

GLASS-FUSED TANKS

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THE NUMBER OF LINES ABOVE EACH OTHER	1	2	3	4	5	6	7	8	9	10	11	12
HEIGHT [m]	1,51	2,94	4,37	5,80	7,23	8,66	10,09	11,52	12,95	14,38	15,81	17,24

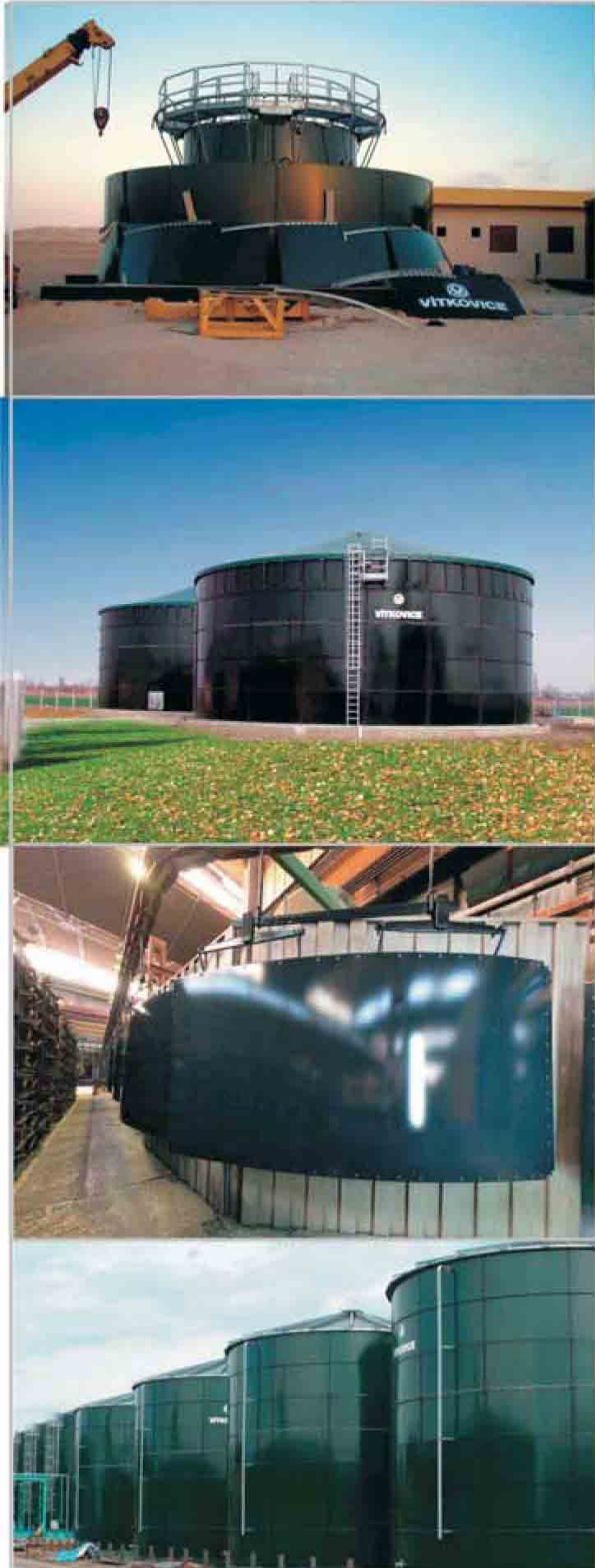
TANK DIAMETER [m]	THE NUMBER OF SHEETS IN A LINE	TANK VOLUME [m ³]											
2,04	5	5	9	14	19	23	28	33	37	42	47	51	56
2,45	6	7	13	20	27	34	40	47	54	61	67	74	81
2,86	7	9	18	28	37	46	55	64	73	83	92	101	110
3,27	8	12	24	36	48	60	72	84	96	108	120	132	144
3,67	9	15	30	45	61	76	91	106	121	136	152	167	182
4,08	10	19	37	56	75	94	112	131	150	168	187	206	225
4,29	5	21	41	62	83	103	124	144	165	186	206	227	248
5,14	6	30	59	89	119	149	178	208	238	267	297	327	356
6,00	7	40	81	121	162	202	243	283	323	364	404	445	485
6,86	8	53	106	158	211	264	317	370	422	475	528	581	634
7,71	9	67	134	201	267	334	401	468	535	602	668	735	802
8,57	10	83	165	248	330	413	495	578	660	743	825	908	990
9,43	11	100	200	300	399	499	599	699	799	899	998	1 098	1 198
10,29	12	119	238	356	475	594	713	832	951	1 069	1 188	1 307	1 426
11,14	13	139	279	418	558	697	837	976	1 116	1 255	1 395	1 534	1 684
12,00	14	162	323	485	647	809	970	1 132	1 294	1 456	1 617	1 785	1 953
12,86	15	186	371	557	743	928	1 114	1 300	1 485	1 671	1 864	2 057	2 249
13,71	16	211	422	634	845	1 056	1 267	1 479	1 690	1 901	2 121	2 340	2 567
14,57	17	238	477	715	954	1 192	1 431	1 669	1 908	2 155	2 403	2 651	2 898
15,43	18	267	535	802	1 069	1 337	1 604	1 871	2 139	2 416	2 694	2 972	3 249
16,29	19	298	596	894	1 192	1 489	1 787	2 085	2 394	2 704	3 013	3 323	3 632
17,14	20	330	660	990	1 320	1 650	1 980	2 310	2 653	2 996	3 339	3 681	4 024
18,00	21	364	728	1 092	1 456	1 819	2 183	2 547	2 925	3 317	3 681	4 059	4 451
18,86	22	399	799	1 198	1 597	1 997	2 396	2 811	3 226	3 640	4 055	4 470	4 885
19,71	23	437	873	1 310	1 746	2 183	2 619	3 072	3 526	3 979	4 432	4 886	
20,57	24	475	951	1 426	1 901	2 376	2 852	3 345	3 839	4 332	4 826	5 320	
21,43	25	516	1 031	1 547	2 063	2 576	3 114	3 650	4 185	4 721	5 256		
22,29	26	558	1 116	1 673	2 231	2 789	3 368	3 948	4 527	5 106	5 685		
23,14	27	602	1 203	1 805	2 406	3 008	3 632	4 257	4 882	5 506	6 131		
24,00	28	647	1 294	1 941	2 588	3 235	3 906	4 578	5 250	5 922			
24,86	29	694	1 388	2 082	2 776	3 470	4 190	4 911	5 632	6 352			
25,71	30	743	1 485	2 228	2 971	3 713	4 484	5 284	6 027	6 798			
26,57	31	793	1 586	2 379	3 172	3 995	4 819	5 642	6 466				
27,43	32	845	1 690	2 535	3 380	4 257	5 135	6 012	6 890				
28,29	33	899	1 797	2 696	3 594	4 528	5 461	6 394	7 327				
29,14	34	954	1 908	2 860	3 816	4 806	5 797	6 787					
30,00	35	1 011	2 022	3 032	4 043	5 093	6 143	7 192					
30,86	36	1 069	2 139	3 208	4 278	5 388	6 499	7 609					
31,71	37	1 130	2 259	3 389	4 519	5 692	6 865	8 038					
32,57	38	1 192	2 383	3 575	4 812	6 049	7 287	8 524					
33,43	39	1 255	2 510	3 765	5 069	6 372	7 675						
34,29	40	1 320	2 640	3 961	5 332	6 703	8 074						
35,14	41	1 387	2 774	4 161	5 602	7 042	8 483						
36,00	42	1 456	2 911	4 367	5 878	7 390	8 901						
36,86	43	1 526	3 051	4 577	6 162	7 746	9 330						
37,71	44	1 597	3 195	4 792	6 451	8 110	9 769						
38,57	45	1 671	3 342	5 013	6 748	8 483	10 218						
39,43	46	1 746	3 492	5 238	7 051	8 864							
40,29	47	1 823	3 646	5 468	7 361	9 254							
41,14	48	1 901	3 802	5 703	7 678	9 652							
42,00	49	1 981	3 962	5 944	8 001	10 135							



