

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 Breadth		Nominal Capacity			
mm	Feet	Plates 5mm	M ³	Gallons	Empty Tank Wt. Metric Tons
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

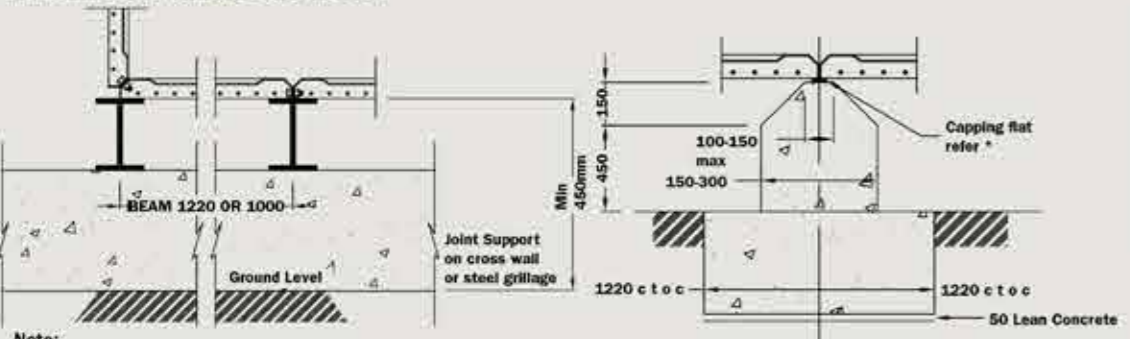
Height of Tank 2440mm (8 feet)					
Length x Breadth		Nominal Capacity			
mm	Feet	Plates 5mm	M ³	Gallons	Empty Tank Wt. Metric Tons
2440 x 1220	8 x 4	14	7.27	1600	1.15
3660 x 1220	12 x 4	19	10.91	2400	1.60
4880 x 1220	16 x 4	24	14.55	3200	2.05
2440 x 2440	8 x 8	20	14.55	3200	1.65
3660 x 2440	12 x 8	26	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	4.50
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 Breadth		Nominal Capacity			
mm	Feet	Plates 5mm	M ³	Gallons	Empty Tank Wt. Metric Tons
3660 x 3660	12 x 12	45	49.09	10800	4.50
4800 x 3660	16 x 12	64	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	106	196.36	43200	10.95
8540 x 7320	28 x 24	120	229.09	50400	12.30
8540 x 8540	28 x 28	133	287.27	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	158400	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 Breadth		Nominal Capacity			
mm	Feet	5mm 6mm	M ³	Gallons	Empty Tank Wt. Metric Tons
3660 x 3660	12 x 12	36	65.45	14400	6.25
4800 x 3660	16 x 12	42	87.27	19200	7.60
4800 x 4800	16 x 16	48	116.36	25600	8.75
6100 x 4800	20 x 16	54	145.45	32000	10.05
6100 x 6100	20 x 20	60	181.82	40000	11.50
7320 x 6100	24 x 20	66	218.18	48000	13.00
7320 x 7320	24 x 24	72	261.82	57600	14.60
8540 x 7320	28 x 24	78	305.45	67200	16.10
8540 x 8540	28 x 28	84	356.36	78400	17.75
9760 x 8540	32 x 28	90	407.27	89600	19.50
10980 x 8540	36 x 28	96	458.18	100800	21.10
9760 x 9760	32 x 32	96	465.45	102400	21.30
10980 x 9760	36 x 32	102	523.64	115200	23.20
12200 x 9760	40 x 32	108	581.82	128000	24.90
10980 x 10980	36 x 36	108	589.09	129600	25.30
12200 x 10980	40 x 36	114	654.55	144000	26.95
12200 x 12200	40 x 40	120	727.27	160000	29.00
13420 x 12200	44 x 40	126	800.00	176000	31.00
13420 x 13420	44 x 44	132	880.00	193600	33.25
14640 x 13420	48 x 44	138	960.00	211200	35.35
14640 x 14640	48 x 48	144	1047.27	230400	37.60
15860 x 14640	52 x 48	150	1134.55	249600	39.90
15860 x 15860	52 x 52	156	1229.09	270400	42.30

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

DETAIL OF TANK SUPPORT



Note:
i) All measurement in mm
ii) Tank support's length to exceed 150mm of tank length

TABLE OF MAXIMUM LOADS OF WATER STORAGE

Depth of Tank (ft)	Loads on Wall KN/M
4	16.10
8	32.2
12	48.3
16	64.4

* For tank with height of 12ft or 3.66mtr and above
i) for tank leveling
ii) to prevent shearing of tank
Range into concrete

