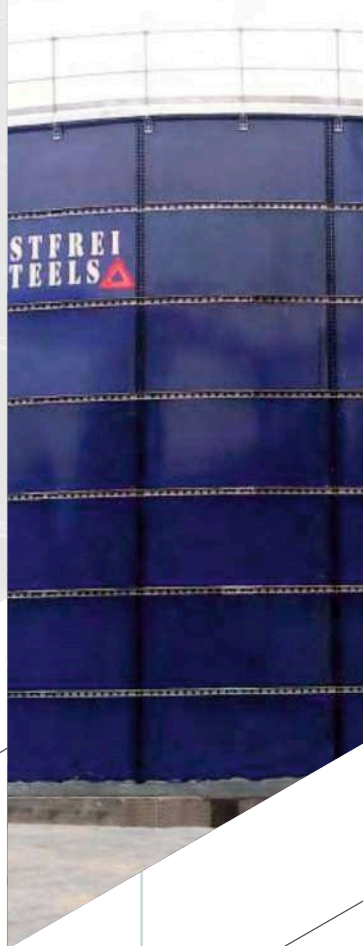




"Quality Tanks Is Our Business"

GLS tanks are Glass Lined Steel tanks, also known as Glass-Fused-to-steel tanks. The reason of fusing glass with steel is to enhance the properties of latter. Single Steel is vulnerable to environmental conditions, hence the fusion is required. After fusing the steel with glass, the strength increases, the acceptable bracket of PH value for alkaline solutions widens, and the resistance of abrasion inflates.

PROCESS AND TECHNOLOGY

The tank panels are lined inside and outside with the glass enamel. The enamel is a solid, smooth and shiny cover of silicate. It is fused in a special furnace having a temperature ranges from 780 to 900 degree Celsius. The Steel rounded (cylinder) shell of the tank is built from two layer glass-fused sheet coated on both the sides. The sheets are attached with special high grade bolts and

sealed by constantly flexible sealants. The connecting material and shell accessories are equipped by the surface treatment. The glass-fused tanks can be used to store fluid or loose material. The tanks are also a fundamental building element of environmental technological facilities such as Waste Water Treatment, and Biogas Stations.





III QUALITY ASSURANCE AND STANDARDS

Rostfrei follows EEA(European Enamel Authority) quality standards. The Spark Test for each panel is conducted according to EN 14430:2004. For Mohs Hardness and Chemical resistance, Rostfrei follows EN 15771 and EN ISO 28706 respectively.

