

General Notes: Tank Volumes:

Total Volume: 1788 gal±
Operating Volume: 1502 gal± @ 57"
Unit volume at typical Operating Depth: 25 gal./in.±
Chamber Options: 1000/500 or 876/625

Loads:

Top = 500 psf minimum

Lateral Load = 62.4 pcf, EFP

Concentrated Wheel Load = 2500 lb.

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.

Soil Bearing = 1000 psf (re-evaluate support base if soil bearing is less or unequal)

Method of calcuations:

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

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

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

- buoyancy

- strength
- Resin: polydicyclopentadiene

Material:

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

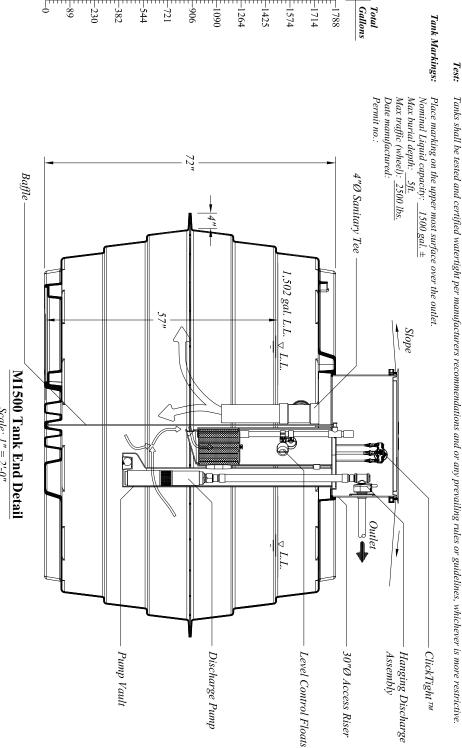
Flexural modulus E _f	274,000 psi
Tensile strength F_t	6,700 psi
Flexural strength F_b	10,500 psi
Compressive strength F_C	9,200 psi
Shear In-Plane F _S	7,180 psi
Flexural Rigidity	585 nei

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

Installation:

Installation, bedding, compaction, etc., shall be in "strict" compliance with the manufacturers standards and 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 additional buoyancy considerations as described in the manufacturers instructions. A minimum cover of 12 inches is required over the tank in areas subject to occasional light wheel loads.

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





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Disclaimer: This Proposed System Configuration Drawing is provided solely as a daid and illustrates one possible configuration of a system that would comply with Orei design criteria for the requirements and/or specifications that have been communicate 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.

r design Meander]	Meander Tank 1500 with Pump	Drawn By:	CSJ	Scale: /"	' = 2'-0"
to	Discharge	Reviewed By:	TB	Sheet:	1 OF 1
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