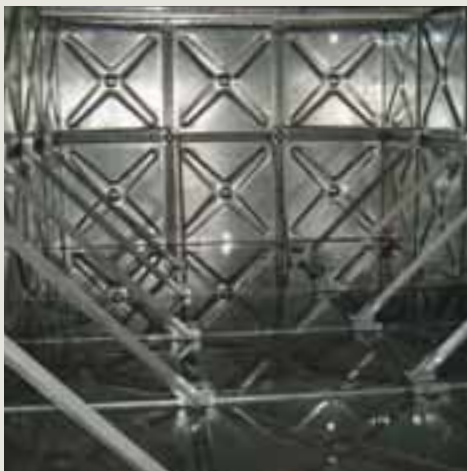
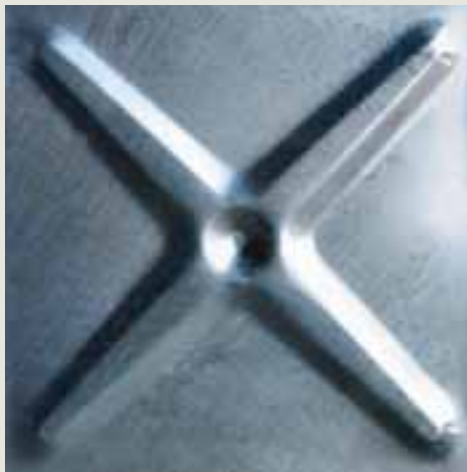


HOT DIPPED GALVANISED SECTIONAL PANEL TANK

Water storage for factory production, air conditioning make up, fire services, rural water reticulation supply, raw water, sedimentation and other general water storage purposes.





MANUFACTURING SPECIFICATIONS

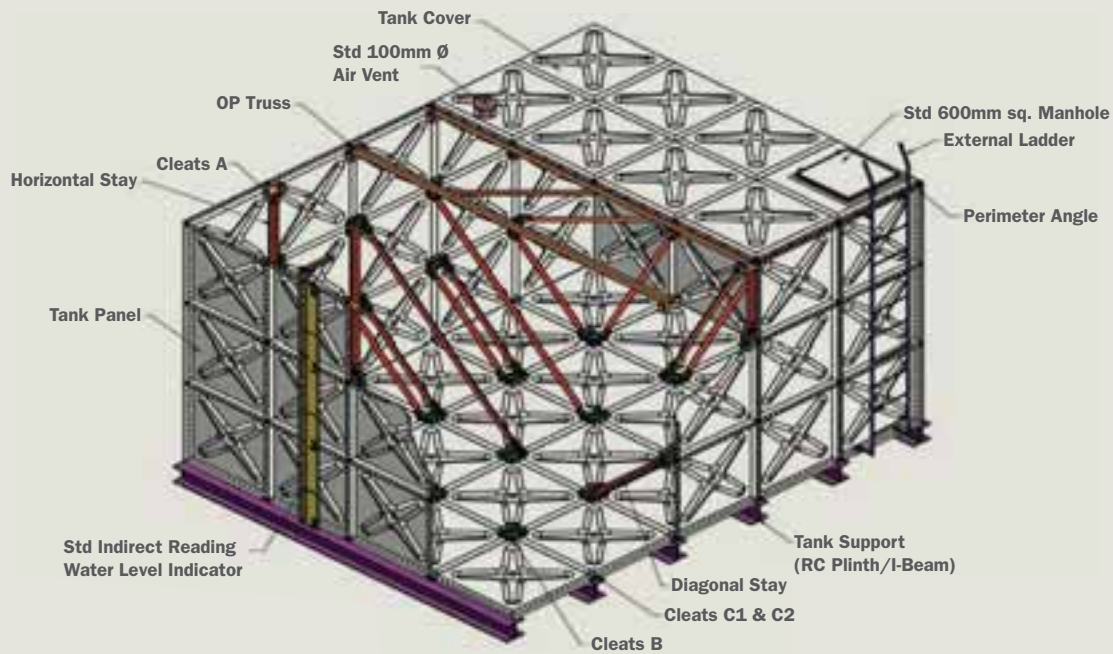
Purpose/Service	SUNNIK pressed steel sectional water tanks constructed with hydraulically pressed external flanged panels at an angle of 45° and 90° to face of panel conforming to British Standard 1564:1975.
Materials	The mild steel used in the manufacture of the panels, stays, cleats and pads is of BS EN 10025:2004 Grade S275 (replace BS4360:1972 Grade 43A) or its equivalent.
Tank Panels	Tank panels of 1.22m x 1.22m or 1.0m x 1.0m square are hot dipped galvanised to ISO 1461:1999(E); other dimension of panels are available upon special request.
Tank Covers	Tank covers of 1.5mm and 3.0mm thick are hydraulically pressed to 1.22m x 1.22m or 1.0m x 1.0m square; pitch or dome shape roof covers can be supplied upon special request.
Stays & Cleats	The sides and ends of tank interior are supported by angle stays of similar finish at the junction of two or more plates; other additional finishes can be supplied upon request. Angle Stays are connected sides to bottom, ends to bottom and/or horizontally sides to sides and sides to ends subject to manufacturer's design and details.
Bolts & Nuts	Bolts, nuts and washers are conform to BS 4190 or equivalent where necessary as determined by manufacturer.
Jointing Materials	Where necessary, non-toxic sealant and compound or equivalent are supplied for all tank panel joints.
Manholes & Vent	Lockable access manhole 600mm square are provided for each tank or compartment with 100mm Ø insect proof air vent.
Ladders	Hot dipped galvanised, aluminium or equivalent type are provided for both internal and external of tank. Safety cages can be supplied upon request.
Level Indicator	Standard mechanical mild steel level indicator or equivalent are provided. Galvanised type or other finishes are available on request.
Packing	Each bundle with markings is palletised and with colour coated strapped.
Compliance	BS 1564 : 1975 (Revised) with 1983 amendments for storage of liquids density of 1.0 at ambient temperature (30°C) and pH level 6 – 8:
Material Thickness	Tanks 1.22M Height: Bottom, sides and ends – 5.0mm thick Tanks 2.44M Height: Bottom, sides and ends – 5.0mm thick Tanks 3.66M Height: Bottom, sides and ends – 5.0mm thick Tanks 4.88M Height: Bottom and 1st tier of sides and ends – 6.0mm thick; 2nd, 3rd and top tiers of sides and ends – 5.0mm thick.

