

BOLTED ZINC ALUMINUM, GALVANIZED, GLASS FUSED TANKS (GLS)



FIRE TANKS | DOMESTIC WATER TANKS
PROCESS WATER TANKS | WASTE WATER TANKS



PIPECO INDUSTRIES



ABOUT ME

Pipeco Group is a manufacturer of 'Water Storages Steel Tanks', has earned a reputation for quality and service by manufacturing superior storage systems, which can trace its origin back to the industrial that sent waves of influence around the world. We were one of the first suppliers of Metal Water Tanks and our experience in storing liquid and grain in steel fabricated thin wall cylinder dates back long before the advent of metal tanks.

From then to the present day the company has evolved throughout the years to become an innovative manufacturer and our intention to remain at forefront of this business sector has already been established, with key preferred supplier status being achieved with major companies throughout the world.

Our Products are designed and manufactured under AS1397 Std.

We guarantee our products, and we never compromise with quality standards, and it beats the best in the market at present. Our products have made their grasp also with the overseas market and getting excellent feedback.

We are so well connected with our quality of the products that we receive positive feedback from our valuable customers, and many of our vendors are also immensely satisfied with our products and services.

We ask for your continuing interest and support. If you have any requirements you can reach us via sales@pipecogroup.com



BOLTED ZINC ALUMINIUM

Why Use Our Water Storage Tanks?

As Tank Suppliers, we ensure that every reservoir suits the specific requirements of our Clients and that the stored water is clean and odorless.

Our Water Storage Reservoirs are tough and maintenance free

TANK APPLICATIONS

Industrial: Food, beverage, pharma, automobile, engineering, textile, electronics, OEM's etc. All the industries need a constant supply of water for different applications like fire, process, domestic, drinking, DM water and many more applications.

Commercial & Agricultural: it is unthinkable that we can get along today without a constant supply of water in our daily lives. We do not only need water only for human survival but also for agriculture & commercial use.

FEATURES: Customized, tough construction, fine finish, durable, reliable water storage for: firefighting, raw water storage, process water, domestic water, potable & rainwater applications.

BOLTED TANKS: Zincalume bolted tanks are manufactured from steel sheet which has been continuously coated with zinc and aluminum to provide the excellent corrosion resistance which is commonly experienced by tanks that are exposed to the harshest of atmospheric conditions. Aluminum in the coating provides barrier protection to the steel whilst the zinc component provides sacrificial cut edge protection.

FIRE PROTECTION: Standard of construction for fire fighting tanks - positive head or suction lift wherever possible, horizontal centrifugal pumps shall be used, installed with a positive suction head in accordance with the following:

- At least two thirds of the effective capacity of the suction tank shall be above the level of the pump center line
- The pump center line shall be no more than 2m above the low water level of the suction tank

Installing a pipeco fire tank will give you a positive head and suction lift which is always suggested and ideal for a firefighting system.

INDUSTRIAL WASTEWATER AND PROCESSING: The treatment of wastewater is essential prior to re injection into the water grid or before water is re-used in processing works. With ever-increasing water costs tied with limited availability and increasingly stringent legislation on contamination, globally, this as an area of key interest to clients in the following sectors: Municipal water treatment, Mining, Food & Beverage, Pharma, Pulp and Paper, Animal processing, Manufacturing, Automobile and Ancillaries.

TECHNICAL DETAILS

ZINC ALUMINIUM STEEL SPECIFICATIONS

'Ultra-high tensile low alloy steel' offers exceptionally high yield strength, very fine molecular structure of steel and controlled internal purity. It combines outstanding mechanical properties like extremely high strength, fatigue resistance and toughness with good formability and weldability. In some applications abrasion / wear can result from the action of abrasive substances in the steel surface and because of the action of load, impact etc. This type of steel is capable of resisting abrasion / wear & tear. Due to low carbon equivalent values $\leq 0.42\%$ This type of steel doesn't require pre or post heating for welding. Moreover, it is insensitive to cold cracking and suitable for all types of arc welding.

Product	Standard**	Grade**	Typical Uses
ZINCALUME® steel - high corrosion resistant and thermal efficient hot dipped zinc-aluminium alloy (55% Al-Zn) coated* steel with spangled surface	AS 1397	G550	Roll formed roof, walling and accessories with minimum internal radius of 5t
		G300	Regular and complicated roll formed roofing, walling, garage door, tubing, gutter, manufactured goods

* Minimum coating of 150 g/m².

**Other standard and grade (e. g. ASTM A 792M, ISO 9364 etc.) on specific agreement



Cross-Sectional View of ZINCALUME® steel

Dimension Range & Tolerances*

Base Metal Thickness (mm)			Width (mm)	
Range	Tolerance		Range	Tolerance
	Width ≤ 1200	Width > 1200		
0.30 - 0.50	± 0.03	± 0.04	914 - 1000	+ 4 / - 0
0.51 - 0.80	± 0.04	± 0.05	1001 - 1220	+ 5 / - 0
0.81 - 1.2	± 0.05	± 0.06		
> 1.20	± 0.06	± 0.07		

*Specific requirement possible on agreement

Properties of Steel Base

Chemical Element	Guaranteed Maximum (%)
Carbon (C)	0.2
Phosphorus (P)	0.04
Manganese (Mn)	1.2
Sulphur (S)	0.03

Mechanical Properties	Guaranteed Minimum	
	G550	G300
Yield Strength, MPa	550	300
Tensile Strength, MPa	550	340
Elongation on 80 mm GL (≥ 0.60 mm), %	2	18

Note - 1. Tensile tested in longitudinal direction
2. Mechanical properties are guaranteed at ambient/room temperature.

Coating Adhesion - 180° Bend Test

Coating Class	Guaranteed Minimum	
	G550	G300
AZ 150 / AZ 200	2t	1t

Fire Hazard Properties (AS/NZS 1530.3)

Index	Range	Rating
Ignitability	0-20	0
Spread of Flame	0-10	0
Heat Evolved	0-10	0
Smoke Developed	0-10	0-1

Fabrication Performance

Process	Rating*	
	G550	G300
Roll-Forming	3	5
Painting (Pretreatment)	5	5
Bending	1	5
Drawing	NR	2
Pressing	NR	2
Welding (design must allow for some strength reduction near welds)	4	4

* where 1 = limited to 5 = excellent, NR = not recommended
Material should be used promptly (within 6 months) to avoid the possibility of improper storage related corrosion & change in performance due to ageing

Supply Conditions

Supply Condition	Normal	Optional
Surface Condition	Spangled	-
Coating Class	AZ150*	AZ200**
Surface Treatment	Passivated and Resin coated	-
Tolerance Class***		
1. Dimensions	A Class	-
2. Flatness	A Class	-
Branding	Branded	-

*Metallic coating of minimum 150 g/m²

**Metallic coating of minimum 200 g/m²

***Dimensional and shape tolerances as per AS 1365

G300 ZINC ALUMINIUM STEEL TECHNICAL DETAILS

Product

ZINCALUME® G300 steel is a hot-dipped Al-Zn alloy coated structural steel with guaranteed minimum yield strength of 300MPa with good ductility. Suitable for roll forming to a minimum internal diameter of 1t.

Typical Uses

Roofing, Cladding, General Manufactured Articles

Standard*

AS 1397

*Other standards (e. g. ASTM A 792M, ISO 9364, IS15961 etc.) and grades on specific agreement

Properties of Steel Base

Mechanical Properties	Guaranteed Minimum
Logitudinal Tensile	
Yield Strength, MPa	300
Tensile Strength, MPa	340
Elongation on 80 mm, %	18
Hardness, HR30T	50

Chemical Composition of Steel Base

Element	Guaranteed Max %
Carbon (C)	0.30
Manganese (Mn)	1.60
Phosphorus (P)	0.10
Sulphur (S)	0.035

Values shown refer to relevant standard unless tighter internal limits are applied
Other elements that are not harmful for the application may be present

Coating Class

Coating Designation	Minimum Coating - Total Both Surfaces, g/m ²	
	Triple Spot Test	Single Spot Test
AZ150	150	130
AZ200	200	180

Coating Adhesion - 180° Bend Test

Coating Class	Guaranteed Minimum
AZ150 / AZ200	1t

Dimension Range & Tolerances (AS/NZS 1365)**

Base Metal Thickness (mm)		
Range	Tolerance	
	Width ≤ 1200	Width > 1200
0.30 - 0.50	± 0.03	± 0.04
0.51 - 0.80	± 0.04	± 0.05
0.81 - 1.20	± 0.05	± 0.06
1.21 - 1.30	± 0.06	± 0.07

Width (mm)	
Range	Tolerance
< 900 (in slit edge)	+1 / - 0
914 - 1000	+ 4 / - 0
1001 - 1220	+ 5 / - 0

**For requirements beyond the standard product range & tolerance, please contact Tata BlueScope Steel Office

Fire Hazard Properties (AS/NZS 1530.3)

Index	Range	Rating
Ignitability Index	0-20	0
Spread of Flame Index	0-10	0
Heat Evolved Index	0-10	0
Smoke Developed Index	0-10	0-1