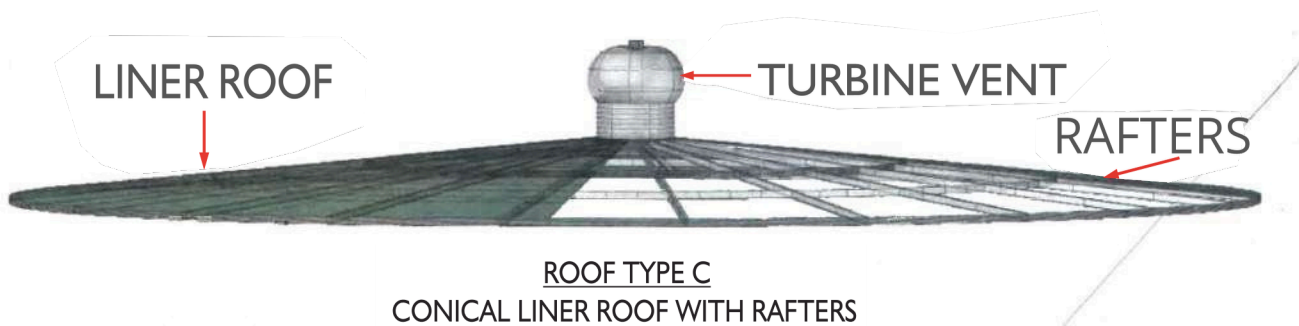
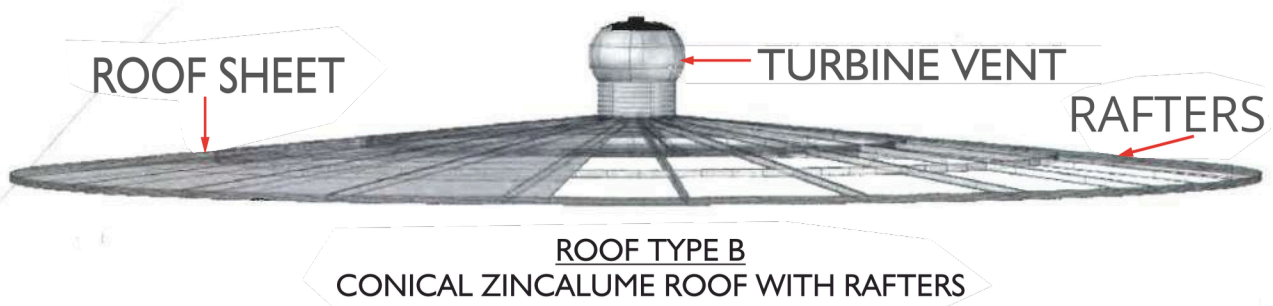
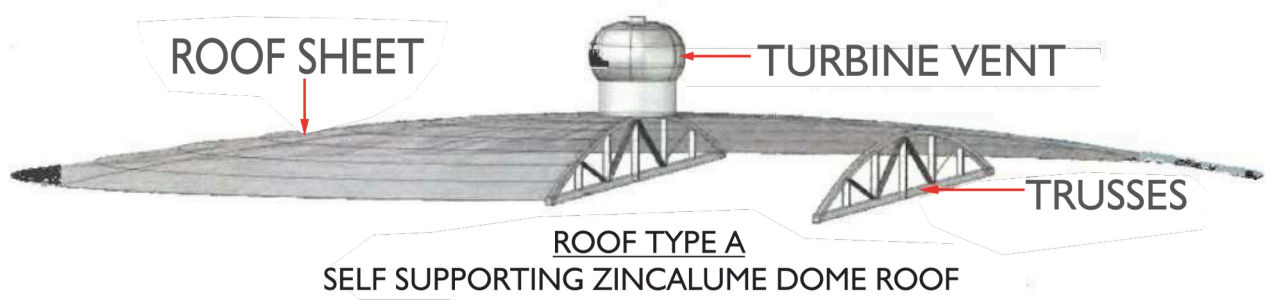
Glass coated sheets can be delivered in Blue (RAL 5013)

III APPLICATION OPTIONS

Waste Water Tank	Loose Material Storage	Clear Water Tank	Agriculture	Others
ETP TANKS- All	Fly-Ash-Silo	Hot Water Tank	Liquid Fertilizer	Gasholder
STP TANKS-All	Lime Stone	Condensate Water Tank	Liquid Manure	Bio Gas
RO TANKS- All	Cement	Drinking Water Tank	Dung Water	Digester Tank
WTP TANKS-All	Wood Waste	Potable Water Tank	Silage	Soot
ZLD TANKS-All	Sand & Garvels	Raw Water Tank	Grain	Salt
Hopper Bottom Tanks/Silos	Granules	Fire Water Tank	Molasses Tank	Brine Tank
		Leachate Tanks		Desalted Water Tank
				Oil

III CHARACTERISTICS OF ROSTFREI GLASS-FUSED-TO-STEEL TANKS

- Glass-Fused Tanks serve for more than 40 years.
- Abrasion and Chemical resistance is quite high.
- Construction methodology is very quick and safe.
- Pre-built tank is easily relocatable.
- Ecologically safe.



Nozzle: Rostfrei® uses BS Table 10D/E Nozzle for the inflow and outflow of water.

Nut & Bolt:
Nut & Bolt of Grade 8.8 are used to connect sheets.)

