Architectural Specification

Nordock BOXCAR™ Series Model SRD
Hydraulic Rail Sliding Lip Dock Levelers

Available Capacities:	40,000, 60,000 & 80,000 Pounds
Available Width:	8 Feet
Available Length:	8 Feet – Positioned To Suit Track

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. Curb angles.

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. Sliding lip, hydraulic, rail dock leveler to the following requirements:

1. Nominal Size: 8 feet 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: Eight inches above and 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: 24 inches forward and reverse from deck plate.

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 SRD (_____) as manufactured by Nordock Inc.

2.02 EQUIPMENT

A. Curb angles (Optional): 8-piece 3 x 3 x 1/4 inch angle iron with concrete anchors to cover all pit edges.

B. Dockleveler:

1. Ramp: 50-55,000 psi-yield steel tread plate, reinforced with 6" high structural I beams with a minimum 4" wide flange for maximum plate support. Unitized welded ramp to allow side-to-side tilt to follow uneven bed heights. Rear hinge to run full width of deck. Lip lugs and header plate to beam connections to be continuously welded. Rear hinge rod to be zinc plated SAE 1045 factory coated with anti-seize lubricant. Side guards to be welded to deck with hinged telescoping sections to provide full operating protection.

2. Lip: 50-55,000-psi yield tread plate and lugs. Reinforcement lugs to be continuously welded to lip and header plate. Plate to be full width of deck, non-tapered with leading edge chamfer to be milled at maximum 15 degrees. Heavy-duty rollers to guide lip straight and smooth .

3. Base Frame: Welded assembly to have full width rear hinge and milled track and guide system.

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

5. 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, lip extend, lip retract and deck stop. Control panel to be UL/CSA approved.

6. Finish: All surfaces to be degreased and painted with high solid machinery enamel. Provide standard manufacturer's color.

7. Warranty: Submit a guarantee from the manufacturer covering the structural components of the dock leveler for ten 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.