RRP STEELS PVT. LTD.

STEEL & STORAGE SOLUTION



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AN ISO 9001:2015 & 14001:2015 CERTIFIED COMPANY

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Zincalume Water Storage Tank are rapidly growing storage tanks, Metallic coating of ZINCALUME® steel combines the corrosion protection of aluminium with sacrificial protection of zinc that enhances corrosion resistance. It gives significantly longer service life than the galvanized coating. ZINCALUME® steel complies with AS1397, ASTM A792M, IS 15961 and ISO 9364 standards.

The zincalume tanks are proving themselves as the best and only solution for long term water storage tank.

These tanks are widely used in industries like oil, gas, Power plants, firefighting, water treatment plants even the Government project JAL JEEVAN MISSION also using these tanks due to their inherent properties, these tanks are rapidly capturing the storage tank market due to various qualities, some of them are as below;

Reason to Choose ZA tank

A. Cost: - These tanks have low cost as compared to the other available options in the market. Civil/SS/MS etc tank have higher cost as compared to Zincalume tanks.

Our capacity ranges- 5 KL to 7160 KL
Design Code:- AWWAD 103 / AS 2304-2011 AUSTRALIA STANDARD

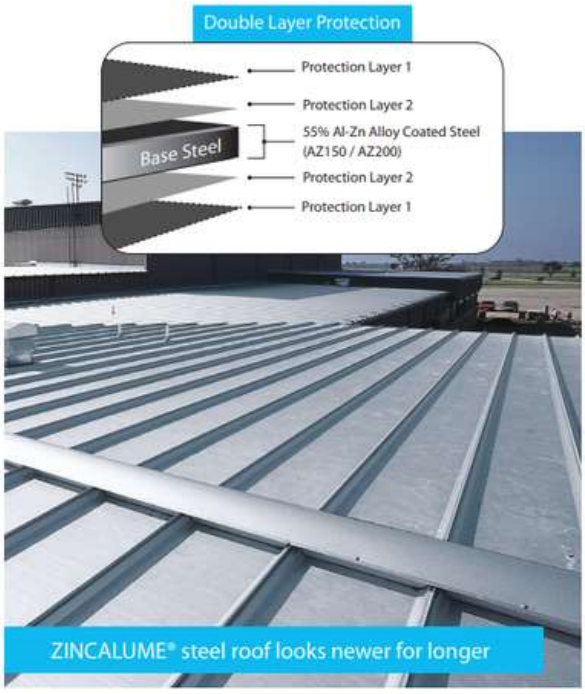
B. Life span: - The life expectancy of these tanks is much higher than other tanks, as the decay due to the rust and environmental pollution is almost zero in these tanks. Their life expectancy is up to 30 - 50 years (depending on the nature of stored fluid).

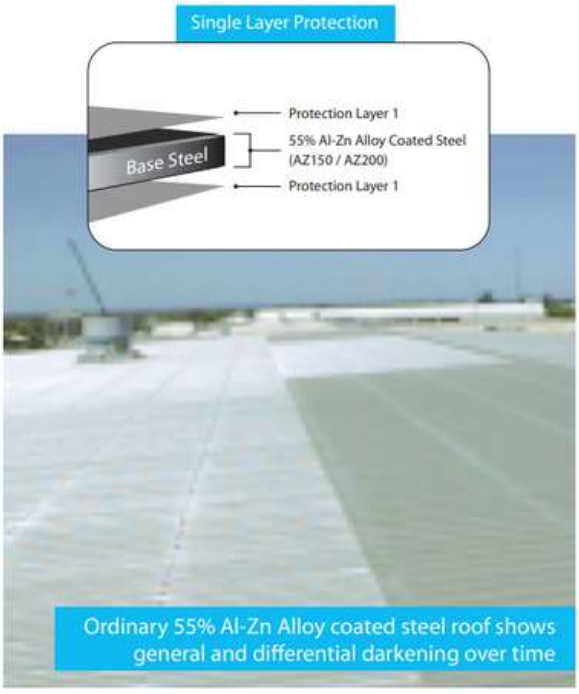


C. Light weight: - As these tanks have corrugated wall sheets, these corrugated profiles are set to provide maximum tensile strength, which results these tanks have light structural weight.

