

Storth have used their experience of slurry management and market research to develop a range of waste management equipment. Aimed at the modern day farmer, contractor, water, industrial and anaerobic digestion sectors our objective is to provide complete waste management solutions.

Safe Storage Solutions

Specialist Manufacturers of Slurry Application Machinery



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Manufactured in the UK





Internal tank

diameter

Epoxy Coated Steel Tanks Durability & Strength for Safe Storage

Epoxy Fusion (EF) bonding treatment provides a highly resistant coating for steel tank sheets, passing surface quality testing of 1100v & ISO 28765:2022 standards.

The benefits of Epoxy Fusion (EF) steel tanks against previous agricultural grade tanks supplied to the market include higher durability to impact, zero opportunity of coating fracture, a more consistent thickness standard & higher-grade industrial protective coating finish. Suitable for both agricultural & industrial applications, Storth understand that the agricultural sector want a product that meets industrial standards but also provides an economical solution. The agriculture sector deserves the best long term value for money solution as with any other industry. EF tanks perform beyond the initial price tag, they give a long term solution with the capacity for extension and the ability for aftermarket roof application (potential legislation 2027). EF is proven in its exposure of gases with roof application and does not risk fracture with the additional forces from roof installation. Capable of containing liquids with acidity of 2pH to alkalinity of 11pH EF tanks are tested to a high quality standard test of 1100 volts, this exposes any pin hole issues in the surface finish providing zero opportunity for longer term corrosion problems.

In addition to the formations quality standards (ISO 28765:2022) EF steel tank also meet the below standards:

- ISO 28765:2022
- ISO 12944
- WIS 4-25-01
- EEA 7.24
- EEA 7.20
- EEA 7.25
- AWWA D103-09
- NSF®-61-G



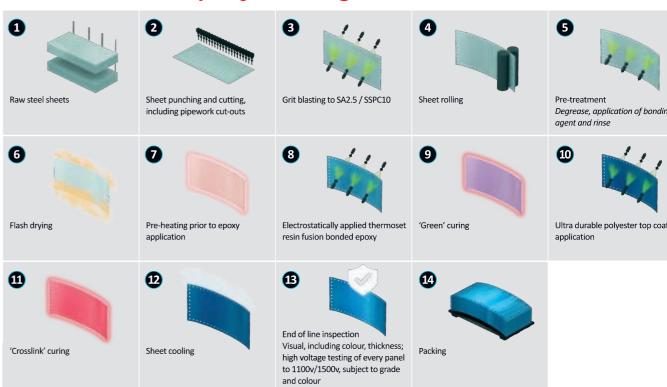
Colour Options





	SURFACE QUALITIES	
QUALITY	EPOXY FUSION (EF)	EPOXY FUSION PLUS (EFP)
APPLICATION	AGRICULTURE & INDUSTRY	INDUSTRY
	Slurry tank Liquid leachate Sludge treatment Industrial effluent Seawater Digesters (Sediment area)	Special application Anaerobic digesters
NUMBER OF COATS	TWO	TWO
pH VALUE	2 to 11	2 to 11
EXTERNAL THICKNESS COATING	min. 100μm to 180μm	min. 150μm to 230μm
INTERNAL COATING THICKNESS	min. 150µm to 250µm	min. 300µm to 650µm
TEST VOLTAGE 1	1100V	1500V

Fusion Bonded Epoxy Coating Process



Storth tanks are typically built with an embedded starter ring, this method of erection allows easy access into the tank after the initial build to clean the inside of the tank or maintain mixing/pumping equipment. Panels can be removed to enable access for personnel or in some cases a skid-steer. This method of erection ensures future proofing, an additional ring can be added to extend the tank by jacking the tank up and inserting a new additional bottom ring. All this can be achieved with the tension cover insitu and without disturbance, reducing cost, risk θ damage to the cover.

Features & Benefits

- Embedded starter ring can remove bottom panel which allows easy access to tank
- Can add more rings above the starter ring for increased storage
- These tanks are built using jacks, meaning there is no need to remove tension cover for extending
- Tanks can be made tension cover ready, rather than retro fitting at a later date
- Easy to replace or repair any damaged sheets
- Variety of sizes and colours to suit any farm



Embedded starter ring Perimeter base seal Anchor rod Levelling plate Structural concrete base slab





Capacity List 3 Ring Tanks – 3.66m (12')

The capacity list shows a selection of the most popular used sizes. Due to the bolted tank system's flexibility, other specific and tailor-made combinations are available on request from our experienced design team.

