SECTION 11 13 13

DOCK BUMPERS

Display hidden notes to specifier. (Don't know how? [Click Here](https://www.arcat.com/sd/display_hidden_notes.shtml))

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\*\* NOTE TO SPECIFIER \*\* Durable Corporation; loading dock bumpers.
 .
 This section is based on the products of Durable Corp., which is located at:
 75 North Pleasant Street
 Norwalk, OH 44857
 Tel: (800)537-1603
 Tel: (419) 668-8138
 Fax: (800) 537-6287
 [www.durablecorp.com](http://www.durablecorp.com)
 .
 The Durable Corporation has been recycling tires into high quality industrial and commercial products for over 75 years. Durable's core product lines include both floor mats and loading dock bumpers from recycled post-consumer tires. Having grown and diversified over seven decades, they now offer complimentary products in both lines to provide dealers and customers with complete matting and loading dock protection products.

1. GENERAL
	1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Dock bumpers.
		2. Corner guards.
		3. Wheel chocks.
	1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 03 11 19 - Insulating Concrete Forming.
	1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM D 624 - Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers; 2000.
		2. ASTM D 2632 - Standard Test Method for Rubber Property--Resilience by Vertical Rebound; 2001.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00.
		2. Product Data: Manufacturer's data sheets on each product to be used, including:
			1. Preparation instructions and recommendations.
			2. Storage and handling requirements and recommendations.
			3. Installation methods.
	2. WARRANTY
		1. Warranty: Provide manufacturer's 5 year warranty unless otherwise specified.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Durable Corp., which is located at: 75 N. Pleasant St. P. O. Box 290; Norwalk, OH 44857-0290; Toll Free Tel: 800-537-1603; Fax: 800-537-6287; Email: [request info (sales@durablecorp.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=Durable+Corp.&coid=32107&rep=&fax=800-537-6287&message=RE:%20Spec%20Question%20(11165dur):%20%20&mf=); Web: <http://www.durablecorp.com>

\*\* NOTE TO SPECIFIER \*\* Coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
	1. DOCK BUMPERS
		1. Bumper: Durable Dura-Soft Bumper Patent #DES 400-145); Rubber pads with loop pads punched to receive 3/4 inch (19 mm) steel supporting rods; 3/8 inch (10 mm) thick steel face equal to rubber surface dimensions.
			1. Projection from Wall: 5-1/2 inches (140 mm).

\*\* NOTE TO SPECIFIER \*\* Delete four of the following five paragraphs. 20, 24, and 36 inch heights are available only with 11 inch length.

* + - 1. Vertical Height: 10 inches (254 mm); 6 inch (152 mm) bolt hole centers.
			2. Vertical Height: 12 inches (305 mm); 4 inch (102 mm) bolt hole centers.
			3. Vertical Height: 20 inches (508 mm); 6 inch (152 mm) bolt hole centers.
			4. Vertical Height: 24 inches (610 mm); 4 inch (102 mm) bolt hole centers.
			5. Vertical Height: 36 inches (914 mm); 4 inch (102 mm) bolt hole centers.

\*\* NOTE TO SPECIFIER \*\* Delete four of the following five paragraphs. 11 inch length is available only with 20, 24, and 36 inch heights.

* + - 1. Length: 11 inches (279 mm).
			2. Length: 14 inches (356 mm).
			3. Length: 18 inches (457 mm).
			4. Length: 24 inches (610 mm).
			5. Length: 36 inches (914 mm).
			6. Finish: Black.
		1. Bumper: Durable Steel-Face Dock Bumper; Fabric reinforced rubber pads punched to receive 3/4 inch (19 mm) steel supporting rods; 3/8 inch (10 mm) thick steel face equal to rubber surface dimensions.

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs.

* + - 1. Projection from Wall: 5-1/4 inches (133 mm).
			2. Projection from Wall: 6-3/4 inches (171 mm).

\*\* NOTE TO SPECIFIER \*\* Delete four of the following five paragraphs. 20, 24, and 36 inch heights are available only with 11 inch length.

* + - 1. Vertical Height: 10 inches (254 mm); 6 inch (152 mm) bolt hole centers.
			2. Vertical Height: 12 inches (305 mm); 4 inch (102 mm) bolt hole centers.
			3. Vertical Height: 20 inches (508 mm); 6 inch (152 mm) bolt hole centers.
			4. Vertical Height: 24 inches (610 mm); 4 inch (102 mm) bolt hole centers.
			5. Vertical Height: 36 inches (914 mm); 4 inch (102 mm) bolt hole centers.

\*\* NOTE TO SPECIFIER \*\* Delete four of the following five paragraphs. 11 inch length is available only with 20, 24, and 36 inch heights.