Ladder with Safety Cage:
Vertical Ladder is provided for maintenance and testing purpose along with the tank. Spiral Ladder can also be provided if required by client at an additional cost.

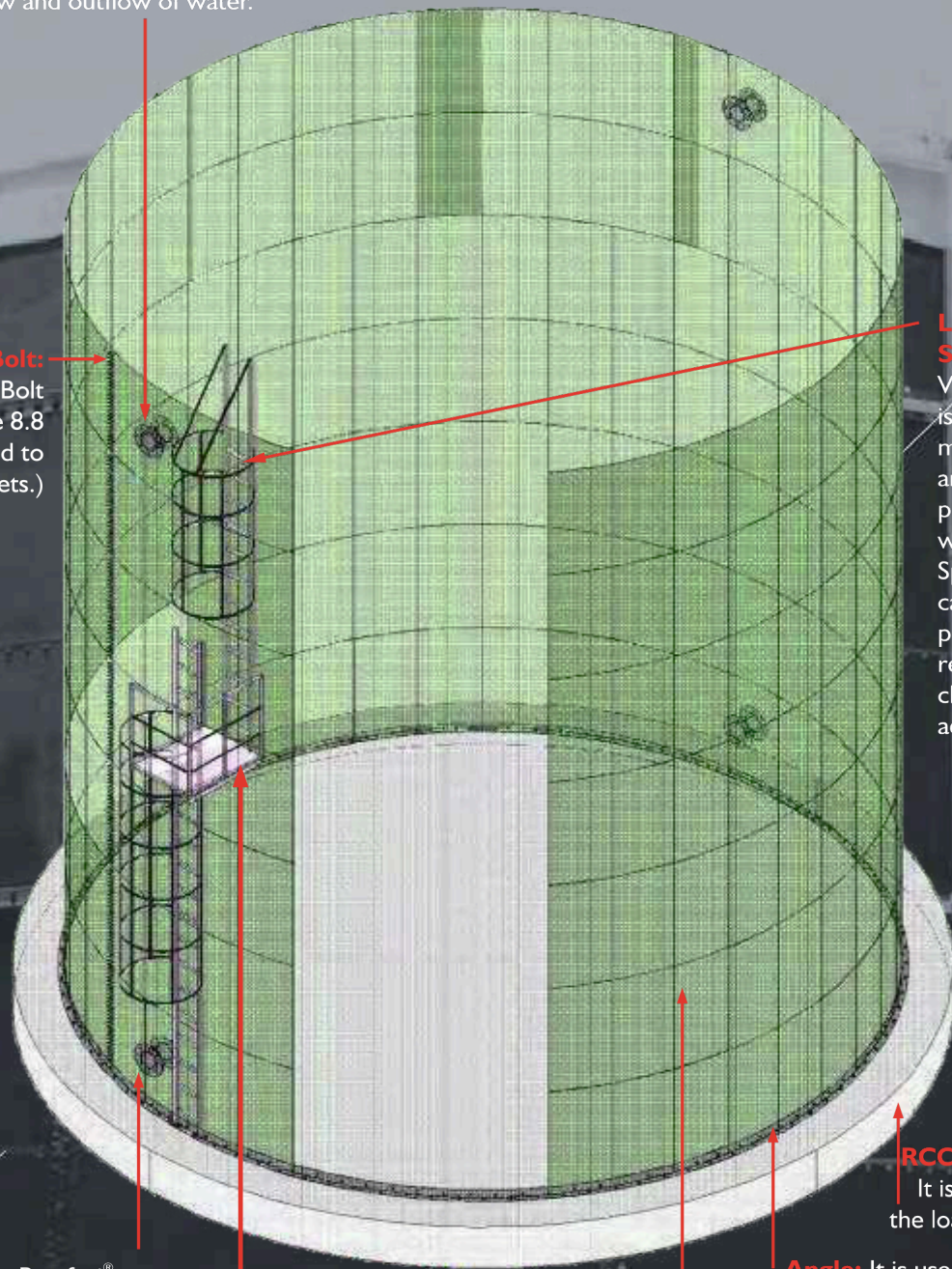
Nozzle: Rostfrei® uses BS Table 10D/E Nozzle for the inflow and outflow of water.

