



FINE TOUCH
STEEL STORAGE



Fine Touch Steel is a leading provider in the manufacturing of water storage solutions, specializing in a wide range of products including Zoincalume water storage tank, GFS/GLS (Glass-Fused-to-Steel/Glass-Lined Steel) tanks, and Grain storage silos with material handling equipment. With a commitment to quality, innovation, and customer satisfaction, Fine Touch Steel offers comprehensive solutions for various industrial and agricultural applications. Our water storage tank liners are engineered with precision and durability, ensuring reliable protection for stored liquids against corrosion and contamination. Additionally, our GFS tanks feature a unique glass enamel coating fused to steel, providing exceptional resistance to harsh environments and facilitating rapid installation and long-term performance. Moreover, our Grain storage silos are designed for efficient storage of bulk materials, incorporating advanced features such as flat bottom or hopper bottom designs to meet diverse requirements. With a focus on quality craftsmanship, technological advancement, and customer-centric solutions, Fine Touch Steel provides reliable and cost-effective water storage solutions for our valued clients worldwide.



ZINCALUME STEEL TANKS



Capacity Start From - 5 KL - 5000 KL

Zincalume steel tanks represent a sophisticated engineering solution for various industrial and commercial storage needs. These tanks are constructed using a combination of zinc, aluminum, and silicon-coated steel, resulting in superior corrosion resistance and durability. The zincalume coating provides an effective barrier against rust and corrosion, even in harsh environments such as coastal regions or areas with high humidity. Additionally, the aluminum content enhances the tanks' strength-to-weight ratio, making them lighter and easier to handle during installation. The silicon component further contributes to the alloy's robustness, ensuring long-term performance without compromising structural integrity. Overall, zincalume steel tanks offer a reliable and cost effective solution for storing liquids such as water, chemicals, or petroleum products, meeting the demanding requirements of various industries while ensuring longevity and reliability.



Liners play a crucial role in water storage tanks, providing an additional barrier between the stored water and the tank's structural material. Typically made of materials like polyethylene, polypropylene, or reinforced rubber, these liners are engineered to resist corrosion, UV degradation, and microbial growth, ensuring the quality and safety of the stored water. The selection of liner material depends on factors such as the type of water being stored, environmental conditions, and intended usage. Polyethylene liners are popular for their flexibility, ease of installation, and resistance to chemicals, making them suitable for various applications, including potable water storage and wastewater treatment. Polypropylene liners offer enhanced chemical resistance and durability, making them ideal for storing aggressive liquids or in industrial settings. Reinforced rubber liners provide excellent strength and puncture resistance, making them suitable for large-scale water storage tanks in challenging environments. Overall, the choice of liner material is critical to ensuring the longevity, safety, and performance of water storage tanks, meeting regulatory standards and operational requirements.

ARTIFICIAL LAKE



Zincalume Tanks Volume Chart

NO OF RING	DIA ->	ZA02	ZA03	ZA04	ZA05	ZA06	ZA07	ZA08	ZA09	ZA10	ZA11	ZA12	ZA13
R1	1.12	2.98	6.75	11.97	18.68	26.89	36.69	47.89	60.57	74.90	90.58	107.74	126.60
R2	2.08	5.53	12.53	22.23	34.70	49.93	68.14	88.93	112.48	139.10	168.22	200.09	235.12
R3	3.03	8.05	18.25	32.39	50.55	72.74	99.26	129.55	163.86	202.64	245.04	291.48	342.51
R4	4.00	10.63	24.09	42.75	66.73	96.02	131.04	171.02	216.31	267.51	323.49	384.79	452.16
R5	4.95	13.16	29.81	52.91	82.58	118.83	162.16	211.64	267.69	331.04	400.32	476.18	559.55
R6	5.90	15.68	35.54	63.06	98.43	141.64	193.28	252.25	319.06	394.57	477.15	567.57	666.94
R7	6.87	18.26	41.38	73.43	114.61	164.92	225.06	293.72	371.52	459.44	555.60	660.88	776.58
R8	7.82	20.78	47.10	83.59	130.46	187.73	256.18	334.34	422.90	522.97	632.42	752.27	883.97
R9	8.80	23.39	53.00	94.06	146.81	211.25	288.28	376.24	475.89	588.51	711.68	846.54	994.75
R10	9.76	25.94	58.79	104.32	162.83	234.30	319.73	417.28	527.81	652.71	789.32	938.89	1103.27

