

1. Section 111319
fixed dock seal specification
2. NOTE: Enable Microsoft Word option to display hidden text to view notes to specifier.
	1. PART 1 GENERAL
		1. Section Includes
			1. Fixed dock seals.
			2. Maintenance.
		2. Related Requirements
			1. Section 031000 - Concrete Forming and Accessories: Placement of seal and shelter frame into concrete.
			2. Section 033000 - Cast-in-Place Concrete.
			3. Section 111316 - Loading Dock Seals and Shelters.
		3. Reference Standards
			1. AWS B2.1/B2.1M - Specification for Welding Procedure and Performance Qualification 2021.
			2. AWS D1.1/D1.1M - Structural Welding Code - Steel 2020, with Errata (2022).
3. ~~~~~ PROJECT NOTE ~~~~~~
Do not request submittals if drawings sufficiently describe the products of this section or if proprietary specifying techniques are used. The review of submittals increases the possibility of unintended variations from contract documents, thereby increasing the design professional's liability. See Section 01 3000 - Administrative Requirements for definitions of the types of submittals for review, information, and project record.
~~~ END OF PROJECT NOTE ~~~~

	* 1. Submittals
			1. See Section 013000 - Administrative Requirements for submittal procedures.
			2. Product Data: Provide materials and finish, installation details, roughing-in measurements, and operation of unit.
			3. Shop Drawings: Indicate required opening dimensions and tolerances, perimeter conditions of construction.
			4. Shop Drawings: Indicated framed wall opening, dimensions and tolerances, adjacent construction and fittings required for anchorages, and anchor points.
			5. Samples: Submit **[two] [\_\_\_\_\_\_\_]** cuts of **[seal] [shelter] [\_\_\_\_\_\_\_]** covering material, \_\_\_\_ by \_\_\_\_ inch (\_\_\_\_ by \_\_\_\_ mm) in size, illustrating color and finish.
			6. Manufacturer's Instructions: Indicate special requirements.
			7. Manufacturer's Qualification Statement.
			8. Welders' Qualification Statement: Welders' certificates in accordance with AWS B2.1/B2.1M and dated within the previous **[12 months] [\_\_\_\_\_\_\_]**.
			9. Installer's Qualification Statement.
			10. Operation Data: Provide operating instructions, and identify unit limitations.
			11. Maintenance Data: Provide unit maintenance information, lubrication cycles, and spare parts manual.
		2. Quality Assurance
			1. Welder Qualifications: Welding processes and welding operators qualified within previous **[12 months] [\_\_\_\_\_\_\_]** in accordance with AWS D1.1/D1.1M.
			2. Installer Qualifications: Company specializing in performing work of type specified and with at least **[three] [\_\_\_\_\_\_\_]** years of**[ documented]** experience**[ and approved by manufacturer]**.
		3. Warranty
			1. See Section 017800 - Closeout Submittals for additional warranty requirements.
			2. Manufacturer agrees to correct defective work within one year period from Date of Substantial Completion.
	1. PART 2 PRODUCTS
		1. Manufacturers
			1. Acceptable Manufacturer:
				1. Overhead Door Brand; www.overheaddoor.com; 1 (800) 929-3667.
		2. Fixed Dock seal
			1. **<drawing designation>**: Model LX10R by Overhead Door Brand.
4. ~~~~~ PROJECT NOTE ~~~~~~
7 feet 6 inches (2286 mm) minimum to 9 feet (2743 mm) maximum.
~~~ END OF PROJECT NOTE ~~~~

	* + - 1. Height: **\_\_\_\_\_\_\_**.
5. ~~~~~ PROJECT NOTE ~~~~~~
6 feet 4 inches (1930 mm) minimum to 11 feet (3353 mm) maximum.
~~~ END OF PROJECT NOTE ~~~~

	* + - 1. Width: **\_\_\_\_\_\_\_**
6. ~~~~~ PROJECT NOTE ~~~~~~
8 inches (203 mm) minimum to 20 inches (508 mm) maximum.
~~~ END OF PROJECT NOTE ~~~~

	* + - 1. Projection: **\_\_\_\_\_\_\_**.

Taper up (8 inches to 20 inches (203 mm to 508 mm)) or down (8 inches to 20 inches (203 mm 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)]**.

