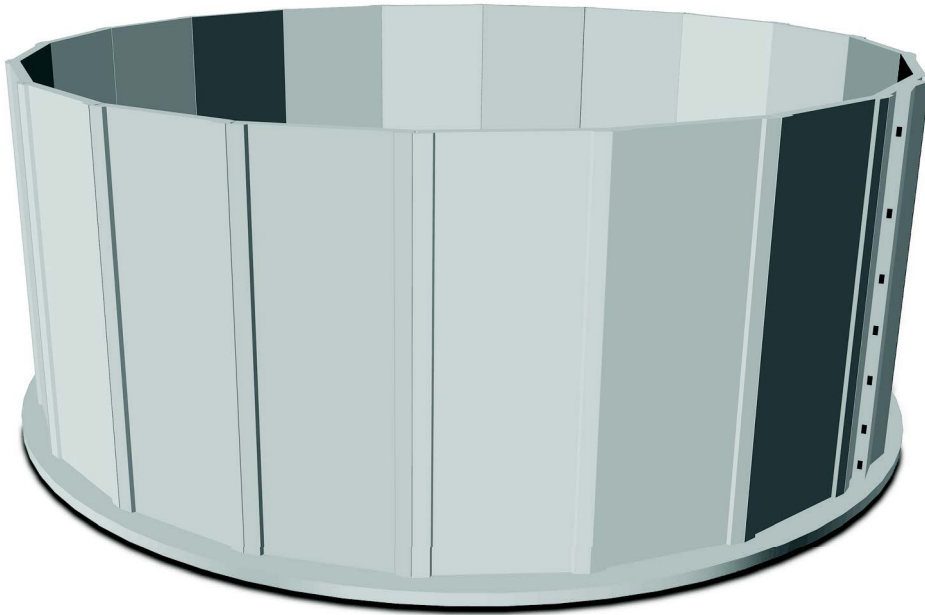


Tank system C14



Adaptable solutions are available for:

- Concrete roof
- Digestion chamber
- PVC tensioned roof
- Openings
- Pipe penetrations
- Manholes
- Traffic lanes
- Concrete channels
- Protective lining
- Anchor rails
- Screw fasteners
- Attachment plates

Tank system C14

The C14 system offers concrete tanks with diameters from 8 to 68 meters and heights up to 14 meters. The tank system has pre- and post-tensioned wall elements, which are mounted on a cast-in-place bottom slab. All deliveries are designed for each specific application. The placement can be above ground, partially backfilled, or underground.

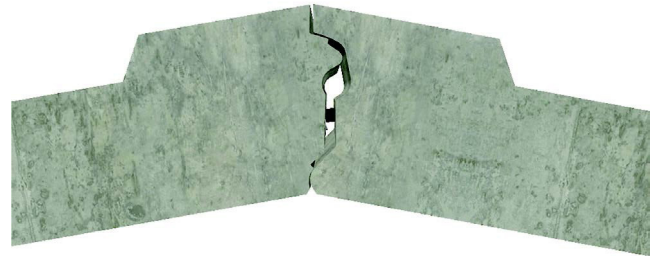
The tank system can also be equipped with a roof structure adapted to the project's needs.

Dimensions

The height can be adjusted continuously up to 14 meters to tailor to the right volume. The minimum and maximum possible diameter corresponds to 11 and 90 elements, respectively. The maximum size combination depends on various load conditions and is determined in consultation with Heidelberg Materials.

10 meters is always the maximum height for prestressed T240. Above that height, T300 elements are used. These can also be used at lower heights than 10 meters for large diameters that T240 does not cover.

Joint design



The vertical joint between the wall sections is injected with our special mortar by pumping it up from the bottom.

Line placement and connection to the bottom slab



The wall sections are cast onto the bottom slab in a watertight system. All cavities around the prestressing tendons are injected with our special mortar for additional protection.