NO OF RING	DIA ->	ZA14	ZA15	ZA16	ZA17	ZA18	ZA19	ZA20	ZA21	ZA22	ZA23	ZA24	ZA25
R1	1.12	146.76	168.41	191.80	216.44	242.56	270.18	299.28	329.87	361.95	395.52	431.74	468.34
R2	2.08	272.56	312.76	356.20	401.96	450.48	501.76	555.81	612.62	672.20	734.54	801.81	869.77
R3	3.03	397.04	455.60	518.89	585.54	656.22	730.93	809.66	892.42	979.21	1070.02	1168.02	1267.02
R4	4.00	524.15	601.45	685.00	772.99	866.30	964.92	1068.86	1178.12	1292.69	1412.57	1541.95	1672.64
R5	4.95	648.63	744.30	847.69	956.58	1072.05	1194.09	1322.72	1457.92	1599.70	1748.06	1908.16	2069.89
R6	5.90	773.12	887.14	1010.38	1140.16	1277.79	1423.26	1576.57	1737.72	1906.71	2083.55	2274.37	2467.14
R7	6.87	900.23	1033.00	1176.49	1327.62	1487.87	1657.26	1835.77	2023.42	2220.19	2426.09	2648.29	2872.75
R8	7.82	1024.71	1175.84	1339.18	1511.20	1693.62	1886.43	2089.63	2303.22	2527.21	2761.58	3014.50	3270.00
R9	8.80	1153.13	1323.20	1507.00	1700.58	1905.86	2122.83	2351.50	2591.86	2843.91	3107.66	3392.28	3679.80
R10	9.76	1278.92	1467.55	1671.40	1886.10	2113.77	2354.42	2608.03	2874.61	3154.16	3446.68	3762.35	4081.23

NO OF RING	DIA ->	ZA26	ZA27	ZA28
R1	1.12	506.42	545.11	587.50
R2	2.08	940.49	1012.35	1091.07
R3	3.03	1370.04	1474.72	1589.40
R4	4.00	1808.64	1946.83	2098.22
R5	4.95	2238.19	2409.20	2596.55
R6	5.90	2667.74	2871.58	3094.87
R7	6.87	3106.34	3343.68	3603.69
R8	7.82	3535.89	3806.06	4102.02
R9	8.80	3979.01	4283.03	4616.08
R10	9.76	4413.08	4750.27	5119.65



GLS (Glass-Lined Steel) tanks and GFS (Glass-Fused-to-Steel) tanks are two distinct types of storage solutions with unique characteristics. GLS tanks are constructed by coating steel panels with a layer of glass enamel, which is then fused to the steel substrate at high temperatures, creating a durable and chemically inert barrier. This glass lining offers exceptional resistance to corrosion, abrasion, and UV degradation, making GLS tanks suitable for storing various liquids, including potable water, wastewater, and chemicals. On the other hand, GFS tanks are fabricated by fusing glass enamel to the steel substrate at temperatures exceeding 850°C, resulting in a highly durable, non-porous, and hygienic surface. Unlike GLS tanks, GFS tanks do not require an additional sealing layer, as the glass enamel provides inherent corrosion resistance and structural integrity. GFS tanks are favored for their rapid installation, low maintenance requirements, and long service life, making them ideal for applications such as water treatment, anaerobic digestion, and biogas storage. While both GLS and GFS tanks offer superior corrosion resistance and durability, the choice between them often depends on factors such as the specific application requirements, budget considerations, and site conditions.



