

**Built on Tradition**



**Highland Tank®**



## Potable Water Tanks

HT-1128

HighDRO® Potable Water Tanks (HD-PWT) are an effective and economical way to store potable water for residential, commercial, institutional and industrial installations. These factory-welded and coated carbon steel water tanks are pressure tested for tightness to ensure the quality and dependability of the water supply.

The high-strength, impermeable steel shell combines with our HighDRO®-Liner Plus polymer composite water storage liner to provide a flexible, long-lasting tank system. Highland Tank manufactures HD-PWT for all types of domestic water supplies, such as well water, city-supplied water or delivered water for:

- Schools
- Hospitals
- Rural Developments
- Prisons
- Resorts
- Livestock Feed Stations
- Rest Areas
- Campgrounds
- Emergency Water Supplies

HD-PWT are constructed to the highest standards to ensure a safe, contamination free environment. NSF, UL and AWWA compliant protective linings and coatings are factory applied and form a hard, inert barrier for both the interior and exterior surfaces of the tank to prevent corrosion.

Our interior liner complies with NSF/ANSI 61 Drinking Water System Components — Health Effects for the safe storage of potable water — the nationally recognized standard for all devices, components and materials that contact drinking water.

# Fabrication Options

**Orientation:**

Vertical or Horizontal

**Installation:**

- Aboveground or Underground

**Volumes:**

- 185 to 60,000 gallons; multiple HighDRO® Tanks may be interconnected to increase storage volume above 60,000 gallons

**Diameter:**

- 3'-2" to 13'-0"

**Length:**

- Up to 90'-0"

**Material:**

- Carbon Steel or Stainless Steel

**Head Design:**

- Flat are standard
- Flanged and dished, or cone (vertical only) also available

**Penetrations:**

- Threaded full couplings - up to 4" diameter
- Flanged fittings - 1/2" and up
- Manways - 24" minimum, 30", 36" diameter and custom rectangular manways

**Surface Preparation for coating:**

- SSPC SP-6, SP-10, SP-5

**Internal Linings:**

- Epoxy Phenolic
- High-solids Epoxy
- High-solids Polyurethane
- Zinc-Epoxy
- Vinyl Ester
- Rubber, PVC and other sheet linings

**External Coatings:**

- Primer Paint
- High-solids Epoxy/Polyurethane Finish Paint

**External Corrosion Protection System:**

- HighGuard-10

**Testing:**

- 5-psi factory air test and seam inspection

**Tank Support Systems:**

- Horizontal - UL Saddles
- Vertical - Ring Bases & Angle Legs

**Tank Accessories:**

- Interior ladders
- Waterstops
- Vents
- Exterior ladders w/ OSHA cages & guard-rails; stairs, walkways, catwalks
- All necessary appurtenances per AWWA D100 and NFPA 22
- Water/wastewater pumps and controls
- Gauges