Intermediate Platform:
It is strategically placed at the height of 6metre from the surface of the tank for resting and safety purpose.

Tank Wall: The thickness of wall varies from 2 mm to 12 mm as per the design requirement.

Angle: It is used to join tank with the RCC structure.

RCC Foundation:
It is made to bear the load of the tank.



ROSTFREI STEELS - FM APPROVED GLASS FUSED TANKS



Diameter \ Height		Ring quantity	1	2	3	4	5	6	7	8	9	10
		Height (m)	1.3	2.5	3.7	4.9	6.1	7.3	8.5	9.7	10.9	12.1
D(m)	Plate Qty./Ring	Floor area	Volume (m3)									
5.4	7	22.89	29.77	57.26	84.74	112.22	139.70	167.19	194.67	222.15	249.63	277.12
7.6	10	45.34	58.97	113.41	167.85	222.29	276.72	331.16	385.60	440.04	494.47	548.91
9.2	12	66.44	86.42	166.19	245.96	325.73	405.50	485.28	565.05	644.82	724.59	804.36
9.9	13	76.94	100.07	192.44	284.81	377.19	469.56	561.93	654.30	746.68	839.05	931.42
12.2	16	116.84	151.97	292.25	432.53	572.80	713.08	853.36	993.64	1133.92	1274.20	1414.47
14.5	19	165.05	214.67	412.82	610.98	809.14	1007.29	1205.45	1403.60	1601.76	1799.92	1998.07
16.8	22	221.56	288.17	554.18	820.18	1086.19	1352.19	1618.20	1884.20	2150.21	2416.21	2682.22
19.1	25	286.38	372.48	716.30	1060.13	1403.95	1747.78	2091.60	2435.43	2779.25	3123.08	3466.91
21.4	28	359.50	467.59	899.20	1330.82	1762.44	2194.05	2625.67	3057.29	3488.91	3920.52	4352.14
22.9	30	411.66	535.43	1029.68	1523.92	2018.17	2512.41	3006.66	3500.90	3995.15	4489.39	4983.63

