

# Tank Anchoring System

## An engineered system adds to installation security

Some site conditions — such as potential for a high water table or trapped water — require tank anchoring or overburden to offset buoyancy and secure the tank. Engineered and sized for tank models and sizes, our anchoring system components meet specific site requirements. Deadmen are designed to ship with most tank sizes, which can avoid installation delays and minimize shipping costs.



### Prefabricated deadman

- Reinforced precast concrete
- Designed to meet American Concrete Institute (ACI) standards:
  - Proper steel reinforcement
  - Concrete psi specifications
  - Adequate cure time
- More cost-effective than option of installing a concrete pad

### Fiberglass anchoring strap options

- D-ring/D-ring straps
- Man-out-of-hole (MOH) straps

### Turnbuckles and anchor points

- Galvanized, jaw-to-jaw turnbuckles
- Adjustable, galvanized steel anchor points
- Designed to be aligned after tank and deadmen are set

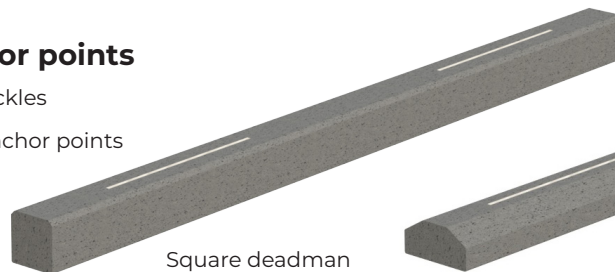
Engineered **prefabricated deadmen**

**Anchoring strap** options

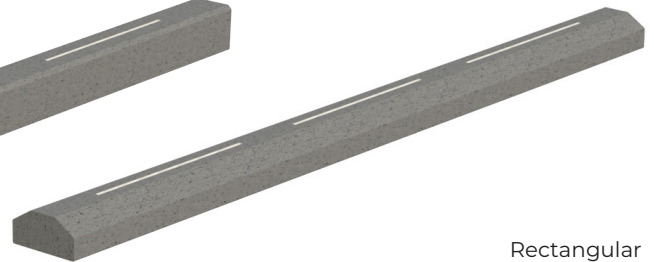
Jaw-to-jaw **turnbuckles**

Adjustable **anchor points**

**Even when not required by site conditions** many tank owners include anchoring systems



Square deadman for 4'-, 6'- and 8'-diameter tanks



Rectangular deadmen for 10'- and 12'-diameter tanks

# Tank Anchoring System

US Mfd Deadmen for US Installs

TANK DIA.	NOM. CAPACITY GAL.	# OF DEADMEN	SIZE OF DEADMEN WxHxL
4'	600	2	12" x 12" x 12'
	1,000	2	12" x 12" x 12'
	1,500	2	12" x 12" x 12'
6'	1,500	2	12" x 12" x 12'
	2,000	2	12" x 12" x 12'
	3,000	2	12" x 12" x 16'
	4,000	2	12" x 12" x 18'
	5,000	4	12" x 12" x 12'
8'	6,000	4	12" x 12" x 16'
	2,000	2	12" x 12" x 12'
	3,000	2	12" x 12" x 12'
	4,000	2	12" x 12" x 12'
	5,000	2	12" x 12" x 16'
	6,000	2	12" x 12" x 18'
	7,000	4	12" x 12" x 12'
	8,000	4	12" x 12" x 12'
	9,000	2	12" x 12" x 16'
		2	12" x 12" x 12'
	10,000	4	12" x 12" x 16'
	11,000	4	12" x 12" x 16'
	12,000	4	12" x 12" x 18'
	13,000	4	12" x 12" x 16'
		2	12" x 12" x 12'
14,000	4	12" x 12" x 16'	
	2	12" x 12" x 12'	
15,000	6	12" x 12" x 16'	
10'	10,000	2	18" x 9" x 22'
	11,000	2	18" x 9" x 22'
	12,000	2	18" x 9" x 22'
	13,000	4	18" x 9" x 14'
	14,000	4	18" x 9" x 14'
	15,000	4	18" x 9" x 14'
	16,000	2	18" x 9" x 18'
		2	18" x 9" x 14'
	17,000	2	18" x 9" x 18'
		2	18" x 9" x 14'
	18,000	4	18" x 9" x 18'
	19,000	4	18" x 9" x 18'
	20,000	4	18" x 9" x 18'
	22,000	4	18" x 9" x 22'
	25,000	4	18" x 9" x 14'
		2	18" x 9" x 18'
	30,000	6	18" x 9" x 18'
	35,000	4	18" x 9" x 22'
		2	18" x 9" x 18'
	40,000	8	18" x 9" x 18'