G300 ZINC ALUMINIUM STEEL TECHNICAL DETAILS

Supply Conditions

Supply Condition	Normal	Optional
Surface Condition	Spangled	–
Coating Class	AZ150 ⁱ	AZ200 ⁱⁱ
Surface Treatment	Passivated and Resin coated	Passivated (for post painting/ paint line feed)
Branding	Branded	Unbranded
Tolerance Class ⁱⁱⁱ		
1. Dimensions	A Class	–
2. Flatness	A Class	–

i) Metallic coating of minimum 150 g/m², ii) Metallic coating of minimum 200 g/m², iii) Dimensional and shape tolerances as per AS/NZS 1365

Fabrication Performance

Method	Rating*	Method	Rating*
Drawing	2	Lock Seam Forming	5
Pressing	2	Welding	4
Bending	5	Painting with Pre-treatment	5
Roll-forming	5		

where 1 = limited to 5 = excellent, NR = not recommended

Material should be used promptly (within 6 months) to avoid the possibility of improper storage related corrosion & change in performance due to ageing

Typical Property Ranges (For Normal Supply Product)

Yield Strength (MPa)		
	Minimum	Maximum
0.35	330	400
0.45	320	390
0.75	315	385
1.0	310	375
1.2	300	370
Tensile Strength (MPa)		
0.35	410	460
0.45	400	450
0.75	395	440
1.0	385	430
1.2	375	420
Total Elongation on 80mm (%)		
0.35	18	28
0.45	20	30
0.75	23	31
1.0	25	32
1.2	25	32

G550 ZINC ALUMINIUM STEEL TECHNICAL DETAILS

Product

ZINCALUME® G550 steel is a hot-dipped Al-Zn alloy coated structural steel with a regular spangle surface and guaranteed minimum yield strength of 550 MPa with limited ductility. Suitable for roll forming to a minimum internal diameter of 4t.

Typical Uses

Roofing, Cladding, Structural sections

Standard*

AS 1397

*Other standards (e. g. ASTM A 792M, ISO 9364, IS15961, etc.) and grades on specific agreement

Properties of Steel Base

Mechanical Properties	Guaranteed Minimum
Logitudinal Tensile	
Yield Strength, MPa	550
Tensile Strength, MPa	550
Elongation on 80 mm, %	2 ^a
Hardness, HR30T	-

a) For thickness ≥ 0.60 mm

Chemical Composition of Steel Base

Element	Guaranteed Max [#] (%)
Carbon (C)	0.20
Manganese (Mn)	1.20
Phosphorus (P)	0.04
Sulphur (S)	0.03

Values shown refer to relevant standard unless specifically agreed to
Other elements that are not harmful for the application may be present

Coating Class

Coating Class	Minimum Coating - Total Both Surfaces, g/m ²	
	Triple Spot Test	Single Spot Test
AZ150	150	135
AZ200	200	180

Coating Adhesion - 180° Bend Test

Coating Class	Guaranteed Minimum
AZ150 / AZ200	2t

Dimension Range & Tolerances (AS/NZS 1365)**

Base Metal Thickness (mm)		
Range	Tolerance	
	Width ≤ 1200	Width > 1200
0.30 - 0.50	± 0.03	± 0.04
0.51 - 0.80	± 0.04	± 0.05
0.81 - 1.20	± 0.05	± 0.06
> 1.20	± 0.06	± 0.07

Width (mm)	
Range	Tolerance
< 900 (in slit edge)	$+1 / -0$
914 - 1000	$+4 / -0$
1001 - 1250	$+5 / -0$

**For requirements beyond the standard product range & tolerance, please contact Tata BlueScope Steel Office

Fire Hazard Properties (AS/NZS 1530.3)

Index	Range	Rating
Ignitability Index	0-20	0
Spread of Flame Index	0-10	0
Heat Evolved Index	0-10	0
Smoke Developed Index	0-10	0-1

G550 ZINC ALUMINIUM STEEL TECHNICAL DETAILS

Supply Conditions

Supply Condition	Normal	Optional
Surface Condition	Spangled	–
Coating Class	AZ150 ⁱ	AZ200 ⁱⁱ
Surface Treatment	Passivated and Resin coated	Passivated (for post painting / paint line feed)
Branding	Branded	Unbranded
Tolerance Class ⁱⁱⁱ		
1. Dimensions	A Class	–
2. Flatness	A Class	–

ⁱ) Metallic coating of minimum 150 g/m², ⁱⁱ) Metallic coating of minimum 200 g/m², ⁱⁱⁱ) Dimensional and shape tolerances as per AS/NZS 1365

Fabrication Performance

Method	Rating [*]	Method	Rating [*]
Drawing	–	Lock Forming	NR
Pressing	–	Welding	4
Bending	1	Painting with Pre-treatment	5
Roll-forming	3		

^{*} where 1 = limited to 5 = excellent, NR = not recommended

Material should be used promptly (within 6 months) to avoid the possibility of improper storage related corrosion & change in performance due to ageing

Typical Property Ranges (For Normal Supply Product)

Yield Strength (MPa)		
	Minimum	Maximum
0.35	580	710
0.42	570	700
0.60	560	700
1.00	550	670
1.20	550	650
Tensile Strength (MPa)		
0.35	600	790
0.42	590	770
0.60	590	760
1.00	580	700
1.20	580	680
Total Elongation on 80mm (%)		
0.35	1	3
0.42	1	4
0.60	2	7
1.00	2	8
1.20	4	11

TECHNICAL DETAILS

LINER / TANK MEMBRANE

The liners are made by pvc, reinforced with compressed multilayer nylon mesh with options like butyl rubber or EPDM. Liners are pre-fabricated as one piece 'bag' to fit inside the water tank. These are non-sticky and chemically stabilized. With water inflow, it takes the shape of the tank. These liners are made of food grade, anti-algae material and are UV stabilized. These are also made according to anti-cracking technology and tested up to 600,000 folds before any cracking.



TECHNICAL DETAILS OF THE LINER:

- Hardness (Test Method BS903A26) : 65 + 5 IRH
- Modulus at 300% Elongation (Test Method BS903A2) : Min. 5.0 Mpa
- Tensile Strength (Test Method BS903A2) : Min. 9.0 Mpa
- Elongation at Break : Min. 400%
- Tear Strength (Test Method BS903A3C) : Min. 30 kn/m
- Adhesion (Test Method DIN-53337) : 12da/N
- Finishing : Glossy Lacquered (Both Face)

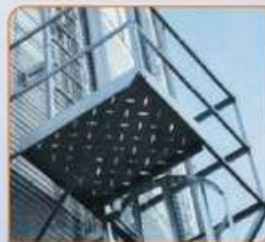
ACCESSORIES



NOZZLE



SPIRAL LADDER



LADDER & SAFETY CAGE



CHOOSE ROOF VENT



ROOF VENT



HOLD DOWN BRACKET



TURBINE VENT



NUTS & BOLTS



ROOF STRUCTURE



STIFFENER

APPLICATIONS

- | | | |
|--|--|---|
| <ul style="list-style-type: none"> • Drinking Water Storage • Industrial Water Storage • Raw Water Storage • Industrial Waste Water Storage • Municipal Waste Water Storage | <ul style="list-style-type: none"> • Leachate Waste Water Storage • Anaerobic Water Storage • Chlorination Water Storage • Sludge Holding Tank • DM Water Storage • Equalization Water Storage | <ul style="list-style-type: none"> • Fire Fighting Water Storage • Rain Water Storage • Agricultural Water Storage • Underground or Basement Water Storage • Fish Cultivation Water Storage • Coal Wash Tanks |
|--|--|---|