ROSTFREI STEELS - GLASS FUSED TANKS - NEW MODELS - JANUARY 2020

Diameter \ Height		Ring quantity	1	2	3	4	5	6	7	8	9	10
		Height (m)	1.25	2.45	3.65	4.85	6.05	7.25	8.45	9.65	10.85	12.05
D (m)	Steel Qty./Ring	Floor area	Volume (m3)									
4.30	5	14.49	18.12	35.52	52.92	70.32	87.72	105.12	122.52	139.92	157.32	174.72
5.16	6	20.87	26.10	51.15	76.21	101.26	126.32	151.37	176.43	201.48	226.54	251.59
6.02	7	28.40	35.52	69.63	103.73	137.83	171.93	206.03	240.14	274.24	308.34	342.44
6.87	8	37.10	46.40	90.94	135.48	180.02	224.56	269.11	313.65	358.19	402.73	447.27
7.73	9	46.95	58.72	115.09	171.47	227.84	284.21	340.59	396.96	453.33	509.71	566.08
8.59	10	57.97	72.50	142.09	211.69	281.29	350.88	420.48	490.07	559.67	629.27	698.86
9.45	11	70.14	87.72	171.93	256.14	340.36	424.57	508.78	592.99	677.20	761.41	845.62
10.31	12	83.47	104.39	204.61	304.83	405.05	505.27	605.49	705.71	805.93	906.14	1006.36
11.17	13	97.97	122.52	240.14	357.75	475.37	592.99	710.61	828.23	945.84	1063.46	1181.08
12.03	14	113.62	142.09	278.50	414.91	551.32	687.73	824.14	960.55	1096.95	1233.36	1369.77
12.89	15	130.43	163.12	319.71	476.30	632.89	789.48	946.08	1102.67	1259.26	1415.85	1572.44
13.75	16	148.40	185.59	363.76	541.92	720.09	898.26	1076.42	1254.59	1432.76	1610.92	1789.09
14.61	17	167.53	209.51	410.65	611.78	812.91	1014.05	1215.18	1416.31	1617.45	1818.58	2019.71
15.47	18	187.81	234.89	460.38	685.87	911.36	1136.86	1362.35	1587.84	1813.33	2038.82	2264.32
16.33	19	209.26	261.71	512.95	764.20	1015.44	1266.68	1517.92	1769.17	2020.41	2271.65	2522.90
17.19	20	231.87	289.98	568.37	846.76	1125.14	1403.53	1681.91	1960.30	2238.68	2517.07	2795.45
18.05	21	255.64	319.71	626.63	933.55	1240.47	1547.39	1854.31	2161.23	2468.15	2775.07	3081.99
18.91	22	280.56	350.88	687.73	1024.57	1361.42	1698.27	2035.11	2371.96	2708.80	3045.65	3382.50
19.76	23	306.65	383.50	751.67	1119.83	1488.00	1856.16	2224.33	2592.49	2960.66	3328.82	3696.99
20.62	24	333.89	417.58	818.45	1219.33	1620.20	2021.08	2421.95	2822.83	3223.70	3624.58	4025.45
21.48	25	362.30	453.10	888.08	1323.06	1758.03	2193.01	2627.99	3062.96	3497.94	3932.92	4367.89
22.34	26	391.86	490.07	960.55	1431.02	1901.49	2371.96	2842.43	3312.90	3783.37	4253.84	4724.31

