

STI-P3[®] Cathodically Protected Steel Tanks



Highland Tank



Features

- Superior Highland Steel Construction
- Environmentally Friendly
- 30 Year Limited Warranty
- Cathodically Protected
- Available in:
 - Single-wall
 - Double-wall
 - Single or Multiple Compartment
 - New York City design
 - Wide Variety of Accessories

STI-P3[®]

The STI-P3[®] is the oldest, most successful underground tank technology ever developed. These tanks combine the strength of steel with a factory-installed corrosion protection system that has a time-proven track record without parallel. STI-P3[®] tanks set the standard by which all others are measured. The protection system consists of three basic parts - a coating with high dielectrical qualities (100% solids polyurethane), electrically isolated fittings, and sacrificial anodes. Highland STI-P3[®]

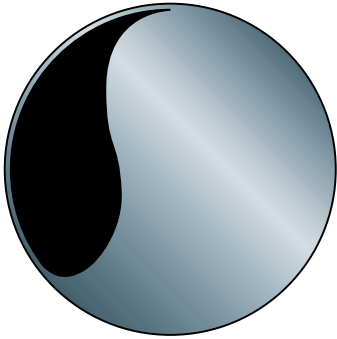
tanks carry a 30-year warranty against structural failure and external corrosion. When used to store petroleum products, the warranty covers internal corrosion as well. STI-P3[®] tanks also bear the UL-58 label and are acceptable under the Federal Regulations for cathodically protected tanks for underground use. Standard tanks have a 150° F maximum temperature use rating. High-temperature storage tank designs are available.

The STI-P3[®] is available with a long-life buried reference cell and continuous monitoring system. Highland underground tanks are constructed to meet the UL-58 Roark calculation requirements for minimum steel thickness and are based on a 60" burial depth. Construction for other burial depths are available by contacting Highland's Engineering Department.



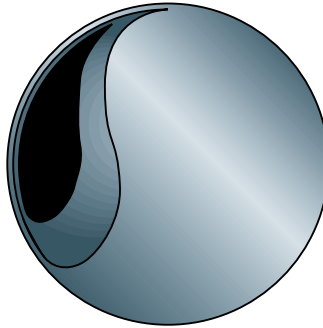
Single-wall

Single-wall tanks are constructed from mild carbon steel. Standard features include lap joints, continuous exterior fillet welds on all joints and flat-flanged heads. All tank's are air tested at 5 psi and seams are inspected.



Double-wall

Double-wall tanks are fabricated using the same construction techniques as single wall tanks. The primary steel vessel, is completely wrapped with a secondary steel wall. The area between vessel walls (the interstice) can be monitored for leak detection.



Threaded Fittings

All standard Highland STI-P3® tanks are fabricated with predetermined quantities, sizes and locations of NPT fittings. For additional product information, please visit our website at www.highlandtank.com. Contact one of our factories for exact sizes and locations on a specific tank capacity. Flanged fittings, manways, linings, ladders and a wide array of other options are also available to tailor a tank to your specific needs.

Capacity (Gallons)	Dimensions*	
	Diameter	Length
300 - 10 ga.	3'2"	5'0"
300 - 7 ga.	3'2"	5'0"
500 - 10 ga.	4'0"	5'0"
500 - 7 ga.	4'0"	5'0"
1,000 - 10 ga.	4'0"	10'9"
1,000 - 7 ga.	4'0"	10'9"
1,000 - 7 ga.	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	8'0"	21'4"
8,000	10'0"	14'0"
10,000	8'0"	26'8"
10,000	10'0"	17'0"
12,000	8'0"	32'0"
12,000	10'0"	20'6"
15,000	8'0"	40'0"
15,000	10'0"	25'6"
20,000	10'0"	34'0"
20,000	10'6"	31'0"
25,000	10'6"	38'9"
30,000	10'6"	46'6"
40,000	12'0"	47'6"
50,000	12'0"	59'6"

Note: All dimensions are nominal inside dimensions and subject to tolerances allowed by UL. *When calculating outside dimensions, please add 16" to the length of single and double-wall tanks for anodes. Other double-wall tank configurations are available, please contact factory for details.

Guideline Specification

The following items are the most critical elements that should be included in the Mechanical (HVAC) Specifications for Underground Storage Tanks.

Furnish a _____ gallon (single-wall / double-wall) underground steel storage tank, _____ diameter x _____ long with the STI-P3® corrosion control system. Tank shall be in conformance with Underwriters Laboratories Subject UL-58 and STI-P3® specifications.

The corrosion control system shall be in strict accordance with STI-P3® specifications as applied by a licensee of the STEEL TANK INSTITUTE and shall have the STI-P3® limited 30 year warranty against failure due to exterior corrosion and internal corrosion when used with petroleum products or alcohols. Tank shall bear UL and STI-P3® labels.

Options:

- Manway _____ diameter with bolted and gasketed lid.
- Internal ladder with 2" X 1/4" flat bar sides and 3/4" diameter rungs 12" on center.
- _____ hold down straps (Polyester, Standard Steel with liners, Safety, Dead-man.
- 150# flanges with dielectric isolation and spools. Flanges size as follows: _____, _____.
- Leak Detection System (double-wall tanks)
- Liquid Level Sensing System

Installation Guideline

- Excavation - 12" min. space required on sides and ends measured from outside dimensions of tank.
- Bedding - Min. of 12" of approved bedding, suitably graded and leveled - min. 6" between bottom of tank and pad if installing on a concrete pad
- Job-site Air Test - All tanks are air tested at 3-5 psi at the factory but may need to be retested at the Job-site as required by local code or authority.
- Coating Inspection - Before installation, visually inspect the tank surface, removing any foreign matter. Clean any damaged areas and repair coating with supplied touch-up kit.
- Activate Anodes - After tank has been placed, thoroughly saturate anodes with water.
- Anchoring - Securely attach any optional anchoring system, ensuring dielectric isolation of the tank.
- Backfilling - Carefully backfill excavation with approved material to STI specifications leaving the very top of the tank exposed.
- Final Inspection / Monitoring Station Connection - Visually inspect pipe connections and install STI-P3® Tank Monitoring System connection.
- Final Backfilling - Carefully finish backfilling excavation with approved material to STI specifications (min. 12" depth above tank) See NFPA 30 and state or local codes for any additional requirements.

Go to www.highlandtank.com to obtain a complete copy of the STI-P3® Installation Instructions.

Please visit us at www.highlandtank.com



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