ZINC ALUMINIUM STEEL TANKS

GROSS CAPACITY CHART(IN KILO LITRES), STANDARD SHEET SIZE 3050 MM

Model nos.	BGT001	BGT002	BGT003	BGT004	BGT005	BGT006	BGT007	BGT008	BGT009	BGT010
Diameter	2.72	3.63	4.53	5.44	6.35	7.26	8.16	9.07	9.98	10.89
Nos of Rings	Tank Heights									
H-1	1.12	6.50	11.59	18.04	26.02	35.45	46.34	58.54	72.33	87.57
Effective Volume(Cu. M)	5.34	9.52	14.82	21.37	29.12	38.07	48.09	59.41	71.93	85.65
H-2	2.09	12.14	21.62	33.67	48.55	66.16	86.47	109.24	134.97	163.41
Effective Volume(Cu. M)	10.98	19.55	30.45	43.91	59.82	74.06	93.56	115.59	139.95	166.64
H-3	3.06	17.77	31.65	49.29	71.09	96.86	126.61	159.95	197.61	239.25
Effective Volume(Cu. M)	16.61	29.58	46.07	66.44	90.53	114.20	144.26	178.24	215.79	256.94
H-4	4.03	23.41	41.69	64.92	93.62	127.56	166.74	210.65	260.25	315.09
Effective Volume(Cu. M)	22.24	39.62	61.70	88.97	118.07	154.33	194.97	240.88	291.63	347.24
H-5	5	29.04	51.72	80.54	116.15	158.27	206.88	261.35	322.89	390.93
Effective Volume(Cu. M)	27.88	49.65	77.32	109.19	148.77	194.46	245.67	303.52	367.48	437.55
H-6	5.97	34.67	61.75	96.17	138.69	188.97	247.01	312.05	385.53	466.77
Effective Volume(Cu. M)	33.51	59.68	91.34	131.72	179.47	234.60	296.37	366.16	443.32	527.85
H-7	6.94	40.31	71.79	111.80	161.22	219.67	287.15	362.75	448.17	542.61
Effective Volume(Cu. M)	39.14	69.72	106.96	154.25	210.18	274.73	347.07	428.80	519.16	618.15
H-8	7.91	45.94	81.82	127.42	183.76	250.38	327.28	413.45	510.81	618.45
Effective Volume(Cu. M)	44.78	79.75	124.20	176.79	240.88	314.87	397.77	491.44	595.00	708.45
H-9	8.88	51.57	91.85	143.05	206.29	281.08	367.41	464.15	573.45	694.29
Effective Volume(Cu. M)	50.41	89.78	139.83	199.32	271.58	355.00	448.47	554.08	670.84	798.75
H-10	9.85	57.21	101.89	158.67	228.83	311.78	407.55	514.86	636.09	770.14
Effective Volume(Cu. M)				221.86	302.29	395.14	499.18	616.72	746.68	889.06
H-11	10.82	62.84	111.92	174.30	251	342	448	566	699	846
Effective Volume(Cu. M)				243.23	331.41	433.20	547.26	676.13	818.61	974.70
Model nos.	BGT011	BGT012	BGT013	BGT014	BGT015	BGT016	BGT017	BGT018	BGT019	BGT020
Diameter	11.79	12.7	13.61	14.52	15.42	16.33	17.24	18.15	19.06	19.96
Nos of Rings	Tank Heights									
H-1	1.12	122.21	141.81	162.86	185.36	209.05	234.46	261.31	289.63	319.40
Effective Volume(Cu. M)	100.39	116.48	133.77	152.26	171.72	192.59	214.65	237.91	262.36	287.73
H-2	2.09	228.06	264.62	303.90	345.90	390.11	437.51	487.63	540.47	596.02
Effective Volume(Cu. M)	206.23	239.30	274.82	312.80	352.78	395.64	440.97	488.75	538.99	591.09
H-3	3.06	333.90	387.43	444.95	506.44	571.16	640.57	713.95	791.31	872.64
Effective Volume(Cu. M)	312.08	349.45	401.32	456.79	515.17	577.76	643.95	713.73	787.09	863.18
H-4	4.03	439.75	510.25	585.99	666.97	752.22	843.62	940.26	1042.14	1149.27
Effective Volume(Cu. M)	407.01	472.27	542.37	617.32	696.22	780.82	870.27	964.57	1063.71	1166.54
H-5	5	545.59	633.06	727.04	827.51	933.27	1046.68	1166.58	1292.98	1425.89
Effective Volume(Cu. M)	512.86	595.08	683.41	777.86	877.28	983.87	1096.58	1215.40	1340.33	1469.90
H-6	5.97	651.44	755.88	868.08	988.05	1114.33	1249.73	1392.90	1543.82	1702.51
Effective Volume(Cu. M)	618.70	717.89	824.46	938.40	1058.33	1186.93	1322.90	1466.24	1616.96	1773.27
H-7	6.94	757.28	878.69	1009.13	1148.58	1295.38	1452.79	1619.21	1794.66	1979.13
Effective Volume(Cu. M)	724.54	840.71	965.50	1098.93	1239.39	1389.98	1549.22	1717.08	1893.58	2076.63
H-8	7.91	863.13	1001.51	1150.17	1309.12	1476.44	1655.84	1845.53	2045.50	2255.76
Effective Volume(Cu. M)	830.39	963.52	1106.55	1259.47	1420.44	1593.04	1775.53	1967.92	2170.20	2379.99
H-9	8.88	968.97	1124.32	1291.22	1469.66	1657.49	1858.90	2071.84	2296.34	2532.38
Effective Volume(Cu. M)	936.23	1086.34	1247.59	1420.01	1601.50	1796.10	2001.85	2218.76	2446.82	2683.35
H-10	9.85	1074.81	1247.13	1432.26	1630.19	1838.55	2061.95	2298.16	2547.18	2809.00
Effective Volume(Cu. M)	1042.08	1209.15	1388.64	1580.54	1782.55	1999.15	2228.17	2469.60	2723.45	2986.72
H-11	10.82	1180.66	1369.95	1573.31	1790.73	2019.60	2265.01	2524.48	2798.02	3085.62
Effective Volume(Cu. M)	1147.92	1331.97	1529.68	1741.08	1963.61	2202.21	2454.48	2720.44	3000.07	3290.08
Model nos.	BGT021	BGT022	BGT023	BGT024	BGT025	BGT026	BGT027	BGT028	BGT029	BGT030
Diameter	20.87	21.78	22.69	23.59	24.5	25.41	26.32	27.22	28.13	29.04
Nos of Rings	Tank Heights									
H-1	1.12	382.94	417.06	452.64	489.26	527.74	567.67	609.06	651.42	695.71
Effective Volume(Cu. M)	280.37	305.35	331.40	358.21	386.38	415.62	445.92	476.94	509.36	542.85
H-2	2.09	714.60	778.27	844.67	913.00	984.80	1059.32	1136.55	1215.60	1298.24
Effective Volume(Cu. M)	612.02	666.56	723.42	781.95	843.44	907.26	973.41	1041.12	1111.89	1184.99
H-3	3.06	1046.25	1139.48	1236.69	1336.74	1441.86	1550.96	1664.04	1779.78	1900.77
Effective Volume(Cu. M)	943.68	1027.77	1115.44	1205.69	1300.50	1398.90	1500.90	1605.30	1714.42	1827.14
H-4	4.03	1377.91	1500.69	1628.71	1760.48	1898.92	2042.60	2191.53	2343.96	2503.31
Effective Volume(Cu. M)	1275.33	1388.97	1507.47	1629.42	1757.56	1890.55	2028.38	2169.48	2316.96	2469.29
H-5	5	1709.56	1861.90	2020.73	2184.22	2355.98	2534.25	2719.01	2908.14	3105.84
Effective Volume(Cu. M)	1606.99	1750.18	1899.49	2053.16	2214.62	2382.19	2555.87	2733.66	2919.49	3111.44
H-6	5.97	2041.22	2223.10	2412.75	2607.95	2813.04	3025.89	3246.50	3472.32	3708.37
Effective Volume(Cu. M)	1938.64	2111.39	2291.51	2476.90	2671.68	2873.84	3083.36	3297.84	3522.02	3753.58
H-7	6.94	2372.87	2584.31	2804.78	3031.69	3270.10	3517.54	3773.99	4036.50	4310.91
Effective Volume(Cu. M)	2270.30	2472.60	2683.53	2900.64	3128.74	3365.48	3610.85	3862.02	4124.56	4395.73
H-8	7.91	2704.53	2945.52	3196.80	3455.43	3727.16	4009.18	4301.48	4600.68	4913.44
Effective Volume(Cu. M)	2601.95	2833.81	3075.55	3324.38	3585.80	3857.12	4138.34	4426.20	4727.09	5037.88
H-9	8.88	3036.18	3306.73	3588.82	3879.17	4184.22	4500.82	4828.97	5164.86	5515.97
Effective Volume(Cu. M)	2933.61	3195.01	3467.58	3748.11	4042.86	4348.77	4665.83	4990.38	5329.62	5680.02
H-10	9.85	3367.83	3667.94	3980.84	4302.91	4641.28	4992.47	5356.46	5729.04	6118.51
Effective Volume(Cu. M)	3265.26	3556.22	3859.60	4171.85	4499.92	4840.41	5193.32	5554.55	5932.16	6322.17
H-11	10.82	3699.49	4029.14	4372.86	4726.64	5098.34	5484.11	5883.95	6293.22	6721.04
Effective Volume(Cu. M)	3596.92	3917.43	4251.62	4595.59	4956.98	5332.06	5720.81	6118.73	6534.69	6964.32

GENERAL COMPARISON CHART

FEATURES	ZINC ALUMINUM TANKS	RCC TANK
Erection Time	Extremely Fast, a 5 lac ltr Tank	Extremely Long can be Built in 7-10 Working Days
Service Warranty	5 Years	N/A
Design Life Tank	30-50 Yrs	30-50 Yrs
Food Grade Certificate	Available for the Liner Holding Water	Not Available
Water Contact Surface	Liner Only	Cement, Concrete and TMT Bars
Corrosion/ Algae Formation	NO	YES, Growth of Algae, Fungus & Bacteria In the Pores of the Concrete Surface
Relocation	Easy	Not Possible
Weight	Light	Very Heavy
Maintenance	Very Rare, Only for Sediment Cleaning	Very Frequent
Transportation	Very Economical	Expensive
Complex Piping & Plumbing	Possible	Not Possible
Approval for FM Design	Approved	NO
Leakage Problem	Least Prone to Leakages, Can Only Develop a Leak if the Liner is Damaged.	Plenty of Cracks will Appear Over Time
Storage Capacity	From 10 KL to 2000 KL Ltr's	30,000 Ltr's to 50,00,000 Ltr's
Fittings	Flexibility to Fix in 360 Degrees to the Tank at Later Stage Also	Can be Fixed at Any Location But Only at 90 Degree
Need Painting /Coating	NO (Pre Painted)	YES
Quality Water	Very Good	Poor
Expandable	YES	NO
Space	Relatively Less for Larger Capacities Due to Use of Vertical Height	Equivalent
Fire Application	YES	YES
Robust Structure	YES	YES
Aesthetics	YES	NO
Positive Head	Always	NO

