



HD4 MECHANICAL ASSIST SPECIFICATIONS:



Rail:

Rail consists of special 6061 T6 structural aluminum extrusion with a built-in, anti-tip groove and is fitted with a 5/8" square 1045 steel bar. This allows all joints to overlap, interlock and be pinned. **The resulting joints have excellent vertical and horizontal alignment and superior strength.** The rail extrusion is designed with a flange on each side, which allows the floor to be fastened directly to the rail. The rail is leveled by use of leveling screws and is continuously grouted and anchored to the building floor. Stainless steel bar is also available for special applications. Consult factory for your individual needs.

Floor:

Floor consists of 3/4" tongue and groove plywood fastened to the flange on the rail extrusion and anchored to the building floor to **provide a unified floor and rail system with excellent joint alignment and support.** The plywood is supported between rails with leveling screws and spaced a maximum of 16" on center. A 19" ramp, made of the same material as the floor with tongue and groove joints, is provided for transition from existing floor to elevated floor **meeting ADA requirements of 1" in 12".**

Carriages:

Carriages are made of **6061 T6 structural aircraft grade aluminum extrusions.** The main extrusion has a **5/8" high lip to provide positive shelving alignment and attachment.** The carriage frame is finished with a highly durable acrylic enamel to match shelving color or customer specifications. Carriage frames must support a minimum load of **1000 pounds per foot.** Each wheel section must **support a minimum load of 7000 pounds.** Carriages and rail systems add 6.75" to the shelving height. **All carriages must be capable of having optional in-rail anti-tips at each rail location.**

Wheels:

All wheels are dual flange guide wheels machined from solid steel. All wheels are to be **5" diameter mounted on a 3/4" solid steel shaft between two permanently sealed and lubricated ball bearings.** All wheels on one side of the carriage are to be connected and driven by a 1" solid steel line shaft running the length of the carriage on one side. The continuous line shaft provides a positive drive system. **Optional dual drive wheels must be available for use on each carriage in addition to the line shaft. All mechanical parts, including bearings and wheels, must be replaceable without modifying carriages. All mechanical parts must be replaceable without unloading materials beyond the area where parts are being repaired. Repairs must be able to be made without removing the carriages from the system.**

Stationary Platforms:

All stationary platforms, which are mounted to rails to provide a unified system, are to be of similar construction as carriages.

End panels:

All exposed carriage ends and backs, as required, are finished with options of low pressure laminate, high pressure laminate or powder coated steel panels. All are trimmed with a one-piece black edge trim and spacer tube assembly mounted on each side of the panels, achieving a smooth, finished look. **All panels sit on and interlock with the carriage extrusion and fasten to the shelving for lasting service and durability.**

Operating Handles:

All three-spoke, ergonomic handles are powder coated steel and aluminum assemblies equipped with rotating soft rubber knobs for comfort and grip. The crank assembly is mounted at a height of 40" meeting ADA regulations. The crank assembly **drive chain must be adjustable without removing end panels or requiring the use of special tools.**

All carriages come standard with 5000 to 1 gearing with an option for up to 10000 to 1. Please consult the factory for additional details.

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