



Delivering water and power™

Construction Specification Manual

Salt River Project

Technical Specification Index – September 2021

Division 11

Division	Title	Updated
DIVISION 11:	EQUIPMENT	
111313	Loading Dock Bumpers	Revised 08/21

SECTION 11 13 13

LOADING DOCK BUMPERS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Loading dock bumpers.

1.2 ACTION SUBMITTALS

- A. Product Data: Technical data for each type of product, including construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Shop Drawings: Show details of installation and attachments to other work.
 - 1. Provide templates for anchors and bolts anchored to permanent construction.

1.3 QUALITY ASSURANCE

- A. Source Limitations: Obtain each type of loading dock equipment from single source from single manufacturer.

1.4 COORDINATION

- A. Coordinate location of embedded items so that work will comply with design requirements.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Dock Bumpers: Surface mounted bumpers; of type, size, and construction indicated; designed to absorb kinetic energy and minimize damage to loading dock structure.
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Durable Corporation.
 - 2. Hugger Dock Equipment Company; Columbus Foam Products, Inc.
 - 3. Kelley; An Entrematic brand.
 - 4. Rite-Hite Corporation.
 - 5. Serco; An Entrematic brand.

2.2 DOCK BUMPERS

- A. Laminated Tread Dock Bumper: Fabricated from multiple, uniformly thick plies cut from fabric-reinforced post-consumer recycled rubber tires. Laminate plies under pressure on not less than two 3/4-inch (19 mm) diameter, steel supporting rods that are welded at one end to 1/4-inch (6 mm) thick, structural steel end angle and secured with a nut and angle at the other end. Fabricate angles with predrilled anchor holes and sized to provide not less than 1 inch (25 mm) of tread plies extending beyond the face of closure angles.
 - 1. Thickness: 4-1/2 inches (114 mm).
 - 2. Horizontal Style: 12 inches (305 mm) high by 18 inches (457 mm) wide.
- B. Anchorage Devices: Galvanized steel anchor bolts, nuts, washers, bolts, sleeves, cast in place plates, and other anchorage devices as required to fasten bumpers securely in place and to suit installation type indicated. Hot dip galvanized in accordance with ASTM A 153/A 153M or ASTM F 2329.
- C. Materials: ASTM 36/A 36M for steel plates, shapes, and bars. Hot dip galvanize in accordance with ASTM A 123/A 123M.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions for compliance with requirements for installation tolerances and other conditions affecting performance of the work.
- B. Proceed with installation after correcting unsatisfactory conditions.

3.2 INSTALLATION

- A. General: Comply with manufacturer's detailed written instructions for installing loading dock equipment.
- B. Dock Bumpers: Attach dock bumpers to face of loading dock complying with requirements indicated for spacing, arrangement, and position relative to top of platform and anchorage.
 - 1. Bolted Attachment: Attach dock bumpers to preset anchor bolts embedded in concrete or to cast in place inserts or threaded studs welded to embedded steel plates or angles. If preset anchor bolts, cast in place inserts, or threaded studs welded to embedded steel plates or angles are not provided, attach dock bumpers by drilling and anchoring with expansion anchors and bolts.

END OF SECTION