

# ENGINEERED STORAGE PRODUCTS COMPANY TECSTORE® TANK CAPACITY CHART

## FOR WATER TANKS WITH CONCRETE FLOORS (US Units)

US Units															
Model Diameter	Sheets	Exact Diameter (feet)	Capacity Per Foot (gallons)	Maximum Water Depth ( ±0.1 ft)											
				AWWA										AISC Zones 0,1	
				Zones = 0,1		Zone = 2A		Zone = 2B		Zone = 3		Zone = 4			
Design (feet)	Max. Capacity	Design (feet)	Max. Capacity	Design (feet)	Max. Capacity	Design (feet)	Max. Capacity	Design (feet)	Max. Capacity	Design (feet)	Max. Capacity	Design (feet)	Max. Capacity		
11	4	11.19	735	65.1	47849	46.4	34104	40.2	29547	32.9	24182	28.4	20874	65.1	47849
14	5	13.98	1,149	138.4	159022	114.0	130986	98.7	113406	80.7	92724	69.8	80200	138.4	159022
17	6	16.78	1,655	138.4	229052	114.1	188836	99.0	163845	80.9	133890	70.1	116016	138.4	229052
20	7	19.58	2,252	138.4	311677	114.4	257629	99.2	223398	81.1	182637	70.4	158541	138.4	311677
22	8	22.37	2,942	138.4	407173	114.7	337447	99.5	292729	81.5	239773	70.7	207999	138.4	407173
25	9	25.17	3,724	138.4	515402	115.0	428260	99.8	371655	81.8	304623	71.1	264776	138.4	515402
28	10	27.97	4,597	138.4	636225	111.2	511186	96.7	444530	79.3	364542	69.1	317653	138.4	636225
31	11	30.77	5,563	138.4	769919	106.9	594685	93.0	517359	76.5	425570	66.7	371052	138.4	769919
34	12	33.56	6,620	138.4	916208	103.2	683184	89.8	594476	74.1	490542	64.6	427652	138.4	916208
36	13	36.36	7,770	138.4	1075368	99.9	776223	87.1	676767	71.9	558663	62.9	488733	138.4	1075368
39	14	39.16	9,011	134.5	1211980	97.0	874067	84.6	762331	70.0	630770	61.3	552374	134.5	1211980
42	15	41.96	10,345	130.5	1350023	94.4	976568	82.5	853463	68.4	707598	60.1	621735	130.5	1350023
45	16	44.75	11,770	126.9	1493613	92.1	1084017	80.6	948662	67.0	788590	58.9	693253	126.9	1493613
48	17	47.55	13,287	123.8	1644931	90.0	1195830	78.9	1048344	65.8	874285	57.9	769317	123.8	1644931
50	18	50.35	14,896	120.7	1797947	88.1	1312338	76.6	1141034	64.8	965261	57.0	849072	120.7	1797947
53	19	53.15	16,598	116.5	1933667	86.5	1435727	76.1	1263108	63.8	1058952	56.3	934467	116.5	1933667
56	20	55.95	18,391	110.7	2035884	84.9	1561396	74.8	1375647	62.8	1154955	55.7	1024379	110.7	2035884
59	21	58.74	20,276	105.4	2137090	83.6	1695074	73.9	1498396	62.1	1259140	55.2	1119235	105.4	2137090
62	22	61.54	22,253	100.6	2238652	82.4	1833647	72.9	1622244	61.5	1368560	54.7	1217239	100.6	2238652
64	23	64.34	24,322	96.3	2342209	81.4	1979811	72.2	1756048	60.9	1481210	54.3	1320685	96.3	2342209
67	24	67.13	26,483	92.2	2441733	80.5	2131882	71.4	1890886	60.6	1604870	54.1	1432730	92.2	2441733
70	25	69.93	28,736	88.6	2546010	79.6	2287386	70.8	2034509	60.3	1732781	53.8	1545997	88.6	2546010
73	26	72.73	31,081	85.2	2648101	78.9	2452291	70.3	2184994	60.0	1864860	53.5	1662834	85.2	2648101
76	27	75.53	33,518	82.0	2748476	78.3	2624459	69.9	2342908	59.7	2001025	53.1	1779806	82.0	2748476
78	28	78.32	36,046	79.1	2851239	77.7	2800774	69.4	2501592	59.4	2141132	52.7	1899624	79.1	2851239
81	29	81.12	38,667	76.4	2954159	76.4	2954159	69.0	2668023	59.0	2281353	52.3	2022284	76.4	2954159
84	30	83.92	41,380	73.8	3053844	73.8	3053844	68.7	2842806	58.6	2424868	52.0	2151760	73.8	3053844
87	31	86.72	44,184	71.4	3154738	71.4	3154738	68.3	3017767	58.1	2567090	51.7	2284313	71.4	3154738
90	32	89.51	47,081	69.2	3258005	69.2	3258005	68.0	3201508	57.7	2716574	51.4	2419963	69.2	3258005
92	33	92.31	50,070	67.1	3359697	67.1	3359697	67.1	3359697	57.4	2874018	51.2	2563584	67.1	3359697