ADVANTAGES

- MAGNELIS/ZAM/Zinc Alume or 600gm/sq.meter Galvanized Steel as options for ultimate corrosion protection even at costal area or at any harsh and aggressive environment.
- Ultra-High Tensile Strength Low Alloy Steel with exceptionally high yield strength and outstanding mechanical properties like good formability, weldability, exceptional/ wear & tear resistance for heavy duty industrial applications.
- Water Tanks can be designed for 250km/Hr wind speed and highest seismic zone consideration.
- JS 1000 Coated or 300 Series Stainless Steel Fasteners and Nozzles for highest corrosion resistance, high lubricity and less stress, Non Toxic and FDA approved for use around food products.
- Chemically compatible, food grade, UV stabilized lined made of Pvc compressed with multi-layer nylon mesh and liner-anti-crack technology, tested for crack prevention up to 600,000 folds.
- Extremely heavy duty and complete hot dipped galvanized roof structure with 'I' or 'Z' beam roof rafters, multiple compression beams, curved spreaders, and tensioned rings. Roof peak load can be achieved up to 22,000 kg.
- Ultra-High Tensile steel makes the tanks extremely light weight which transfer low load to the platform and make it suitable for overhead installations with minimum foundation requirement and fast installation tank.
- Extremely High base steel hardness.
- Extremely Low solar heat absorption.
- Up to 3 Stiffeners per wall sheet with 'W' profile or 'Round Column' profile.

(GFS) GLASS FUSED STEEL TANKS

WHAT IS GLASS - FUSED - TO - STEEL TANKS?

After firing at 820° C-930° C high temperature, the molten glass reacts with the steel plate surface to form an inert and inorganic bond, which combines the strength & flexibility of steel and outstanding corrosion resistance of glass, therefore GFS tanks can provide many advantages over standard epoxy or welded painted storage tanks. Glass-Fused-to Steel technology is the premium coating technology in the storage tanks market, and GFS tanks are widely used in bio-energy, municipal sewage, landfill leachate, industrial wastewater treatment and other applications.



GFS/ENAMEL SHEET SPECIFICATIONS

CATAGORY	SPECIFICATIONS
Coating Color	Black blue, Grey olive, Forest green, Cobalt blue, Desert tan etc
Acid and Alkalinity Proof	10-18 mils, 250-450 microns
Acid and Alkalinity Proof	Standard PH: 3-11 Special PH: 1-14
Adhesion	3,450N/cm ²
Elastic	7.9*10*mpa
Hardness	6.0 Mohs
Service Life	> 30 Years
Holiday Test	> 1500V
Easy to clean	Smooth, Glossy, Inert, Anti-adhesion
Corrosion Resistance	Excellent, Suitable for harsh environment

TANKS COMPARISON CHART

Feature	GFS Tank	Concrete Tank	Carbon Steel Tank
Corrosion Resistance	✓	✓	
Low Lifetime Maintenance Cost	✓		
Simple and Fast Construction	✓		✓
Removed and Relocated Possibility	✓		
Expand Volume Easily	✓		
Beautiful Appearance	✓		

GLASS FUSED TO STEEL TANKS PRODUCTION INSTRUCTION



Plate CNC Cutting

Inputting the confirmed drawing into the computer, bolt holes and openings will be cut by CNC laser cutting machine automatically.



Automatic Enamel Spraying

Spray the glass coating on both sides of the steel panels automatically. Coating thickness is controlled within 250 microns to 450 microns.



High Temperature Firing

After enameling and drying, then firing steel panels in the oven at the temperatures ranging from 820 °C - 930 °C, which facilitates the interfacial fusion reactions that combine the two materials.



Quality Inspection

Quality inspection is conducted during and after fabrication, including coating thickness test, 1500V test, anti-acid test and color consistency test etc.

- ### Glass fused to steel tank volume chart

GFS TANKS APPLICATION FIELDS



Power and Energy

- Biogas
- Biomass Energy
- Process Water
- Fly Ash Silo
- DI Water
- Coal Storage
- Boiler Feed water
- Reverse Osmosis Water
- Fermentation Tank



Waste Water Treatment

- Buffer Pool
- Regulation Tank
- Water Purifying Tank
- Effluent Treatment
- Aerobic Reactor
- Anaerobic Reactor
- Sedimentation Container
- Irrigation Water
- Biological Filter
- Leachate Storage
- Sludge Tank



Water Supply and Treatment

- Potable water
- Water Purifying Tank
- RO Water
- Fire Fighting Water
- Lime Silo
- Bitter-Brackish Water
- Disinfecting Water
- Sea Water Desalinization
- Irrigation Water
- Saline Water/Brine Water
- Biological Filter
- Sedimentation Container
- Raw Water/ Fresh Water
- Clarification Pool
- Aeration Tank



Industrial Dry Bulk Storage

- Mineral
- Chemicals
- Food
- Wood Product
- Petrochemicals
- Plastics
- Stone / Clay / Glass
- Mining Industry
- Grain / Seeds

STEEL TANKS



Pipeco Enamel offers AISI 304/31 steel storage tanks, both bolted and welded, with wide range of capacities and configurations to meet the project requirements. Our steel storage tanks are great options for numerous applications and can be constructed in different heights for same capacity, which allows ideal space utilization and integration of your projects. All our steel tanks meet or exceed AWWA D103-09, ISO9001, NSF61, FDA and other international standards. They are used in a variety of applications including:

• Biogas Tanks • Agricultural Water Tanks • Wastewater Tanks • Fire Protection Water Tanks • Leachate Tanks • Dry Bulk Storage Tanks • Potable Water Tanks • Municipal Sewage Tanks • Anaerobic Digester



01

• Friendly to the environment, no painting, no rust, and no solvents.

02

• Superior corrosion resistance, service life is more than 30 years.

03

• Virtually maintenance free, does not require coating.

04

• Green materials and can be recyclable.

05

• Hygienic materials - maintains drinking water quality integrity.

GFS | GRP | SS | ALUMINIUM DOME TANKS ROOF OPTIONS



Glass – Fused – To – Steel Roof

- Air-tightness, often utilized for pressurized structures and provide a suitable option for odour control
- Cone shape roof with external / internal beams
- Viable solution for demanding applications



Aluminum Alloy Trough Deck Roof

- Economical option for potable water, waste water, and fire water storage etc.
- Keep out rain and wind, odour control
- Without air-tightness



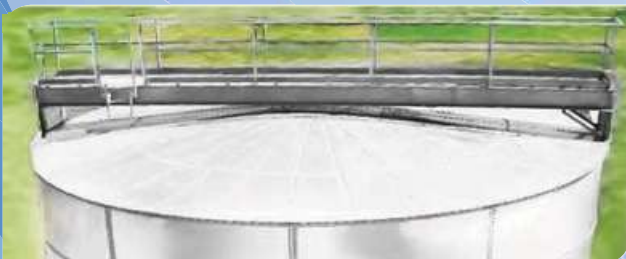
Single & Double Membrane Roof

- Superior option for anaerobic digestion processed and biogas applications
- Air tightness, utilized for biogas collection and odour control
- Integrated AD tank with the cover on top, cost effective



FRP Roof

- Suitable for no air-tightness required situation such as drinking water, agriculture, fire water, and wastewater storage
- The Shape of FRP roof can be dome or flat



Stainless Steel Roof

- Air-tightness, often utilized for pressurized structures and provides a suitable option for odour control
- Super anti-corrosion performance and long service life
- Viable solution for harsh environments



Aluminum Dome Roof

- Self Support without support columns
- Without air-tightness

ACCESSORIES



Roof Handrails

Full perimeter / partial roof handrails can be constructed on tanks according to related safety regulation.

Material options: HDG carbon steel / SS304 / SS316



Access Ladders

HDG / SS ladder with step off platform is available, all the design conform to OSHA and other International safety specification.

Types: Vertical / Spiral / Rotatory



Manwas and Nozzles

CEC tanks include manways and nozzles, which provide access for man / liquid to enter or get out of the tanks.

Material options: HDG carbon steel / SS304 / SS316 / FRP / Epoxy



Three-Phase Separator (GLSS)

UASB reactors are commonly equipped with Three-Phase Separator (GLSS) to separate gas, liquid and solid, the structure materials can be PP, stainless, GRP, PVC and carbon steel.



Mixing System and Other Systems

CSTR / AD tanks are generally equipped with mixing system like mechanicals agitator or hydraulic agitator. furthermore, pumping system, insulation system, cathodic protection, heating system, biogas purification system and other equipment can be provided as requested.