CAN Mfd Deadmen for US Installs

TANK DIA.	NOM. CAPACITY GAL.	# OF DEADMEN	SIZE OF DEADMEN WxHxL	
4'	600	2	12" x 12" x 12'	
	1,000	2	12" x 12" x 12'	
	1,300	2	12" x 12" x 16'	
	2,000	2	12" x 12" x 18'	
6'	1,500	2	12" x 12" x 12'	
	2,000	2	12" x 12" x 12'	
	3,000	2	12" x 12" x 16'	
	4,000	2	12" x 12" x 18'	
	5,000	4	12" x 12" x 12'	
	6,000	4	12" x 12" x 18'	
	4,000	2	12" x 12" x 12'	
8'	5,000	2	12" x 12" x 16'	
	6,000	2	12" x 12" x 16'	
	7,000	2	12" x 12" x 16'	
	8,000	4	12" x 12" x 12'	
	9,000	4	12" x 12" x 12'	
	10,000	4	12" x 12" x 16'	
	11,000	4	12" x 12" x 16'	
	12,000	4	12" x 12" x 16'	
	13,000	4	12" x 12" x 18'	
	14,000	6	4 - 12" x 12" x 12' 2 - 12" x 12" x 16'	
	15,000	6	4 - 12" x 12" x 12' 2 - 12" x 12" x 16'	
	16,000	6	4 - 12" x 12" x 12' 2 - 12" x 12" x 18'	
	17,000	6	2 - 12" x 12" x 12'	
	10'	10,000	2	18" x 9" x 18'
		11,000	2	18" x 9" x 22'
12,000		2	18" x 9" x 22'	
13,000		4	18" x 9" x 12'	
14,000		4	18" x 9" x 12'	
15,000		4	18" x 9" x 12'	
16,000		4	2 - 18" x 9" x 12' 2 - 18" x 9" x 18'	
17,000		4	2 - 18" x 9" x 12' 2 - 18" x 9" x 18'	
18,000		4	2 - 18" x 9" x 12'	
19,000		4	18" x 9" x 18'	
20,000		4	18" x 9" x 18'	
22,000		4	2 - 18" x 9" x 18'	
25,000		4	18" x 9" x 22'	
30,000		6	18" x 9" x 18'	
35,000		6	2 - 18" x 9" x 18' 4 - 18" x 9" x 22'	
40,000	8	18" x 9" x 18'		

CAN Mfd Deadmen for CAN Installs

TANK DIA.	NOM. CAPACITY LITERS	# OF DEADMEN	SIZE OF DEADMEN WxHxL	
4'	2,500	2	12" x 12" x 12'	
	3,900	2	12" x 12" x 12'	
	5,000	2	12" x 12" x 16'	
	7,500	2	12" x 12" x 18'	
6'	10,000	2	12" x 12" x 12'	
	15,000	2	12" x 12" x 12'	
	20,000	4	2 - 12" x 12" x 12' 2 - 12" x 12" x 16'	
	25,000	4	12" x 12" x 16'	
	15,000	2	12" x 12" x 12'	
8'	20,000	2	12" x 12" x 16'	
	25,000	2	12" x 12" x 18'	
	30,000	4	12" x 12" x 12'	
	35,000	4	12" x 12" x 12'	
	40,000	4	12" x 12" x 16'	
	45,000	4	2 - 12" x 12" x 12' 2 - 12" x 12" x 18'	
	50,000	4	12" x 12" x 18'	
	60,000	6	2 - 12" x 12" x 12' 4 - 12" x 12" x 16'	
	65,000	6	2 - 12" x 12" x 12' 4 - 12" x 12" x 18'	
	10'	50,000	4	18" x 9" x 12'
		55,000	4	18" x 9" x 12'
		60,000	4	2 - 18" x 9" x 12' 2 - 18" x 9" x 18'
		65,000	4	2 - 18" x 9" x 12' 2 - 18" x 9" x 18'
		70,000	4	18" x 9" x 18'
		75,000	4	18" x 9" x 18'
80,000		4	18" x 9" x 18'	
85,000		6	4 - 18" x 9" x 12' 2 - 18" x 9" x 18'	
95,000		4	2 - 18" x 9" x 22'	
100,000		6	2 - 18" x 9" x 12' 4 - 18" x 9" x 18'	
110,000		6	2 - 18" x 9" x 18'	
115,000		6	18" x 9" x 18'	
135,000		6	2 - 18" x 9" x 18' 4 - 18" x 9" x 22'	
150,000		8	18" x 9" x 18'	

### Approximate Weight of Each Deadman

12"x12"x12"	= 1,800 lb / 780 kg.
12"x12"x16"	= 2,400 lb / 1,050 kg.
12"x12"x18"	= 2,700 lb / 1,200 kg.
18"x9"x12"	= NA / 780 kg.
18"x9"x14"	= 1,900 lb / NA
18"x9"x18"	= 2,400 / 1,170 kg.
18"x9"x22"	= 3,000 / 1,430 kg.

For over 40 years, Xerxes has designed and manufactured fiberglass underground storage tanks for fuel, water and wastewater. Xerxes' most recent expansion is its HydroChain™ product line. These highly engineered products with site-specific designs provide a complete stormwater management solution. Xerxes is a key brand of Mattr, a global materials technology company serving critical infrastructure markets.