D. Easy to relocate: - These tanks are prefabricated structures and assembled on site. The assembly of tank takes 3 to 5 days to construct the tank.

Also, these tanks are completely tightened with High tensile 8.8/10.9 grade HDG nut bolts, so they can relocate easily with very less hassles.





E. Self-healing: - The wall sheet & roof sheet structure is provided with AZ150 Zincalume material of TATA BLUE SCOPE/JSW which provide the uniform coating of 20 micron all around the sheet
This coating has self-healing properties which helps to provide maximum life for the tank.

F. Food grade: - The internal PVC reinforced liner is available with option of food grade and nonfood grade material which results to make these tanks usable for drinking/hotels etc purposes.

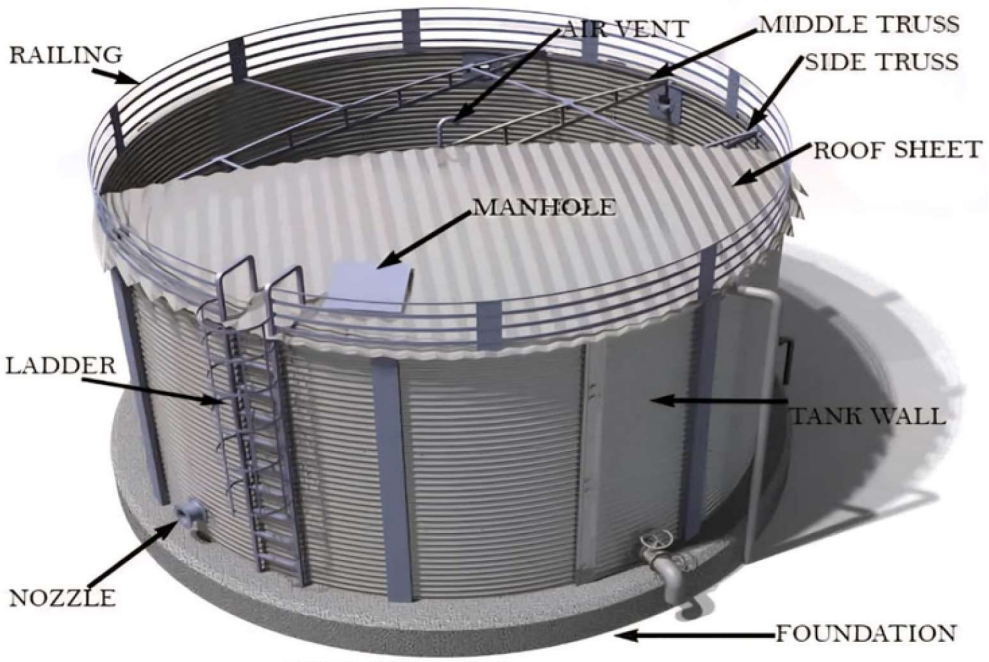
H. Installed location: - These tanks can be installed as
I. Underground tank
2. Overhead tank
3. Elevated tank
4. On the ground Tank
There are lots of parameters on which these tanks are replacing the old way of water storage like RCC/MS/PVC tanks.



Below is the application where we are giving these tanks:
1 . Firefighting reservoir.
2. Drinking water.
3. Acidic and base nature of liquid.
4. Fish tank
5. Agriculture water storage tank.
6. RO water tank
7. Water treatment plants.
8. Hospitals
9. Hotels
1 0. Construction sites
11. JJM PROJECT.
12. Rain Water Harvesting.







Parts of construction: - There are a number of parts and accessories used to complete a ZA tank, some of the major parts are elaborate below;

1 . Wall Sheet - We always uses the wall sheets of **TATA BLUE SCOPE/JSW** make. Both the Companies are well known and committed for their unbeatable quality. Wall sheet have corrugated profile which provides it the extensive quality of Highest tensile strength. Wall sheets are coated with a mixture of Zinc & aluminium and available in **G300 - AZ 150/AZ 200 coating standard. ZINCALUME® steel complies with AS1397, ASTM A792M, IS 15961 and ISO 9364 standards.**

The wall sheets are available in 0.8 mm & 1.12 mm thicknesses which are fused to make desired thickness of sheet.

