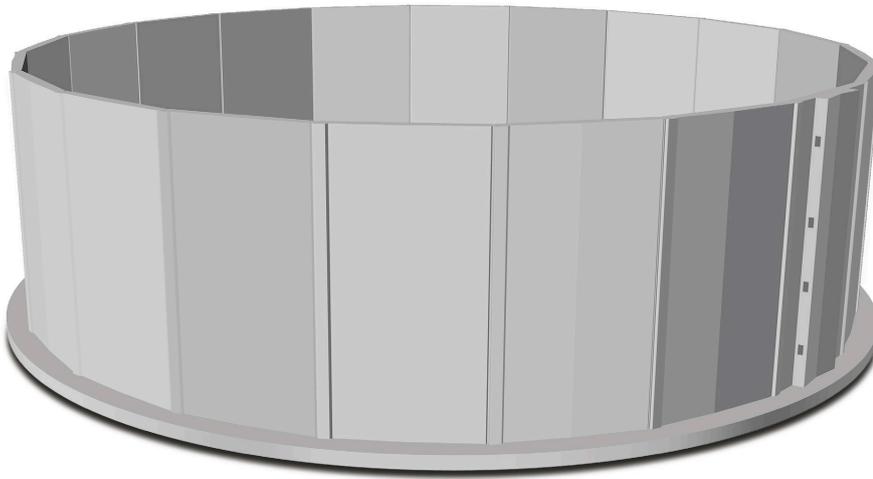


Tank system C8



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 C8

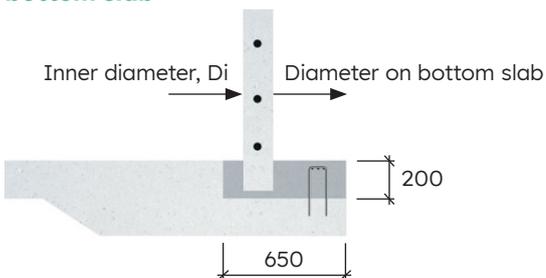
The C8 system offers concrete tanks with diameters from 8 to 44 meters and heights up to 8 meters. The tank system has pre- and post-tensioned wall elements, which are mounted on a cast-in-place bottom slab. All deliveries are designed for each specific application. The placement can be above ground, partially backfilled, or underground.

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

Base materials in the concrete elements

- Concrete strength up to C55/67 according to SS-EN 206-1
- Reinforcement B500BT according to SS-EN 10080
- Pre- and post-tensioned steel strands according to prEN 10138-3
- Sealing profile in EPDM according to EN 681

Cross section of principle solution at connection to bottom slab



Dimensions

The table shows some examples of sizes, but the height can be adjusted continuously. The maximum size depends on various load conditions and is determined in consultation with Heidelberg Materials if larger sizes are desired than what the table shows.

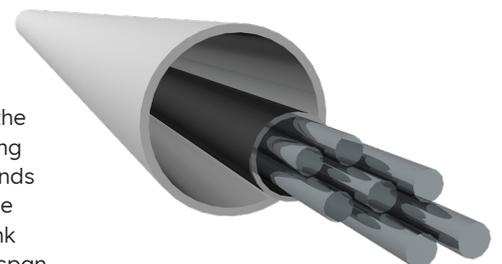
The minimum diameter corresponds to 12 elements regardless of height.

Line placement and connection to the bottom slab

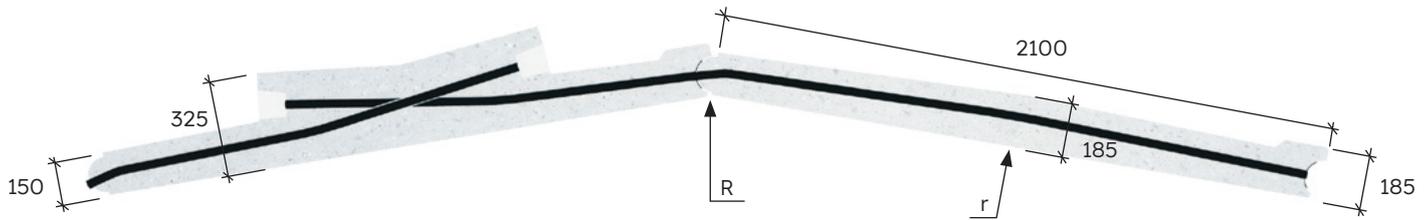


Joint with rubber seal on tank system C8.

The protection of the horizontal tensioning reinforcement strands is maintenance-free throughout the tank system's entire lifespan.



Cross-section of tensioning element and standard element



Volume and dimension table

Volume (m ³) of full basin at different heights (m)				Inner radius, R (mm)	Inner radius, r (mm)	Inner diameter at breakpoint, Di (m)	Number of elements
3,0	4,0	6,0	8,0				
143	191	286	382	3,99	3,85	7,98	12
169	225	338	451	4,32	4,19	8,64	13
197	263	394	526	4,65	4,53	9,30	14
227	303	454	606	4,98	4,87	9,97	15
259	346	519	692	5,31	5,21	10,63	16
294	392	587	783	5,65	5,55	11,29	17
330	440	660	880	5,98	5,89	11,96	18
369	492	737	983	6,31	6,23	12,62	19
409	546	819	1092	6,65	6,56	13,29	20
452	603	904	1206	6,98	6,90	13,96	21
497	663	994	1325	7,31	7,24	14,62	22
544	725	1088	1451	7,64	7,57	15,29	23
593	791	1186	1582	7,98	7,91	15,96	24
644	859	1289	1718	8,31	8,25	16,62	25
698	930	1395	1860	8,65	8,58	17,29	26
753	1004	1506	2008	8,98	8,92	17,96	27
810	1081	1621	2161	9,31	9,25	18,62	28
870	1160	1740		9,65	9,59	19,29	29
932	1242	1864		9,98	9,93	19,96	30
996	1328	1991		10,31	10,26	20,63	31
1062	1416	2123		10,65	10,60	21,30	32
1130	1506			10,98	10,93	21,96	33
1200	1600			11,32	11,27	22,63	34
1272	1696			11,65	11,60	23,30	35
1346	1795			11,98	11,94	23,97	36
1423	1897			12,32	12,27	24,63	37
1502	2002			12,65	12,61	25,30	38
1582	2110			12,99	12,94	25,97	39
1665	2220			13,32	13,28	26,64	40
1750	2333			13,65	13,61	27,31	41
1837	2449			13,99	13,95	27,97	42
1926	2568			14,32	14,28	28,64	43
2017	2690			14,66	14,62	29,31	44
2111	2814			14,99	14,95	29,98	45