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GLASS-FUSED TANKS



Surface bolted tanks made from enamelled (glass fused to steel) sheets have been continuously produced by the Company VÍTKOVICE more than 40 years.

The glass-fused tanks might be used for a storage of fluid or loose materials. The tanks are also a fundamental building element of environmental technological facilities such as waste water treatment plants (WWTP) and biogas stations.

The enamel is a solid, smooth and shiny cover of silicite glass fused to steel. The enamel is fused in a special furnace at a temperature exceeding 800 °C.

The steel rounded (cylindrical) shell of the tank is built from two-layer glass-fused sheets coated on both sides. The sheets are attached with special high-grade bolts and sealed by constantly flexible silicone (sealant). The connecting material and shell accessories are equipped by the surface treatment.

The tanks are designed in accordance with standards EN and ISO.

CHARACTERISTICS OF GLASS FUSED TO STEEL TANKS BY THE COMPANY VÍTKOVICE POWER ENGINEERING A.S.

- competitive service life regarding storage of very aggressive compounds compared to concrete or Komaxit tanks
- verified life time of glass fused to steel tanks is more than 40 years
- high abrasion resistance and chemical resistance (pH 2 - 13) standard
- high variability of construction tank design (diameter, height, piping connection) and placing of technical equipment (pumps, agitators, heating...)
- very quick, safe construction methodology
- potential reconstruction or relocation of the pre-built tank after their service life or purpose expiration, tanks can be easily and cheaply dismantled and ecologically reused
- potential continuous visual checks
- small footprint and low height of a tank
- easy transportation of the tank in its dismantled form
- worldwide installation experience, including many performing under extreme conditions

APPLICATION OPTIONS

loose materials

- limestone
- cement
- fly-ash
- wood waste
- sand and gravels
- granules
- salt
- soot

fluid

- potable water
- waste water
- fire water
- desalted water
- brine
- oil
- amoniak

agriculture

- cereals
- liquid manure
- dung water
- liquid fertilizers
- feed mixture
- silage

others

- tanks for WWTPs
- tanks for Biogas station
- gasholder
- fermenters



ROOF

- self-supporting glass-fused
- plastic
- textile
- with integrated gasholder

AUXILIARY STRUCTURES

- ladders
- platforms
- trafficable bridges
- other technical structures

SEALING

- a glass fused to steel tank can be equipped by thermal insulation covered by a protective trapezoidal sheets

BOTTOM

- an integral watertight concrete slab
- steel welded
- assembled from glass-fused to steel bolted sheets

BONDS

- sheet are connected by special high-grade bolts with a plastic covered head
- all bonds of sheets are sealed by special elastic silicone or polyurethane sealant

ACCESSORIES

- manholes
- pipe
- agitators
- pumps and others

SURFACE COLOURS

Standard colours are:

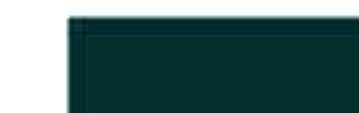
white RAL 9001



blue RAL 5013



green RAL 6009



brown RAL 8017



If a customer requires, any other RAL colour can be provided and tank surface can be highlighted with any text or logo.