

General Notes:

Tank Volumes:

Total Volume: 1223 <u>gal±</u>
Operating Volume: 1006 <u>gal± @ 48"</u>
Unit volume at typical <u>Operating Depth</u> : 20 <u>gal./in.±</u>

Loads:

Top = 500 psf minimum Lateral Load = 62.4 pcf, EFP Concentrated Wheel Load = 2 The septic tank shall be capable of withstanding long-term hydrostatic loading, in addition to the soil loading, due to a water table maintained at ground surface. 2500 lb.

Method of calcuations:

Tanks shall be analyzed using strength design methods and finite element analysis for buried structures.
 Calculations shall address the following:

Soil Bearing = 1000 psf (re-evaluate support base if soil

bearing is less or unequal)

buckling

- deflection of 0.5 - 1% of the tank diameter, based on service load (including long-term deflection lag) strength

3. Performance testing shall include vacuum testing followed by a hydrostatic test. buoyancy

Material: Resin: polydicyclopentadiene

listed below: The properties listed here along with the minimum thickness as shown in the details are considered design minimums that must be maintained during the manufacturing of the tanks. The primary strength properties are

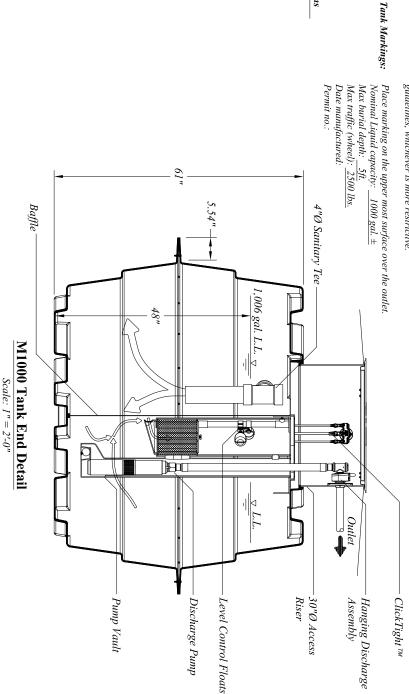
ensile strength F 6,700 psi 10,500 psi 9,200 psi 7,180 psi

Poisson ratio = 0.400 (Any <u>permanent</u> metal part shall 585 psi be 300 series stainless steel.)

Installation: state or local rules and or guidelines. All tanks shall be set level on a minimum 4 inch thick compacted sand or approved granular bedding overlying a firm uniform base. The base shall be stable and uniform in order to ensure equal bearing across the tank bottom. Installations with 18 inches or less of ground cover may require inches is required over the tank in areas subject to occasional light wheel loads. additional buoyancy considerations as described in the manufacturers instructions. A minimum cover of 12 Installation, bedding, compaction, etc., shall be in "strict" compliance with the manufacturers standards and

Test: guidelines, whichever is more restrictive. Tanks shall be tested and certified watertight per manuj acturers recommendations and or any prevailing rules or

Inside Height Total Inches Gallons





© Orenco Systems, Inc.

Portions or all of this Proposed System Configuration Drawing, as appropriate, may be reproduced and integrated into the site—specific layout and configuration of a system by its designer.

Disclaimer: This Proposed System Configuration Drawing is provided solely as a design aid and illustrates one possible configuration of a system that would comply with Orenco's design criteria for the requirements and/or specifications that have been communicated to Orenco (based on third-party standards testing protocols and performance reports, as applicable). Design decisions, including the actual layout and configuration of the system and its viability for the project, are at the sole discretion of the systems's designer.

Wichigo I dilk 1000 with	Scale:	1 = 2 -0
Pump Discharge Reviewed By: TB	Sheet:	l OF
DESIGN AID File Name: NDW-TD-MEA-100-1.DWG	3	Rev: 1.4 Date: 11/24/20