AQUASTORE® (Glass-Fused-to-Steel) TANK CAPACITY CHART
WATER TANKS WITH CONCRETE FLOORS - SHORT-STARTER / MID-STARTER (Cubic Meters)

CST

Model Diameter	# Sheets	Diameter (Meters)	Capacity Per Meter (Cu Meters)	Max Water Height (m) For tanks using max 0.953 cm thick sheets	Max Water Height (m) For tanks using max 1.27 cm thick sheets	6	10	15	19	24	28	33	38	42	47	51	56	61	65	70	74	79	83	88	93	97	102	106	111	116	120	125	129	134	138		
						Actual Sidewall Height (Meters) - Number of Rings - Courses														Actual Sidewall Height (Meters) - Number of Rings - Courses												Actual Sidewall Height (Meters) - Number of Rings - Courses									
						1.68	3.08	4.47	5.87	7.27	8.66	10.06	11.46	12.86	14.25	15.65	17.05	18.44	19.84	21.24	22.63	24.03	25.43	26.82	28.22	29.62	31.01	32.41	33.81	35.21	36.60	38.00	39.40	40.79	41.92		
						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
11	4	3.41	9	19.84	**19.84**	15	28	41	54	66	79	92	105	117	130	143	156	168	181	192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
																				20.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	5	4.26	14	42.18	**42.18**	24	44	64	84	104	123	143	163	183	203	223	243	263	283	303	323	342	362	382	402	422	442	462	482	502	522	542	562	581	597	-	-
																																				-	-
17	6	5.12	21	42.18	**42.18**	35	63	92	121	150	178	207	236	265	293	322	351	380	408	437	466	495	524	552	581	610	638	667	696	725	754	782	811	840	863	-	-
																																				-	-
20	7	5.97	28	42.18	**42.18**	47	86	125	164	203	242	282	321	360	399	438	477	516	555	595	633	673	712	751	790	829	868	907	946	986	1024	1064	1103	1142	1173	-	-
																																				-	-
22	8	6.82	37	42.18	**42.18**	61	113	163	214	266	316	367	419	470	521	572	623	674	725	776	827	878	929	980	1031	1082	1133	1184	1235	1286	1337	1388	1439	1490	1531	-	-
																																				-	-
25	9	7.67	46	37.55	**42.18**	78	142	207	271	336	400	465	530	594	658	723	788	852	917	981	1046	1110	1175	1239	1304	1369	1433	1497	1562	1627	1691	1743	1795	1848	1899	1952	-
																																37.73	38.86	39.99	41.11	42.24	-
28	10	8.53	57	33.79	**42.18**	96	176	255	335	415	495	575	655	735	814	894	974	1054	1134	1214	1293	1373	1453	1533	1613	1693	1772	1852	1932	1981	2046	2110	2174	2239	2303	2368	2432
																														34.67	35.80	36.92	38.05	39.18	40.31	41.44	42.56
31	11	9.38	69	30.72	**41.03**	116	213	309	406	502	598	695	792	889	985	1081	1178	1274	1371	1468	1564	1660	1757	1853	1950	2047	2125	2202	2280	2358	2436	2515	2592	2670	2748	2826	2904
																											30.75	31.87	33.00	34.13	35.26	36.39	37.51	38.64	39.77	40.90	42.03
34	12	10.23	82	28.16	**37.55**	138	253	367	482	598	712	827	942	1057	1171	1286	1401	1516	1631	1746	1860	1975	2090	2204	2319	2390	2483	2576	2668	2761	2854	2947	3039	3132			
																										29.08	30.21	31.34	32.46	33.59	34.72	35.85	36.98	38.11			
36	13	11.08	96	25.99	**34.72**	162	297	431	566	701	835	970	1105	1240	1374	1509	1644	1778	1913	2048	2182	2317	2452	2561	2669	2778	2887	2996	3105	3213	3322	3431					
																								26.56	27.68	28.81	29.94	31.07	32.20	33.32	34.45	35.58					
39	14	11.94	112	24.14	**32.22**	188	345	500	657	814	970	1126	1284	1440	1596	1752	1909	2065	2221	2378	2534	2691	2817	2944	3069	3196	3322	3449	3575	3702							
																							25.16	26.29	27.41	28.54	29.67	30.80	31.93	33.06							
42	15	12.79	128	22.53	**30.08**	216	396	574	754	934	1113	1292	1473	1652	1831	2011	2190	2369	2549	2729	2907	3018	3163	3308	3453	3599	3742	3888									
																						23.49	24.62	25.75	26.88	28.01	29.13	30.26									
45	16	13.64	146	21.12	**28.19**	245	450	653	858	1062	1265	1470	1675	1879	2082	2287	2491	2694	2899	3104	3229	3393	3558	3723	3888	4053	4217										
																					22.10	23.22	24.35	25.48	26.61	27.74	28.86										
48	17	14.49	165	19.88	**26.55**	277	508	737	968	1199	1428	1659	1890	2121	2350	2581	2812	3041	3272	3458	3644	3829	4015	4202	4388												
																				20.97	22.10	23.22	24.35	25.48	26.61												
