

PART 1 GENERAL**1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes factory fabricated dock bumpers, complete with attachments.
- B. Related Sections:
1. Division 1 Section "Sustainable Design Requirements".

1.3 QUALITY ASSURANCE

- A. The work of this section shall be performed by a company which specializes in the type of dock bumpers work required for this Project, with a minimum of 5 years of documented successful experience and shall be performed by skilled workmen thoroughly experienced in the necessary crafts.
1. Work shall be performed in compliance with Owner's insurance underwriters' requirements.
- B. Manufacturer shall specialize in manufacturing the type of dock bumpers specified in this section, with a minimum of 5 years of documented successful experience, and have the facilities capable of meeting all requirements of Contract Documents as a single-source responsibility and warranty.
- C. Manufacturer's identification tags or marks are not acceptable on surfaces which will remain exposed to view after installation.
1. Evidence of "patching" after removal of tags or marks is not acceptable.

1.4 SUBMITTALS

- A. Submit the following according to Conditions of the Construction Contract and Division 1 Specification Sections.
- B. Shop Drawings: Shall clearly indicate but not be limited to:
1. Size and locations of dock bumpers.
 2. Method of anchorage and details of construction.
- C. Product Data: Shall be clearly marked to indicate all technical information which specifies full compliance with requirements of this section and Contract Documents, including manufacturer's published installation recommendations.
- D. LEED Submittal: MRc4 – List all materials with recycled content indicating material cost broken out by post-industrial (pre-consumer) and post-consumer content. Only include data for materials permanently installed on the project site.
- E. Samples:

Item No.	Quantity	Size	Description
S1	1	Actual	Each type of bumper.

- F. Hazardous Materials Notification: In the event no product or material is available that does not contain asbestos, PCB or other hazardous materials as determined by the Owner, a "Material Safety Data Sheet" (MSDS) equivalent to OSHA Form 20 shall be submitted for that proposed product or material prior to installation.
- G. Asbestos and PCB Certification: After completion of installation, but prior to Substantial Completion, Contractor shall certify in writing that products and materials installed, and processes used, do not contain asbestos or polychlorinated biphenyls (PCB), using format in Article 3 of General Conditions.

1.5 DELIVERY, HANDLING, STORAGE

- A. Comply with General Conditions and Division 1 Section "Product Requirements".

1.6 WARRANTY

- A. Comply with General Conditions and Division 1 Section "Product Requirements", agreeing to repair or replace specified materials or Work that has failed within the warranty period. Failures include but are not limited to the following:
 - 1. Cracking, blistering or releasing from the substrate.
 - 2. Excessive wear due to normal use.

PART 2 PRODUCTS

2.1 UNAUTHORIZED MATERIALS

- A. Materials and products required for work of this section shall not contain asbestos, polychlorinated biphenyls (PCB) or other hazardous materials identified by the Owner.

2.2 ACCEPTABLE MANUFACTURERS

- A. General: For the purpose of establishing the minimum functional, aesthetic and quality standards required for work of this section, products of the following manufacturer are specified:
 - 1. Pawling Corporation/Pawling, New York.
- B. Substitutions: Comply with General Conditions using form in Division 1 Section "Substitution Request Form".
- C. Recycled Content: For materials containing post-industrial (pre-consumer) and/or post-consumer recycled content, contractor shall document the cost and percentage (by weight) of each material broken out by post-industrial (pre-consumer) and post-consumer content.

2.3 DOCK BUMPERS

- A. Type: Pawling Style "B-4" of molded nylon and polyester reinforced rubber.
 - 1. Size: 12" x 24" x 4" thick.
 - 2. Color: Black.
 - 3. Weight: 36 pounds.
 - 4. Reflectors: Two red reflectors for night safety.
 - 5. Bolt Holes: Four 3/4" diameter countersunk holes.
 - 6. Bolts: 3/4" x 7" long galvanized bolts with washers and expansion shields, four required for each bumper.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install dock bumpers in accordance with approved shop drawings, manufacturer's published recommendations and Contract Documents.
- B. The completed installation shall be free of damage to appearance or function of bumpers.

END OF SECTION