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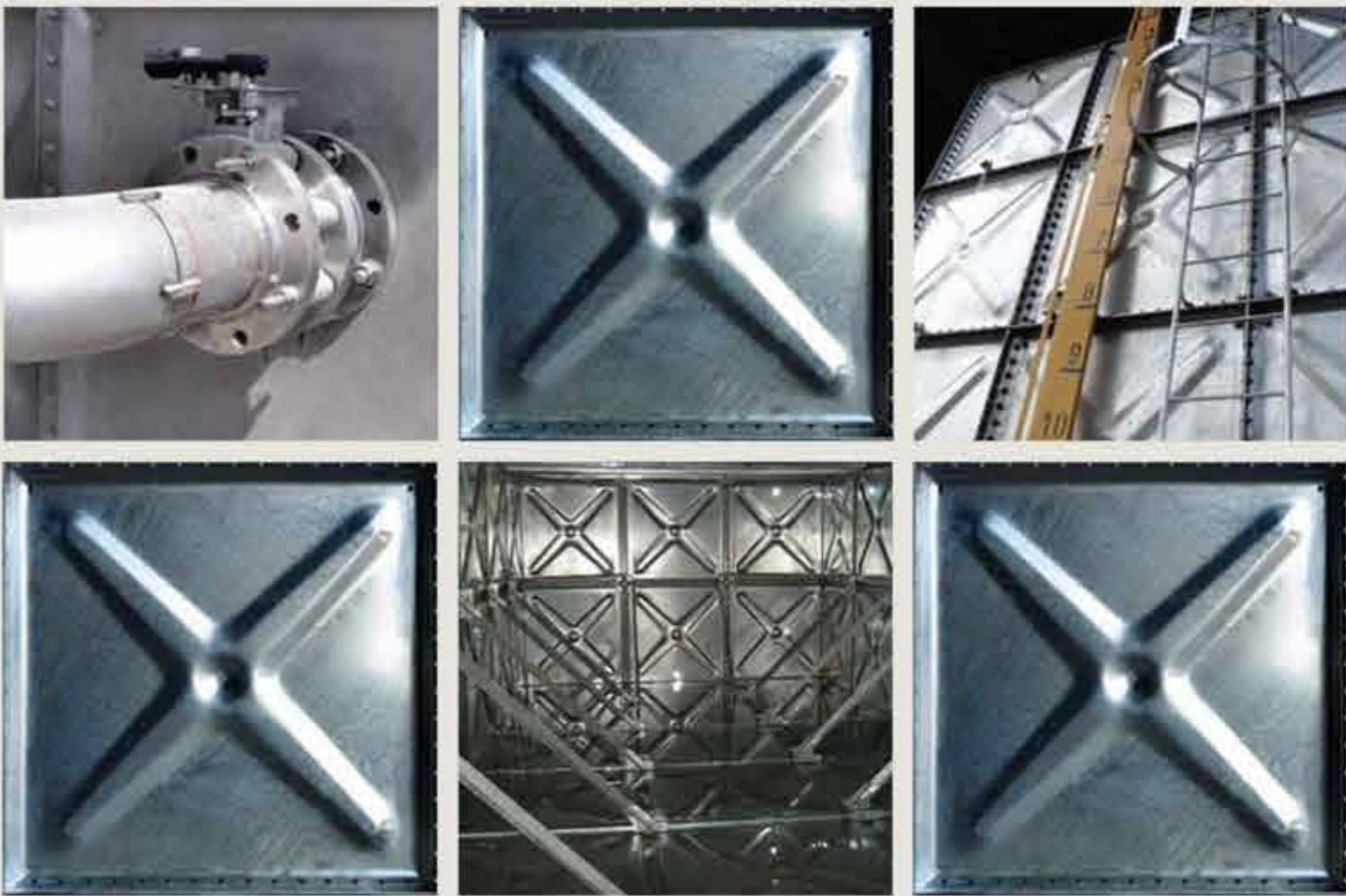