Technical Details

- Height specification of our standard tank 3.66m (12')
- Sheet sizes 1219mm x 2438mm (48" x 96")
- Net capacity: allows for 150mm (6") concrete base and 300mm (12") freeboard
- Larger tank sizes are available: both in diameter and height
- 2 ring tanks also available
- Tanks are extendable allowing sheets to be added to the tank at a later date if required
- Tension cover available up to a diameter of 39.773m (130')



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Model	Expanded Diameter	Base Area	Sheets Per	Net Capacity	Net Capacity	Gross Capacity	Gross Capacity
	(m (ft))	(m²)	Ring	(m³)	(gls)	(m³)	(gls)
18/12	5.459 (18)	24	7	75	16,498	82	18,037
20/12	6.239 (20)	31	8	98	21,557	108	23,757
23/12	7.019 (23)	39	9	125	27,496	136	29,916
26/12	7.799 (26)	48	10	154	33,875	168	36,955
28/12	8.578 (28)	58	11	186	40,914	204	44,874
31/12	9.358 (31)	69	12	222	48,833	243	53,452
33/12	10.138 (33)	81	13	261	57,412	285	62,691
36/12	10.918 (36)	94	14	302	66,431	330	72,590
38/12	11.698 (38)	108	15	347	76,329	379	83,368
41/12	12.478 (41)	123	16	395	86,888	432	95,027
43/12	13.258 (43)	139	17	446	98,106	487	107,125
46/12	14.037 (46)	155	18	500	109,985	547	120,323
49/12	14.817 (49)	173	19	557	122,523	609	133,961
51/12	15.597 (51)	192	20	618	135,941	675	148,479
54/12	16.377 (54)	211	21	681	149,799	744	163,657
56/12	17.157 (56)	232	22	747	164,317	817	179,715
59/12	17.937 (59)	253	23	817	179,715	893	196,432
61/12	18.717 (61)	276	24	890	195,772	972	213,810
64/12	19.496 (64)	299	25	965	212,270	1055	232,067
67/12	20.276 (67)	323	26	1044	229,648	1141	250,985
69/12	21.056 (69)	349	27	1126	247,685	1230	270,562
72/12	21.836 (72)	375	28	1211	266,382	1323	291,019
74/12	22.616 (74)	402	29	1299	285,740	1420	312,356
77/12	23.396 (77)	430	30	1390	305,757	1519	334,133
79/12	24.176 (79)	460	31	1484	326,434	1622	356,790
82/12	24.955 (82)	490	32	1582	347,991	1729	380,326
84/12	25.735 (84)	521	33	1682	369,988	1838	404,303
87/12	26.515 (87)	553	34	1786	392,865	1951	429,160
90/12	27.295 (90)	586	35	1892	416,181	2068	454,896
92/12	28.075 (92)	620	36	2002	440,378	2188	481,292
95/12	28.855 (95)	654	37	2115	465,234	2311	508,348
97/12	29.635 (97)	690	38	2231	490,751	2438	536,284
100/12	30.415 (100)	727	39	2350	516,927	2568	564,880
102/12	31.194 (102)	765	40	2472	543,763	2701	594,136
105/12	31.974 (105)	803	41	2597	571,259	2838	624,272
107/12	32.754 (107)	843	42	2725	599,416	2978	655,068
110/12	33.534 (110)	884	43	2857	628,451	3122	686,743
113/12	34.314 (113)	925	44	2991	657,927	3269	719,079
115/12	35.094 (115)	968	45	3129	688,283	3419	752,074
118/12	35.874 (118)	1011	46	3269	719,079	3572	785,729
120/12	36.653 (120)	1056	47	3418	751,854	3735	821,584
123/12	37.433 (123)	1101	48	3565	784,189	3895	856,779
125/12	38.213 (125)	1147	49	3715	817,185	4059	892,854
128/12	38.993 (128)	1195	50	3869	851,060	4227	929,809
130/12	39.773 (130)	1243	51	4025	885,375	4398	967,424
133/12	40.553 (133)	1292	52	4184	920,350	4572	1,005,698
136/12	41.333 (136)	1342	53	4347	956,205	4749	1,044,633
138/12	42.112 (138)	1393	54	4512	992,500	4930	1,084,447

Capacity List 4 Ring Tanks – 4.86m (16')

The capacity list shows a selection of the most popular used sizes. Due to the bolted tank system's flexibility, other specific and tailor-made combinations are available on request from our experienced design team.