ROSTFREI STEELS - GLASS FUSED TANKS - NEW MODELS - JANUARY 2020

Height Diameter		Ring quantity	1	2	3	4	5	6	7	8	9	10
		Height(m)	1.25	2.45	3.65	4.85	6.05	7.25	8.45	9.65	10.85	12.05
D(m)	Plate Qty./Ring	Floor area	Volume (M3)									
23.20	27	422.58	528.50	1035.85	1543.21	2050.57	2557.93	3065.28	3572.64	4080.00	4587.35	5094.71
24.06	28	454.47	568.37	1114.01	1659.64	2205.28	2750.91	3296.55	3842.18	4387.82	4933.45	5479.09
24.92	29	487.51	609.69	1195.00	1780.30	2365.61	2950.91	3536.22	4121.52	4706.83	5292.13	5877.44
25.78	30	521.71	652.47	1278.83	1905.20	2531.57	3157.93	3784.30	4410.67	5037.03	5663.40	6289.77
26.64	31	557.07	696.69	1365.51	2034.33	2703.15	3371.97	4040.79	4709.61	5378.43	6047.25	6716.07
27.50	32	593.59	742.36	1455.03	2167.69	2880.36	3593.03	4305.69	5018.36	5731.03	6443.69	7156.36
28.36	33	631.27	789.48	1547.39	2305.29	3063.20	3821.10	4579.00	5336.91	6094.81	6852.71	
29.22	34	670.10	838.06	1642.59	2447.12	3251.66	4056.19	4860.72	5665.26	6469.79	7274.32	
30.08	35	710.10	888.08	1740.63	2593.19	3445.74	4298.30	5150.85	6003.41	6855.96	7708.52	
30.94	36	751.26	939.55	1841.52	2743.49	3645.46	4547.42	5449.39	6351.36	7253.33	8155.30	
31.80	37	793.58	992.47	1945.25	2898.02	3850.79	4803.57	5756.34	6709.11	7661.89	8614.66	
32.65	38	837.05	1046.84	2051.82	3056.79	4061.76	5066.73	6071.70	7076.67	8081.64		
33.51	39	881.69	1102.67	2161.23	3219.79	4278.35	5336.91	6395.47	7454.03	8512.59		
34.37	40	927.48	1159.94	2273.48	3387.02	4500.56	5614.10	6727.64	7841.19	8954.73		
35.23	41	974.43	1218.66	2388.57	3558.49	4728.40	5898.32	7068.23	8238.15	9408.06		
36.09	42	1022.55	1278.83	2506.51	3734.19	4961.87	6189.55	7417.23	8644.91	9872.59		
36.95	43	1071.82	1340.45	2627.29	3914.13	5200.96	6487.80	7774.63	9061.47			
37.81	44	1122.25	1403.53	2750.91	4098.30	5445.68	6793.07	8140.45	9487.83			
38.67	45	1173.84	1468.05	2877.37	4286.70	5696.02	7105.35	8514.68	9924.00			
39.53	46	1226.59	1534.02	3006.68	4479.34	5951.99	7424.65	8897.31	10369.97			
40.39	47	1280.50	1601.44	3138.82	4676.21	6213.59	7750.97	9288.35	10825.74			
41.25	48	1335.57	1670.31	3273.81	4877.31	6480.81	8084.31	9687.81	11291.31			
42.11	49	1391.80	1740.63	3411.64	5082.65	6753.66	8424.66	10095.67				
42.97	50	1449.19	1812.40	3552.31	5292.22	7032.13	8772.04	10511.94				
43.83	51	1507.74	1885.63	3695.83	5506.03	7316.23	9126.43	10936.63				
44.68	52	1567.44	1960.30	3842.18	5724.07	7605.95	9487.83	11369.72				
45.54	53	1628.31	2036.42	3991.38	5946.34	7901.30	9856.26	11811.22				
46.40	54	1690.33	2113.99	4143.42	6172.85	8202.27	10231.70	12261.13				
47.26	55	1753.52	2193.01	4298.30	6403.59	8508.88	10614.16	12719.45				
48.12	56	1817.86	2273.48	4456.02	6638.56	8821.10	11003.64	13186.18				
48.98	57	1883.37	2355.40	4616.59	6877.77	9138.95	11400.14					
49.84	58	1950.03	2438.77	4779.99	7121.21	9462.43	11803.65					
50.70	59	2017.85	2523.59	4946.24	7368.89	9791.54	12214.18					
51.56	60	2086.83	2609.86	5115.33	7620.80	10126.26	12631.73					
52.42	61	2156.97	2697.58	5287.26	7876.94	10466.62	13056.30					
53.28	62	2228.27	2786.75	5462.04	8137.32	10812.60	13487.88					
54.14	63	2300.73	2877.37	5639.65	8401.93	11164.21	13926.49					
55.00	64	2374.35	2969.44	5820.11	8670.77	11521.44	14372.10					
55.86	65	2449.13	3062.96	6003.41	8943.85	11884.30	14824.74					
56.72	66	2525.07	3157.93	6189.55	9221.16	12252.78	15284.40					
57.57	67	2602.16	3254.35	6378.53	9502.71	12626.89	15751.07					
58.43	68	2680.42	3352.22	6570.36	9788.49	13006.62	16224.76					
59.29	69	2759.83	3451.54	6765.02	10078.50	13391.99						
60.15	70	2840.41	3552.31	6962.53	10372.75	13782.97						
61.01	71	2922.14	3654.53	7162.88	10671.23	14179.58						
61.87	72	3005.04	3758.20	7366.07	10973.95	14581.82						
62.73	73	3089.09	3863.32	7572.11	11280.90	14989.69						
63.59	74	3174.30	3969.89	7780.98	11592.08	15403.17						
64.45	75	3260.67	4077.91	7992.70	11907.50	15822.29						



Rostfrei Steels Pvt. Ltd. Started its operation in year 2004. It is an ISO 9001 : 2015 certified company having its Head Office in Delhi and the manufacturing Unit in Prithla, Haryana. It also has its international Offices in Dubai and Thailand and a wide dealership network across the Globe. The company believes in quality based performance with the team of skilled workers and experienced technicians.



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