

SECTION 111319 FIXED DOCK SEALS SPECIFICATION

NOTE: Enable Microsoft Word option to display hidden text to view notes to specifier.

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Fixed dock seals.
- B. Maintenance.

1.02 RELATED REQUIREMENTS

- A. Section 031000 - Concrete Forming and Accessories: Placement of seal and shelter frame into concrete.
- B. Section 033000 - Cast-in-Place Concrete.
- C. Section 111316 - Loading Dock Seals and Shelters.

1.03 REFERENCE STANDARDS

- A. AWS B2.1/B2.1M - Specification for Welding Procedure and Performance Qualification 2021.
- B. AWS D1.1/D1.1M - Structural Welding Code - Steel 2020, with Errata (2022).

1.04 SUBMITTALS

- A. See Section 013000 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide materials and finish, installation details, roughing-in measurements, and operation of unit.
- C. Shop Drawings: Indicate required opening dimensions and tolerances, perimeter conditions of construction.
- D. Shop Drawings: Indicated framed wall opening, dimensions and tolerances, adjacent construction and fittings required for anchorages, and anchor points.
- E. Samples: Submit **[two]** **[_____]** cuts of **[seal]** **[shelter]** **[_____]** covering material, ____ by ____ inch (____ by ____ mm) in size, illustrating color and finish.
- F. Manufacturer's Instructions: Indicate special requirements.
- G. Manufacturer's Qualification Statement.
- H. Welders' Qualification Statement: Welders' certificates in accordance with AWS B2.1/B2.1M and dated within the previous **[12 months]** **[_____]**.
- I. Installer's Qualification Statement.
- J. Operation Data: Provide operating instructions, and identify unit limitations.
- K. Maintenance Data: Provide unit maintenance information.

1.05 QUALITY ASSURANCE

- A. Welder Qualifications: Welding processes and welding operators qualified within previous **[12 months]** **[_____]** in accordance with AWS D1.1/D1.1M.
- B. Installer Qualifications: Company specializing in performing work of type specified and with at least **[three]** **[_____]** years of **[documented]** experience **[and approved by manufacturer]**.

1.06 WARRANTY

- A. See Section 017800 - Closeout Submittals for additional warranty requirements.
- B. Manufacturer agrees to correct defective work within one year period from Date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable Manufacturer:
 - 1. Wayne Dalton; www.wayne-dalton.com; 1 (800) 827-3667.

2.02 FIXED DOCK SEAL

- A. **<drawing designation>**: Model LX10WD by Wayne Dalton.
 - 1. Height: _____.
 - 2. Width: _____.
 - 3. Projection: _____.
 - a. Taper up (8 inches to 20 inches (203 mm to 508 mm)) or down (8 inches to 20 inches (203 mm to 508 mm)).
 - b. Project Box Option: **[4 inches (102 mm)] [6 inches (152 mm)] [8 inches (203 mm)] [10 inches (254 mm)] [12 inches (305 mm)]**.
 - 4. Cushion: Fire retardant foam for full depth of seal; tapered at jambs. Full compression and recovery required to temperatures below -40 degrees F (-40 degrees C).
 - a. Continuously bonded to backing with flexible, non-flammable adhesive.
 - 5. Covering Material: Fabric which remains flexible to -40 degrees F (-40 degrees C).
 - a. 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)] [____ oz/sq ft (____ kg/sq m)]**.
 - b. Covering Color: **[Black] [Blue] [Gray] [Green] [____] [Brown]**.
 - 6. Covering Material: Fabric which remains flexible to -40 degrees F (-40 degrees C).
 - a. Covering Weight: **[40 oz/sq ft (12.2 kg/sq m)] [22 oz/sq ft (6.7 kg/sq m)] [28 oz/sq ft (8.5 kg/sq m)] [____ oz/sq ft (____ kg/sq m)]**.
 - b. Covering Color: **[Black] [Blue] [Gray] [Green] [____] [Red] [Brown]**.
 - 7. Premium Abrasion-Resistant Covering Material: Fabric which remains flexible to -40 degrees F (-40 degrees C).
 - a. Covering Weight: **[40 oz/sq ft (12.2 kg/sq m)] [22 oz/sq ft (6.7 kg/sq m)] [28 oz/sq ft (8.5 kg/sq m)] [____ oz/sq ft (____ kg/sq m)]**.
 - b. Abrasion Resistance: 6 times more abrasion resistant than standard covering material.
 - c. Covering Color: Black.
 - 8. Header: Fixed air vented construction.
 - a. Header Height: **[12 inches (305 mm)] [15 inches (381 mm)] [18 inches (457 mm)]**.
 - 9. Vertical Columns: **[10/10: 10 inch (254 mm) back column, 10 inch (254 mm) front column] [12/12: 12 inch (305 mm) back column, 12 inch (305 mm) front column] [8/11: 8 inch (203 mm) back column, 11 inch (279 mm) front column] [8/14: 8 inch (203 mm) back column, 14 inch (356 mm) front column] [12/15: 12 inch (305 mm) back column, 15 inch (381 mm) front column] [12/18: 12 inch (305 mm) back column, 18 inch (457 mm) front column]**.
 - 10. Seams: Mechanically double stitched; double ply at exposed face.
 - 11. UV Protection: Treat all fabrics and thread with UV protection for fade resistance.
 - 12. Bottom Dock Seal: **[Same construction as above] [____]**.
 - a. Length: **[4 feet (1219 mm)] [8 feet (2438 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].**
- c. Drop Length: **[12 inches (305 mm)] [18 inches (457 mm)] [24 inches (610 mm)].**
- 14. Column Double Fabric Layer: **[None required] [Matching fabric dual layer required].**
- 15. Draft Control: 2 bottom draft flaps.
- 16. Frame Construction (Top and Sides): **[Treated wood] [Galvanized steel].**
- 17. Guide Stripe: **[24 inches (610 mm) high] [Full height].**
- 18. Column Fabric Scuff Guard: **[None required] [40 oz. premium fabric scuff guards required].**
- 19. Security Seal: **[Required] [Not required].**
- 20. Wear Pleats: **[Not required] [Matching fabric pleats required].**
- 21. Corner Wear Pleats: **[Not required] [66 oz premium fabric pleats required].**

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify **[existing conditions] [and] [_____]** meet the 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. Verify that rough-in wall opening and anchors are acceptable, correctly sized, and aligned to proper tolerances.
- D. Verify that frames installed in concrete and masonry are correctly located.
- E. Proceed with installation after unsatisfactory conditions have been 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.

3.03 INSTALLATION

- A. 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.

3.04 ADJUSTING

- A. 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.

3.06 PROTECTION

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

3.07 CLOSEOUT ACTIVITIES

- A. See Section 017800 - Closeout Submittals, for closeout submittals.
- B. See Section 017900 - Demonstration and Training, for additional requirements.

3.08 MAINTENANCE

- A. See Section 017000 - Execution and Closeout Requirements, for additional requirements relating to maintenance service.

END OF SECTION