2. Roof Sheet- We uses roof sheets of TATA BLUE SCOPE/JSW make. The roof sheets available in 550 MPA and available thickness 0.47 mm & 0.6 mm. As of wall sheet roof sheets also coated with AZ 150 coating and standards. Roof sheets are corrugated sheets and used to cover the top of the tank.

3. PVC Reinforced Liner: - The PVC Liner are made up of high tenacity polyester filament yarn. The specification is as per the IS 7016 Part 1 -1982.

We preferred the good quality PVC Fabric which is SRF/Sioen make, along with these two most favourable brands we also manufacture the HDPE liner/Metallocene/food grade/non food grade. Depending upon the application and
requirement of customer.

Liner fabric available in various GSM we use a range of 550 GSM to 1360 GSM depending upon the requirement of customer.

We have the 12 years experienced team for liner manufacturing as this is the most critical part of the tank. Our team precisely cut the material and manufacture the liner, after that the liner is go through the dimensional inspection and light reflection test.

4. TRUSSES: - The truss is the main part of the top structure. During the designing of tank, the truss is the 2 nd important part after wall sheet.

Our design team consider all the aspects while designing the tank like Seismic zone, wind velocity, atmospheric pressure etc.

The trusses are made up of Square hollow pipe and Square rectangular pipe follows IS:4923 and some other parts like flats, ISA.

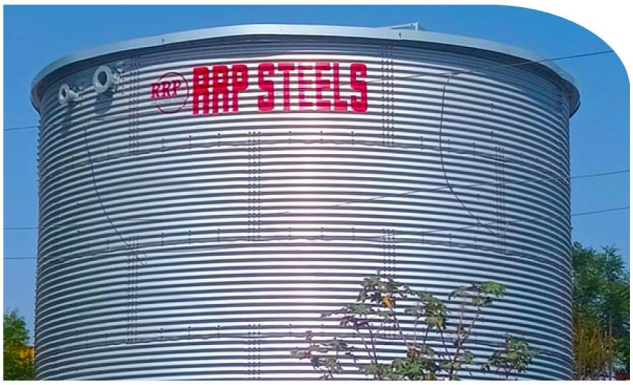
5. NOZZLES: - The flow of Water in Tanks takes place through the nozzles. We manufacture the nozzles in Various market standards Like BS10 Table D, BS10 Table E, ANSI B16.5 CLASS 150, PN10, PN16 etc. These nozzles are available in MS, MS Rubber Lining, SS, MS HDG.





6. Ladders: - To provide easy climbing on tanks. Ladders Have safety cages to Provide safe climbing.

7. Nut & Bolt: - 8.8 & 10.9 Grade, Rust-free HDG Nut & bolts used for Strengthen the tanks.





















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These dimensions are customizable as per clients requirement

CAPACITY CHART(IN KILO LITRES)

SHEET/RING		3	4	5	6	7	8	9	10	11	12
Diameter		2.723	3.631	4.538	5.446	6.354	7.261	8.169	9.076	9.984	10.892
Nos of Rings	Tank Heights										
1	1.12	6.52	11.59	18.11	26.07	35.49	46.36	58.67	72.43	87.64	104.30
2	2.09	12.16	21.63	33.79	48.66	66.23	86.50	109.48	135.16	163.54	194.63
3	3.06	17.81	31.66	49.47	71.24	96.97	126.65	160.29	197.89	239.45	284.96
4	4.03	23.46	41.70	65.15	93.82	127.70	166.80	211.10	260.62	315.35	375.29
5	5	29.10	51.74	80.84	116.41	158.44	206.94	261.91	323.35	391.25	465.62
6	5.97	34.75	61.77	96.52	138.99	189.18	247.09	312.72	386.08	467.15	555.95
7	6.94	40.39	71.81	112.20	161.57	219.92	287.24	363.53	448.81	543.06	646.28
8	7.91	46.04	81.85	127.88	184.15	250.65	327.38	414.34	511.54	618.96	736.61
9	8.88	51.68	91.88	143.57	206.74	281.39	367.53	465.16	574.27	694.86	826.94
10	9.85	57.33	101.92	159.25	229.32	312.13	407.68	515.97	637.00	770.76	917.27
11	10.82	62.98	111.96	174.93	251.90	342.87	447.82	566.78	699.72	846.67	1007.60