95	34	95.11	53,150	65.1	3460065	65.1	3460065	65.1	3460065	57.1	3034865	51.0	2710650	65.1	3460065
98	35	97.91	56,323	63.3	3565246	63.3	3565246	63.3	3565246	56.8	3199146	50.7	2855576	63.3	3565246
101	36	100.70	59,587	61.5	3664601	61.5	3664601	61.5	3664601	56.6	3372624	50.6	3015102	61.5	3664601
104	37	103.50	62,944	59.8	3764051	59.8	3764051	59.8	3764051	56.3	3543747	50.5	3178672	59.8	3764051
106	38	106.30	66,392	58.3	3870654	58.3	3870654	58.3	3870654	56.1	3724591	50.3	3339518	58.3	3870654
109	39	109.10	69,932	56.8	3972138	56.8	3972138	56.8	3972138	55.9	3909199	50.2	3510586	56.8	3972138
112	40	111.90	73,565	55.3	4068145	55.3	4068145	55.3	4068145	55.3	4068145	50.0	3678250	55.3	4068145
115	41	114.69	77,289	54.0	4173606	54.0	4173606	54.0	4173606	54.0	4173606	49.9	3856721	54.0	4173606
117	42	117.49	81,105	52.7	4274234	52.7	4274234	52.7	4274234	52.7	4274234	49.7	4030919	52.7	4274234
120	43	120.29	85,013	51.5	4378170	51.5	4378170	51.5	4378170	51.5	4378170	49.7	4225146	51.5	4378170
123	44	123.09	89,013	50.3	4477354	50.3	4477354	50.3	4477354	50.3	4477354	49.5	4406144	50.3	4477354
126	45	125.89	93,105	49.2	4580766	49.2	4580766	49.2	4580766	49.2	4580766	49.2	4580766	49.2	4580766
129	46	128.68	97,289	48.1	4679601	48.1	4679601	48.1	4679601	48.1	4679601	48.1	4679601	48.1	4679601
131	47	131.48	101,565	47.1	4783712	47.1	4783712	47.1	4783712	47.1	4783712	47.1	4783712	47.1	4783712
134	48	134.27	105,933	46.1	4883511	46.1	4883511	46.1	4883511	46.1	4883511	46.1	4883511	46.1	4883511
137	49	137.07	110,393	45.2	4989764	45.2	4989764	45.2	4989764	45.2	4989764	45.2	4989764	45.2	4989764
140	50	139.87	114,945	44.3	5092064	44.3	5092064	44.3	5092064	44.3	5092064	44.3	5092064	44.3	5092064
143	51	142.67	119,589	43.4	5190163	43.4	5190163	43.4	5190163	43.4	5190163	43.4	5190163	43.4	5190163
145	52	145.46	124,324	42.6	5296202	42.6	5296202	42.6	5296202	42.6	5296202	42.6	5296202	42.6	5296202
148	53	148.26	129,152	41.7	5385638	41.7	5385638	41.7	5385638	41.7	5385638	41.7	5385638	41.7	5385638
151	54	151.06	134,072	41.0	5496952	41.0	5496952	41.0	5496952	41.0	5496952	41.0	5496952	41.0	5496952
154	55	153.86	139,083	40.2	5591137	40.2	5591137	40.2	5591137	40.2	5591137	40.2	5591137	40.2	5591137
157	56	156.66	144,187	39.5	5695387	39.5	5695387	39.5	5695387	39.5	5695387	39.5	5695387	39.5	5695387
159	57	159.46	149,382	38.8	5796022	38.8	5796022	38.8	5796022	38.8	5796022	38.8	5796022	38.8	5796022
162	58	162.26	154,670	38.1	5892927	38.1	5892927	38.1	5892927	38.1	5892927	38.1	5892927	38.1	5892927
171	61	170.65	171,082	36.3	6210273	36.3	6210273	36.3	6210273	36.3	6210273	36.3	6210273	36.3	6210273
179	64	179.04	188,318	34.6	6515800	34.6	6515800	34.6	6515800	34.6	6515800	34.6	6515800	34.6	6515800
187	67	187.43	206,381	33.0	6810573	33.0	6810573	33.0	6810573	33.0	6810573	33.0	6810573	33.0	6810573
193	69	193.03	218,898	32.1	7026615	32.1	7026615	32.1	7026615	32.1	7026615	32.1	7026615	32.1	7026615
201	72	201.42	238,340	30.7	7317033	30.7	7317033	30.7	7317033	30.7	7317033	30.7	7317033	30.7	7317033
210	75	209.81	258,609	29.5	7628968	29.5	7628968	29.5	7628968	29.5	7628968	29.5	7628968	29.5	7628968
218	78	218.20	279,712	28.4	7943809	28.4	7943809	28.4	7943809	28.4	7943809	28.4	7943809	28.4	7943809
227	81	226.59	301,642	27.3	8234817	27.3	8234817	27.3	8234817	27.3	8234817	27.3	8234817	27.3	8234817
235	84	234.99	324,399	26.3	8531700	26.3	8531700	26.3	8531700	26.3	8531700	26.3	8531700	26.3	8531700
243	87	243.38	347,984	25.4	8838803	25.4	8838803	25.4	8838803	25.4	8838803	25.4	8838803	25.4	8838803