50	18	15.35	185	18.77	**25.06**	311	570	827	1086	1345	1603	1862	2121	2380	2637	2896	3155	3412	3621	3831	4040	4249	4456	4665													
																			19.57	20.70	21.83	22.96	24.08	25.21													
53	19	16.20	206	17.78	**23.74**	346	635	921	1210	1498	1785	2074	2363	2651	2937	3226	3514	3745	3978	4211	4444	4677	4908														
																		18.17	19.30	20.43	21.56	22.69	23.81														
56	20	17.05	228	16.89	**22.56**	384	703	1021	1340	1660	1977	2297	2617	2936	3253	3573	3893	4089	4345	4603	4861	5119	5377														
																		17.91	19.03	20.16	21.29	22.42	23.55														
59	21	17.90	252	16.09	**21.49**	423	775	1125	1477	1829	2179	2532	2885	3236	3586	3938	4223	4507	4789	5073	5357	5642															
																	16.78	17.91	19.03	20.16	21.29	22.42															
62	22	18.76	276	15.36	**20.51**	464	851	1236	1622	2009	2394	2781	3169	3555	3939	4251	4563	4876	5185	5498	5810																
																15.38	16.51	17.64	18.76	19.89	21.02																
64	23	19.61	302	14.69	**19.60**	507	930	1350	1773	2196	2615	3038	3462	3884	4304	4645	4986	5328	5666	6007																	
																15.38	16.51	17.64	18.76	19.89																	
67	24	20.46	329	14.08	**18.81**	552	1013	1470	1930	2390	2847	3307	3769	4228	4685	4968	5339	5711	6082	6450																	
																15.11	16.24	17.37	18.50	19.62																	
70	25	21.32	357	13.52	**18.04**	600	1100	1596	2096	2595	3092	3591	4092	4591	4991	5394	5797	6201	6604																		
															13.98	15.11	16.24	17.37	18.50																		
73	26	22.17	386	12.99	**17.34**	649	1189	1726	2266	2806	3343	3883	4425	4964	5397	5833	6269	6705																			
															13.98	15.11	16.24	17.37																			
76	27	23.02	416	12.51	**16.70**	699	1282	1860	2443	3026	3604	4187	4771	5240	5706	6176	6646	7117																			
														12.59	13.71	14.84	15.97	17.10																			
78	28	23.87	447	12.07	**16.09**	752	1378	2000	2627	3253	3875	4502	5130	5634	6135	6641	7146	7652																			
														12.59	13.71	14.84	15.97	17.10																			
81	29	24.73	480	11.65	**15.55**	807	1479	2147	2819	3492	4160	4832	5506	6047	6585	7128	7671																				
														12.59	13.71	14.84	15.97																				
84	30	25.58	514	11.26	**15.03**	863	1583	2297	3017	3736	4450	5170	5891	6331	6912	7488	8068																				
														12.32	13.45	14.57	15.70																				
87	31	26.43	549	10.90	**14.54**	922	1690	2452	3220	3988	4751	5519	6139	6759	7379	7993																					
													11.19	12.32	13.45	14.57																					
90	32	27.28	584	10.56	**14.08**	982	1800	2613	3431	4249	5062	5880	6540	7201	7861	8516																					
													11.19	12.32	13.45	14.57																					
92	33	28.14	622	10.24	**13.66**	1045	1915	2780	3651	4521	5386	6256	6959	7662	8365	9061																					
													11.19	12.32	13.45	14.57																					
95	34	28.99	660	9.94	**13.26**	1109	2033	2950	3874	4799	5716	6640	7208	7954	8699	9445																					
													10.92	12.05	13.18	14.31																					
98	35	29.84	699	9.65	**12.89**	1175	2154	3126	4105	5084	6056	6846	7637	8427	9217																						
												9.79	10.92	12.05	13.18																						
101	36	30.69	740	9.39	**12.53**	1243	2278	3307	4342	5378	6406	7242	8078	8914	9750																						
												9.79	10.92	12.05	13.18																						
104	37	31.55	782	9.13	**12.19**	1313	2408	3494	4589	5683	6770	7653	8537	9420	10304																						
												9.79	10.92	12.05	13.18																						
106	38	32.40	824	8.89	**11.86**	1385	2539	3685	4840	5994	7140	8071	9003	9935																							
												9.79	10.92	12.05																							
109	39	33.25	868	8.66	**11.55**	1459	2674	3881	5097	6312	7519	8249	9247	10228																							
												9.50	10.65	11.78																							
112	40	34.11	914	8.45	**11.28**	1535	2814	4085	5364	6643	7913	8699	9732	10764																							
												9.52	10.65	11.78																							
115	41	34.96	960	8.24	**11.00**	1613	2956	4291	5635	6978	8063	9138	10223	11307																							