Technical Details

- Height specification of our standard tank 4.86m (16')
- Sheet sizes 1219mm x 2438mm (48" x 96")
- Net capacity: allows for 150mm (6") concrete base & 300mm (12") freeboard
- Larger tank sizes are available: both in diameter and height
- Tanks are extendable allowing sheets to be added to the tank at a later date if required
- Tension cover available up to a diameter of 39.773m (130')



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Model	Expanded Diameter (m (ft))	Base Area (m²)	Sheets Per Ring	Net Capacity (m³)	Net Capacity (gls)	Gross Capacity (m³)	Gross Capacity (gls)
18/16	5.459 (18)	24	7	103	22,657	110	24,197
20/16	6.239 (20)	31	8	135	29,696	144	31,676
23/16	7.019 (23)	39	9	171	37,615	183	40,254
26/16	7.799 (26)	48	10	211	46,413	226	49,713
28/16	8.578 (28)	58	11	256	56,312	273	60,052
31/16	9.358 (31)	69	12	305	67,091	325	71,490
33/16	10.138 (33)	81	13	358	78,749	382	84,028
36/16	10.918 (36)	94	14	415	91,287	443	97,446
38/16	11.698 (38)	108	15	476	104,705	508	111,744
41/16	12.478 (41)	123	16	542	119,223	579	127,362
43/16	13.258 (43)	139	17	612	134,621	653	143,640
46/16	14.037 (46)	155	18	686	150,899	732	161,017
49/16	14.817 (49)	173	19	764	168,056	816	179,495
51/16	15.597 (51)	192	20	847	186,314	904	198,852
54/16	16.377 (54)	211	21	934	205,451	997	219,309
56/16	17.157 (56)	232	22	1025	225,468	1094	240,646
59/16	17.937 (59)	253	23	1120	246,365	1196	263,083
61/16	18.717 (61)	276	24	1220	268,362	1302	286,400
64/16	19.496 (64)	299	25	1324	291,239	1413	310,816
67/16	20.276 (67)	323	26	1432	314,996	1528	336,113
69/16	21.056 (69)	349	27	1544	339,632	1648	362,509
72/16	21.836 (72)	375	28	1660	365,149	1773	390,005
74/16	22.616 (74)	402	29	1781	391,765	1902	418,381
77/16	23.396 (77)	430	30	1906	419,261	2035	447,637
79/16	24.176 (79)	460	31	2035	447,637	2173	477,993
82/16	24.955 (82)	490	32	2169	477,113	2316	509,448
84/16	25.735 (84)	521	33	2306	507,249	2463	541,784
87/16	26.515 (87)	553	34	2488	547,283	2614	574,999
90/16 92/16	27.295 (90)	586	35	2598 2748	571,479	2773	609,974
95/16	28.075 (92) 28.855 (95)	620 654	36 37	2903	604,475 638,570	2934 3099	645,389 681,684
97/16	29.635 (97)	690	38	3062	673,545	3269	719,079
100/16	30.415 (100)	727	39	3225	709,400	3443	757,353
102/16	31.194 (102)	765	40	3393	746,355	3622	796,728
105/16	31.974 (105)	803	41	3565	784,189	3806	837,202
107/16	32.754 (107)	843	42	3741	822,904	3993	878,336
110/16	33.534 (110)	884	43	3921	862,498	4186	920,790
113/16	34.314 (113)	925	44	4105	902,973	4383	964,124
115/16	35.094 (115)	968	45	4294	944,547	4584	1,008,338
118/16	35.874 (118)	1011	46	4487	987,001	4790	1,053,652
120/16	36.653 (120)	1056	47	4684	1,030,335	5001	1,100,065
123/16	37.433 (123)	1101	48	4886	1,074,769	5216	1,147,358
125/16	38.213 (125)	1147	49	5092	1,120,082	5436	1,195,751
128/16	38.993 (128)	1195	50	5302	1,166,276	5660	1,245,025
130/16	39.773 (130)	1243	51	5516	1,213,349	5888	1,295,177
133/16	40.553 (133)	1292	52	5734	1,261,302	6122	1,346,650
136/16	41.333 (136)	1342	53	5957	1,310,355	6359	1,398,783
138/16	42.112 (138)	1393	54	6184	1,360,288	6602	1,452,235





Capacity List 5 Ring Tanks – 6.06m (20')

The capacity list shows a selection of the most popular used sizes. Due to the bolted tank system's flexibility, other specific and tailor-made combinations are available on request from our experienced design team.

Technical Details

- Height specification of our standard tank 6.06m (20')
- Sheet sizes 1219mm x 2438mm (48" x 96")
- Net capacity: allows for 150mm (6") concrete base and 300mm (12") freeboard
- Larger tank sizes are available: both in diameter and height
- Tanks are extendable allowing sheets to be added to the tank at a later date if required
- Tension cover available up to a diameter of 39.773m (130')