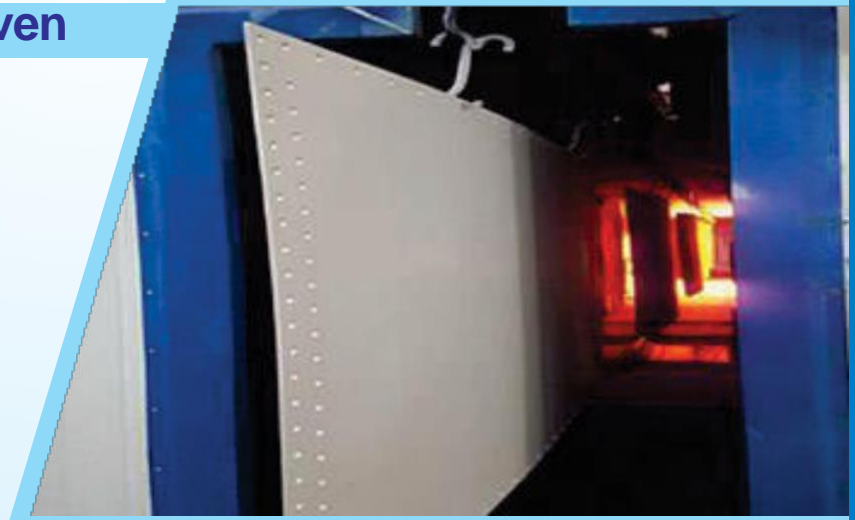
Automatic Enamel Spraying

Spray the glass coating on both sides of steel panels automatically. Coating thickness is controlled within 230 microns to 400 microns.



High Temperature Tunnel Oven

After enameling and drying, then firing steel panels in the oven at the temperatures ranging from 780°C -900°C, which facilitates the interfacial fusion reactions that combine the two materials.



Product Inspection

Quality inspection needs to be conducted after production, including coating thickness, holiday test, color consistency.



