# Rite-Hite LRL Elevating Dock
# Architectural Specifications

## PART 1 - GENERAL



1.1 Factory assembled Elevating Dock with electric-hydraulic power unit and operating controls and installation manual.

1.2 Product to conform to ANSI MH29.1-1994 – "Safety Requirements for Industrial Scissor Lifts."

1.3 Related work specified elsewhere to include: Structural steel for pit steel curb angles per details supplied by elevating dock manufacturer, electrical for electrical requirements, and concrete for pit and related construction.

## PART 2 - PRODUCTS

2.1 Elevating Dock shall be Rite-Hite Model LRL (Length) x (Width) as manufactured by Rite-Hite Corporation.

2.2 Lifting capacity _____ lbs. Capacity to be based on an evenly distributed load with single axle load capacity of 75% over ends and 50% over sides.

2.3 Platform size to be _____ wide x _____ long.

2.4 Unit Lowered Height _____, Raised Height _____, Travel _____.

2.5 8" long tapered safety toeguards to be provided on each platform side.

2.6 Bolt on guard/handrails 42" high with mid rail and 4" high safety kick plates to be provided on each _____ long side.

2.7 _____ long x _____ wide piano hinged and split entry plate (lips), with lifting chains shall be provided on vehicle receiving (rolling) end of lift. Lip lifting chain storage hooks will be supplied on each guard rail end.

2.8 Safety chain with hooks provided across fixed end of lift.

2.9 Built-in hinged safety maintenance stop to be provided on base frame.

2.10 Nominal lifting speed to be 12 fpm with full load.

2.11 Nominal lowering speed factory adjusted to 15 fpm.

2.12 Unit to have grey enamel paint finish with safety striping on edges.

3.1 Remote 5 HP power unit to include 25 feet of hydraulic hose from frame. Power unit to be TEFC with continuous duty designed motor and include a steel reservoir with external oil level site gauge and drain. Pressure relief, check, flow control and solenoid valves are to be supplied in aluminum manifold. In line and oil reservoir filters to be provided.

3.2 Remote handheld NEMA 4X push-button control to be provided with 25 feet of cord from power unit. Individual pushbuttons for up and down travel functions will be included.

3.3 Control box shall be NEMA 12

3.4 Control voltage shall be 24 volt.

## PART 4 - CONSTRUCTION

4.1 Scissor leg mechanism to be high tensile structural steel tube.

4.2 Platform surface to be high tensile 55 KSI steel tread plate, minimum .25" thick.

4.3 Platform deck shall include positive retaining device at rolling end of lift to prevent platform separation from end frame in the event of uneven load distribution or external platform interference while lift is in lowering mode.

4.4 Entry/exit plates (lips) shall be of high tensile 55 KSI steel tread plate, with beveled entry/exit edges.

4.5 Scissor leg pivot points to be supplied with maintenance free DU type Teflon bushings.

4.6 Hydraulic cylinders to be chrome plated and polished, and include ground and chromed mounting pins. A return line from the hydraulic cylinders to the power unit shall be provided.

4.7 Rigid steel hydraulic tubing to be provided from cylinders and connect to main hydraulic hose having 4:1 safety factor.

4.8 Hydraulic safety velocity fusing shall be provided to prevent uncontrolled descent in event of hydraulic line failure.