### Notes for use with US Gallons:

- 100 mph wind speed per AWWA
- 25 psf snow load
- Seismic zone 0, 1, 2A, 2B, 3, 4
- Importance Factor, I = 1.25
- Site Amplification Factor, S = 1.5
- Specific gravity 1.0 @ STP
- Structure height limitations are also dependent upon local soil conditions and construction techniques
- AWWA Designates AWWA D103-97; AISC Designates ANSI/AISC 360-05 Specification for Structural Steel Buildings, ASD
- Assumes a maximum material thickness of 0.5 inches HSLA.

### Conversions:

Gallons => Cubic feet      Gallons => Cubic meters  
 Multiply gallons by 0.13368      Multiply gallons by 0.003785



**ENGINEERED STORAGE PRODUCTS COMPANY**

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Part No. 058796-000  
 Rel. 2 ECN 07105  
 March, 2007  
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# ENGINEERED STORAGE PRODUCTS COMPANY TECSTORE® TANK CAPACITY CHART

## FOR WATER TANKS WITH CONCRETE FLOORS (Metric Units)

Metric Units													
Exact Diameter (mm)	Capacity Per Meter (cu-m)	Maximum Water Depth (±30 mm)											
		AWWA										AISC Zones 0,1	
		Zones = 0,1		Zone = 2A		Zone = 2B		Zone = 3		Zone = 4		Design (mm)	Design (mm)
		Design (mm)	Max. Capacity	Design (mm)	Max. Capacity	Design (mm)	Max. Capacity	Design (mm)	Max. Capacity	Design (mm)	Max. Capacity		
3 411	20	19 842	184	14 143	289 497	12 253	250 814	10 028	205 268	8 656	177 192	19 842	406 169
4 261	32	42 184	288	34 747	1 111 893	30 084	962 665	24 597	787 103	21 275	680 791	42 184	1 349 877
5 115	46	42 184	415	34 778	1 602 956	30 175	1 390 821	24 658	1 136 540	21 366	984 814	42 184	1 944 340
5 968	63	42 184	564	34 869	2 186 918	30 236	1 896 348	24 719	1 550 341	21 458	1 345 796	42 184	2 645 712
6 818	82	42 184	737	34 961	2 864 469	30 328	2 484 871	24 841	2 035 346	21 549	1 765 632	42 184	3 456 343
7 672	104	42 184	933	35 052	3 635 345	30 419	3 154 847	24 933	2 585 836	21 671	2 247 591	42 184	4 375 058
8 525	128	42 184	1 152	33 894	4 339 277	29 474	3 773 454	24 171	3 094 466	21 062	2 696 439	42 184	5 400 683
9 379	155	42 184	1 394	32 583	5 048 064	28 346	4 391 674	23 317	3 612 506	20 330	3 149 727	42 184	6 535 566
10 229	184	42 184	1 659	31 455	5 799 303	27 371	5 046 292	22 586	4 164 034	19 690	3 630 184	42 184	7 777 359
11 083	216	42 184	1 948	30 450	6 589 077	26 548	5 744 831	21 915	4 742 289	19 172	4 148 678	42 184	9 128 411
11 936	251	40 996	2 259	29 566	7 419 639	25 786	6 471 149	21 336	5 354 379	18 684	4 688 906	40 996	10 288 057
12 789	288	39 776	2 593	28 773	8 289 733	25 146	7 244 735	20 848	6 006 544	18 318	5 277 680	39 776	11 459 854
13 640	328	38 679	2 950	28 072	9 201 829	24 567	8 052 849	20 422	6 694 056	17 953	5 884 775	38 679	12 678 742
14 493	370	37 734	3 330	27 432	10 150 969	24 049	8 899 017	20 056	7 421 487	17 648	6 530 457	37 734	13 963 222
15 347	415	36 789	3 734	26 853	11 139 960	23 348	9 685 823	19 751	8 193 751	17 374	7 207 466	36 789	15 262 125
16 200	462	35 509	4 160	26 365	12 187 369	23 195	10 722 066	19 446	8 989 065	17 160	7 932 357	36 058	16 667 812
