



Architectural Specification

Nordock AIRDOCK® BARRIER™ Series – Model BSA Air Powered Docklevelers

Available Capacity: 60,000 Pounds
Available Widths: 6', 6'6" & 7'
Available Lengths (Nominal): 6', 8' & 10'

SECTION 11161
DOCKLEVELERS

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. Factory assembled dockleveler with subframe, crossover barrier lip, air activators, electric controls, and full operating side guards.
- B. Curb angles or pour-in-pan assembly.
- C. Installation and Owner's Manual.

1.02 RELATED WORK

- A. Section 11160 - Truck Restraints.
- B. Section 11164 - Seals and Shelters.
- C. Section 11165 - Dock Bumpers.

1.03 REFERENCES

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

1.04 SYSTEM DESCRIPTION

- A. Hinged lip, air powered, recessed dockleveler to the following requirements:
 - 1. Nominal Size: () wide x () long.
 - 2. Capacity: 60,000 lbs. per ANSI/ASME MH 14.1 1987.
 - 3. Service Range: Twelve inches above dock level and twelve inches below dock level.
 - 4. Lip projection: 11 inches beyond front face of standard 4" bumpers with a 16" long lip.

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. AIRDOCK® BARRIER™ Series - Model BSA (_____) 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. Pour-In-Pan (Optional): 6-piece angle iron frame with concrete anchors and fully enclosed steel pan on sides, back and bottom. Dockleveler to be pre-installed in pan with rear conduit for wiring connections.
- C. Dockleveler:
 - 1. Ramp: 55,000 psi-yield 3/8" thick 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 truck beds. 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 guards to be welded to deck with hinged telescoping sections to provide full operating protection.
 - 2. Lip: The lip barrier to be 55,000 psi-yield 3/4" thick steel tread plate 6" high and to be a permanent fixed (stay-put) design to prevent a moving lift truck from accidentally falling off the dock through an open door or if a truck pulls out while end loading. Lip structure to be designed to withstand a 10,000 pounds forklift impact at four miles per hour without failure. Tread plate and lug material to be 50-55,000 psi. Lugs to be 3/4" thick and 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. Subframe: Welded assembly to have a rear structural angle welded to hinge tubes and six solid steel rear supports connected to the longitudinal members. Front center section to be open for easy pit cleaning. Lip supports to act as locks to prevent illegal entry to the building when the door is closed.
 - 4. Lifting System: Ramp to be powered by a Pull-Action™ system driven by a fan motor supplying airflow to a Single-Chamber™ bag assembly. Bag assembly to be fully protected when not inflated with top and bottom steel enclosures. Single push button control shall activate both lift and lip extension functions. Lift system shall be self contained, fully supported by

the sub frame assembly elevated off of pit floor. All lift components and deck assembly shall be visible without requiring removal, for ease of inspection.

5. Motor and Controls: Three stage fan motor to be powered with 120-volt single-phase AC voltage. Unit shall be easily accessible without removing additional components. Provide motor with cover and self-cleaning filter. Push button shielded control to be NEMA 4 weather tight rated. All electrical components to be UL/CSA approved.
6. Finish: All surfaces to be degreased and painted with high solid machinery enamel. Provide standard manufacturer's color.

PART 3 EXECUTION

3.01 PREPARATION

- A. Provide curb angles for setting pit edges. (Optional)
- B. Provide dock leveler in pour-in-pan for setting in place. (Optional)

3.02 INSTALLATION

- A. Install in prepared pit in accordance with manufacturer's instructions.
- B. Adjust installed unit for operation as specified by Manufacturer.



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Nordock Inc.