* + - 1. Length: 11 inches (279 mm).
			2. Length: 14 inches (356 mm).
			3. Length: 18 inches (457 mm).
			4. Length: 24 inches (610 mm).
			5. Length: 36 inches (914 mm).
			6. Finish: Black.
		1. Bumpers: Durable Laminated Rubber Dock Bumper; Fabric reinforced rubber pads laminated between structural steel angles and secured with 3/4 inch (19 mm) steel supporting rods.

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs.

* + - 1. Projection from Wall: 4-1/2 inches (114 mm).
			2. Projection from Wall: 6 inches (152 mm).

\*\* NOTE TO SPECIFIER \*\* Delete five of the following six paragraphs. 6 inch height is available only with 24 or 36 inch length, and cannot be specified with 6 inch projection from wall. 20, 24, and 36 inch heights are available only with 11 inch length.

* + - 1. Vertical Height: 6 inches (152 mm); 3 inch (76 mm) bolt hole centers.
			2. Vertical Height: 10 inches (254 mm); 6 inch (152 mm) bolt hole centers.
			3. Vertical Height: 12 inches (305 mm); 4 inch (102 mm) bolt hole centers.
			4. Vertical Height: 20 inches (508 mm); 6 inch (152 mm) bolt hole centers.
			5. Vertical Height: 24 inches (610 mm); 4 inch (102 mm) bolt hole centers.
			6. Vertical Height: 36 inches (914 mm); 4 inch (102 mm) bolt hole centers.

\*\* NOTE TO SPECIFIER \*\* Delete four of the following five paragraphs. 11 inch length is available only with 20, 24, and 36 inch heights.

* + - 1. Length: 11 inches (279 mm).
			2. Length: 14 inches (356 mm).
			3. Length: 18 inches (457 mm).
			4. Length: 24 inches (610 mm).
			5. Length: 36 inches (914 mm).

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs.

* + - 1. Finish for Exposed Metal: Powder coated black.
			2. Finish for Exposed Metal: Hot-dipped galvanized.
		1. Bumpers: Durable Laminated Extra-Long Rubber Dock Bumper; Fabric reinforced rubber pads laminated between structural steel angles and secured with 3/4 inch (19 mm) steel supporting rods; anchor bolts protected by rubber.

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs.

* + - 1. Projection from Wall: 4-1/2 inches (114 mm).
			2. Projection from Wall: 6 inches (152 mm).

\*\* NOTE TO SPECIFIER \*\* Delete two of the following three paragraphs. 6 inch height is available only with 87 inch or 99 inch length.

* + - 1. Vertical Height: 6 inches (152 mm); 3 inch (76 mm) bolt hole centers.
			2. Vertical Height: 10 inches (254 mm); 6 inch (152 mm) bolt hole centers.
			3. Vertical Height: 12 inches (305 mm); 4 inch (102 mm) bolt hole centers.

\*\* NOTE TO SPECIFIER \*\* Delete six of the following seven paragraphs. 6 inch height is available only with 87 inch or 99 inch lengths.

* + - 1. Length: 51 inches (1.3 m).
			2. Length: 63 inches (1.6 mm).
			3. Length: 75 inches (1.9 mm).
			4. Length: 87 inches (2.2 mm).
			5. Length: 99 inches (2.5 mm).
			6. Length: 111 inches (2.8 mm).
			7. Length: 123 inches (3.1 mm).

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs.

* + - 1. Finish for Exposed Metal: Powder coated black.
			2. Finish for Exposed Metal: Hot-dipped galvanized.
		1. Bumpers: Durable Laminated Extra-Thick Rubber Dock Bumper; Fabric reinforced rubber pads laminated between structural steel angles and secured with 3/4 inch (19 mm) steel supporting rods.

\*\* NOTE TO SPECIFIER \*\* Delete two of the following three paragraphs.

* + - 1. Projection from Wall: 9 inches (227 mm).
			2. Projection from Wall: 10-1/2 inches (267 mm).
			3. Projection from Wall: 12 inches (305 mm).

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs. 20 inch height is available only with 11 or 14 inch length.

* + - 1. Vertical Height: 10 inches (254 mm); 6 inch (152 mm) bolt hole centers.
			2. Vertical Height: 20 inches (508 mm); 6 inch (152 mm) bolt hole centers.

\*\* NOTE TO SPECIFIER \*\* Delete three of the following four paragraphs. 20 inch height is available only with 11 or 14 inch lengths.

* + - 1. Length: 11 inches (279 mm).
			2. Length: 14 inches (356 mm).
			3. Length: 24 inches (610 mm).
			4. Length: 36 inches (914 mm).

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs.

* + - 1. Finish for Exposed Metal: Powder coated black.
			2. Finish for Exposed Metal: Hot-dipped galvanized.
		1. Bumpers: Durable Molded Dock Bumpers; Molded rubber reinforced with nylon and polyester; minimum durometer reading of 80 plus or minus 5; tensile strength of 950 to 1050 psi (6550 to 7420 kPa). One year warranty.

