

- b. Kiosks or enclosures shall be installed in full accordance with the manufacturer's recommendations and to the satisfaction of the Engineer.
- c. Stainless steel expansion bolts or chemical anchors shall be utilized in sufficient number to properly secure the enclosures or kiosks.
- d. A suitable sealant shall be provided around the base to maintain the designated IP rating.

3.2.7 GRP Panel Tanks

- A. GRP Panel tanks shall conform to the following requirements, unless otherwise approved by the Engineer.
 - 1. Panel tanks shall be designed to resist the following loads.
 - a. hydrostatic pressure with safety factor of 6.
 - b. Wind velocity : 60m/sec (on empty tank)
 - c. Roof panel live load 120kg/m²
 - 2. All panels shall be manufactured by hot press molding method and shall have the following properties.
 - a. Min. tensile strength : 900 Kg/cm² (ASTM – D638)
 - b. Min. flexural strength : 1600 Kg/cm² (ASTM – D790)
 - c. Min. glass content : 30% (ASTM – D2584)
 - d. Min. Barcol hardness : 50
 - 3. Tanks shall be externally braced.
 - a. External bracing, hardware and support frame shall be hot dipped galvanized to ASTM – A123 (600gm/m²)
 - b. External tie rods and fasteners (bolts, nuts, washers) shall be stainless steel (A304 or better).
 - c. Any internal fasteners or hardware shall be stainless steel 316.
 - 4. Resins shall be isothalic and shall incorporate a UV inhibitor.
 - 5. Tank shall be fitted with one GRP manhole entry and cover and two GRP ladders (one internal and one external).
 - 6. Gaskets shall be EPDM
 - 7. Tank shall be fitted with two PVC air vents.