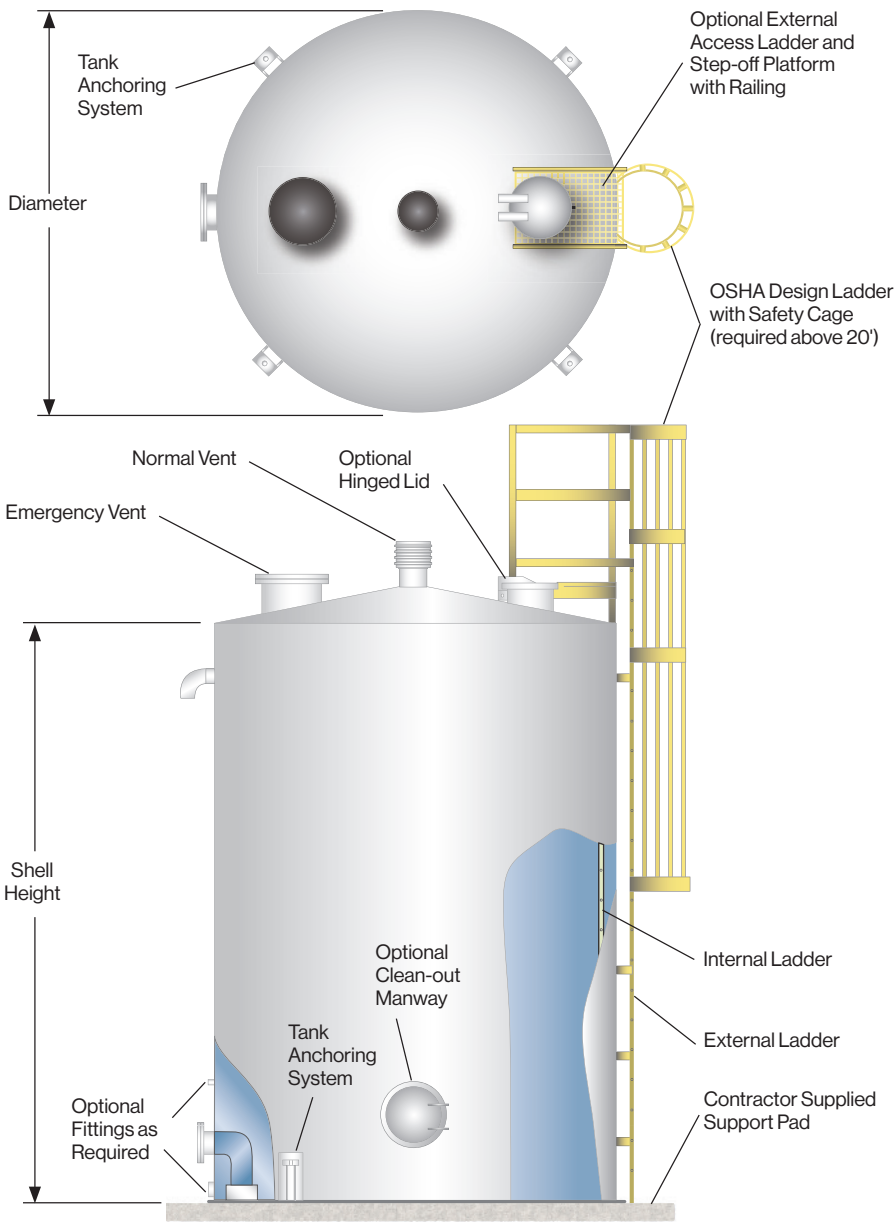


Our Highguard-10 corrosion protection system ensures maximum longevity and optimum use for underground water tanks. Aboveground tanks can be protected with a wide selection of primers and topcoats, even those complying with ANSI/AWWA D102, "Coating Steel Water-Storage Tanks."



**Highland Tank**<sup>®</sup>

# Vertical Tank Details

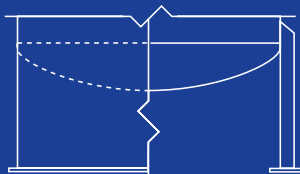


Volume Gallons	Nominal Dimensions Diameter	Height
185	3'-2"	3'-4"
240	3'-2"	4'-0"
300	3'-2"	5'-0"
500	4'-6"	5'-5"
1,000	4'-0"	10'-9"
1,000	5'-4"	6'-0"
1,500	5'-4"	9'-0"
2,000	5'-4"	12'-0"
3,000	8'-0"	8'-0"
4,000	8'-0"	10'-6"
5,000	8'-0"	13'-4"
6,000	8'-0"	16'-8"
8,000	10'-0"	14'-0"
10,000	10'-0"	17'-0"
12,000	10'-0"	20'-6"
15,000	10'-0"	25'-6"
20,000	10'-0"	34'-0"
20,000	10'-6"	31'-0"
25,000	12'-0"	29'-8"
30,000	12'-0"	35'-6"
30,000	12'-6"	32'-9"
40,000	12'-0"	47'-6"
40,000	12'-6"	43'-8"
40,000	13'-0"	40'-4"
50,000	13'-0"	50'-6"

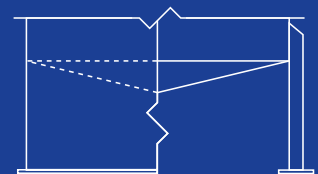
## Vertical Tank Bottom Configurations



Flat - the most commonly used tanks in the industry; requires a flat surface to give full support.



Dish with Ring Base or Angle Legs - offers near complete drainage; used when head pressure is required at the output.