Glass fused to steel tank volume chart																					
height diame		ring	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11
		height m	2.4	3	3.6	4.2	4.8	5.4	6	6.6	7.2	7.8	8.4	9	9.6	10.2	10.8	11.4	12	12.6	13.2
D (m)	qty for ring	Bottom area m2	volume m³																		
			3.05	4	7.30	18	22	26	31	35	39	44	48	53	57	61	66	70	74	79	83
3.82	5	11.46	27	34	41	48	55	62	69	76	82	89	96	103	110	117	124	131	137	144	151
4.59	6	16.54	40	50	60	69	79	89	99	109	119	129	139	149	159	169	179	189	198	208	218
5.35	7	22.47	54	67	81	94	108	121	135	148	162	175	189	202	216	229	243	256	270	283	297
6.12	8	29.40	71	88	106	123	141	159	176	194	212	229	247	265	282	300	318	335	353	370	388
6.88	9	37.16	89	111	134	156	178	201	223	245	268	290	312	334	357	379	401	424	446	468	490
7.64	10	45.82	110	137	165	192	220	247	275	302	330	357	385	412	440	467	495	522	550	577	605
8.4	11	55.39	133	166	199	233	266	299	332	366	399	432	465	499	532	565	598	631	665	698	731
9.17	12	66.01	158	198	238	277	317	356	396	436	475	515	554	594	634	673	713	753	792	832	871
9.94	13	77.56	186	233	279	326	372	419	465	512	558	605	652	698	745	791	838	884	931	977	1024
10.7	14	89.87	216	270	324	377	431	485	539	593	647	701	755	809	863	917	971	1025	1078	1132	1186
11.47	15	103.28	248	310	372	434	496	558	620	682	744	806	868	929	991	1053	1115	1177	1239	1301	1363
12.23	16	117.41	282	352	423	493	564	634	704	775	845	916	986	1057	1127	1198	1268	1339	1409	1479	1550
12.99	17	132.46	318	397	477	556	636	715	795	874	954	1033	1113	1192	1272	1351	1431	1510	1590	1669	1748
13.76	18	148.63	357	446	535	624	713	803	892	981	1070	1159	1248	1338	1427	1516	1605	1694	1784	1873	1962
14.51	19	165.27	397	496	595	694	793	892	992	1091	1190	1289	1388	1487	1587	1686	1785	1884	1983	2082	2182
15.29	20	183.52	440	551	661	771	881	991	1101	1211	1321	1431	1542	1652	1762	1872	1982	2092	2202	2312	2422
16.05	21	202.22	485	607	728	849	971	1092	1213	1335	1456	1577	1699	1820	1941	2063	2184	2305	2427	2548	2669
16.82	22	222.09	533	666	800	933	1066	1199	1333	1466	1599	1732	1866	1999	2132	2265	2399	2532	2665	2798	2932
17.58	23	242.61	582	728	873	1019	1165	1310	1456	1601	1747	1892	2038	2183	2329	2475	2620	2766	2911	3057	3202
18.34	24	264.04	634	792	951	1109	1267	1426	1584	1743	1901	2060	2218	2376	2535	2693	2852	3010	3168	3327	3485
19.11	25	286.68	688	860	1032	1204	1376	1548	1720	1892	2064	2236	2408	2580	2752	2924	3096	3268	3440	3612	3784
19.87	26	309.93	744	930	1116	1302	1488	1674	1860	2046	2232	2417	2603	2789	2975	3161	3347	3533	3719	3905	4091
20.64	27	334.42	803	1003	1204	1405	1605	1806	2007	2207	2408	2608	2809	3010	3210	3411	3612	3812	4013	4214	4414
21.4	28	359.50	863	1078	1294	1510	1726	1941	2157	2373	2588	2804	3020	3235	3451	3667	3883	4098	4314	4530	4745
22.17	29	385.83	926	1158	1389	1621	1852	2084	2315	2547	2778	3010	3241	3473	3704	3936	4167	4399	4630	4862	5093
22.93	30	412.74	991	1238	1486	1734	1981	2229	2476	2724	2972	3219	3467	3715	3962	4210	4458	4705	4953	5201	5448
23.69	31	440.55	1057	1322	1586	1850	2115	2379	2643	2908	3172	3436	3701	3965	4229	4494	4758	5022	5287	5551	5815
24.45	32	469.27	1126	1408	1689	1971	2253	2534	2816	3097	3379	3660	3942	4223	4505	4787	5068	5350	5631	5913	6194
25.22	33	499.30	1198	1498	1797	2097	2397	2696	2996	3295	3595	3895	4194	4494	4793	5093	5392	5692	5992	6291	6591
25.99	34	530.25	1273	1591	1909	2227	2545	2863	3182	3500	3818	4136	4454	4772	5090	5409	5727	6045	6363	6681	6999
26.75	35	561.72	1348	1685	2022	2359	2696	3033	3370	3707	4044	4381	4718	5055	5392	5730	6067	6404	6741	7078	7415
27.52	36	594.52	1427	1784	2140	2497	2854	3210	3567	3924	4281	4637	4994	5351	5707	6064	6421	6778	7134	7491	7848
28.28	37	627.81	1507	1883	2260	2637	3013	3390	3767	4144	4520	4897	5274	5650	6027	6404	6780	7157	7534	7910	8287
29.04	38	662.01	1589	1986	2383	2780	3178	3575	3972	4369	4766	5164	5561	5958	6355	6752	7150	7547	7944	8341	8738
29.81	39	697.58	1674	2093	2511	2930	3348	3767	4185	4604	5023	5441	5860	6278	6697	7115	7534	7952	8371	8789	9208
30.57	40	733.60	1761	2201	2641	3081	3521	3961	4402	4842	5282	5722	6162	6602	7043	7483	7923	8363	8803	9243	9684
31.34	41	771.02	1850	2313	2776	3238	3701	4164	4626	5089	5551	6014	6477	6939	7402	7864	8327	8790	9252	9715	10178
32.1	42	808.87	1941	2427	2912	3397	3883	4368	4853	5339	5824	6309	6795	7280	7765	8250	8736	9221	9706	10192	10677
32.87	43	848.14	2036	2544	3053	3562	4071	4580	5089	5598	6107	6616	7124	7633	8142	8651	9160	9669	10178	10687	11195
33.63	44	887.82	2131	2663	3196	3729	4262	4794	5327	5860	6392	6925	7458	7990	8523	9056	9588	10121	10654	11186	11719
34.39	45	928.40	2228	2785	3342	3899	4456	5013	5570	6127	6684	7242	7799	8356	8913	9470	10027	10584	11141	11698	12255
35.16	46	970.44	2329	2911	3494	4076	4658	5240	5823	6405	6987	7569	8152	8734	9316	9898	10481	11063	11645	12228	12810
35.92	47	1012.84	2431	3039	3646	4254	4862	5469	6077	6685	7292	7900	8508	9116	9723	10331	10939	11546	12154	12762	13370
36.69	48	1056.73	2536	3170	3804	4438	5072	5706	6340	6974	7608	8243	8877	9511	10145	10779	11413	12047	12681		
37.45	49	1100.96	2642	3303	3963	4624	5285	5945	6606	7266	7927	8588	9248	9909	10569	11230	11890	12551	13212		
38.22	50	1146.70	2752	3440	4128	4816	5504	6192	6880	7568	8256	8944	9632	10320	11008	11696	12384	13072	13760		
39.75	51	1240.35	2977	3721	4465	5209	5954	6698	7442	8186	8931	9675	10419	11163	11907	12652	13396	14140	14884		
40.51	52	1288.23	3092	3865	4638	5411	6184	6956	7729	8502	9275	10048	10821	11594	12367	13140	13913				
41.27	53	1337.02	3209	4011	4813	5615	6418	7220	8022	8824	9627	10429	11231	12033	12835	13638	14440				
42.04	54	1387.38	3330	4162	4995	5827	6659	7492	8324	9157	9989	10822	11654	12486	13319	14151	14984				

