



**SECTION 111319
STATIONARY LOADING DOCK EQUIPMENT
FIXED DOCK SEALS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Fixed dock seals.

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.

PART 2 PRODUCTS

2.01 MANUFACTURER

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

2.02 FIXED DOCK SEALS

- A. Wayne Dalton; Fixed Dock Seal, Model LX10WD.
- Height: << **7 feet 6 inches (2286 mm)**>> minimum to << **9 feet (2743 mm)**>> maximum.
 - Width: << **6 feet 4 inches (1930 mm)**>> minimum to << **11 feet (3353 mm)**>> maximum.
 - Projection: << **8 inches (203 mm)**>> minimum to << **20 inches (508 mm)**>> maximum.
 - Taper up << **8 to 20 inches (203 to 508 mm)**>> or down << **8 to 20 inches (203 to 508 mm)**>>.
 - Project Box Option: << **4 inches (102 mm); 6 inches (152 mm); 8 inches (203 mm); 10 inches (254 mm); 12 inches (305 mm); or _____ inches (_____ mm)**>>.
 - Cushion: Fire-retardant foam for full seal depth; tapered at jambs. Full compression and recovery required to temperatures below << **minus 40 degrees F (minus 40 degrees C)**>>.
 - Continuously bonded to backing with flexible, nonflammable adhesive.
 - Covering Material: Standard weight fabric that remains flexible to << **minus 40 degrees F (minus 40 degrees C)**>>.
 - Covering Weight: << **22 oz/sq ft (6.7 kg/sq m); 28 oz/sq ft (8.5 kg/sq m); 40 oz/sq ft (12.2 kg/sq m); or _____ oz/sq ft (_____ kg/sq m)**>>.
 - Covering Color: << **Black; Blue; Brown; Gray; Green; or _____**>>.
 - Covering Material: Heavy-weight fabric that remains flexible to << **minus 40 degrees F (minus 40 degrees C)**>>.
 - Covering Weight: << **22 oz/sq ft (6.7 kg/sq m); 28 oz/sq ft (8.5 kg/sq m); 40 oz/sq ft (12.2 kg/sq m); or _____ oz/sq ft (_____ kg/sq m)**>>.
 - Covering Color: << **Black; Blue; Brown; Gray; Green; Red; or _____**>>.
 - Premium Abrasion-Resistant Covering Material: Fabric that remains flexible to << **minus 40 degrees F (minus 40 degrees C)**>>.
 - Covering Weight: << **22 oz/sq ft (6.7 kg/sq m); 28 oz/sq ft (8.5 kg/sq m); 40 oz/sq ft (12.2 kg/sq m); or _____ oz/sq ft (_____ kg/sq m)**>>.
 - Abrasion Resistance: Six times more resistant than standard covering material.
 - Covering Color: Black.
 - Header: Fixed, air-vented construction.
 - Header Height: << **12 inches (305 mm); 15 inches (381 mm); 18 inches (457 mm); or _____ inches (_____ mm)**>>.
 - Vertical Columns: << **8/11: 8-inch back column, 11-inch front column (203 mm back column, 279 mm front column); 8/14: 8-inch back column, 14-inch front column (203 mm back column, 356 mm front column); 10/10: 10-inch back column, 10-inch**>>.

front column (254 mm back column, 254 mm front column); 12/12: 12-inch back column, 12-inch front column (305 mm back column, 305 mm front column); 12/15: 12-inch back column, 15-inch front column (305 mm back column, 381 mm front column); or 12/18: 12-inch back column, 18-inch front column (305 mm back column, 457 mm front column)>>.

10. Seams: Mechanically double stitched; double-ply at exposed face.
11. UV Protection: Treat fabrics and threads with UV protection for fade resistance.
12. Bottom Dock Seal: << **Same construction as header and vertical columns; or _____>>.**
 - a. Length: << **4 feet (1219 mm); 8 feet (2438 mm); or _____ feet (_____ mm)>>.**
13. Curtain: To accommodate additional variation in trailer heights.
 - a. Installation: Velcro holding capability.
 - b. Fabric: << **Match seal fabric; Low-temperature PVC material for cold applications; or _____>>.**
 - c. Drop Length: << **12 inches (305 mm); 18 inches (457 mm); 24 inches (610 mm); or _____ inches (_____ mm)>>.**
14. Column Double Fabric Layer: << **None required; Matching fabric dual layer required; or _____>>.**
15. Draft Control: Two bottom draft flaps.
16. Frame Construction (Top and Sides): << **Treated wood; Galvanized steel; or _____>>.**

17. Guide Stripe: << **24 inches high (610 mm high); _____ inches high (_____ mm high); Full height; or _____>>.**
18. Column Fabric Scuff Guard: << **None required; 40 oz. premium fabric scuff guards required; or _____>>.**

19. Security Seal: << **Required; Not required; or _____>>.**
20. Wear Pleats: << **Not required; Matching fabric pleats; or _____>>.**
21. Corner Wear Pleats: << **Not required; 66 oz. premium fabric pleats; or _____>>.**

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