17 054	512	33 741	4 610	25 878	13 254 127	22 799	11 677 369	19 141	9 803 995	16 977	8 695 581	35 296	18 078 067
17 904	565	32 126	5 082	25 481	14 388 868	22 525	12 719 346	18 928	10 688 382	16 825	9 500 784	34 656	19 569 549
18 757	620	30 663	5 578	25 116	15 565 170	22 220	13 770 642	18 745	11 617 208	16 673	10 332 704	33 985	21 062 092
19 611	677	29 352	6 096	24 811	16 805 900	22 007	14 906 461	18 562	12 573 456	16 551	11 210 815	32 248	21 843 540
20 461	738	28 103	6 638	24 536	18 096 773	21 763	16 051 051	18 471	13 623 161	16 490	12 161 931	30 907	22 795 190
21 315	800	27 005	7 203	24 262	19 416 791	21 580	17 270 211	18 379	14 708 951	16 398	13 123 409	29 657	23 734 344
22 168	866	25 969	7 790	24 049	20 816 613	21 427	18 547 628	18 288	15 830 124	16 307	14 115 194	28 529	24 694 993
23 022	933	24 994	8 401	23 866	22 278 089	21 306	19 888 103	18 197	16 985 976	16 185	15 108 129	27 462	25 635 451
23 872	1 004	24 110	9 035	23 683	23 774 762	21 153	21 235 115	18 105	18 175 301	16 063	16 125 225	26 487	26 589 792
24 725	1 077	23 287	9 692	23 287	25 076 788	21 031	22 647 885	17 983	19 365 583	15 941	17 166 440	25 573	27 538 515
25 579	1 152	22 494	10 372	22 494	25 922 980	20 940	24 131 555	17 861	20 583 830	15 850	18 265 514	24 719	28 487 177
26 432	1 231	21 763	11 075	21 763	26 779 429	20 818	25 616 737	17 709	21 791 104	15 758	19 390 707	23 927	29 442 370
27 283	1 311	21 092	11 801	21 092	27 656 031	20 726	27 176 446	17 587	23 060 014	15 667	20 542 196	23 165	30 373 675
28 136	1 394	20 452	12 550	20 452	28 519 256	20 452	28 519 256	17 496	24 396 502	15 606	21 761 340	22 464	31 324 429
28 990	1 480	19 842	13 322	19 842	29 371 244	19 842	29 371 244	17 404	25 761 874	15 545	23 009 730	21 824	32 303 856
29 843	1 569	19 294	14 117	19 294	30 264 086	19 294	30 264 086	17 313	27 156 400	15 453	24 239 955	21 184	33 228 341
30 693	1 659	18 745	14 935	18 745	31 107 472	18 745	31 107 472	17 252	28 628 990	15 423	25 594 115	20 604	34 192 928
31 547	1 753	18 227	15 777	18 227	31 951 673	18 227	31 951 673	17 160	30 081 592	15 392	26 982 600	20 025	35 104 095
32 400	1 849	17 770	16 641	17 770	32 856 582	17 770	32 856 582	17 099	31 616 711	15 331	28 347 960	19 507	36 068 975
33 254	1 948	17 313	17 528	17 313	33 718 043	17 313	33 718 043	17 038	33 183 778	15 301	29 800 102	19 020	37 042 357
34 107	2 049	16 855	18 439	16 855	34 533 011	16 855	34 533 011	16 855	34 533 011	15 240	31 223 337	18 532	37 967 578
34 958	2 152	16 459	19 372	16 459	35 428 236	16 459	35 428 236	16 459	35 428 236	15 210	32 738 314	18 075	38 905 451
35 811	2 259	16 063	20 329	16 063	36 282 426	16 063	36 282 426	16 063	36 282 426	15 149	34 217 013	17 648	39 862 476
36 664	2 368	15 697	21 308	15 697	37 164 701	15 697	37 164 701	15 697	37 164 701	15 149	35 865 741	17 252	40 845 089
37 518	2 479	15 331	22 311	15 331	38 006 642	15 331	38 006 642	15 331	38 006 642	15 088	37 402 163	16 855	41 784 638
38 371	2 593	14 996	23 337	14 996	38 884 470	14 996	38 884 470	14 996	38 884 470	14 996	38 884 470	16 459	42 678 077