GRAIN STORAGE SILOS

Capacity Start From - 50 MT To 10000 MT



1. HOPPER BOTTOM SILO

A hopper bottom silo is a specialized type of storage structure primarily used in agricultural and industrial settings for the efficient storage of bulk materials such as grains, seeds, and granular products. Unlike traditional flat-bottom silos, hopper bottom silos feature a conical bottom design that facilitates the complete discharge of stored material through gravity. This conical shape encourages the flow of material towards a centrally located outlet, ensuring efficient emptying without the need for mechanical assistance. The steep angle of the hopper bottom promotes self-cleaning, preventing material buildup and minimizing the risk of spoilage or contamination. Additionally, hopper bottom silos offer advantages in terms of space utilization, as their tapered design allows for compact stacking and optimal use of vertical space. They are commonly equipped with features such as access doors, ventilation systems, and temperature monitoring devices to maintain the quality and integrity of stored contents. Hopper bottom silos are widely used in agriculture for grain storage, feed processing, and livestock farming, as well as in industrial applications for storing bulk materials in various manufacturing processes.



2. FLAT BOTTOM SILO



Flat Bottom Silos are integral components of agricultural and industrial storage systems, designed to efficiently store bulk materials such as grains, seeds, powders, and granular products. As the name suggests, these silos feature a flat base, offering stability and ease of installation on various surfaces. The flat bottom design allows for uniform distribution of stored material across the silo floor, maximizing storage capacity and facilitating efficient handling and retrieval. Flat bottom silos are typically constructed from high-quality galvanized steel or concrete, providing durability and protection against corrosion and environmental factors. They are equipped with access doors, ventilation systems, and temperature monitoring devices to ensure the quality and integrity of stored contents. Flat bottom silos are widely used in agriculture for grain storage, feed processing, and seed storage, as well as in industrial applications for storing bulk materials in manufacturing and processing facilities. Their versatility, reliability, and cost-effectiveness make them essential components of modern storage infrastructure.

MATERIAL HANDLING EQUIPMENT

Material handling equipment is mechanical equipment used for the movement, storage, control and protection of materials, goods and products throughout the process of manufacturing, distribution, consumption and disposal.

We design & manufacture all kinds of material handling equipment ranging from conveyors, bucket elevators, pre-cleaner, sweep augers and more. All our products are manufactured using best quality material.





FINE TOUCH
STEEL STORAGE



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