Notes

- Manufacturing specifications are subject to change without prior notice.
- Manufacturing specifications can be customised to buyer's requirement subject to manufacturer's approval and safety compliance.
- SUNNIK tank recommended to be installed by its appointed or approved skilled installers only.
- SUNNIK tank recommended to be checked and certified by its technician upon complete installation and prior filling of water to ensure performance otherwise warranty shall be revoked automatically.
- SUNNIK Warranty is issued upon complete sales and commissioning of tank.
- Installation Manual and Tank Operation & Maintenance Handbook are provided for SUNNIK tank product on request.

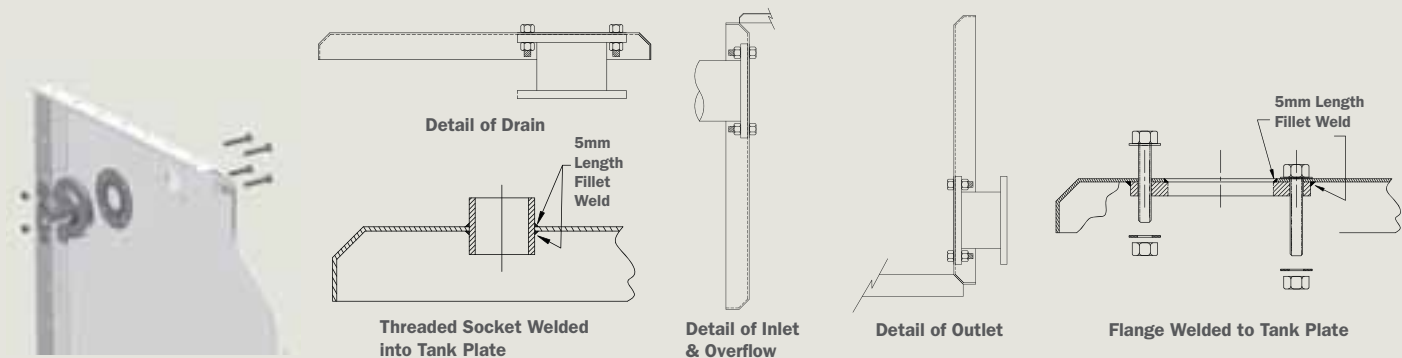


ISOMETRIC VIEW



TYPICAL PIPE CONNECTION

Note: Pipe Opening Only; either flanged or screwed type, will be provided upon request by buyer.