\*\* NOTE TO SPECIFIER \*\* Delete nine of the following ten paragraphs.

* + - 1. Profile: Model T; 3 inches (76 mm) thick from wall by 22 inches (559 mm) high by 22 inches (559 mm) wide.
			2. Profile: Model B; 3 inches (76 mm) thick from wall by 12 inches (305 mm) high by 24 inches (610 mm) wide.
			3. Profile: Model BB; 4 inches (102 mm) thick from wall by 12 inches (305 mm) high by 24 inches (610 mm) wide.
			4. Profile: Model L; 4 inches (102 mm) thick from wall by 18 inches (457 mm) high by 18 inches (457 mm) wide.
			5. Profile: Model R; 4 inches (102 mm) thick from wall by 12 inches (305 mm) high by 13 inches (330 mm) wide.
			6. Profile: Model M-18; 4 inches (102 mm) thick from wall by 10 inches (254 mm) high by 18 inches (457 mm) wide.
			7. Profile: Model M-30; 4 inches (102 mm) thick from wall by 10 inches (254 mm) high by 30 inches (762 mm) wide.
			8. Profile: Spectra Shield; 4 inches (102 mm) thick from wall by 13 inches (330 mm) high by 12 inches (305 mm) wide (SS1213).
			9. Profile: Spectra Shield; 4 inches (102 mm) thick from wall by 18 inches (457 mm) high by 10 inches (254 mm) wide.
			10. Profile: Model BBB; 6 inches (152 mm) thick from wall by 12 inches (305 mm) high by 24 inches (610 mm) wide.
		1. Bumpers: Durable Extruded Dock Bumpers; Molded rubber reinforced with nylon and polyester; minimum durometer reading of 70 plus or minus 5; tensile strength of 1850 psi (12755 kPa) with an elongation of 220 percent; tear strength of 229 lbf/inch (40 kN/m) when tested in accordance with ASTM D 624; impact resistance of 75 percent when tested in accordance with ASTM 2632. One year warranty.

\*\* NOTE TO SPECIFIER \*\* Delete three of the following four paragraphs.

* + - 1. Profile: Model D-2; 1-3/4 inches (44 mm) thick from wall by 2 inches (52 mm) high.
			2. Profile: Model D-4; 4 inches (102 mm) thick from wall by 4-1/4 inches (108 mm) high.
			3. Profile: Model D-6; 6 inches (152 mm) thick from wall by 6 inches (152 mm) high.
			4. Profile: Model E; 1-1/2 inches (38 mm) thick from wall by 8 inches (203 mm) high.

\*\* NOTE TO SPECIFIER \*\* Bumpers available in lengths up to 10 feet.

* + - 1. Length: \_\_\_\_\_\_\_\_\_\_\_\_.
			2. Finish: Black.
		1. Attachment Hardware: Provide anchor bolts in sizes as required by project.
		2. Corner Guards: Durable Corner Guard; Rubber; 7/8 inch (22 mm) thick at corner, 4 inches (102 mm) wide from corner.

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs.

* + - 1. Profile: Model CG-1.
			2. Profile: Model CG-2

\*\* NOTE TO SPECIFIER \*\* Corner Guards available in lengths up to 10 feet.

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

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs.

* + - 1. Finish: Gray.
			2. Finish: Black.
		1. Wheel Chocks: Durable Model 88-8; Laminated rubber pads assembled on 3/4 inch (19 mm) rods and compressed between 1/4 inch (6 mm) steel plates; 8 inches long (203 mm) by 8 inches (203 mm) wide by 8 inches (203 mm) high; contoured to fit tire.

\*\* NOTE TO SPECIFIER \*\* The following paragraph is optional; delete if not required.

* + - 1. Provide optional gripper cleats for snow, ice, dirt, and mud.
		1. Wheel Chocks: Durable Model 68-9; Black molded fiber reinforced rubber; 9 inches (229 mm) long by 8 inches (203 mm) wide by 5-3/4 inches (146 mm) high; one year warranty.
		2. Wheel Chocks: Durable Model 811-7; Molded urethane; 7-5/8 inches (194 mm) long by 11-3/8 inches (289 mm) wide by 8-1/4 inches (210 mm) high; one year warranty.
		3. Wheel Chocks: Durable Model SC-8; Non-sparking extruded aluminum; 7 inches (178 mm) long by 11-5/8 inches (295 mm) by 8 inches (203 mm) high; underside surface gripping teeth; one year warranty.
1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until substrates have been properly prepared.
		2. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions.
		2. Position bumpers, spaced as indicated on drawings.
		3. Secure angle end frames to dock face of:
			1. Concrete.
			2. Steel angle embedded in concrete.
			3. Steel plate embedded in concrete.
			4. Timber.
	4. PROTECTION
		1. Protect installed products until completion of project.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION