



**SECTION 111319
STATIONARY LOADING DOCK EQUIPMENT
EDGE OF DOCK LEVELERS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Edge-of-dock (EOD) levelers.

1.02 RELATED REQUIREMENTS

- A. Section 031000 - Concrete Forming and Accessories: Placement of leveler frame<< **and safety lock frame; or None - N/A**>> into concrete << **loading dock; or _____**>>.
- B. Section 031000 - Concrete Forming and Accessories: Placement of seal and shelter frame into concrete.
- C. Section 033000 - Cast-in-Place Concrete.
- D. Section 055000 - Metal Fabrications.
- E. Section 111313 - Loading Dock Bumpers.
- F. Section 111316 - Loading Dock Seals and Shelters.

1.03 REFERENCE STANDARDS

- A. ANSI MH30.1 - Design, Testing, and Utilization of Dock Leveling Devices; 2022.
- B. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2025.
- C. UL 508A - Industrial Control Panels; Current Edition, Including All Revisions.

1.04 SUBMITTALS

- A. Product Data: Provide materials and finishes, installation details, roughing-in measurements, and operation of unit.
- B. Shop Drawings: Indicate required opening dimensions, tolerances, and perimeter conditions of construction.
- C. Shop Drawings: Indicate framed wall opening, dimensions and tolerances, adjacent construction, and fittings required for anchorages and anchor points.
- D. Manufacturer's Instructions: Indicate special requirements.
- E. Manufacturer's qualification statement.
- F. Installer's qualification statement.
- G. Operation Data: Provide operating instructions and identify unit limitations.
- H. Maintenance Data: Provide unit maintenance information, lubrication cycles, and spare parts manual.
- I. Specimen warranty.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with at least << **one; or _____**>> year of<< **documented; or None - N/A**>> experience.
- B. Installer Qualifications: Company specializing in performing work of type specified and with at least << **one; or _____**>> year of<< **documented; or None - N/A**>> experience<< **and approved by manufacturer; or None - N/A**>>.

1.06 FIELD CONDITIONS

- A. Existing Conditions: Field-verify dimensions of construction related to stationary loading dock equipment prior to fabrication, including << **recessed pit dimensions; slope of inclined dock approach; dock height; and _____** >>.

1.07 WARRANTY

- A. Manufacturer Warranty: Provide << **1-year; or _____** >> manufacturer warranty for defective work from Date of Installation. Complete forms in <<Owner>>'s name and register with manufacturer.
- B. Special Limited Warranty: If a Wayne Dalton Commercial Door and a leveler are purchased and installed together in the same opening this warranty shall be extended for an additional 12 months. Complete forms in <<Owner>>'s name and register with warrantor.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Wayne Dalton; www.wayne-dalton.com; 1 (800) 827-3667.
- B. Substitutions: Not permitted.

2.02 EDGE-OF-DOCK (EOD) LEVELERS

- A. Wayne Dalton; Edge of Dock Leveler, Model << **E66WD; E72WD** >>.
1. Hinged-edge type, complying with <<ANSI MH30.1>> requirements, and located at exterior edge and securely mounted to face of loading dock. Levelers complying with ANSI MH14.1 lack load testing compliance and are not permitted.
 2. Automatic Vertical Compensation: Floating travel of dock leveler ramp edge extended to automatically compensate for upward and downward movement of truck bed during loading and unloading operations.
 3. Lip Operation: Manufacturer's standard mechanism that automatically extends and supports hinged ramp edge and rests on truck bed over dock leveler's working range, allows ramp edge to yield under incoming truck impact and automatically retracts ramp edge when truck departs unexpectedly. EOD also automatically stores to safe position when truck departs unexpectedly.
 4. Mechanical Operating System: Manually controlled, with counterbalance and spring operation; spring-operated raising and lowering of ramp.
 5. Construction: Fabricate loading dock leveler frame, edge, and platform supports from structural and formed steel shapes, with platform and hinged edge welded to supports; chamfer edge to minimize obstructing, material-handling vehicles; and ensure entire assembly fabricated to withstand deformation during operation and storage phases of service.
 6. Ramp Maintenance Support: Provide safety brace mechanism in framework to support ramp in up position during dock leveler maintenance.
 7. Rated Capacity: Capable of supporting << **20,000 pounds (9072 kg); 30,000 pounds (13608 kg); or _____ pounds (_____ kg)** >> without permanent deflection or distortion.
 8. Width: << **66 inches (1676 mm); 72 inches (1829 mm); or _____ inches (_____ mm)** >>.
 9. Smooth Path: Beveled lip edge-of-ramp transition, edge-to-deck transition, and floor-to-deck transition to avoid jolts to equipment and workers.
 10. Platform Deck: Steel checker plate deck, reinforced on underside, welded to fabricated steel frame. Also, have on bumper box.
 11. Hinged Ramp Edge: << **15-inch edge with standard crown (381 mm edge with standard crown); 15-inch edge with high crown (381 mm edge with high crown); 17-inch edge with standard crown (432 mm edge with standard crown); 17-** >>

inch edge with high crown (432 mm edge with high crown); or _____-inch edge with _____ crown (_____ mm edge with _____ crown)>>.

- a. Lip Hinge: Provide self-cleaning lug hinges to avoid debris trapped in hinge cavity and replaceable hinge pin for maintenance without welding equipment.
12. Finish: Textured powder coat to increase durability of finish and slip resistance, as well as reduce corrosion and VOCs.
13. Handle Storage: Self-storing within deck where convenient to reach. Tethered to prevent loss or misplacement. Powder-coated in safety yellow.
14. Safety Brace: Conveniently located under leveler and tethered to prevent loss or misplacement. Powder-coated in safety yellow.
15. Molded Bumper and Bumper Box: Manufacturer's standard.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify << existing conditions; and _____>> meet manufacturer's requirements before starting work.
- B. Examine loading dock equipment area for compliance with requirements for installation tolerances and other conditions related to this work.
- C. Examine walls and floors of loading dock equipment concrete pits for suitable conditions, and verify pits are plumb and square and properly sloped back to front of loading dock for drainage.
- D. Verify rough-in wall opening and anchors are acceptable, correctly sized, and aligned to proper tolerances.
- E. Verify frames installed in concrete and masonry are correctly located.
- F. Proceed with installation after unsatisfactory conditions corrected.

3.02 PREPARATION

- A. Prepare loading dock equipment for size and locations as indicated and provide anchoring devices with templates, diagrams, and installation instructions.
- B. Prepare metal curb angles along concrete edges of recessed pits with top flush with loading platform and fit exposed ends together to form smooth hairline joints.

3.03 INSTALLATION

- A. Install loading dock leveler unit in prepared opening in accordance with manufacturer's written instructions.
 1. Set square and level.
 2. Anchor unit securely, flush with building floor, and fillet-weld back of leveling dock to pit frame; touch up with paint.
 3. Position pit levelers above or below dock height, inclusive of end loading with lip pendant.
- B. Install edge-of-dock levelers to ensure arrangement adequate to accommodate lift in proper relation to loading platform.
 1. Anchor or weld edge-of-dock leveler securely in place in accordance with manufacturer's written instructions.
 2. Weld anchor holes in contact with continuously embedded loading dock edge channel.
 3. Weld or bolt bumper blocks to face of loading dock.
- C. Install << seal; and shelter>> components in accordance with manufacturer's instructions.
 1. Set plumb and level.
 2. Attach anchors and fittings to prepared wall construction and opening frame.
- D. Grease fittings to lubricate deck hinge for smooth operation.

3.04 ADJUSTING

- A. Adjust installed loading dock equipment<< **and safety devices; or None - N/A**>> for smooth and balanced operation<< **and lubricate as recommended by manufacturer; or None - N/A**>>.
- B. Test dock levelers for vertical travel within operating range as indicated and adjust as necessary for proper operation.
- C. After installation, inspect exposed factory-finished loading dock equipment and repair damaged finishes.

3.05 CLEANING

- A. See Section << **017000 - Execution and Closeout Requirements**>> for additional requirements.
- B. Clean recessed pits of debris.

3.06 CLOSEOUT ACTIVITIES

- A. See Section << **017800 - Closeout Submittals**>> for additional submittals.
- B. See Section << **017900 - Demonstration and Training**>> for additional requirements.
- C. Demonstrate proper operation of << **loading dock equipment; or _____**>> to <<**Owner**>>'s designated representative.
- D. Demonstration: Demonstrate operation of system to <<**Owner**>>'s personnel.
 - 1. Use operation and maintenance data as reference during demonstration.
 - 2. Conduct walking tour of project.
 - 3. Briefly describe function, operation, and maintenance of each component.
- E. Training: Train <<**Owner**>>'s personnel on operation and maintenance of system.
 - 1. Use operation and maintenance manual as training reference, supplemented with additional training materials as required.
 - 2. Provide minimum of << **two hours; one day; or _____**>> of training.
 - 3. Instructor: Manufacturer's training personnel.
 - 4. Location: At project site.
 - 5. Location: <<**Owner**>>'s offsite classroom facilities may be used.
 - 6. Location: Provide local classroom facilities.
 - 7. Location: At manufacturer's training facility; include travel expenses for << **one member; two members; or _____ members**>> of <<**Owner**>>'s staff.

3.07 PROTECTION

- A. Protect finishes until completion of project.
- B. Touch up damaged finishes after Substantial Completion.

3.08 MAINTENANCE

- A. See Section << **017000 - Execution and Closeout Requirements**>>, for additional requirements relating to maintenance service.
- B. Provide separate maintenance contract for specified maintenance service.
- C. Provide service and maintenance of operating equipment for period of << **one year; two years; or _____**>> from Date of Substantial Completion.

1. Provide maintenance service by skilled employees of loading dock equipment installer.
2. Include<< **monthly**; **quarterly**; _____; or **None - N/A**>> preventive maintenance, repair, or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper operation of loading dock equipment at rated speed and capacity.
3. Provide manufacturer's authorized replacement parts and supplies.

END OF SECTION