Model	Expanded Diameter (m (ft))	Base Area (m²)	Sheets Per Ring	Net Capacity (m³)	Net Capacity (gls)	Gross Capacity (m³)	Gross Capacity (gls)
18/20	5.459 (18)	24	7	131	28,816	138	30,356
20/20	6.239 (20)	31	8	172	37,835	181	39,814
23/20	7.019 (23)	39	9	218	47,953	229	50,373
26/20	7.799 (26)	48	10	269	59,172	283	62,251
28/20	8.578 (28)	58	11	325	71,490	343	75,449
31/20	9.358 (31)	69	12	387	85,128	408	89,747
33/20	10.138 (33)	81	13	454	99,866	479	105,365
36/20	10.918 (36)	94	14	527	115,924	555	122,083
38/20	11.698 (38)	108	15	605	133,081	637	140,120
41/20	12.478 (41)	123	16	689	151,559	725	159,478
43/20	13.258 (43)	139	17	777	170,916	819	180,155
46/20	14.037 (46)	155	18	872	191,813	918	201,932
49/20	14.817 (49)	173	19	971	213,590	1023	225,028
51/20	15.597 (51) 16.377 (54)	192	20	1076	236,687	1133 1250	249,225
54/20 56/20	17.157 (56)	211 232	21 22	1187 1302	261,103 286,400	1372	274,961 301,797
59/20	17.137 (50)	253	23	1423	313,016	1499	329,734
61/20	18.717 (61)	276	24	1550	340,952	1632	358,989
64/20	19.496 (64)	299	25	1682	369,988	1771	389,565
67/20	20.276 (67)	323	26	1819	400,124	1916	421,461
69/20	21.056 (69)	349	27	1962	431,579	2066	454,456
72/20	21.836 (72)	375	28	2112	464,575	2224	489,211
74/20	22.616 (74)	402	29	2265	498,230	2386	524,846
77/20	23.396 (77)	430	30	2424	533,205	2553	561,581
79/20	24.176 (79)	460	31	2588	569,280	2726	599,635
82/20	24.955 (82)	490	32	2758	606,675	2905	639,010
84/20	25.735 (84)	521	33	2933	645,169	3089	679,484
87/20	26.515 (87)	553	34	3114	684,983	3279	721,278
90/20	27.295 (90)	586	35	3300	725,898	3475	764,392
92/20	28.075 (92)	620	36	3491	767,912	3677	808,826
95/20	28.855 (95)	654	37	3688	811,246	3884	854,360
97/20	29.635 (97)	690	38	3890	855,679	4097	901,213
100/20	30.415 (100)	727	39	4097	901,213	4315	949,166
102/20	31.194 (102)	765	40	4310	948,066	4539	998,439
105/20	31.974 (105)	803	41	4528	996,020	4769	1,049,032
107/20	32.754 (107)	843	42	4752	1,045,293	5005	1,100,945
110/20	33.534 (110)	884	43	4981	1,095,666	5246	1,153,957
113/20	34.314 (113)	925	44	5215	1,147,138	5493	1,208,290
115/20	35.094 (115)	968	45	5455	1,199,931	5745	1,263,722
118/20	35.874 (118)	1011	46	5700	1,253,823	6003	1,320,474
120/20	36.653 (120)	1056	47	5951	1,309,036	6267	1,378,546
123/20	37.433 (123)	1101	48	6207	1,365,348	6537	1,437,937
125/20	38.213 (125)	1147	49	6468	1,422,759	6812	1,498,429
128/20	38.993 (128) 39.773 (130)	1195	50 51	6735	1,481,491	7093	1,560,240
130/20	39.773 (130)	1243	51	7007	1,541,323	7379	1,623,151

Capacity List 6 Ring Tanks – 7.26m (24')

The capacity list shows a selection of the most popular used sizes. Due to the bolted tank system's flexibility, other specific and tailor-made combinations are available on request from our experienced design team.

Technical Details

- Height specification of our standard tank 7.26m (24')
- Sheet sizes 1219mm x 2438mm (48" x 96")
- Net capacity: allows for 150mm (6") concrete base and 300mm (12") freeboard
- Larger tank sizes are available: both in diameter and height
- Tanks are extendable allowing sheets to be added to the tank at a later date if required
- Tension cover available up to a diameter of 39.773m (130')