* + - * 1. 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).

Continuously bonded to backing with flexible, non-flammable adhesive.

* + - * 1. Covering Material: Fabric which remains flexible to -40 degrees F (-40 degrees C).

Covering Weight: 22 oz/sq ft (6.7 kg/sq m).

Covering Color: **[Black] [Blue] [Gray] [Green] [\_\_\_\_\_] [Brown]**.

* + - * 1. Covering Material: Fabric which remains flexible to -40 degrees F (-40 degrees C).

Covering Weight: **40 oz/sq ft (12.2 kg/sq m)**.

Covering Color: **[Black] [Blue] [Gray] [Green] [Red] [Brown]**.

* + - * 1. Premium Abrasion-Resistant Covering Material: Fabric which remains flexible to -40 degrees F (-40 degrees C).

Covering Weight: **40 oz/sq ft (12.2 kg/sq m)**.

Abrasion Resistance: 6 times more abrasion resistant than standard covering material.

Covering Color: Black.

* + - * 1. Header: Fixed air vented construction.

Header Height: **[12 inches (305 mm)] [15 inches (381 mm)] [18 inches (457 mm)]**.

* + - * 1. 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]**.
				2. Seams: Mechanically double stitched; double ply at exposed face.
				3. UV Protection: Treat all fabrics and thread with UV protection for fade resistance.
				4. Bottom Dock Seal: **[Same construction as above] [\_\_\_\_\_\_\_]**.

Length: **[4 feet (1219 mm)] [8 feet (2438 mm)]**.

* + - * 1. Curtain: To accommodate additional variation in trailer heights.

Installation: Velcro holding capability.

Fabric: **[Match seal fabric] ["Low temperature" PVC material for cold applications]**.

Drop Length: **[12 inches (305 mm)] [18 inches (457 mm)] [24 inches (610 mm)]**.

* + - * 1. Column Double Fabric Layer: **[None required] [Matching fabric dual layer required]**.
				2. Draft Control: 2 bottom draft flaps.
				3. Frame Construction (Top and Sides): **[Treated wood] [Galvanized steel]**.
1. ~~~~~ PROJECT NOTE ~~~~~~
24 inch (610 mm) high is standard. Full height is optional.
~~~ END OF PROJECT NOTE ~~~~

	* + - 1. Guide Stripe: **[24 inches (610 mm) high] [Full height]**.
				2. Column Fabric Scuff Guard: **[None required] [40 oz. premium fabric scuff guards required]**.
2. ~~~~~ PROJECT NOTE ~~~~~~
Security seal combats burglar cutting attempts on the seal.
~~~ END OF PROJECT NOTE ~~~~

	* + - 1. Security Seal: **[Required] [Not required]**.
				2. Wear Pleats: **[Not required] [Matching fabric pleats required]**.
				3. Corner Wear Pleats: **[Not required] [66 oz premium fabric pleats required]**.
	1. PART 3 EXECUTION
		1. Examination
			1. Verify **[existing conditions] [and] [\_\_\_\_\_\_\_]** meet the manufacturer's requirements before starting work.
			2. Examine loading dock equipment area for compliance with requirements for installation tolerances and other conditions related to this work.
			3. Verify that rough-in wall opening and anchors are acceptable, correctly sized, and aligned to proper tolerances.
			4. Verify that frames installed in concrete and masonry are correctly located.
			5. Proceed with installation after unsatisfactory conditions have been corrected.
		2. PREPARATION
			1. Prepare loading dock equipment for size and locations as indicated, and provide anchoring devices with templates, diagrams, and installation instructions.
		3. Installation
			1. 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.
		4. Adjusting
			1. After installation, inspect exposed factory finished loading dock equipment, and repair damaged finishes.
		5. Cleaning
			1. See Section 017000 - Execution and Closeout Requirements for additional requirements.
		6. Protection
			1. Protect finishes until completion of project.
			2. Touch-up damaged finishes after Substantial Completion.
		7. CLOSEOUT ACTIVITIES
			1. See Section 017800 - Closeout Submittals, for closeout submittals.
			2. See Section 017900 - Demonstration and Training, for additional requirements.
		8. MAINTENANCE
			1. See Section 017000 - Execution and Closeout Requirements, for additional requirements relating to maintenance service.
3. END OF SECTION