, fastened to the floor, extending full length of the running track. An Anti-Tip arm is bolted on each side of the carriage so that it projects under the raised lip of the Z rail. When the shelving is bolted to the carriage through the holes provided for this purpose in the corners and side plates, tipping is prevented.