SPLIT CELL KEY:

1836	**Top number is tank volume in cubic meters with no freeboard allowance**
56.09	**Bottom number is actual sidewall height with 1.12 meter high shell sheets**

GREY CELL KEY:

1836	**Heights and volumes shown in grey cells exceed that allowed in columns 5 & 6**
56.09	**Freeboard allowances must be added**

NOTES:

1. 161 kph wind speed
2. 122.06 kg/m² live snow load
3. Seismic zone 0
4. Specific gravity 1.0 @ STP
5. Structure height limitations dependent upon local soil conditions and construction techniques
6. AWWA Designates AWWA D103-09
7. Model Designation => Model Diameter X Model Sidewall Height
   Example: Model Designation 4228 => 42 ft diameter (12.79 m) X 28 ft height (8.66 m)
8. For steel floor option: Add 0.207 m X Capacity Per Meter (cu meters) to listed capacities

AQUASTORE®

AWWA Seismic 0 Metric

Document #: MI-CT-1300
Copyright 2020
CST Industries, Inc.

AQUASTORE® (Glass-Fused-to-Steel) TANK CAPACITY CHART
WATER TANKS WITH CONCRETE FLOORS - SHORT-STARTER / MID-STARTER (Cubic Meters)

CST

Model Diameter	# Sheets	Diameter (Meters)	Capacity Per Meter (Cu Meters)	Max Water Height (m) For tanks using max 0.953 cm thick sheets	Max Water Height (m) For tanks using max 1.27 cm thick sheets	6	10	15	19	24	28	33	38	42	47	51	56	61	65	70	74	79	83	88	93	97	102	106	111	116	120	125	129	134	138
						Actual Sidewall Height (Meters) - Number of Rings - Courses									Actual Sidewall Height (Meters) - Number of Rings - Courses																						
						1.68	3.08	4.47	5.87	7.27	8.66	10.06	11.46	12.86	14.25	15.65	17.05	18.44	19.84	21.24	22.63	24.03	25.43	26.82	28.22	29.62	31.01	32.41	33.81	35.21	36.60	38.00	39.40	40.79	41.92
						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
115	41	34.96	960	8.24	**11.00**	1613	2956	4291	5635	6978	8.40	9.52	10.65	11.78																						
117	42	35.81	1,007	8.05	**10.73**	1692	3102	4502	5912	7322	8460	9588	10726	11864																						
											8.40	9.52	10.65	11.78																						
120	43	36.66	1,056	7.86	**10.49**	1773	3251	4718	6196	7674	8866	10048	11241																							
											8.40	9.52	10.65																							
123	44	37.52	1,106	7.68	**10.24**	1857	3405	4942	6490	8038	9287	10525	11775																							
											8.40	9.52	10.65																							
126	45	38.37	1,156	7.51	**10.03**	1943	3561	5169	6787	8406	9713	11008	12314																							
											8.40	9.52	10.65																							
129	46	39.22	1,208	7.35	**9.78**	2030	3721	5400	7091	8783	10148	11501	12866																							
											8.40	9.52	10.65																							
131	47	40.08	1,262	7.19	**9.60**	2120	3886	5639	7406	9172	10257	11683	13096																							
											8.13	9.26	10.38																							
134	48	40.93	1,316	7.04	**9.39**	2210	4052	5881	7723	9565	10697	12183	13657																							
											8.13	9.26	10.38																							
137	49	41.78	1,371	6.90	**9.21**	2303	4222	6128	8047	9596	11146	12695																								
										7.00	8.13	9.26																								
140	50	42.63	1,427	6.76	**9.02**	2398	4396	6380	8378	9991	11604	13217																								
										7.00	8.13	9.26																								
143	51	43.49	1,485	6.63	**8.84**	2496	4575	6640	8720	10398	12077	13755																								