				Technical Data Sheet			
PROJECT TITLE							
PROJECT Ref.				PROJECT LOCATION			
QUOTE Ref.		GFS tank quotation - S2025xxxx		TANK MODEL		Glass-Fused-to-Steel Tanks	
TANK APPLICATION		Drinking Water Tank		MANUFACTURER		Shijiazhuang Zhengzhong Technology Co., Ltd	
CONTRACTOR							
PROCESS & OPERATING PARAMETERS							
SERVICES	Drinking Water Tank			FREEBOARD ABOVE LIQUID	300mm		
QUANTITY	1			TANK SIZE [Dia. X H.]	φ13.76*7.2m		
GEOMETRY	Cylindrical Embedded			HEIGHT OF WATER LEVEL (HWL)	6.73m		
FOUNDATION TYPE				TOTAL CAPACITY	1070m ³		
WALL EMBEDMENT	170mm			EFFECTIVE CAPACITY	1000m ³		
REBATE DEPTH	200mm			ROOF TYPE	Aluminum-deck-roof		
LOCATION	External / Outside Building			TANK COLOUR	Dark blue (RAL 5004)		
DESIGN DATA							
DESIGN CODE	EN ISO 28765, OSHA			CONTENTS SPECIFIC GRAVITY	1		
WIND SPEED	161km/h			COATING THICKNESS	210 micron ~430 micron		
SNOW LOAD	N/A			IMPORTANCE LEVEL(I.L.)	3		
SEISMIC ZONE	Zone 2 acc. ISO-28765			ENAMEL COATING	2 coating 1 firing		
OPERATION TEMP.	-5~ 75 Degree C.			EDGE PROTECTION	Enameled edge		
PH RANGE	5 - 9			HAZARD CATEGORY	Non Hazardous		
SHELL THICKNESS (mm)	5/4/4/3/3/3 (from bottom to top ring)			DESIGN PRESSURE	Atmospheric		
HOLIDAY TEST	900V			INSULATION THICKNESS	N/A		
STRUCTURE DESIGN LIFE	30 Years						
SCOPE OF SUPPLY				MATERIAL OF CONSTRUCTION			
TANK WALL PANELS	Glass-Fused-to-Steel			COMPLETE TANK	Glass fused to steel		
TANK FLOOR PANELS	N/A			EXTERNAL GASKETS	EPDM		
WIND GIRDERS	HDG Carbon steel			NOZZLES & FLANGES	HDG Carbon steel		
TOP & BASE ANGLES	HDG Carbon steel			PANEL BOLTS:	HDG bolt with PP cap		
FASTENERS	HDG bolt with PP cap, HDG washer			SEALANT:	Silicone sealant		
WALL SEALANT	Silicone sealant			TANK FOUNDATION (BY OTHERS)	Concrete		
INTERNAL VERTICAL LADDER	N/A			WEIGHT DETAILS			
EXTERNAL VERTICAL LADDER	HDG Carbon steel			EMPTY TANK WEIGHT	18T		
MANHOLES & NOZZLES	HDG Carbon steel			ALU. DOME WEIGHT	#		
PLATFORM WITH HANDRAILS	HDG Carbon steel			OPERATIONG COND. WEIGHT	1018T		
LIGHTING ROD	HDG Carbon steel			TESTING & INSPECTION			
CONNECTION BOARD FOR DOME	N/A			CHEMICAL ANALYSIS CERTIFICATE	☒ Required ☐ Not Required		
LEVEL INDICATOR	N/A			MECHANICAL ANALYSIS CERTIFICATE	☒ Required ☐ Not Required		
ROOF ACCESS HATCH	HDG Carbon steel			HYDROTEST	☒ Witness ☐ Non Witness		
ROOF GRAVITY VENT	HDG Carbon steel			VISUAL INSPECTION	☒ Witness ☐ Non Witness		
CATHODIC PROTECTION	N/A						
Prepared	Checked	Approved	Sheet	Issue Description		Rev	Date
WONG	XU	DING	2 of 3	Issued for Client Review		D00	2025/7/29

Glass fused to steel tank volume chart

height diame	ring height m bottom	2	2.5	3	3.	4	4.	5	5.	6	6.	7	7.5	8	8.5	9	9.5	10	10.5	11	
		2.4	3	3.6	4	4.8	5	6	6	7.2	8.4	9	9.6	10.2	10.8	11.4	12	12.6	13.2		
D(m)	qty for ring	volume m 3																			
3.06	4	7.33	18	22	26	31	35	40	44	48	53	57	62	66	70	75	79	84	88	92	97
3.82	5	11.45	27	34	41	48	55	62	69	76	82	89	96	103	110	117	124	131	137	144	151
4.58	6	16.49	40	49	59	69	79	89	99	109	119	129	139	148	158	168	178	188	198	208	218
5.35	7	22.45	54	67	81	94	108	121	135	148	162	175	189	202	216	229	242	256	269	283	296
6.11	8	29.32	70	88	106	123	141	158	176	194	211	229	246	264	281	299	317	334	352	369	387
6.88	9	37.11	89	111	134	156	178	200	223	245	267	289	312	334	356	379	401	423	445	468	490
7.64	10	45.81	110	137	165	192	220	247	275	302	330	357	385	412	440	467	495	522	550	577	605
8.40	12	55.43	133	166	200	233	266	299	333	366	399	432	465	499	532	565	599	632	665	698	732
9.17	13	65.97	158	198	237	277	317	356	396	435	475	515	555	594	633	673	712	752	792	831	871
9.93	14	77.42	186	232	279	325	372	418	465	511	557	604	650	697	743	790	836	883	929	976	1022
10.70	15	89.79	216	269	323	377	431	485	539	593	647	700	754	808	862	916	970	1024	1078	1131	1185
11.46	16	103.08	247	309	371	433	495	557	618	680	742	804	866	928	990	1051	1113	1175	1237	1299	1361
12.22	17	117.28	281	352	422	493	563	633	704	774	844	915	985	1056	1126	1196	1267	1337	1407	1478	1548
12.99	18	132.40	318	397	477	556	636	715	794	874	953	1033	1112	1192	1271	1350	1430	1509	1589	1668	1748
13.75	19	148.44	356	445	534	623	712	802	891	980	1069	1158	1247	1336	1425	1514	1603	1692	1781	1870	1959
14.51	20	165.39	397	496	595	695	794	893	992	1092	1191	1290	1389	1488	1587	1686	1785	1885	1985	2084	2183
16.04	22	183.25	440	550	660	770	880	990	1100	1209	1319	1429	1539	1649	1759	1869	1979	2089	2199	2309	2419
16.81	23	202.04	485	606	727	849	970	1091	1212	1333	1455	1576	1697	1818	1940	2061	2182	2303	2424	2546	2667
17.57	24	221.74	532	665	798	931	1064	1197	1330	1463	1597	1730	1863	1996	2129	2262	2395	2528	2661	2794	2927
18.33	25	242.35	582	727	872	1016	1163	1309	1454	1600	1745	1890	2035	2181	2327	2472	2617	2763	2908	3054	3199
19.10	26	263.89	633	792	950	1108	1267	1425	1583	1742	1900	2058	2215	2375	2533	2692	2850	3008	3167	3325	3483
19.86	27	286.33	687	859	1031	1203	1374	1546	1718	1890	2062	2233	2405	2577	2749	2921	3092	3264	3436	3608	3780
20.63	28	309.70	743	929	1115	1301	1487	1672	1858	2044	2230	2416	2602	2787	2973	3159	3345	3531	3716	3902	4088
21.39	29	333.98	802	1002	1202	1403	1603	1803	2004	2204	2405	2605	2805	3006	3206	3407	3607	3807	4008	4208	4409
22.15	30	359.18	862	1078	1293	1509	1724	1940	2155	2371	2586	2802	3026	3233	3448	3664	3879	4095	4310	4526	4741
22.92	31	385.29	925	1156	1387	1618	1849	2081	2312	2543	2774	3005	3236	3468	3699	3930	4161	4392	4623	4855	5086
23.68	32	412.32	990	1237	1484	1732	1979	2227	2474	2721	2969	3216	3468	3711	3958	4206	4453	4700	4948	5195	5443
24.45	33	440.27	1057	1321	1585	1849	2113	2377	2642	2906	3170	3434	3698	3962	4227	4491	4755	5019	5283	5547	5812
25.21	34	469.13	1126	1407	1689	1970	2252	2533	2815	3096	3378	3659	3941	4222	4504	4785	5067	5348	5630	5911	6193
25.97	35	498.91	1197	1497	1796	2095	2395	2694	2993	3293	3592	3891	4191	4490	4790	5089	5388	5688	5987	6286	6586
26.74	36	529.60	1271	1589	1907	2224	2542	2860	3178	3495	3813	4131	4449	4766	5084	5402	5720	6037	6355	6673	6991
27.50	37	561.21	1347	1684	2020	2357	2694	3031	3367	3704	4041	4377	4714	5051	5388	5724	6061	6398	6735	7071	7408
28.27	38	593.74	1425	1781	2137	2494	2850	3206	3562	3919	4275	4631	4987	5344	5700	6056	6412	6769	7125	7481	7837
29.03	39	627.19	1505	1882	2258	2634	3010	3387	3763	4139	4516	4892	5268	5645	6021	6397	6774	7150	7526	7903	8279
29.79	41	661.55	1588	1985	2382	2778	3175	3572	3969	4366	4763	5160	5553	5954	6351	6748	7145	7542	7939	8335	8732
30.56	42	696.82	1672	2090	2509	2927	3345	3763	4181	4599	5017	5435	5853	6271	6689	7108	7526	7944	8362	8780	9198
31.32	43	733.01	1759	2199	2639	3079	3518	3958	4398	4838	5278	5718	6157	6597	7037	7477	7917	8356	8796	9236	9676
32.09	44	770.12	1848	2310	2772	3235	3697	4159	4621	5083	5545	6007	6469	6931	7393	7855	8317	8779	9241	9704	10166
32.85	45	808.15	1940	2424	2909	3394	3879	4364	4849	5334	5819	6304	6789	7273	7758	8243	8728	9213	9698	10183	10668
33.61	46	847.09	2033	2541	3050	3558	4066	4574	5083	5591	6099	6607	7115	7624	8132	8640	9149	9657	10165	10673	11182
34.38	47	886.95	2129	2661	3193	3725	4257	4790	5322	5854	6386	6918	7450	7983	8515	9047	9579	10111	10643	11176	11708
35.14	48	927.72	2227	2783	3340	3896	4453	5010	5566	6123	6680	7236	7793	8349	8906	9463	10019	10576	11133	11690	12246
35.91	49	969.41	2327	2908	3490	4072	4653	5235	5816	6398	6980	7561	8143	8725	9306	9888	10470	11051	11633	12215	12796
36.67	50	1012.02	2429	3036	3643	4250	4858	5465	6072	6679	7287	7894	8501	9108	9715	10323	10930	11537	12144	12751	13359
37.43	52	1055.64	2533	3167	3800	4433	5067	5700	6333	6967	7600	8233	8867	9500	10133	10767	11400	12033	12666	13300	13933
38.20	53	1099.98	2640	3300	3960	4620	5280	5940	6600	7260	7920	8580	9240	9900	10560	11220	11880	12540	13200	13860	14520
38.96		1145.33	2749	3436	4123	4810	5498	6185	6872	7559	8246	8934	9621	10309	11000	11682	12370	13057	13744	14431	15118
39.73		1191.61	2860	3575	4290	5005	5720	6435	7150	7865	8580	9295	10010	10724	11439	12154	12869	13584	14299	15014	15729
40.49		1238.79	2973	3716	4460	5203	5946	6689	7433	8176	8919	9663	10406	11149	11892	12636	13379	14122	14866	15609	16352
		1286.90	3089	3861	4633	5405	6177	6949	7721	8494	9266	10038	10810	11582	12354	13126	13898	14671	15443	16215	16987

