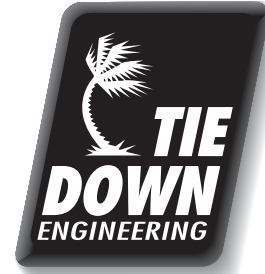


Propane Tank Anchorage Installation Calculations for Floatation & Wind Stabilization



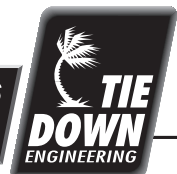
	Tank Number	Approx. Capacity (Gallons)
	1	1990
	2	1450
	3	1000
	4	850
	5	500
	6	325
	7	250
	8	150
	9	120
	10	120

Approval/Engineer's Seal

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 P. WITHERINGTON

Tank Number	Water Capacity (Gal)	Leg Spacing (inches)	Diam. (in)	Length (inches)	Length (feet)	Surface Area (ft ²)	Weight Empty (lb)	Bouyancy Force (lb)
1	1990	192	48	287	23.92	95.67	3400	18231
2	1450	139.5	48	208	17.33	69.33	2658	13104
3	1000	121	41	192	16.00	54.67	1760	9110
4	850	86	41	165	13.75	46.98	1440	7800
5	500	60	37	119	9.92	30.58	949	4486
6	325	60	30	119	9.92	24.79	597	2936
7	250	60	30	94	7.83	19.58	483	2235
8	150	60	24	84	7.00	14.00	314	1317
9	120	45.25	24	80	6.67	13.33	257	1047
10	120	-	54	30	-	11.25	260	1044

The values represented here are for anchorage of submerged tanks. The uplift is due to the water table pushing the tanks up when the water reaches the depth of the tanks.

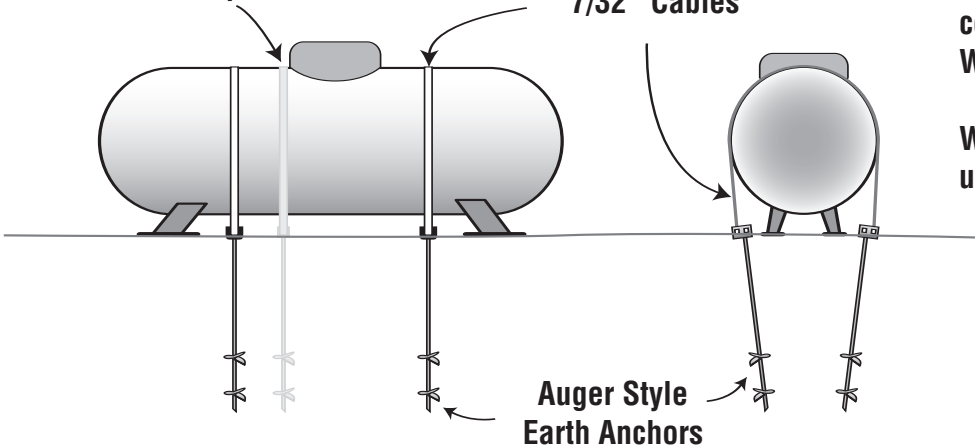


Single straps should be placed as close to center of tank as possible

1-1/4" Strap or 7/32" Cables

NOTE: Loading for strap and cable conditions is based upon 3150 lb. Working Load Capacity.

WARNING: Always check for underground utilities before installing



Strap: 1-1/4" X .031 Galvanized Steel, Class B, Grade 1, 4725 Tensile Strength.

Cable: 7/32, 7 X 19 Galvanized Cable, 5600lb. Breaking Strength.

2 Anchors Required for Each Strap or Cable.

Tank Number	Wind Anchorage*							Bouyancy Anchorage*		
	Number of Straps or Cables Required per Zone							# Cables Required	# Straps Required	Anchor Pull Out
90 m mph.	100 mph.	110 mph.	120 mph.	130 mph.	140 mph.	150 mph.				
1	0	0	0(2)	0(2)	0(2)	1(2)	1(2)	6	6	1546 lbs.
2	0	0	0	0(2)	0(2)	1(2)	1(2)	5	5	1577 lbs.
3	0	0	0	0	1(2)	1(2)	1(2)	4	4	1359 lbs.
4	0	0	0	0	1	1(2)	1(2)	3	3	1540 lbs.
5	0	0	0	0	1	1	1(2)	2	2	1359 lbs.
6	0	0	0	1	1	1	1	1	1	884 lbs.
7	0	0	0	1	1	1	1	1	1	1359 lbs.
8	0	0	1	1	1	1	1	1	1	816 lbs.
9	0	1	1	1	1	1	1	1	1	653 lbs.
10	0	0	1	1	1	1	1	1	1	653 lbs.

NOTES:

* Engineering data based on weight of a empty tank.

(2) - 2 straps or cables recommended for stabilization on longer tanks in high winds.

Eye or mobile home anchors must have a minimum 5/8" Shaft.

Class 2 Soils require minimum of 30" anchor with (2) 4" discs

Class 3 Soils require minimum of 34" anchor with (1) 6" disc.

Class 4A Soils require minimum of 48" anchor with (1) 6" disc.

Class 4B Soils require minimum of 60" anchor with (1) 6" disc.