TANK COMPONENTS



TYPICAL PIPE CONNECTIONS



TYPICAL TANK PANELS & ROOF COVERS



Table of sizes, approximate weights and nominal capacities of tanks with external flanges-B.S. 1564:1975 (revised)

Height of Tank 1220mm (4 feet)					
Length x Breath		Nominal Capacity*			
mm	Feet	Plates* 5mm	M³	Gallons**	Approx. empty tank Wt. MT
1220 x 1220	4 x 4	5	1.82	400	0.40
2440 x 1220	8 x 4	8	3.64	800	0.65
3660 x 1220	12 x 4	11	5.45	1200	0.85
2440 x 2440	8 x 8	12	7.27	1600	0.95
3660 x 2440	12 x 8	16	10.91	2400	1.25
4880 x 2440	16 x 8	20	14.55	3200	1.55
3660 x 3660	12 x 12	21	16.36	3600	1.65
6100 x 2440	20 x 8	24	18.18	4000	1.90
4880 x 3660	16 x 12	26	21.82	4800	2.05
6100 x 3660	20 x 12	31	27.27	6000	2.45
4880 x 4880	16 x 16	32	29.09	6400	2.55
7320 x 3660	24 x 12	36	32.73	7200	2.85
6100 x 4880	20 x 16	38	36.36	8000	3.00
8540 x 3660	28 x 12	41	38.18	8400	3.30
7320 x 4880	24 x 16	44	43.64	9600	3.45
6100 x 6100	20 x 20	45	45.45	10000	3.55
8540 x 4880	28 x 16	50	50.91	11200	4.00
7320 x 6100	24 x 20	52	54.55	12000	4.10
9760 x 4880	32 x 16	56	58.18	12800	4.60
7320 x 7320	24 x 24	60	65.45	14400	4.65
8540 x 8540	28 x 28	77	89.09	19600	6.05

Height of Tank 2440mm (8 feet)					
Length x Breath		Nominal Capacity*			
mm	Feet	Plates* 5mm	M³	Gallons**	Approx. empty tank Wt. MT
2440 x 1220	8 x 4	14	7.27	1600	1.15
3660 x 1220	12 x 4	19	10.91	2400	1.60
4880 x 1220	16 x 4	24	14.55	3200	2.05
2440 x 2440	8 x 8	20	14.55	3200	1.65
3660 x 2440	12 x 8	26	21.82	4800	2.15
4880 x 2440	16 x 8	32	29.09	6400	2.65
3660 x 3660	12 x 12	33	32.73	7200	2.70
6100 x 2400	20 x 8	38	36.36	8000	3.10
4880 x 3660	16 x 12	40	43.64	9600	3.25
6100 x 3660	20 x 12	47	54.55	12000	3.85
4880 x 4880	16 x 16	48	58.18	12800	3.95
7320 x 3660	24 x 12	54	65.45	14400	4.40
6100 x 4880	20 x 16	56	72.73	16000	4.60
8540 x 3660	28 x 12	61	76.36	16800	5.00
7320 x 4880	24 x 16	64	87.27	19200	5.30
6100 x 6100	20 x 20	65	90.91	20000	5.45
8540 x 4880	28 x 16	72	101.82	22400	6.00
7320 x 6100	24 x 20	74	109.09	24000	6.05
9760 x 4800	32 x 16	80	116.36	25600	6.70
7320 x 7320	24 x 24	84	130.91	28800	6.95
8540 x 8540	28 x 28	105	178.18	39200	8.60

Height of Tank 3660mm (12 feet)					
Length x Breath		Nominal Capacity*			
mm	Feet	Plates* 5mm	M³	Gallons**	Approx. empty tank Wt. MT
3660 x 3660	12 x 12	45	49.09	10800	4.50
4800 x 3660	16 x 12	54	65.45	14400	5.45
4800 x 4800	16 x 16	64	87.27	19200	6.45
6100 x 4880	20 x 16	74	109.09	24000	7.50
6100 x 6100	20 x 20	85	136.36	30000	8.55
7320 x 6100	24 x 20	96	163.64	36000	9.80
7320 x 7320	24 x 24	108	196.36	43200	10.95
8540 x 7320	28 x 24	120	229.09	50400	12.30
8540 x 8540	28 x 28	133	267.27	58800	13.65
9760 x 8540	32 x 28	146	305.45	67200	15.00
10980 x 8540	36 x 28	159	343.64	75600	16.35
9760 x 9760	32 x 32	160	349.09	76800	16.45
10980 x 9760	36 x 32	174	392.73	86400	17.95
12200 x 9760	40 x 32	188	436.36	96000	19.40
10980 x 10980	36 x 36	189	441.82	97200	19.50
12200 x 10980	40 x 36	204	490.91	108000	21.05
12200 x 12200	40 x 40	220	545.45	120000	22.80
13420 x 12200	44 x 40	236	600.00	132000	24.45
13420 x 13420	44 x 44	253	660.00	145200	26.35
14640 x 13420	48 x 44	270	718.18	158000	28.10
14640 x 14640	48 x 48	288	785.45	172800	30.05
15860 x 14640	52 x 48	306	850.91	187200	31.90
15860 x 15860	52 x 52	325	921.82	202800	33.95