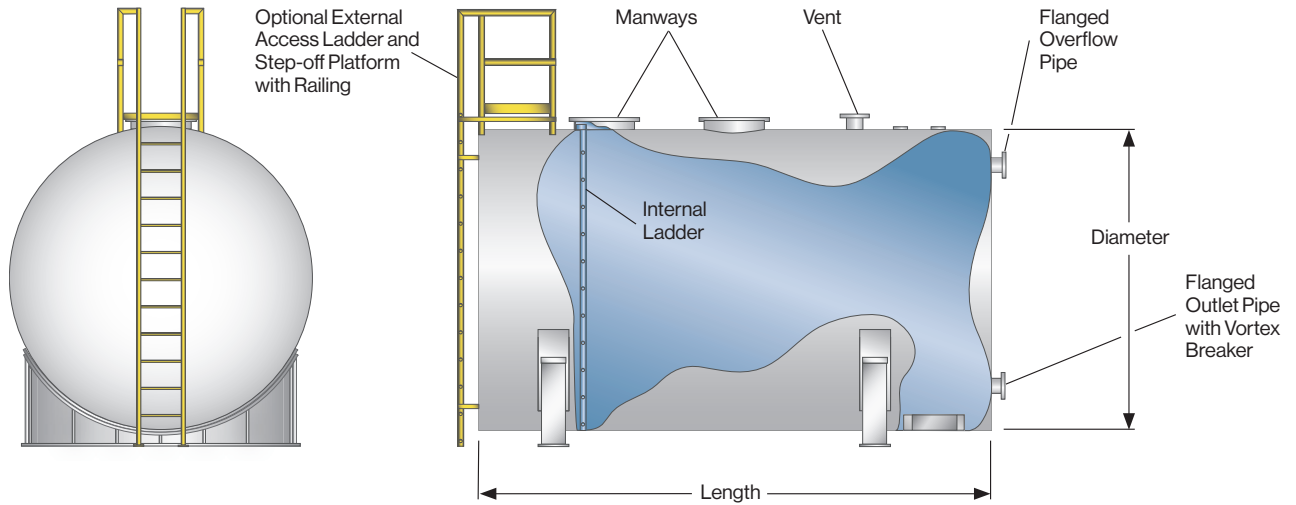
Cone with Ring Base or Angle Legs offers complete drainage.

All Highland Tank storage tank drawings are available for viewing or downloading in PDF or AutoCAD DXF format at [highlandtank.com](http://highlandtank.com)



**Highland Tank**<sup>®</sup>

# Horizontal Tank Details



Volume Gallons	Nominal Dimensions	
	Diameter	Height
185	3'-2"	3'-4"
240	3'-2"	4'-0"
300	3'-2"	5'-0"
500	4'-0"	5'-5"
1,000	4'-0"	10'-9"
1,000	5'-4"	6'-0"
1,500	5'-4"	9'-0"
2,000	5'-4"	12'-0"
2,500	5'-4"	15'-0"
3,000	5'-4"	18'-0"
4,000	5'-4"	24'-0"
4,000	6'-0"	19'-0"
4,000	8'-0"	10'-8"
5,000	6'-0"	23'-10"
5,000	8'-0"	13'-4"
6,000	6'-0"	28'-8"
6,000	8'-0"	16'-0"
8,000	10'-0"	14'-0"
8,000	8'-0"	21'-4"

Volume Gallons	Nominal Dimensions	
	Diameter	Height
10,000	10'-0"	17'-0"
10,000	8'-0"	26'-8"
12,000	10'-0"	20'-6"
12,000	8'-0"	32'-0"
15,000	10'-0"	25'-6"
15,000	8'-0"	40'-0"
20,000	10'-0"	34'-0"
20,000	10'-6"	31'-0"
25,000	10'-0"	42'-6"
25,000	10'-6"	38'-9"
30,000	10'-0"	51'-2"
30,000	10'-6"	46'-6"
40,000	12'-0"	47'-6"
50,000	12'-0"	59'-6"
50,000	12'-6"	54'-6"
60,000	12'-0"	71'-0"
60,000	12'-6"	65'-5"
60,000	13'-0"	60'-6"
70,000	13'-0"	72'-0"



**Highland Tank**<sup>®</sup>



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