	Expanded	Base	Sheets	Net	Net	Gross	Gross
Model	Diameter (m (ft))	Area (m²)	Per Ring	Capacity (m³)	Capacity (gls)	Capacity (m³)	Capacity (gls)
18/24	5.459 (18)	24	7	159	34,975	167	36,735
20/24	6.239 (20)	31	8	208	45,754	218	47,953
23/24	7.019 (23)	39	9	264	58,072	276	60,711
26/24	7.799 (26)	48	10	326	71,710	340	74,789
28/24	8.578 (28)	58	11	395	86,888	412	90,627
31/24	9.358 (31)	69	12	470	103,385	490	107,785
33/24	10.138 (33)	81	13	551	121,203	575	126,482
36/24	10.918 (36)	94	14	639	140,560	667	146,719
38/24	11.698 (38)	108	15	734	161,457	766	168,496
41/24	12.478 (41)	123 139	16	835	183,674	872	191,813
43/24 46/24	13.258 (43) 14.037 (46)	159	17 18	943 1057	207,431 232,507	984 1104	216,449 242,846
49/24	14.037 (40)	173	19	1178	259,123	1230	270,562
51/24	15.597 (51)	192	20	1305	287,060	1363	299,818
54/24	16.377 (54)	211	21	1439	316,535	1502	330,393
56/24	17.157 (56)	232	22	1580	347,551	1649	362,729
59/24	17.937 (59)	253	23	1728	380,106	1804	396,824
61/24	18.717 (61)	276	24	1881	413,762	1964	432,019
64/24	19.496 (64)	299	25	2042	449,177	2131	468,754
67/24	20.276 (67)	323	26	2208	485,692	2305	507,029
69/24	21.056 (69)	349	27	2381	523,746	2486	546,843
72/24	21.836 (72)	375	28	2561	563,341	2673	587,977
74/24	22.616 (74)	402	29	2747	604,255	2868	630,871
77/24	23.396 (77)	430	30	2940	646,709	3069	675,085
79/24	24.176 (79)	460	31	3139	690,483	3277	720,838
82/24	24.955 (82)	490	32	3345	735,796	3492	768,132
84/24	25.735 (84)	521	33	3558	782,650	3714	816,965
87/24	26.515 (87)	553	34	3776	830,603	3942	867,118
90/24	27.295 (90)	586	35	4002	880,316	4177	918,811
92/24	28.075 (92)	620	36	4234	931,349	4420	972,263
95/24	28.855 (95)	654	37	4472	983,701	4669	1,027,035
97/24	29.635 (97)	690	38	4717	1,037,594	4924	1,083,127
100/24	30.415 (100)	727	39	4969	1,093,026	5187	1,140,979
102/24	31.194 (102)	765	40	5227	1,149,778	5456	1,200,151
105/24	31.974 (105)	803	41	5492	1,208,070	5733	1,261,082
107/24 110/24	32.754 (107) 33.534 (110)	843 884	42	5763	1,267,681	6016	1,323,334
113/24	34.314 (113)	925	44	6041 6325	1,328,833 1,391,304	6306 6602	1,387,125
115/24	35.094 (115)	968	45	6616	1,455,315	6906	1,452,235 1,519,106
118/24	35.874 (118)	1011	46	6913	1,520,646	7216	1,519,100
120/24	36.653 (120)	1056	47	7217	1,587,516	7533	1,657,026
123/24	37.433 (123)	1101	48	7528	1,655,927	7857	1,728,296
125/24	38.213 (125)	1147	49	7845	1,725,657	8188	1,801,106
128/24	38.993 (128)	1195	50	8168	1,796,707	8526	1,875,456
130/24	39.773 (130)	1243	51	8498	1,869,297	8870	1,951,125





Typical Base & Erection of a Storth Slurry Tank



Marking out the slurry store on a prepared stoned site.



Digging out the ring beam foundations of the slurry store.



Concreting the ring beam and placing the rag bolts in the concrete.

Jack Built



Building the starter sheets to the concreted ring beam then pour the concrete floor. (Starter sheet is 150mm).



The complete top ring is built above the starter sheets at floor level and then jacked up.



Building the starter sheet to the concrete ring beam then pour the concrete floor. (Starter sheet is 150mm).



Fix the bottom ring of sheets to the starter sheets (bottom sheet measures 1220mm - 150mm). Please note, example picture should



The next ring (second down) is now inserted using mastic on sheet edges and bolts, repeat this process until all rings have been built.



It's now time to add in the final ring. (bottom sheet measures 1220mm - 150mm)



Bottom ring complete, internal scaffolding erected in preparation for further rings.



Installing the sheets to the slurry store applying mastic to sheet edges and bolts.



Installation of pole & straps have been attached to the centre support pole ready for the cover to be fitted, these are then pulled off once cover is in place.



Tension cover has now been placed on top of the centre support pole, folded out and attached to the side of the tank with straps and stainless steel tensioners.



Slurry store has now been built along with one of our tension covers.



Top angle and wind stiffeners attached with ancillary equipment to produce a completed Storth slurry store.

Tank Covers

Tension Covers

Covers for overground slurry stores increase the actual slurry storage of the tank by one-fifth by keeping the rain out. It keeps in nitrogen that could otherwise be lost to the environment through wind erosion and reduces the cost of spreading rainwater normally collected by the tank.

Our slurry store covers are made from reinforced, dung resistant, PVC coated, polyester industrial fabric, tried and tested throughout Europe.

The cover has a centre support pole, and is attached to the side of the tank with straps and stainless steel tensioners. The cover has gas vents. Rainwater is shed from the surface.