										7.00	8.13	9.26																								
145	52	44.37	1,546	6.50	**8.66**	2598	4762	6911	9076	10823	12570	14317																								
										7.00	8.13	9.26																								
148	53	45.19	1,604	6.38	**8.50**	2694	4940	7169	9415	11227	13039	14852																								
										7.00	8.13	9.26																								
151	54	46.04	1,665	6.26	**8.35**	2797	5127	7441	9772	11653	13534	15416																								
										7.00	8.13	9.26																								
154	55	46.90	1,728	6.14	**8.20**	2902	5321	7722	10141	12093	14045	15997																								
										7.00	8.13	9.26																								
157	56	47.75	1,791	6.03	**8.05**	3008	5515	8004	10511	12535	14558																									
										7.00	8.13																									
159	57	48.60	1,855	5.93	**7.89**	3116	5713	8292	10889	12985	15081																									
										7.00	8.13																									
162	58	49.46	1,921	5.83	**7.77**	3228	5917	8588	11278	12930	15101																									
										6.73	7.86																									
171	61	52.01	2,124	5.54	**7.38**	3569	6543	9496	11897	14298	16698																									
									5.60	6.73	7.86																									
179	64	54.57	2,339	5.28	**7.04**	3929	7203	10454	13097	15740	18383																									
									5.60	6.73	7.86																									
187	67	57.13	2,563	5.04	**6.74**	4306	7895	11458	14355	17251	20148																									
									5.60	6.73	7.86																									
193	69	58.84	2,719	4.90	**6.52**	4568	8375	12154	15227	18299																										
									5.60	6.73																										
201	72	61.39	2,960	4.69	**6.25**	4973	9116	13231	16575	19920																										
									5.60	6.73																										
210	75	63.95	3,212	4.51	**6.01**	5396	9893	14357	17986	21616																										
									5.60	6.73																										
218	78	66.51	3,474	4.33	**5.76**	5837	10700	15530	18517	22443																										
									5.33	6.46																										
227	81	69.07	3,747	4.17	**5.55**	6295	11540	15736	19970	24204																										
								4.20	5.33	6.46																										
235	84	71.62	4,029	4.02	**5.36**	6768	12408	16920	21472	26024																										
								4.20	5.33	6.46																										
243	87	74.18	4,322	3.88	**5.18**	7260	13311	18151	23034																											
								4.20	5.33																											

SPLIT CELL KEY:

1836	**Top number is tank volume in cubic meters with no freeboard allowance**
56.09	**Bottom number is actual sidewall height with 1.12 meter high shell sheets**

GREY CELL KEY:

1836	**Heights and volumes shown in grey cells exceed that allowed in columns 5 & 6**
56.09	**Freeboard allowances must be added**

NOTES:

1. 161 kph wind speed
2. 122.06 kg/m² live snow load
3. Seismic zone 0
4. Specific gravity 1.0 @ STP
5. Structure height limitations dependent upon local soil conditions and construction techniques
6. AWWA Designates AWWA D103-09
7. Model Designation => Model Diameter X Model Sidewall Height
   Example: Model Designation 4228 => 42 ft diameter (12.79 m) X 28 ft height (8.66 m)
8. For steel floor option: Add 0.207 m X Capacity Per Meter (cu meters) to listed capacities

AQUASTORE®

AWWA Seismic 0 Metric

Document #: MI-CT-1300
Copyright 2020
CST Industries, Inc.