Glass fused to steel tank volume chart

height diar	ring height m	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20		
		13.8	14.4	15	15.6	16.2	16.8	17.4	18	18.6	19.2	19.8	20.4	21	21.6	22.2	22.8	23.4	24		
D(m)	qty for ring	bottom area m2	volume m³																		
3.06	4	7.33	101	106	110	114	119	123	128	132	136	141	145	150	154	158	163	167	172	176	180
3.82	5	11.45	158	165	172	179	186	192	199	206	213	220	227	234	241	247	254	261	268	275	282
4.58	6	16.49	228	237	247	257	267	277	287	297	307	317	327	336	346	356	366	376	386	396	406
5.35	7	22.45	310	323	337	350	364	377	391	404	418	431	444	458	471	485	498	512	525	539	552
6.11	8	29.32	405	422	440	457	475	493	510	528	545	563	581	598	616	633	651	669	686	704	721
6.88	9	37.11	512	534	557	579	601	623	646	668	690	712	735	757	779	802	824	846	868	891	913
7.64	10	45.81	632	660	687	715	742	770	797	825	852	880	907	935	962	990	1017	1045	1072	1100	1127
8.40	11	55.43	765	798	832	865	898	931	965	998	1031	1064	1098	1131	1164	1197	1231	1264	1297	1330	1364
9.17	12	65.97	910	950	990	1029	1069	1108	1148	1187	1227	1267	1306	1346	1385	1425	1465	1504	1544	1583	1623
9.93	13	77.42	1068	1115	1161	1208	1254	1301	1347	1394	1440	1487	1533	1579	1626	1672	1719	1765	1812	1858	1905
10.70	14	89.79	1239	1293	1347	1401	1455	1509	1562	1616	1670	1724	1778	1832	1886	1940	1993	2047	2101	2155	2209
11.46	15	103.08	1423	1484	1546	1608	1670	1732	1794	1855	1917	1979	2041	2103	2165	2227	2288	2350	2412	2474	2536
12.22	16	117.28	1618	1689	1759	1830	1900	1970	2041	2111	2181	2252	2322	2393	2463	2533	2604	2674	2744	2815	2885
12.98	17	132.40	1827	1907	1986	2065	2145	2224	2304	2383	2463	2542	2622	2701	2780	2860	2939	3019	3098	3178	3257
13.75	18	148.44	2048	2137	2227	2316	2405	2494	2583	2672	2761	2850	2939	3028	3117	3206	3295	3384	3473	3562	3652
14.51	19	165.39	2282	2382	2481	2580	2679	2778	2878	2977	3076	3175	3275	3374	3473	3572	3672	3771	3870	3969	4069
15.28	20	183.25	2529	2639	2749	2859	2969	3079	3189	3299	3409	3518	3628	3738	3848	3958	4068	4178	4288	4398	4508
16.04	21	202.04	2788	2909	3031	3152	3273	3394	3515	3637	3758	3879	4000	4122	4243	4364	4485	4606	4728	4849	4970
16.81	22	221.74	3060	3193	3326	3459	3592	3725	3858	3991	4124	4257	4390	4523	4656	4790	4923	5056	5189	5322	5455
17.57	23	242.35	3344	3490	3635	3781	3926	4072	4217	4362	4508	4653	4799	4944	5089	5235	5380	5526	5671	5816	5962
18.33	24	263.89	3642	3800	3958	4117	4275	4433	4592	4750	4908	5067	5225	5383	5542	5700	5858	6017	6175	6333	6492
19.10	25	286.33	3951	4123	4295	4467	4639	4810	4982	5154	5326	5498	5669	5841	6013	6185	6357	6528	6700	6872	7044
19.86	26	309.70	4274	4460	4645	4831	5017	5203	5389	5575	5760	5946	6132	6318	6504	6689	6875	7061	7247	7433	7619
20.63	27	333.98	4609	4809	5010	5210	5410	5611	5811	6012	6212	6412	6613	6813	7014	7214	7414	7615	7815	8016	8216
21.39	28	359.18	4957	5172	5388	5605	5819	6034	6250	6465	6681	6896	7112	7327	7543	7758	7974	8189	8405	8620	8836
22.15	29	385.29	5317	5548	5779	6011	6242	6473	6704	6935	7166	7398	7629	7860	8091	8322	8553	8785	9016	9247	9478
22.92	30	412.32	5690	5937	6185	6432	6680	6927	7174	7422	7669	7917	8164	8411	8659	8906	9154	9402	9648	9896	10143
23.68	31	440.27	6076	6340	6604	6868	7132	7396	7661	7925	8189	8453	8717	8981	9246	9510	9774	10038	10302	10566	10831
24.45	32	469.13	6474	6755	7037	7318	7600	7881	8163	8444	8726	9007	9289	9570	9852	10133	10415	10696	10978	11259	11541
25.21	33	498.91	6885	7184	7484	7783	8082	8382	8681	8980	9280	9579	9878	10178	10477	10776	11076	11375	11674	11974	12273
25.97	34	529.60	7309	7626	7944	8262	8580	8897	9215	9533	9851	10168	10486	10804	11122	11439	11757	12075	12393	12710	13028
26.74	35	561.21	7745	8081	8418	8755	9092	9428	9765	10102	10439	10775	11112	11449	11785	12122	12459	12796	13132	13469	13806
27.50	36	593.74	8194	8550	8906	9262	9619	9975	10331	10687	11044	11400	11756	12112	12469	12825	13181	13537	13894	14250	14606
28.27	37	627.19	8655	9031	9408	9784	10160	10537	10913	11289	11666	12042	12418	12795	13171	13547	13924	14300	14676	15052	15429
29.03	38	661.55	9129	9526	9923	10320	10717	11114	11511	11908	12305	12702	13099	13496	13892	14289	14686	15083	15480	15877	16274
29.79	39	696.82	9616	10034	10452	10870	11289	11707	12125	12543	12961	13379	13797	14215	14633	15051	15469	15888	16306	16724	17142
30.56	40	733.01	10116	10555	10995	11435	11875	12315	12754	13194	13634	14074	14514	14953	15393	15833	16273	16713	17153	17592	18032
31.32	41	770.12	10628	11090	11552	12014	12476	12938	13400	13862	14324	14786	15248	15711	16173	16635	17097	17559	18021	18483	18945
32.09	42	808.15	11152	11637	12122	12607	13092	13577	14062	14547	15032	15516	16001	16486	16971	17456	17941	18426	18911	19396	19880
32.85	43	847.09	11690	12198	12706	13215	13723	14231	14739	15248	15756	16264	16772	17281	17789	18297	18805	19314	19822	20330	20838
33.61	44	886.95	12240	12772	13304	13836	14369	14901	15433	15965	16497	17029	17562	18094	18626	19158	19690	20222	20755	21287	
34.38	45	927.72	12803	13359	13916	14472	15029	15586	16142	16699	17256	17812	18369	18926	19482	20039	20595	21152	21709		
35.14	46	969.41	13378	13960	14541	15123	15704	16286	16868	17449	18031	18613	19194	19776	20358	20939	21521	22103			
35.91	47	1012.02	13966	14573	15180	15787	16395	17002	17609	18216	18824	19431	20038	20645	21252	21860	22467				
36.67	48	1055.54	14566	15200	15833	16466	17100	17733	18366	19000	19633	20266	20900	21533	22166						
37.43	49	1099.98	15180	15840	16500	17160	17820	18480	19140	19800	20460	21120	21780	22440	23100						
38.20	50	1145.33	15806	16493	17180	17867	18554	19242	19929	20616	21303	21990	22678	23365							
38.96	51	1191.61	16444	17159	17874	18589	19304	20019	20734	21449	22164	22879	23594								
39.73	52	1238.79	17095	17839	18582	19325	20068	20812	21555	22298	23042	23785									
40.49	53	1286.90	17759	18531	19303	20076	20848	21620	22392	23164	23936	24708									