Volume and dimension table

Number of elements	Inner diameter at breakpoints between elements (m)		Volume (m³) of full basin at different heights (m)										
	T240	T300	T240					T300					
			6,0	7,0	8,0	9,0	10,0	10,0	11,0	12,0	13,0	14,0	
11	8,08	7,96	291	340	388	437	485			518	565	612	659
12	8,84	8,71	351	410	469	527	586			626	683	740	797
13	9,59	9,47	417	487	556	626	695			745	813	881	948
14	10,35	10,23	488	570	651	733	814			874	954	1033	1113
15	11,12	10,99	566	660	755	849	943			1014	1106	1198	1290
16	11,88	11,75	648	756	864	972	1081			1163	1269	1375	1480
17	12,65	12,52	736	859	982	1105	1227			1324	1444	1564	1685
18	13,41	13,28	831	969	1107	1246	1384			1493	1629	1765	1900
19	14,18	14,04	930	1085	1240	1395	1550			1673	1825	1977	2130
20	14,94	14,81	1034	1207	1379	1551	1724			1864	2034	2203	2373
21	15,7	15,58	1144	1335	1526	1716	1907			2065	2253	2440	2628
22	16,47	16,34	1260	1470	1680	1890	2100			2276	2483	2690	2897
23	17,23	17,1	1382	1612	1843	2073	2303			2496	2723	2950	3177
24	18	17,87	1510	1761	2013	2265	2516			2727	2975	3223	3471
25	18,77	18,64	1643	1917	2191	2465	2739			2969	3239	3509	3779
26	19,53	19,4	1780	2077	2373	2670	2967			3221	3514	3807	4100
27	20,3	20,17	1924	2245	2565	2886	3206			3482	3798	4115	4431
28	21,06	20,93	2073	2419	2765	3110	3456			3753	4094	4435	4776
29	21,83	21,7	2229	2600	2972	3343	3715			4038	4405	4772	5139
30	22,59	22,47	2388	2786	3184	3582	3980			4330	4724	5117	5511
31	23,37	23,23	2555	2981	3407	3833	4259			4629	5050	5471	5892
32	24,13	24	2726	3180	3635	4089	4543			4943	5392	5842	6291
33	24,89	24,77	2902	3386	3870	4354	4837			5267	5746	6225	6704
34	25,66	25,53	3084	3598	4112	4627	5141			5598	6107	6616	7125
35	26,43	26,29	3275	3821	4366	4912	5458			5939	6479	7019	7559
36	27,2	27,05	3468	4046	4624	5203	5781			6290	6862	7434	8006
37	27,96	27,83	3668	4279	4890	5501	6113			6658	7263	7868	8473
38	28,73	28,59	3873	4518	5163	5809	6454			7030	7669	8308	8947
39	29,5	29,36	4083	4764	5444	6125	6805			7413	8087	8761	9435
40	30,26	30,12	4296	5012	5728	6444	7160			7806	8516	9225	9935
41	31,02	30,89	4518	5271	6024	6777	7530			8210	8956	9703	10449
42	31,79	31,65	4746	5537	6328	7119	7910			8624	9408	10192	10976
43	32,56	32,42	4980	5809	6639	7469	8299			9049	9872	10694	11517
44	33,34	33,19	5219	6089	6959	7828	8698			9484	10347	11209	12071
45	34,09	33,96	5460	6369	7279	8189	9099			9930	10833	11736	12638
46	34,86	34,71	5710	6662	7614	8566	9517			10378	11321	12265	13208
47	35,64	35,5	5967	6962	7956	8951	9945			10854	11841	12827	13814
48	36,4	36,25	6224	7262	8299	9337	10374			11322	12352	13381	14410
49	37,17	37,02	6493	7575	8657	9739	10821			11810	12884	13958	15031
50	37,93	37,8	6761	7888	9015	10141	11268			12309	13428	14547	15666
51	38,7	38,55	7041	8214	9387	10561	11734			12808	13972	15137	16301
52	39,46	39,32	7320	8540	9760	10980	12200			13328	14539	15751	16963
53	40,24	40,1	7611	8880	10148	11417	12686			13858	15118	16378	17638
54	41	40,85	7902	9219	10536	11853	13170			14388	15696	17004	18312
55	41,77	41,63	8205	9572	10940	12307	13675			14940	16298	17656	19014
56	42,53	42,4	8506	9924	11342	12760	14177			15502	16911	18321	19730
57	43,31	43,16	8821	10291	11761	13231	14702			16062	17522	18983	20443
58	44,07	43,94	9134	10656	12178	13701	15223			16646	18159	19673	21186
59	44,85	44,7	9460	11037	12613	14190	15767			17226	18792	20358	21924
60	45,61	45,47	9784	11415	13045	14676		16211		17832	19453	21074	22695
61	46,37	46,23	10113	11799	13485	15170		16757		18432	20108	21784	
62	47,15	47,01	10457	12200	13943	15686		17326		19059	20792	22524	
63	47,91	47,77	10798	12597	14397	16197		17891		19680	21469	23258	
64	48,67	48,53	11144	13001	14858	16716		18465		20311	22157	24004	
65	49,45	49,31	11505	13422	15340	17257		19063		20970	22876	24782	
66	50,21	50,06	11862	13839	15816	17793		19656		21621	23587	25552	
67	50,97	50,84	12225	14263	16300	18338		20274		22301	24329	26356	
68	51,75	51,6	12604	14704	16805		20885		22973		25062	27150	
69	52,51	52,36	12978	15141	17304		21505		23655		25806	27956	
70	53,28	53,14	13357	15583	17810		22152		24367		26583	28798	
71	54,04	53,9	13742	16032	18323		22791		25070		27349		
72	54,82	54,66	14144	16502	18859		23439		25782		28126		
73	55,58	55,45	14540	16964	19387		24115		26527		28939		
74	56,34	56,21	14942	17432	19923		24782		27260		29738		
75	57,13	56,97	15362	17922			25457		28003		30549		
76	57,89	57,75	15775	18404			26164		28780		31396		
77	58,65	58,51	16193	18892			26858		29544		32229		
78	59,41	59,27	16617	19387			27561		30317		33073		
79	60,18	60,06	17047	19888			28297		31127		33957		
80	60,96	60,82	17496	20412			29019		31921		34823		
81	61,73	61,58	17937	20926			29750		32725				
82	62,49	62,34	18383	21447			30491		33540				
83	63,25	63,12	18834				31266		34393				
84	64,01	63,89	19291				32025		35228				
85	64,77	64,65	19754				32793		36072				
86	65,54	65,41	20222				33570		36927				
87	66,3	66,2	20696				34385		37824				
88	67,06	66,96	21175				35182		38700				
89	67,82	67,72	21659				35987		39585				
90	68,59	68,48					36801		40481				