Our cover is a solution for UK Best Available Technique (BAT), a Government scheme aiming to prevent or reduce emissions and impacts on the environment.

Enables end-user to comply with the environmental permit for intensive farming. Environment agencies recommend that all slurry stores are now covered.

- Diameter up to 39.773m (130') available.
- Central column is made from tropical hard wood, bolted to the floor via a stainless steel base.
- Reduction of gas and ammonia emissions by over 95%.
- Retention of nitrogen content of liquid manure.
- Prevention of water infiltration, meaning full storage capacity is maintained.
- Available in black, green or grey.
- Minimum expected service life of 15 years.

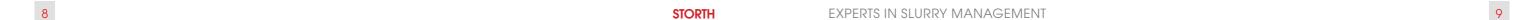
Colour Options













Trough Deck Roof

The trough deck roof is a simple solution for preventing rainwater and keeping in nitrogen that could otherwise be lost to the environment, thus reducing the cost of spreading rainwater normally collected by the tank.

They are constructed using plastisol coated aluzinc profiled roof panels, supported by a free-spanning fabricated galvanised substructure. A trough deck roof is easy to install and can be engineered to suit a range of sizes.





System Advantages

- Reduction of gas and ammonia emissions by over 95%.
- Retention of nitrogen content of liquid manure.
- Prevention of water infiltration, meaning full storage capacity is maintained.
- Better suited cover for customers with height restrictions & exposed to adverse weather conditions.

Technical Details

- Standard hatch size is: 800mm x 800mm
- Available in green or grey.
- Plastisol coated aluzinc profiled roof panels.
- Free-spanning fabricated galvanised substructure.
- Max diameter 21.836m.





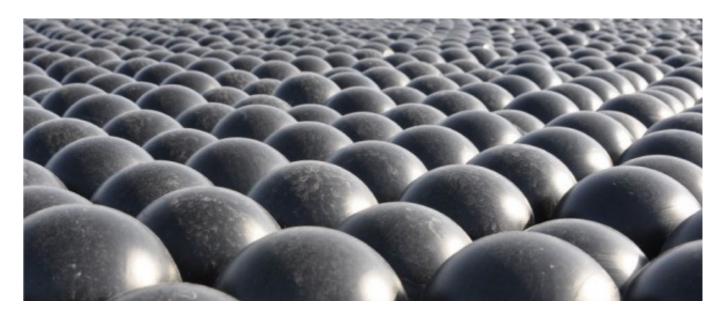


Spheres are designed to be used as a floating cover for slurry lagoons and slurry stores. They are self-adjusting so can adapt to fit your lagoon/store requirements and give free access to the slurry anywhere. Spheres create a floating cover which reduces nitrogen emissions into the atmosphere by up to 90% as well as controlling odours.

Key Features

- 100mm HDPE diameter floating balls filled with 250g water
- Coverage of any liquid surface, up to 92%
- Full permeability to rain, hail, snow & frost
- Automatic distribution on liquid surfaces
- 25 to 30 years' lifespan
- Withstands winds up to 190km/h





System Advantages

- Harmful emissions reduction, up to 90%
- Odour reduction
- Self-adjust to liquid level by spreading & stacking
- Suitable for all slurry storage shapes & dimensions
- Free access to the slurry
- Simple & quick machinery-free installation
- Aeration system compatible

Technical Data

Construction	Hollow sphere with weight inside
Diameter	100mm
Weight	250gr
Quality per m ²	113
m²/Big Bag	12m²
Big Bag	90x90x130 - 340kg
Wind Resistant	190km/h



Manufactured in HDPE, EU approved material for water contact.

Its inner water adds weight to the structure.

Its unique design enables spheres to cover up to 92% of any liquid surface.





Inspecting the Tank

Platforms & Ladder Kits

- ✓ Manufactured to British Standard 5502
- ✓ Fully galvanised
- ✓ Removable lower ladder for safety
- ✓ Upper ladder c/w safety cage
- ✓ 660mm (26") x 600mm (24") access hatch
- ✓ Fully bound galvanised steel walkway 1m x 2m c/w handrails
- ✓ Jetter kit location fixings
- ✓ Available for steel or concrete tanks





Manways

- 600mm (24") Galvanised Manway
- 800mm (31") Galvanised Manway
- Service Access for Inside Tank



Manway to Hold 600mm (24") or 650mm (26") Propellor Tank Wall Mixer

• Service access for inside tank & mixer propeller





Removing a Panel for Inspection

Storth Epoxy tanks are typically built with an embedded starter ring, this method of erection allows easy access into the tank after the initial build to clean or maintain mixing/pumping equipment. Panels can be removed to enable access for personnel or in some cases a skid-steer. Unlike concrete stores, inspection is easily carried out and is much more serviceable.