Glass fused to steel tank volume chart

height		ring	21	21.	22	22.5	23	23.	24	24.	2	25.	26	26.	27	27.5	28	28.5	29	29.	30
diameter		height m	25.2	5	26.4	27	27.6	5	28.8	5	5	5	31.2	5	32.4	33	33.6	34.2	34.8	5	36
D(m)	qty for ring	bottom area m2	25.8				28.2		29.4		30.0		31.8				33.6		35.4		
3.06	4	7.33	185	189	194	198	202	207	211	21	220	224	229	233	237	242	246	251	255	259	264
3.82	5	11.45	289	295	302	309	316	323	330	6	344	350	357	364	371	378	385	392	399	405	412
4.58	6	16.49	416	426	435	445	455	465	475	33	495	505	515	524	534	544	554	564	574	584	594
5.35	7	22.45	566	579	593	606	620	633	647	7	673	687	700	714	727	741	754	768	781	795	808
6.11	8	29.32	739	756	774	792	809	827	844	48	880	897	915	932	950	968	985	1003	1020	1038	1056
6.88	9	37.11	935	957	980	1002	1024	1046	1069	1091	1113	1136	1158	1180	1202	1225	1247	1269	1291	1314	1336
7.64	10	45.81	1154	1182	1209	1237	1264	1292	1319	1347	1374	1402	1429	1457	1484	1512	1539	1567	1594	1622	1649
8.40	11	55.43	1397	1430	1463	1497	1530	1563	1597	1630	1663	1696	1730	1763	1796	1829	1863	1896	1929	1962	1996
9.17	12	65.97	1662	1702	1742	1781	1821	1860	1900	1940	1979	2019	2058	2098	2137	2177	2217	2256	2296	2335	2375
9.93	13	77.42	1951	1998	2044	2090	2137	2183	2230	2276	2323	2369	2416	2462	2509	2555	2601	2648	2694	2741	2787
10.70	14	89.79	2263	2317	2371	2424	2478	2532	2586	2640	2694	2748	2802	2855	2909	2963	3017	3071	3125	3179	3233
11.46	15	103.08	2598	2659	2721	2783	2845	2907	2969	3031	3092	3154	3216	3278	3340	3402	3463	3525	3587	3649	3711
12.22	16	117.28	2956	3026	3096	3167	3237	3307	3378	3448	3518	3589	3659	3730	3800	3870	3941	4011	4081	4152	4222
12.99	17	132.40	3336	3416	3495	3575	3654	3734	3813	3893	3972	4051	4131	4210	4289	4369	4449	4528	4608	4687	4766
13.75	18	148.44	3741	3830	3919	4008	4097	4186	4275	4364	4453	4542	4631	4720	4809	4898	4987	5076	5166	5255	5344
14.51	19	165.39	4168	4267	4366	4465	4565	4664	4763	4862	4962	5061	5160	5259	5359	5458	5557	5656	5755	5855	5954
15.28	20	183.25	4618	4728	4838	4948	5058	5168	5278	5388	5498	5608	5718	5827	5937	6047	6157	6267	6377	6487	6597
16.04	21	202.04	5091	5213	5334	5455	5576	5697	5819	5940	6061	6182	6304	6425	6546	6667	6788	6910	7031	7152	7273
16.81	22	221.74	5598	5721	5854	5987	6120	6253	6386	6519	6652	6785	6918	7051	7184	7317	7450	7583	7716	7849	7983
17.57	23	242.35	6107	6253	6398	6544	6689	6834	6980	7125	7271	7416	7561	7707	7852	7998	8143	8288	8434	8579	8725
18.33	24	263.89	6650	6808	6967	7125	7283	7442	7600	7758	7917	8075	8233	8392	8550	8708	8867	9025	9183	9342	9500
19.10	25	286.33	7216	7387	7559	7731	7903	8075	8246	8418	8590	8762	8934	9105	9277	9449	9621	9793	9964	10136	10308
19.86	26	309.70	7804	7990	8176	8362	8548	8733	8919	9105	9291	9477	9663	9848	10034	10220	10406	10592	10778	10963	11149
20.63	27	333.98	8416	8617	8817	9017	9218	9418	9619	9819	10019	10220	10420	10621	10821	11021	11222	11422	11622	11823	12023
21.39	28	359.18	9051	9267	9482	9698	9913	10129	10344	10559	10774	10989	11204	11422	11642	11863	12084	12304	12524	12745	12965
22.15	29	385.29	9709	10040	10371	10702	11033	11364	11695	12026	12357	12688	13019	13350	13681	14012	14343	14674	15005	15336	15667
22.92	30	412.32	10390	10638	10885	11133	11380	11627	11875	12122	12370	12617	12864	13112	13360	13607	13854	14101	14349	14596	14843
23.68	31	440.27	11095	11359	11623	11887	12151	12416	12680	12944	13208	13472	13736	14000	14264	14529	14793	15057			
24.45	32	469.13	11827	12104	12385	12666	12948	13229	13511	13792	14074	14355	14637	14918	15199						
25.21	33	498.91	12572	12872	13171	13471	13770	14069	14369	14668	14967	15267	15566	15865							
25.97	34	529.60	13346	13664	13982	14299	14617	14935	15253	15571	15889	16206	16524								
26.74	35	561.21	14143	14479	14816	15153	15490	15826	16163	16500	16836										
27.50	36	593.74	14962	15319	15675	16031	16387	16744	17100												
28.27	37	627.19	15805	16181	16558	16934	17310	17687	18063												
29.03	38	661.55	16671	17068	17465	17862	18259														
29.79	39	696.82	17560	17978	18396	18814															
30.56	40	733.01	18472	18912	19352																
31.32	41	770.12	19407	19869																	
32.09	42	808.15	20365																		
Close friend to start to business short																					