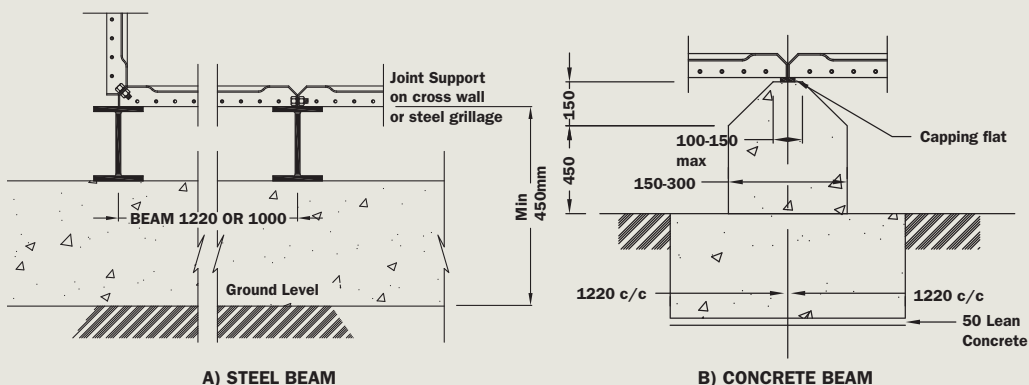
Height of Tank 4880mm (16 feet)							
Length x Breath		Plates*		Nominal Capacity*			
mm	Feet	5mm	6mm	M³	Gallons**	Approx. empty tank Wt. MT	
3660 x 3660	12 x 12	36	21	65.45	14400	6.25	
4800 x 3660	16 x 12	42	26	87.27	19200	7.60	
4800 x 4800	16 x 16	48	32	116.36	25600	8.75	
6100 x 4800	20 x 16	54	38	145.45	32000	10.05	
6100 x 6100	20 x 20	60	45	181.82	40000	11.50	
7320 x 6100	24 x 20	66	52	218.18	48000	13.00	
7320 x 7230	24 x 24	72	60	261.82	57600	14.60	
8540 x 7230	28 x 24	78	68	305.45	67200	16.10	
8540 x 8540	28 x 28	84	77	356.36	78400	17.75	
9760 x 8540	32 x 28	90	86	407.27	89600	19.50	
10980 x 8540	36 x 28	96	95	458.18	100800	21.10	
9760 x 9760	32 x 32	96	96	465.45	102400	21.30	
10980 x 9760	36 x 32	102	106	523.64	115200	23.20	
12200 x 9760	40 x 32	108	116	581.82	128000	24.90	
10980 x 10980	36 x 36	108	117	589.09	129600	25.30	
12200 x 10980	40 x 36	114	128	654.55	144000	26.95	
12200 x 12200	40 x 40	120	140	727.27	160000	29.00	
13420 x 12200	44 x 40	126	152	800.00	176000	31.00	
13420 x 13420	44 x 44	132	165	880.00	193600	33.25	
14640 x 13420	48 x 44	138	178	960.00	211200	35.35	
14640 x 14640	48 x 48	144	192	1047.27	230400	37.60	
15860 x 14640	52 x 48	150	206	1134.55	249600	39.90	
15860 x 15860	52 x 52	156	221	1229.09	270400	42.30	

Note: *Number of plates does not include partition plates.

**a) Nominal capacities are without allowance for freeboard. (Basing on 6.25imp. gallon per cu.ft)

**b) To estimate net capacities a reduction from 12.5% on smaller tanks to 2.5% on larger tank should be allowed.

TYPICAL TANK SUPPORT



- All measurement in mm.
- Tank 3.66Mht & 4880mmHt, steel capping flats shall be provided by purchaser on top of tank concrete support to ensure proper leveling and uniform distribution load.
- Support shall be effectively supported continuously under each bottom plate's flange in one direction @ 1220mm centres exceeding 150mm the length or breath tank. Tolerance of ± 6.0 mm for level and diagonals between each row of support.
- Min. clearance of 500mm shall provided all around the outside or underneath of tank for erection and maintenance purpose.

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