



Architectural Specification

**Nordock BOXCAR™ Series Model NR
Hydraulic Rail Dock Levelers**

Available Capacities: 30,000, 40,000, 50,000, 60,000 & 80,000 Pounds
Available Widths: 7', 8, 9' & 10'
Available Lengths: To Suit Track Position

SECTION 11161
DOCKLEVELERS

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. Factory assembled dockleveler with base frame, crossover lip, hydraulic activators, electric controls, and run-off prevention side guards.
- B. Rear cast in rear angle and track.
- C. Installation and Owner's Manual.

1.02 RELATED WORK

- A. Section 11164 - Shelters.

1.03 REFERENCES

- A. ANSI/ASME MH 14.1 1987, "Loading Dock Levelers and Dockboards."

1.04 SYSTEM DESCRIPTION

- A. Hinged lip, hydraulic, rail dock leveler to the following requirements:
 - 1. Nominal Size: (_____) wide to service track position of (_____) from building wall to first rail.
 - 2. Capacity: (_____) lbs. per ANSI/ASME MH 14.1 1987.
 - 3. Service Range: Ten inches above dock level and six inches below dock level.
 - 4. Velocity Fuse: Deck lock integral with lift cylinder to activate if a sudden loss of hydraulic pressure is detected.
 - 5. Lip projection: 18 inches beyond front of deck plate.

6. Side Shift: 12 feet of floor mounted track to allow push button controlled side to side positioning of leveler.

1.05 SUBMITTALS

- A. Submit Manufacturer's installation instructions.
- B. Submit shop drawings showing pit dimensions, conduit positions and wiring schematics.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Rail Dock Series - Model NR (_____) as manufactured by Nordock Inc.

2.02 EQUIPMENT

- A. Rear Angle & Track: Six inch x six inch angle twelve feet long with six inch long concrete anchors on eight inch centers. Full width cold rolled milled steel track factory welded to angle.
- B. Dockleveler:
 1. Ramp: 50-55,000 psi-yield steel tread plate, reinforced with 50,000 psi-yield steel beams. Beams to be 6" high formed channel up to 50,000 pound capacity and wide flange structural I beam for 60-80,000 pound capacity with top and bottom flanges for maximum plate support. Rear hinge to run full width of deck. Lip hinge lugs and header plate to beam connections to be continuously welded. Front and rear hinge rods to be zinc plated SAE 1045 factory coated with anti-seize lubricant. Side run off guards to be 4 inches high welded to each side of deck. Adjustable end load arms on each side of deck with quick lock positioning handle.
 2. Lip: 50-55,000-psi yield tread plate and lugs. Lugs to be continuously welded to lip plate. Plate to be full width of deck, non-tapered with leading edge chamfer to be milled at maximum 15 degrees.
 3. Base Frame: Welded assembly to have full width rear hinge and milled track and guide system.
 4. Lock & Warning System: Provide a vertical storing lock and warning system to alert operator if not properly engaged. A safe stored position light to be provided on the control panel cover. Unit must be powered and manually unlocked to allow lowering. Lowering must be operator controlled.
 5. Hydraulic System: Ramp and lip to be powered by regenerative hydraulic cylinders with hard chrome plated and polished rod, guide bearings, and high-pressure seals. Ramp cylinder housing to be connected to deck with rod extending downward to prevent debris from collecting and allow self-bleeding. Ramp cylinder to be equipped with velocity fuse to stop downward deck movement in the event of sudden loss of pressure. Side shift cylinder to be double acting and mounted behind base frame.

Integral power unit with filters, valves, pump and oil reservoir as required. Hoses to be SAE 100R2 high-pressure with factory crimped fittings.

6. Motor and Controls: Hydraulic pump powered by 1 HP totally enclosed non-ventilated type motor. Control box to have NEMA 12 dust tight enclosure containing motor starter and push-button controls including raise, lower, lip extend, emergency stop, left and right. Control panel to be UL/CSA approved.
7. Finish: All surfaces to be degreased and painted with high solid machinery enamel. Provide standard manufacturer's color.
8. Warranty: Submit a guarantee from the manufacturer covering the structural components of the dock leveler for ten years, the front and rear hinge assemblies for twenty years and the hydraulic components for five years from date of acceptance. All other components to be covered with a one -year guarantee against defects in material and workmanship.

PART 3 EXECUTION

3.01 PREPARATION

- A. Provide rear cast in curb angle with factory installed track.

3.02 INSTALLATION

- A. Install on prepared track and building wall in accordance with manufacturer's instructions.
- B. Adjust installed unit for operation as specified by Manufacturer.

**Dedicated People ~ Superior Products
Nordock Inc.**