SHEET/RING		13	14	15	16	17	18	19	20	21	22
Diameter		11.799	12.707	13.615	14.522	15.430	16.338	17.245	18.153	19.061	19.968
Nos of Rings	Tank Heights										
1	1.12	122.41	141.96	162.97	185.42	209.32	234.67	261.47	289.72	319.42	350.56
2	2.09	228.42	264.91	304.11	346.01	390.61	437.92	487.93	540.64	596.05	654.17
3	3.06	334.43	387.86	445.25	506.60	571.90	641.16	714.38	791.56	872.69	957.78
4	4.03	440.45	510.81	586.39	667.18	753.19	844.40	940.83	1042.47	1149.33	1261.39
5	5	546.46	633.76	727.53	827.77	934.48	1047.65	1167.29	1293.39	1425.96	1565.00
6	5.97	652.47	756.71	868.67	988.36	1115.76	1250.89	1393.74	1544.31	1702.60	1868.61
7	6.94	758.48	879.66	1009.82	1148.95	1297.05	1454.13	1620.19	1795.23	1979.24	2172.23
8	7.91	864.50	1002.61	1150.96	1309.53	1478.34	1657.38	1846.65	2046.15	2255.88	2475.84
9	8.88	970.51	1125.56	1292.10	1470.12	1659.63	1860.62	2073.10	2297.06	2532.51	2779.45
10	9.85	1076.52	1248.51	1433.24	1630.71	1840.92	2063.87	2299.55	2547.98	2809.15	3083.06
11	10.82	1182.54	1371.46	1574.38	1791.30	2022.21	2267.11	2526.01	2798.90	3085.79	3386.67

SHEET/RING		23	24	25	26	27	28	29	30	31	32
Diameter		20.876	21.783	22.691	23.599	24.506	25.414	26.322	27.229	28.137	29.045
Nos of Rings	Tank Heights										
1	1.12	383.15	417.20	452.69	489.63	528.01	567.85	609.14	651.87	696.05	741.68
2	2.09	714.99	778.52	844.75	913.68	985.31	1059.65	1136.69	1216.43	1298.88	1384.03
3	3.06	1046.83	1139.84	1236.81	1337.73	1442.61	1551.45	1664.25	1781.00	1901.71	2026.38
4	4.03	1378.67	1501.16	1628.87	1761.78	1899.91	2043.25	2191.80	2345.57	2504.54	2668.73
5	5	1710.51	1862.48	2020.92	2185.83	2357.21	2535.05	2719.36	2910.13	3107.37	3311.08
6	5.97	2042.35	2223.81	2412.98	2609.88	2814.50	3026.85	3246.91	3474.70	3710.20	3953.43
7	6.94	2374.19	2585.13	2805.04	3033.93	3271.80	3518.65	3774.47	4039.26	4313.03	4595.78
8	7.91	2706.03	2946.45	3197.10	3457.99	3729.10	4010.45	4302.02	4603.83	4915.87	5238.13
9	8.88	3037.87	3307.77	3589.16	3882.04	4186.40	4502.24	4829.58	5168.39	5518.70	5880.48
10	9.85	3369.71	3669.09	3981.22	4306.09	4643.70	4994.04	5357.13	5732.96	6121.53	6522.83
11	10.82	3701.54	4030.42	4373.28	4730.14	5100.99	5485.84	5884.69	6297.52	6724.36	7165.18

Capacity check guide : As shown below Dia.3.63, ht.3.06 gives us a gross capacity of 31.66 KL

SHEET/RING		3	4	5
Diameter		2.723	3.631	4.538
Nos of Rings	Tank Heights			Vol. in KL
1	1.12	6.52	11.59	18.11
2	2.09	12.16	21.63	33.79
3	3.06	17.81	31.66	49.47