Filling the Tank

Filler Kit

- 152mm (6") Pressure Pipe Filler Kit (5m)
- Available with 5" or 6" Bauer F, RSR connection at 45° to tank
- Galvanised fixing brackets & Bauer Connection
- Cut to length on Site



Standard Jetter Kit (No Flexi)

127mm (5") Standard Jetter Kit

127mm (5") Standard Jetter Kit with Detachable Nozzle

Fully Galvanised

5" Bauer F, RSR Connection

Optional 3m Extension c/w Bauer Fittings

Not Suitable for Umbilical Pumps





Heavy Duty Jetter Kit

102mm (4") HD Jetter Kit

102mm (4") HD Jetter Kit with Detachable Nozzle

Fully galvanised

4" Bauer F, RSR Connection

Suitable for Umbilical Pumps



Standard Under Cover Jetter Kit

125mm (5") Folding Jetter Kit for Slurry Store with Tension Cover

Fully Galvanised

5" Bauer F, RSR Connection





Underground Tank Pipe Kits

152mm (6") PVC Pipe Kit c/w 127mm (5") Bauer F, RSR Inlet Connection

Available in:

10mm, 25mm, 50mm, 75mm, 100mm, 125mm, 150mm, 175mm & 200mm







Mixing the Tank

Tank Wall Mixer

- Available for steel or concrete tanks
- Fully galvanised
- 540 RPM PTO or 22kW Electric drive
- 45-52kW (60-70hp) -600mm (24") prop
- 1,200m³ (260,400 gal) mixing capacity (Max tank Ø 15m (50°))
- 75-90kW (100-120hp) 650mm prop
- 1,365m³ (300,000 gal) mixing capacity (Max tank Ø 21m (70'))
- Fixed installation

Tank Master Mixer

- Available for steel or concrete tanks
- Fully galvanised
- 540 RPM PTO drive
- 60-75kW (80-100hp) 600 mm prop
- (660,000 gal) mixing capacity from one position
- Models from 2.1m (7') to 7.0m (23') high
- Tractor mounted, mobile



Harrier Tank Wall Mixer

- Available for steel tanks
- Fully galvanised
- 1000 RPM PTO drive
- 120 150kW (160 - 200hp)
- 4,545m³ (1,000,000 gal) mixing capacity from one position
- Twin jetters for crust & lower tank sediment
- Fixed installation



Hawk Tank Mixer

- Available for steel or concrete tanks
- Fully galvanised
- 1000 RPM PTO drive
- 120 150kW (160 200hp)
- 8,000m³ (1,760,000 gal) mixing capacity from one position
- Twin jetters for crust & lower tank sediment
- Tractor mounted, mobile



Kite Mixer

- Steel or concrete tanks
- Lagoons or under slats
- Fully galvanised
- Hydraulic drive (3/4")
- Minimum 100 l/min, Maximum 190 l/min
- 900mm prop
- 3,000m³ (660,000 gal) mixing capacity from one position
- Standard pallet-tine mounting
- Optional universal telehandler framework
- U-Bolt brackets to suit handler
- Optional excavator framework and brackets



Slurry Aeration System

Storth's Slurry Aeration System is an extremely cost-effective and environmentally friendly method of keeping slurry in a uniform, consistent and pumpable state, whilst capturing the Ammonium Nitrogen content in the slurry. Ammonium Nitrogen in your slurry store can be increased by between 100% to 400%. This system has the capability to produce better slurry, increased grass yield and reduces the requirement for artificial fertilisers.





The system works on a low-pressure, high-volume basis, with our robust, energy-efficient pump and drive unit supplying air via the manifold banks to negative buoyancy diffusers. The unique diffusers require no internal fixing and there is no requirement for the slurry store to be emptied to install Storth's Slurry Aeration Systems. Each diffuser is fed air for a set period of time, with the rising fine air bubbles mixing and aerating the slurry to create a vastly beneficial aerobic environment with no need for further agitation. Fine bubbles need less energy to create, while providing a much greater surface area for oxygen transfer to occur. Air is provided by compressors and can be supplied to suit a single or 3 phase supply.







Slurry Aeration (Slurry Mixing)

- Mix and prevent crusting
- Plant friendly fertiliser
- Fully automatic system
- Low operating costs
- Minimal maintenance
- Easy to install
- Uniform slurry 24/7, 365 days a year
- No internal tank fixings
- Savings in fuel, labour & fertilisers
- No need for an empty tank to install

Slurry Aeration (Separated Slurry)

In addition to 'slurry mixing' benefits....

- Captures more lost Nitrogen
- Enhance grass growth
- Reduce odours
- Eliminate lethal and toxic gas
- 70% Increase in ammonia nitrogen
- 45% Increase in nitrogen
- 40% Reduction in methane





Emptying the Tank

Two & Three Way Umbilical & Tanker Connections

Manufactured to British Standard 5502

Fully galvanised

Available as 6" or 8"

Elephant trunk inside tank

Two way - 2 x 6" gate valves 1m apart

Three way - 3 x 6" gate valves 1m apart.