39 222	2 709	14 661	24 385	14 661	39 723 444	14 661	39 723 444	14 661	39 723 444	14 661	39 723 444	16 124	43 687 530
40 075	2 829	14 356	25 457	14 356	40 607 201	14 356	40 607 201	14 356	40 607 201	14 356	40 607 201	15 758	44 573 085
40 925	2 950	14 051	26 552	14 051	41 454 366	14 051	41 454 366	14 051	41 454 366	14 051	41 454 366	15 453	45 590 810
41 779	3 074	13 777	27 670	13 777	42 356 303	13 777	42 356 303	13 777	42 356 303	13 777	42 356 303	15 118	46 479 483
42 632	3 201	13 503	28 811	13 503	43 224 690	13 503	43 224 690	13 503	43 224 690	13 503	43 224 690	14 813	47 420 315
43 486	3 331	13 228	29 975	13 228	44 057 418	13 228	44 057 418	13 228	44 057 418	13 228	44 057 418	14 539	48 422 554
44 336	3 462	12 984	31 162	12 984	44 957 552	12 984	44 957 552	12 984	44 957 552	12 984	44 957 552	14 265	49 389 986
45 190	3 597	12 710	32 372	12 710	45 716 742	12 710	45 716 742	12 710	45 716 742	12 710	45 716 742	13 990	50 321 305
46 043	3 734	12 497	33 605	12 497	46 661 643	12 497	46 661 643	12 497	46 661 643	12 497	46 661 643	13 716	51 213 998
46 897	3 873	12 253	34 861	12 253	47 461 142	12 253	47 461 142	12 253	47 461 142	12 253	47 461 142	13 472	52 183 643
47 750	4 016	12 040	36 140	12 040	48 346 081	12 040	48 346 081	12 040	48 346 081	12 040	48 346 081	13 228	53 119 492
48 603	4 160	11 826	37 442	11 826	49 200 336	11 826	49 200 336	11 826	49 200 336	11 826	49 200 336	13 015	54 145 731
49 457	4 308	11 613	38 768	11 613	50 022 931	11 613	50 022 931	11 613	50 022 931	11 613	50 022 931	12 771	55 012 095
50 310	4 460	11 404	40 111	11 404	50 816 767	11 404	50 816 767	11 404	50 816 767	11 404	50 816 767	12 532	55 944 876
51 163	4 616	11 200	41 472	11 200	51 581 272	11 200	51 581 272	11 200	51 581 272	11 200	51 581 272	12 300	56 944 876
52 014	4 775	11 011	42 847	11 011	52 316 767	11 011	52 316 767	11 011	52 316 767	11 011	52 316 767	12 075	57 994 876
52 865	4 938	10 836	44 237	10 836	53 022 931	10 836	53 022 931	10 836	53 022 931	10 836	53 022 931	11 856	59 119 492
53 716	5 105	10 675	45 641	10 675	53 700 000	10 675	53 700 000	10 675	53 700 000	10 675	53 700 000	11 642	60 319 492
54 567	5 276	10 528	47 059	10 528	54 350 000	10 528	54 350 000	10 528	54 350 000	10 528	54 350 000	11 442	61 589 492
55 418	5 451	10 395	48 491	10 395	55 000 000	10 395	55 000 000	10 395	55 000 000	10 395	55 000 000	11 255	62 919 492
56 269	5 630	10 276	49 937	10 276	55 650 000	10 276	55 650 000	10 276	55 650 000	10 276	55 650 000	11 081	64 309 492
57 120	5 813	10 171	51 397	10 171	56 300 000	10 171	56 300 000	10 171	56 300 000	10 171	56 300 000	10 919	65 759 492
57 971	6 000	10 079	52 871	10 079	56 950 000	10 079	56 950 000	10 079	56 950 000	10 079	56 950 000	10 769	67 269 492
58 822	6 191	10 000	54 359	10 000	57 600 000	10 000	57 600 000	10 000	57 600 000	10 000	57 600 000	10 631	68 839 492
59 673	6 386	9 934	55 861	9 934	58 250 000	9 934	58 250 000	9 934	58 250 000	9 934	58 250 000	10 505	70 469 492
60 524	6 585	9 881	57 377	9 881	58 900 000	9 881	58 900 000	9 881	58 900 000	9 881	58 900 000	10 391	72 159 492
61 375	6 788	9 841	58 907										