THE PRODUCTS



HOT DIPPED GALVANISED SECTIONAL PANEL TANK

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





MANUFACTURING SPECIFICATIONS

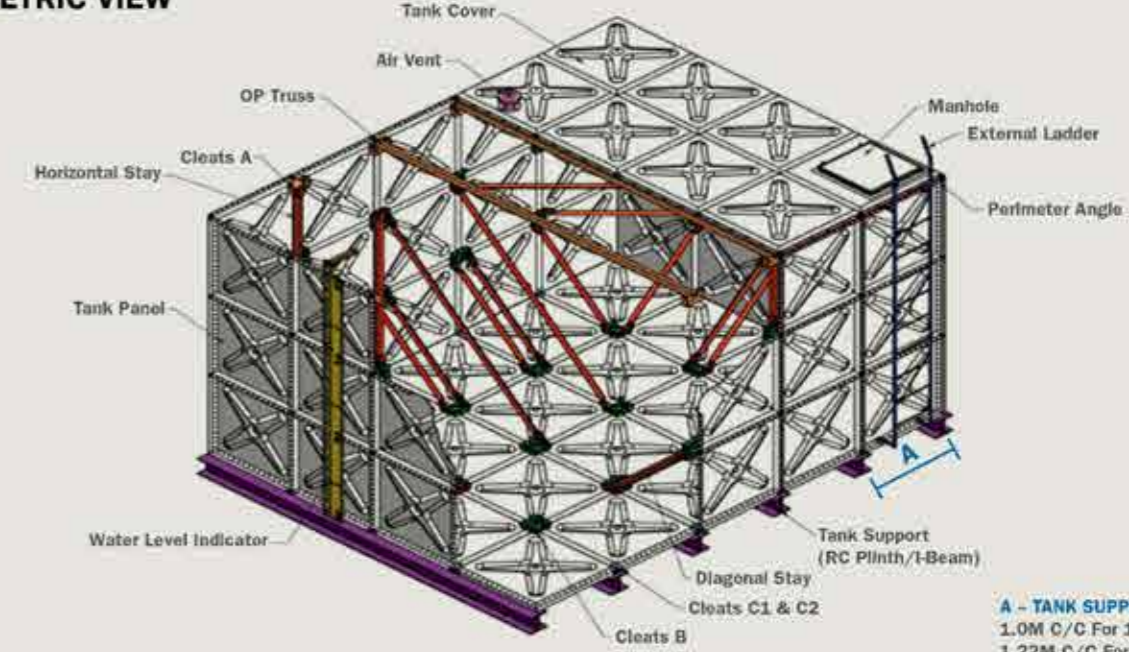
Purpose	SUNNIK pressed steel sectional water tanks constructed with hydraulically pressed external flanged panels conform to British Standard 1564:1949 & 1975 inclusive of amendment dated May, 1983.
Materials	The mild steel used in the manufacture of the plates, stays, cleats and pads for installation conform to the requirement of BS 4360:1972 grade 43A or its equivalent.
Tank Panels	Tank panels of 1.22 x 1.22m or 1.0 x 1.0m square are hot dipped galvanised to ISO 1461:1999(E); other dimension of panels are available on special request by purchaser.
Tank Covers	Tank covers of 1.5mm and 3.0mm thick are hydraulically pressed to 1.22 x 1.22m or 1.0 x 1.0m square; pitch or dome shape roof covers can be supplied on request by purchaser.
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 by purchaser. Angle Stays are connecting 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 and BS 3692 where necessary as determined by manufacturer.
Jointing Materials	Where necessary, non-toxic foam, rubber bitumen sealant and compound or equivalent are supplied for all panel joints.
Manholes & Vent	Lockable access manhole 600mm square are provided for each tank or compartment with 100mm diameter 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 pelletised and with colour coated strapped.
Compliance	BS 1564 : 1975 (Revised) with 1983 amendments for liquids density of 1.0 at ambient temperature (38 degree C) and pH level 6 – 8: 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 sectional tank products shall be installed by its appointed or approved skilled installers only falling which SUNNIK Tank Product Warranty is revoked and void automatically.
- SUNNIK sectional tank products must be checked and certified by its technician upon complete installation or and prior filling of water into said tanks.
- SUNNIK tanks of 3.66M (H) and above must be anchored onto its tank supports where seismic restraint.
- Steel capping flats must be placed onto top surfaces of R.C. beam supports and details seismic restraint are required.
- Installation Manual and Tank Operation & Maintenance Handbook are provided for SUNNIK tank product on request.
- SUNNIK Tank Product Warranty is issued upon complete sales or and tank commissioned.

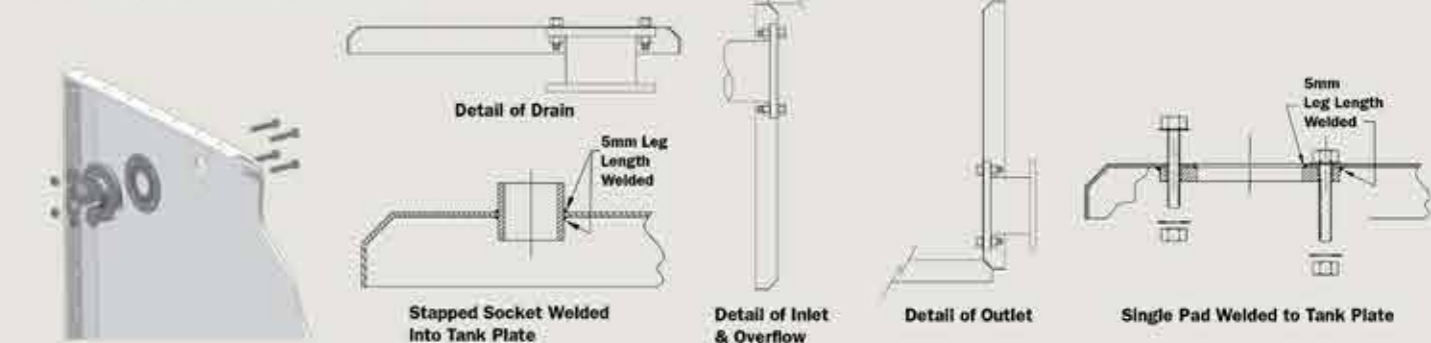


ISOMETRIC VIEW



A - TANK SUPPORT
1.0M C/C For 1.0M Sq. Panel Tank
1.22M C/C For 1.22M Sq. Panel Tank

TYPICAL PIPE CONNECTION



TANK COMPONENTS



TYPICAL PIPE CONNECTIONS



TYPICAL TANK PANELS & ROOF COVERS

