

**Built on Tradition**



**Highland Tank<sup>®</sup>**



# Chemical Process Storage Tanks

HT-1011

Highland Tank's steel storage tanks are designed and engineered to meet the demanding needs of many industries including chemical storage and processing.

They provide a sensible and safe solution for the storage of petroleum products and chemicals at bulk plants, transportation facilities, industrial sites, military bases and airports.

These tanks are ideally suited for the storage of any liquid product including but not limited to: acids, alkalies, bleaches, oils, oxidants, salts, solvents, and corrosive environments.

## Advantages

Highland Tank has a long and successful record of manufacturing stainless steel storage tanks for our commercial and industrial customers.

Contemporary steel-making technology enables stainless steel to be welded and fabricated as readily as conventional steels. Additionally, stainless steel has many unique properties that may make it the best choice for your special storage tank requirements.

Stainless steel is corrosion-resistant to a large number of liquids and easily maintained. Stainless steel is used when carbon steel or internal linings are not compatible with the product to be stored.



# Additional Construction Details

## Construction and Compliance

All atmospheric tanks are constructed in accordance with UL58, UL-142 or API-650 specifications. Pressurized chemical tanks are manufactured to ASME code.

Standard atmospheric tanks are fabricated from mild-carbon steel with flat-flanged heads. ASME vessels typically employ SA516 GR70 carbon steel and 2:1 elliptical heads.

All chemical storage tanks can be fabricated from 304 or 316 stainless-steel with L grades available as an option on pressurized tanks.

All chemical storage tanks are available in horizontal and vertical construction. Aboveground or underground design and single-wall or double-wall construction is also available.

Additionally, a wide range of interior and exterior linings and coatings are available to meet your site-specific needs.

Multiple exterior insulation and product heating systems are available to help maintain proper product operating temperatures.



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## Customized for Your Needs

Because every application is unique, Highland stainless steel tanks are custom fabricated to meet your facility's needs.

Our knowledgeable and experienced staff will assist you in selecting the right grade of steel and combination of features to ensure your tank suits the specific application.

## Standard Tank Features

- Horizontal capacity: 70,000 gallons
- Vertical capacity: 57,500 gallons
- Steel thickness from 7 gauge to 1.25"
- Flat-flanged, or 2:1 elliptical heads
- Seam inspection and factory air test
- Manways required for tanks over 5,000 gallons
- NPT or flanged connections for vents, gauge, fill and piping
- Lifting lugs
- Primer paint

## Options

- Double-wall construction
- Electronic leak detection
- Secondary containment dikes of 120% or 150% capacities
- Single or double bulkheads for compartment tanks
- Flanged and dished heads with 30 to 50 psi hydro-test
- 24", 30" or 36" diameter manways
- Fittings in a variety of sizes and styles
- Interior and exterior coating systems
- Overfill protection containment chambers
- A variety of tank support and hold-down systems
- OSHA compliant external ladders, stairs, platforms and walkways with handrails



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# Drawing & Details

## Horizontal Cylindrical

Volume Gallons	Tank Dimensions	
	Diameter	Length
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'-8"
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	Tank Dimensions	
	Diameter	Length
10,000	10'-0"	17'-1"
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'-1"
20,000	10'-6"	31'-0"
25,000	10'-0"	42'-7"
25,000	10'-6"	38'-9"
30,000	10'-0"	51'-2"
30,000	10'-6"	46'-6"
40,000	11'-6"	51'-6"
50,000	12'-0"	59'-2"
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"

## Vertical Cylindrical

Volume Gallons	Tank 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"
3,000	8'-0"	8'-0"
4,000	8'-0"	10'-6"
5,000	8'-0"	13'-4"
6,000	8'-0"	16'-0"
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"
49,500	13'-0"	50'-0"
57,500	14'-0"	50'-0"



# Highland Tank®



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