



Warminster Fiberglass
Water and Wastewater Treatment Products
Keeping Americas' Water Clean

SECTION 11201 WASH TROUGHS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Wash troughs.

1.2 REFERENCES

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

- A. ANSI/NSF 61 - Drinking Water System Components - Health Effects; NSF International.
- B. ANSI/AWWA F101 - Contact Molded, Fiberglass-Reinforced Plastic Wash Water Troughs and Launderers; American Water Works Association.
- C. ASTM D 638 - Standard Test Method for Tensile Properties of Plastics.
- D. ASTM D 790 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Test results of fiberglass reinforced plastic laminate.
- C. Shop Drawings Show:
 - 1. Critical dimensions, jointing and connections, fasteners and anchors.
 - 2. Materials of construction.
 - 3. Sizes, spacing, and locations of structural members, connections, attachments, openings, fasteners, and loads.
 - 4. Manufacturer's installation instructions.
- D. Manufacturer's installation instructions.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store products indoor and protect from construction traffic and damage.

PART 2 PRODUCTS

2.1 MANUFACTURER

Warminster Fiberglass
P.O. Box 188
Southampton PA 18966-0188
725 County Line Road
Phone: 215-953-1260 | Fax: 215-357-7893



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A. Provide products manufactured by Warminster Fiberglass Company; P.O Box 188, Southampton PA 18966-0188; ASD. <http://www.warminsterfiberglass.com/> Tel. (215) 953-1260, Fax. (215) 357-7893.

B. NOTE ** Delete one of the two following paragraphs; coordinate with Division 1 requirements.

C. Requests for substitution will be considered in accordance with provisions of Section 01600.

D. Substitutions: Not permitted.

2.2 WASH TROUGHS

A. Material: Fiberglass reinforced polyester resin, 1/4-inch thick, average; inside surface of smooth gel coat finish; outside surface resin sealed with no exposed glass fibers; molded-in color with ultraviolet inhibitor.

1. Tensile strength (ASTM D 638): 14,000 psi.
2. Flexural strength (ASTM D 790): 25,000 psi
3. Flexural modulus (ASTM D 790): 1,000,000 psi.
4. Color: White.

B. Construction: Comply with requirements of ANSI/AWWA F101 and ANSI/NSF 61; provide NSF labeled products and proof of certification.

1. Designed to support applied water loadings at each location.
2. Designed to resist deflection under full buoyant and gravity water loads with maximum upward and downward deflection less than or equal to $L/1000$ where L equals the unsupported trough length; maximum deflection at midpoint not greater than 1/8-inch.
3. Round bottom, vertical sides.
4. Top edges straight with not more than 1/8-inch deviation from true plane.
5. Longitudinal steel stiffening ribs integrally molded on the outside of troughs to prevent deflection.
6. Spacer rods to maintain uniform width over the length of trough, up to 21" width use solid 1" PVC, 24" and above use solid 1" diameter stainless steel.
7. 2-inch wide, 1/2-inch thick wall, grouting rib molded to outside of each trough at the gullet end to act as a water stop when trough is grouted in place.
8. Slotted holes in closed end of trough to allow a minimum vertical level adjustment of 1-inch.
9. Stainless steel wall anchors and flat bars.

NOTE ** The following two paragraphs are optional.

10. Saddle at blind end.
11. Straight edge weir plates, factory-installed.
12. Provide stabilizers (cable sets or s.s. tubing) where necessary to restrict lateral movement.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that dimensions are correct and project conditions are suitable for installation. Do not proceed with installation until unsatisfactory conditions have been corrected.

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3.2 INSTALLATION

- A.** Install products in accordance with manufacturer's instructions.
- B.** Ensure that products are installed plumb and true, free of warp or twist, within tolerances specified by the manufacturer and as indicated in the contract documents.
- C.** Set in place with weir edges to elevations indicated.
- D.** Level weir edges to within 1/8-inch of level over entire length.
- E.** Grout in place after leveling.

3.3 ADJUST AND CLEAN

- A.** Clean surfaces in accordance with manufacturer's instructions.
- B.** Remove trash and debris, and leave the site in a clean condition.

END OF SECTION

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