Drain - dump valve to support external tank

Shrowded air inlet manifold c/w manual tap

Bauer F, RSR connection

Available for concrete as well as steel tanks

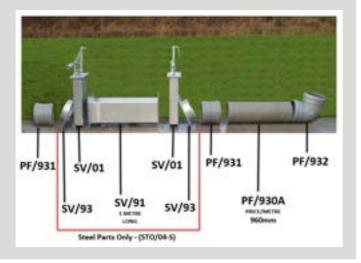


Sluice Valve Kit

Diameter 300mm (12")

- ✓ Fully galvanised outer casings
- ✓ Stainless steel inner gate paddles
- ✓ Lubricated handle shafts for easy operation





Portable Docking Stations

150mm (6") or 204mm (8") models available

Fully galvanised

Bauer F, RSR store connection & drain

12V guillotine valves, electric actuators

Rubber docking connection

Supplied wtih battery & 1 x remote control

Standard female A-frame mounting

Optional extra remote controls

Recirculation Pump

150mm (6") Recirculation Pump

Fully galvanised

Must have positive head feed

6" Bauer F, RSR inlet

6" Bauer M, LCR outlet

540RPM

Capacity 4.5m³/min (1,000gal)



Precast Concrete Tanks

Storth have a range of solid and slatted top tanks to suit a wide range of applications for the dairy and dry stock farming community. Tanks range from a 36m³ (8,000 gal) storage tank down to the 2m³ (440 gal) spill tank. Slatted tanks are ideal for use in collection yards and as reception tanks for larger slurry stores and are available with access hatches.

- Steel-reinforced C55/67(67N) concrete
- Fully tested at factory
- Core prior to delivery (as specified)
- Slatted or solid top
- Access hatch size options:
- 1400mm x 850mm
- 900mm x 600mm
- 600mm x 600mm
- Short delivery and installation times
- Suitable for wheel load up to 5.8 tonnes
- 15-year structural guarantee





23m³ (5,000 gal) Solid top tank



23m³ (5,000 gal) Slatted top tank



2m³ (440 gal) Spill tank

Capacity (m³)	Capacity (gal)	Shape	Lid Type	Weight (Kg)	Carry Weight (Kg)
36	8000	Rectangular	Slatted or Solid	25,340	4,000 or 5,850
23	5000	Elliptical	Slatted or Solid	17,000	4,000 or 5,850
15.9	3500	Round	Slatted or Solid	10,350	4,000 or 5,850
2	440	Round	Solid	1,000	







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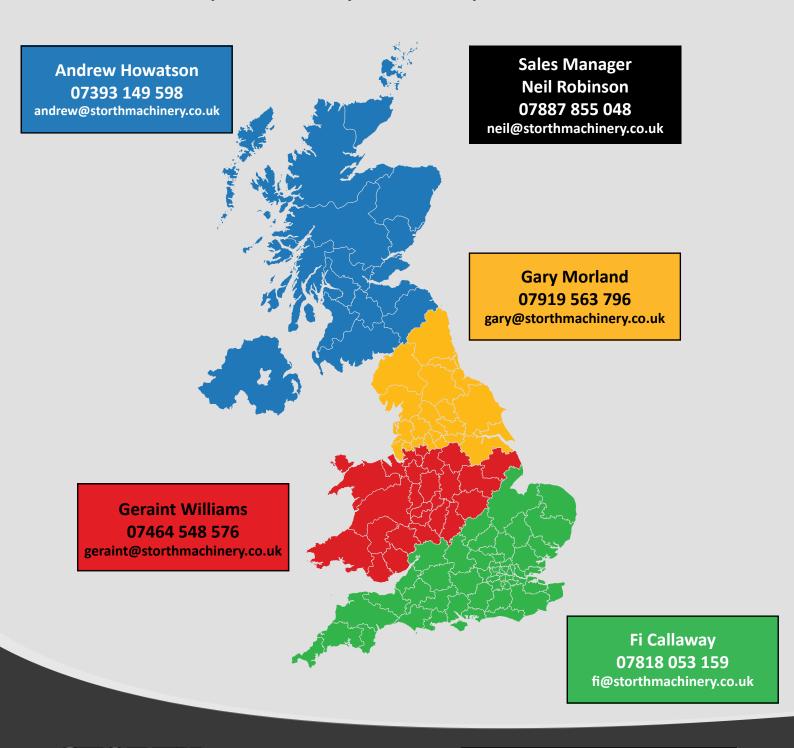


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For additional information and advice please contact your Storth representative





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