

**ARTICLE III**  
**SCOPE OF SUPPLY**

**TECHNICAL SPECIFICATIONS**

- 3.1 **General:** Under this contract the Supplier shall **Furnish and Deliver Fiberglass Flights for the Primary Sedimentation Tanks for the period of March 1, 2021 through February 28, 2022, with the option of two (2) one (1) year extensions from March 1, 2022 through February 28, 2023 and March 1, 2023 through February 29, 2024** providing that the optional extensions are mutually acceptable to both parties and in accordance with the terms and conditions of the contract and at the prices quoted in the bid.
- 3.2 **Quantity:** ALCOSAN makes no guarantee as to the quantity of flights required during the term of the contract. The quantity of flights required is based on plant operating conditions and longevity of the flights in use. The Authority anticipates purchasing a minimum of sixty (60) flights per order with annual requirements estimated at one hundred twenty (120) for each length of flight specified.
- 3.3 **Quality:** Supplier shall guarantee that the flights and filler blocks furnished under this contract shall be in compliance with all OSHA, Local, State and Federal codes and regulations, and shall conform to any applicable Industrial Standards. Fiberglass flights and filler blocks supplied under this contract shall be covered by the manufacturer's standard warranty.
- 3.4 **Supplier Qualifications:** All bidders must be recognized manufacturers or established distributors of Fiberglass Flights and filler blocks for sedimentation tanks and be qualified to advise in their application and use. The supplier, at any time requested, must satisfy the Authority that he has the requisite organization, capital, plant stock, ability and experience, (minimum five years), to satisfactorily execute the contract in accordance with its provisions.
- 3.5 **Delivery:** Supplier shall Deliver Fiberglass Flights and filler blocks to the Authority's Wastewater Treatment Plant at 3300 Preble Avenue, Pittsburgh, PA 15233. Supplier shall have the capability of providing a minimum of sixty (60) flights with related components to the Authority **within four (4) to six (6) weeks** of receipt of a purchase order number from an Authority representative.
- 3.6 **Rejection:** If any shipment of flights and filler blocks is proven to be below the quality required by this specification, the Authority reserves the right to reject that shipment. Rejected flights and related components shall be removed by the Supplier at the Supplier's expense. Supplier shall then replace the rejected flights and or filler blocks with satisfactory products or credit the Authority the full delivered price of the rejected products.

- 3.7 **Payment:** Payment shall be made by the Authority within sixty (60) days of receipt of an itemized invoice from the Supplier. Payment for flights and filler blocks shall be made at the contract bid price per flight. The price bid per flight shall include the fiberglass flight, in length as specified, drilled and notched as specified, furnished with two (2) matching filler blocks per flight. All required freight and delivery charges. Filler blocks to be shipped in separate container(s).
- 3.8 **Application:** Fiberglass Flights with filler blocks shall be compatible with and suitable for extended use in the Authority's Primary Wastewater Sedimentation Tanks. Flights and filler blocks shall be capable of extended use in and exposure to municipal wastewater. Buoyant flight designs are **not** acceptable.
- 3.9 **Specification:**
- 3.9.1 **Fiberglass Flights** - for the Primary Sedimentation Tanks shall have the following features and specifications:
- a.** Nominal Size: 3" by 8" rectangular in cross section.
  - b.** Moment of Inertia: Flights shall have a Moment of Inertia (I<sub>y-y</sub>) of no less than 2.01<sup>''<sup>4</sup></sup> about its minor axis.
  - c.** Scraper Lip: Flight shall include a scraper lip on the leading edge to optimize cleaning of the tank floor.
  - d.** Material of Construction: Flights shall be composed of Pultruded Isothalic Polyester Composite, with Fiberglass content no less than 45%, and no greater than 55%, to insure total encapsulation of glass fibers to prevent wicking. Use of extenders in the resin is prohibited. Maximum water absorption shall be no greater than 0.5% in accordance with ASTM D570-81.
  - e.** Flight Length: Flights will be supplied in three (3) lengths:
    - 13'-6" drilled & notched per Exh. E-1, Dwg. No. JT1313AH
    - 15'-6" drilled & notched per Exh. E-2, Dwg. No. JT1313AJ
    - 15'-5 7/8" drilled & notched per Exh. E-3, Dwg. No. JT1330D
  - f.** Maximum Horizontal Deflection – 1/360 of length when subjected to load of 8 pounds per linear foot.
  - g.** Maximum Vertical Deflection – 0.021 inches per foot while simply supported on wear shoes.

- 3.9.2 **Filler blocks:** Supplier to provide two (2) matching Filler Blocks per flight.  
**NOTE:** Filler Blocks shall be shipped in separate container(s).
- 3.10 **Submittals:** Suppliers bidding on Fiberglass Flights and filler blocks shall submit the following information with their Bid:
- a. Detailed product specification sheet containing flight data as in Article III, section 3.9.1, and model, style and catalog numbers of the flight and filler block being bid.
  - b. Complete ordering information required to place material orders with your firm, should your firm be the successful bidder.
- 3.11 **Successful Bidder** The Authority intends to award this contract to only one (1) bidder. Contract award will be based on the qualifying responsible bidder with the lowest price for all flight lengths required.