



Aboveground Tank Saddles

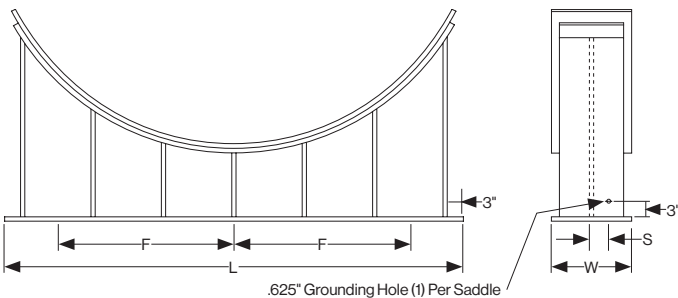
HT-1071

Approved 2-Saddle Design for UL-142 Tanks

UL Saddles are designed for a specific diameter horizontal storage tank and fabricated to the latest UL-142[®] design standards. They can be welded directly to the tank or shipped loose.

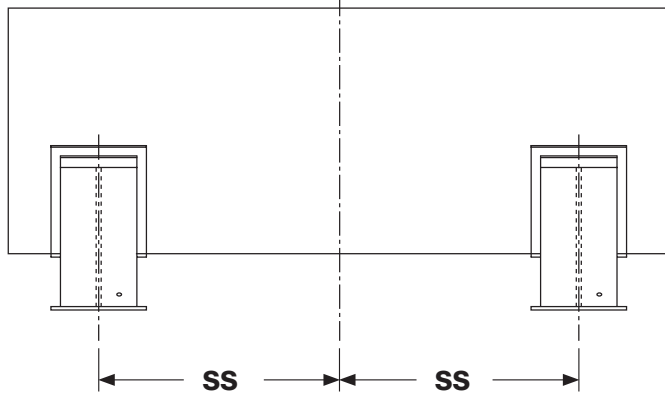
Saddle Specifications

Tank Diameter	Base Plate Dimensions		Bolt Hole Locations from Centerline	
	Length (L)	Width (W)	Front (F)	Side (S)
*3'-2"	35"	8"	7.5"	2"
*4'-0"	44"	8"	12"	2"
5'-4"	58"	8"	14"	2"
6'-0"	65"	8"	17.5"	2"
8'-0"	87"	10"	28.5"	2"
9'-0"	98"	10"	34"	2"
10'-0"	108"	10"	39"	2"
10'-6"	114"	10"	42"	2"
12'-0"	130"	12"	50"	3"
13'-0"	140"	12"	55"	3"



Saddle Details

Tank Saddle Spacing Specifications



Our tank saddles are used to provide longitudinal support, maintain the tank's position and elevation and help minimize corrosion. They also provide clearance for complete visual inspection of the underside of the tanks.

Highland's integral seal-welded tank saddles are constructed in accordance with Underwriter's Laboratories, Inc. and designed to support the full load of tank and contents. Our two saddle system is easy to install and service.

The storage tank and saddles must be designed to accommodate loads resulting from the weight of the tank and its contents, external equipment and environmental conditions. Additionally, the tank saddles can be anchored to a concrete pad to help protect the tank from movement or flotation. In areas subject to damaging wind, water or earthquakes, the design of the supporting structure and connections for the storage tank shall require special engineering consideration.

The design and construction of tank supports and foundations is critical and should only be undertaken and supervised by competent professionals.

All dimensions are approximate. Please refer to project-specific Highland Tank drawings for exact dimensions.

Saddle Features

- Heavy-duty UL-142® steel construction for long-term durability
- Standard saddles provide 6" of clearance and are available up to 12" high (Saddles higher than 12" must be protected with a fire resistant material with a two-hour fire rating)
- Only two properly positioned saddles per tank required
- Four 1-1/8" diameter bolt holes are provided to secure the saddles to the concrete pad or piers
- Saddles are painted to the same specifications as the tank

Nominal Capacity (Gallons)	Nominal Tank Dimensions		SS
	Diameter	Length	
185	3'2"	3'-4"	11"
240	3'2"	4'-0"	1'-3"
300	3'2"	5'-0"	1'-9"
500	4'0"	5'-5"	20.5"
1,000	4'0"	10'-9"	4'-0"
1,000	5'4"	6'-0"	2'-6"
1,500	5'4"	9'-0"	3'-2"
2,000	5'4"	12'-0"	4'-8"
3,000	5'4"	18'-0"	7'-8"
4,000	5'4"	24'-0"	10'-8"
4,000	6'0"	19'-0"	8'-0"
4,000	8'0"	10'-8"	3'-4"
5,000	6'0"	23'-10"	10'-5"
5,000	8'0"	13'-4"	4'-8"
6,000	6'0"	28'-8"	12'-10"
6,000	8'0"	16'-0"	6'-0"
8,000	8'0"	21'-4"	8'-8"
8,000	10'0"	14'-0"	4'-6"
10,000	8'0"	26'-8"	11'-4"
10,000	10'0"	17'-0"	6'-0"
12,000	8'0"	32'-0"	14'-0"
12,000	10'0"	20'-6"	7'-9"
15,000	8'0"	40'-0"	18'-0"
15,000	10'0"	25'-6"	10'-3"
20,000	10'0"	34'-0"	14'-6"
20,000	10'6"	31'-0"	12'-10.5"
25,000	10'6"	38'-9"	16'-9"
30,000	10'6"	46'-6"	20'-7.5"
40,000	12'0"	47'-6"	20'-9"
50,000	12'0"	59'-6"	26'-9"
60,000	12'0"	71'-0"	32'-6"
60,000	13'0"	60'-6"	25'-10"

*SS Center line of tank to centerline of saddle



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