NATIONAL
WATER TREATMENT PRODUCTS

7870 West Ridge Road
Sute #9
Fairview, PA 16415

# MATERIALS OF CONSTRUCTION

## CONTACT MOLDED (OPEN MOLD) FIBERGLASS LAMINATE

### CURRENT DENSITY BAFFLES

Resin used for the laminate shall be resistant to the corrosive effects of sewage and have a PH of approximately 7. A maximum of 3 percent by weight of a thixotropic agent may be added to the resin to prevent run-off. Resin with sufficient thixotropic agent added to form a suitable resin mix shall be used to seal any machined edges.

All laminates shall be fiberglass reinforced plastic produced in open mold. Laminate shall contain a glass content of no less than 25 percent using Type E (electrical borosilicate) glass mat. Final laminate thickness shall be within +/- 10 percent of the specified thickness.

A. Physical Properties:
    a. Tensile Strength (ASTM D-638): 18,500 psi
    b. Flexural Strength (ASTM D-790): 27,900 psi
    c. Flexural Modulus (ASTM D-790): 1,080,000 psi
    d. Izod, Notched (ASTM D-256): 15.4 ft-lb/in
    e. Barcol Hardness, ASTM D2583: 40
    f. Water Absorption, ASTM D 570: .13 percent

Tensile Strength D 638; Flexural Strength D 790; Flexural Modulus D 790;
Barcol Hardness D 2583.

Hardness tests shall be made on the resin-rich surface of the product.

Flexural tests shall be made with the resin-rich surface in compression.

Test samples shall be full thickness of the item produced and shall not be machined on the surface.

All FRP Components shall contain UV light absorbers and be Aqua in color.