Glass fused to steel tank volume chart

diam	height	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	11
			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	13.2
D(m)	qty for ring	bottom area m2	volume m3																	
41.2	54	1385.85	3206	4008	4809	5611	6412	7214	8016	881	961	1042	1122	1202	1282	1362	1442	1522	1603	1683
5	55	1436.71	3326	4158	4989	5821	6652	7484	8315	914	994	1074	1154	1234	1314	1394	1474	1554	1634	1714
42.0	56	1488.48	3448	4310	5172	6034	6896	7758	8620	9482	10344	11206	12068	12930	13792	14654	15516	16378	17240	18102
2	57	1541.16	3572	4465	5359	6252	7145	8038	8931	9824	10717	11610	12503	13396	14289	15182	16075	16968	17861	18754
42.7	58	1594.76	3699	4623	5548	6473	7398	8322	9247	10172	11097	12022	12947	13872	14797	15722	16647	17572	18497	19422
8	59	1649.28	3958	4948	5937	6927	7917	8906	9896	10885	11875	12864	13853	14842	15831	16820	17809	18798	19787	20776
43.5	60	1704.72	4091	5114	6137	7160	8183	9205	10228	11251	12274	13297	14320	15343	16366	17389	18412	19435	20458	21481
44.3	61	1761.07	4227	5283	6340	7396	8453	9510	10566	11623	12680	13737	14794	15851	16908	17965	19022	20079	21136	22193
1	63	1818.33	4364	5455	6546	7637	8728	9819	10910	12001	13092	14183	15274	16365	17456	18547	19638	20729	21820	22911
45.0	64	1876.52	4504	5630	6755	7881	9007	10133	11259	12385	13511	14637	15763	16889	18015	19141	20267	21393	22519	23645
7	65	1935.62	4645	5807	6968	8130	9291	10452	11614	12775	13936	15097	16258	17419	18580	19741	20902	22063	23224	24385
45.8	66	1995.63	4790	5987	7184	8382	9579	10776	11973	13170	14367	15564	16761	17958	19155	20352	21549	22746	23943	25140
4	67	2056.56	4936	6170	7404	8638	9872	11105	12339	13573	14807	16041	17275	18509	19743	20977	22211	23445	24679	25913
46.6	68	2118.41	5235	6544	7852	9161	10470	11778	13087	14396	15705	17014	18323	19632	20941	22250	23559	24868	26177	27486
0	69	2181.18	5388	6735	8081	9428	10775	12122	13469	14816	16163	17510	18857	20204	21551	22898	24245	25592	26939	28286
47.3	70	2244.86	5543	6928	8314	9700	11085	12471	13857	15242	16628	18013	19398	20783	22168	23553	24938	26323	27708	29093
6	71	2309.45	5700	7125	8550	9975	11400	12825	14250	15675	17100	18525	19950	21375	22800	24225	25650	27075	28500	29925
48.1	72	2374.97	5859	7324	8789	10254	11719	13184	14648	16113	17578	19043	20508	21973	23438	24903	26368	27833	29298	30763
3	73	2441.40	6021	7526	9031	10537	12042	13547	15052	16558	18063	19568	21073	22578	24083	25588	27093	28598	30103	31608
48.8	74	2481.40	6186	7731	9277	10823	12370	13916	15462	17008	18554	20100	21646	23192	24738	26284	27830	29376	30922	32468
9	75	2508.74	6351	7939	9526	11114	12702	14289	15877	17465	19053	20641	22229	23817	25405	26993	28581	30169	31757	33345
49.6	76	2577.00	6519	8149	9779	11408	13038	14668	16298	17927	19556	21185	22814	24443	26072	27701	29330	30959	32588	34217
6	77	2646.18	6689	8362	10034	11707	13379	15051	16724	18396	20068	21740	23412	25084	26756	28428	30100	31772	33444	35116
50.4	78	2716.28	6869	8578	10293	12009	13724	15440	17155	18871	20586	22301	24016	25731	27446	29161	30876	32591	34306	36021
2	79	2787.29	7037	8796	10555	12315	14074	15833	17592	19351	21110	22869	24628	26387	28146	29905	31664	33423	35182	36941
51.1	80	2859.21	7214	9017	10821	12624	14428	16231	18035	19838	21641	23444	25247	27050	28853	30656	32459	34262	36065	37868
8	81	2932.06	7393	9241	11090	12938	14786	16635	18483	20331	22179	24027	25875	27723	29571	31419	33267	35115	36963	38811
51.9	82	3005.82	7575	9468	11362	13256	15149	17043	18937	20830	22724	24618	26512	28406	30300	32194	34088	35982	37876	39770
5	83	3080.49	7758	9698	11637	13577	15516	17456	19396	21335	23274	25213	27152	29091	31030	32969	34908	36847	38786	40725
52.7	84	3156.08	7944	9930	11916	13902	15888	17874	19860	21846	23832	25818	27804	29790	31776	33762	35748	37734	39720	41706
1	85	3232.59	8132	10165	12198	14231	16264	18297	20330	22363	24396	26429	28462	30495	32528	34561	36594	38627	40660	42693
53.4	86	3310.02	8322	10403	12483	14564	16645	18725	20806	22886	24967	27047	29127	31207	33287	35367	37447	39527	41607	43687
8	87	3388.36	8515	10643	12772	14901	17029	19158	21287	23415	25544	27673	29802	31931	34060	36189	38318	40447	42576	44705
54.2	88	3467.62	8709	10887	13064	15241	17419	19596	21773	23951	26128	28305	30482	32659	34836	37013	39190	41367	43544	45721
4	89	3547.79	8908	11133	13359	15586	17812	20039	22265	24492	26719	28946	31173	33400	35627	37854	40081	42308	44535	46762
55.0	90	3628.88	9105	11381	13658	15934	18210	20487	22763	25039	27316	29592	31869	34146	36423	38700	40977	43254	45531	47808
5	91	3710.18	9306	11633	13960	16286	18613	20939	23265	25592	27918	30245	32572	34899	37226	39553	41880	44207	46534	48861
50.7	92	3793.81	9510	11887	14265	16642	19020	21397	23774	26151	28528	30905	33282	35659	38036	40413	42790	45167	47544	49921
7	93	3877.65	9715	12144	14573	17002	19431	21860	24287	26714	29141	31568	33995	36422	38849	41276	43703	46130	48557	50984
56.5	94	3962.40	9923	12404	14885	17366	19846	22327	24808	27289	29770	32251	34732	37213	39694	42175	44656	47137	49618	52099
3	95	4048.07	10133	12666	15200	17733	20266	22800	25333	27866	30399	32932	35465	37998	40531	43064	45597	48130	50663	53196
57.3	96	4048.07	10133	12666	15200	17733	20266	22800	25333	27866	30399	32932	35465	37998	40531	43064	45597	48130	50663	53196
0	97	4134.66	10345	12932	15518	18104	20691	23277	25863	28450	31036	33623	36210	38797	41384	43971	46558	49145	51732	54319
58.0	98	4222.46	10560	13200	15840	18480	21120	23760	26400	29040	31680	34320	36960	39600	42240	44880	47520	50160	52800	55440
6	99	4310.58	10776	13471	16165	18859	21553	24247	26941	29635	32329	35023	37717	40411	43105	45799	48493	51187	53881	56575
58.8	100	4399.92	10995	13744	16493	19242	21990	24739	27488	30237	32986	35735	38484	41233	43982	46731	49480	52229	54978	57727
2	101	4490.17	11216	14020	16824	19628	22432	25236	28041	30845	33649	36453	39257	42061	44865	47669	50473	53277	56081	58885
59.5	102	4581.34	11449	14299	17159	20019	22879	25739	28599	31458	34317	37176	40035	42894	45753	48612	51471	54330	57189	60048
9	103	4673.42	11665	14581	17497	20413	23330	26246	29162	32078	34994	37910	40826	43742	46658	49574	52490	55406	58322	61238
60.3		4766.42																		
5		4860.34																		
61.1																				
2																				
61.8																				
8																				
62.6																				
4																				
63.4																				
1																				
64.1																				

Glass fused to steel tank volume chart

height diat	ring height m	bottom area m2	11.	12	12.5	13	13.	14	14.	1	15.	16	16.
			5	14.4	15	15.6	5	16.8	5	5	5	19.2	5
D(m)	qty for ring		volume m3										
41.25	54	1335.92	18436	19237	20039	20840	21642	22443	23245	24047	24848	25650	26451
42.02	55	1385.85	19125	19956	20788	21619	22451	23282	24114	24945	25777	26608	
42.78	56	1436.71	19827	20689	21551	22413	23275	24137	24999	25861	26723		
43.54	57	1488.48	20541	21434	22327	23220	24113	25006	25899	26793	27686		
44.31	58	1541.16	21268	22193	23117	24042	24967	25892	26816	27741			
45.07	59	1594.76	22008	22965	23921	24878	25835	26792	27749	28706			
45.84	60	1649.28	22760	23750	24739	25729	26718	27708	28698				
46.60	61	1704.72	23525	24548	25571	26594	27616	28639	29662				
47.36	62	1761.07	24303	25359	26416	27473	28529	29586					
48.13	63	1818.33	25093	26184	27275	28366	29457	30548					
48.89	64	1876.52	25896	27022	28148	29274	30400						
49.66	65	1935.62	26711	27873	29034	30196	31357						
50.42	66	1995.63	27540	28737	29934	31132	32329						
51.18	67	2056.56	28381	29615	30848	32082							
51.95	68	2118.41	29234	30505	31776	33047							
52.71	69	2181.18	30100	31409	32718								
53.48	70	2244.86	30979	32326	33673								
54.24	71	2309.45	31870	33256	34642								
55.00	72	2374.97	32775	34200									
55.77	73	2441.40	33691	35156									
56.53	74	2508.74	34621	36126									
57.30	75	2577.00	35563										
58.06	76	2646.18	36517										
58.82	77	2716.28	37485										

Glass fused to steel tank volume chart

height diat	ring height m	bottom area m2	30.	31	31.	32		33	33.	34
			5	37.2	5	38.4		39.6	5	40.8
D(m)	qty for ring		volume m3							
12.22	16	117.28	4293	4363	4433	4504	4574	4644	4715	4785
12.99	17	132.40	4846	4925	5005	5084	5164	5243	5323	5402
13.75	18	148.44	5433	5522	5611	5700	5789	5878	5967	6056
14.51	19	165.39	6053	6152	6252	6351	6450	6549	6649	6748
15.28	20	183.25	6707	6817	6927	7037	7147	7257	7367	7477
16.04	21	202.04	7395	7516	7637	7758	7879	8001	8122	8243
16.81	22	221.74	8116	8249	8382	8515	8648	8781	8914	9047
17.57	23	242.35	8870	9016	9161	9306	9452	9597	9743	9888
18.33	24	263.89	9658	9817	9975	10133	10292	10450	10608	10767
19.10	25	286.33	10480	10652	10823	10995	11167	11339	11511	11682
19.86	26	309.70	11335	11521	11707	11892	12078	12264	12450	12636
20.63	27	333.98	12224	12424	12624	12825	13025	13226		
21.39	28	359.18	13146	13361	13577	13792	14008	14223		
22.15	29	385.29	14102							



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