

**Sintex**

**SMC PANEL TANKS**



**ANY SIZE • ANY SITE**



# Sintex SMC PANEL TANKS

Constructing tanks with large storage capacities has always been a major problem. It takes a lot of time, money and effort to build or install such tanks. And if the region happens to be mountainous or remote the task becomes even more difficult.

Sintex the foremost innovators and leaders in plastic products now brings to you SMC Panel Tanks that overcome all these problems. Available in large capacities ranging from 500 litres to 10,00,000 litres and more, these tanks have been in use all over the world for the last three decades. Where they have proved to be superior compared to RCC or MS Tanks.

Absolutely maintenance-free and with a life expectancy of over 50 years, the discerning feature of these tanks is that they are available in a knocked-down-state, in the form of light weight Sintex SMC Panels of standard size of 1 M x 1M, 1M x 0.5 M and 0.5 M x 0.5 M. Hence, they can easily be carried over the most difficult terrain by any form of transport, including bullock carts or mules. Made out of advanced composite of plastic comprising glassfibre reinforcement and formulation of selected resins, these panels have flanges on four sides. Tanks of large sizes are formed by bolting the panels on flanges using special sealant and gaskets to form leak-proof construction. The Sintex SMC Panel Tanks can be quickly and conveniently assembled and installed using conventional tools and labour.

## THE UNBEATABLE ADVANTAGES

- Maintains quality of stored water even for long duration.
- Light weight, extremely strong and very durable panels.
- Very easy to handle and transport.
- Easy in installation by plumbers and general technicians with the help of conventional tools.
- Easy to assemble at site in any size.
- 100% weather, water, moisture & rot-proof.
- 100% safe for drinking water storage as tanks are made from FDA approved grades of materials.
- Easy to dismantle and shift in case of change in site.
- Easy to increase or decrease the size.
- Ideal for storing water right from sub-zero to extremely hot climates.
- Can be provided with extra insulation with PUF to make them suitable for extremely cold climates, solar water heating systems, chilling plants and similar applications.
- Proven life expectancy of over 50 years in the worst climates of the world.

## APPLICATIONS

Sintex SMC Panel type tanks have multifarious applications but are specially suited in the following situations:

- Storage of treated water, DM water and Process water in industry and utility organisations.
- Rural, semi-urban & urban water supply schemes.
- Water supply schemes for housing colonies.
- Water storage for fire fighting operations.
- Water storage in coastal, hilly, extremely hot & cold and difficult terrains.
- Overhead water storage in multistoreyed buildings.
- On-site water storage in construction projects.

- Water storage & transportation in the forward areas.
- Water and Waste Water storage in effluent treatment plants.
- Water storage in chemical, pharmaceutical and corrosive factory areas.
- Hot water storage for solar water heating systems with the help of optional PUF insulation on panels.
- Chilled water storage with the Chilling & Air-conditioning plants with the help of PUF insulation on panels.

## APPROVALS & CERTIFICATES

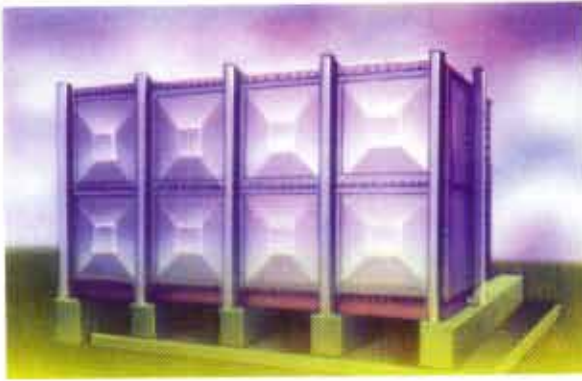
Sintex SMC panel tanks have passed stringent tests and received approvals from renowned departments/institutes such as Railways, PWD, MES, Municipal Corporation of Greater Bombay, CPWD, Defence etc.

Sintex SMC panel tanks have also proven their worth at international level. Approval by PWD Department, Abu Dhabi (UAE) and Ministry of Electricity & Water, Kuwait itself is a testimony to the quality of Sintex SMC panel tanks.

Sintex SMC panel tanks are successfully tested & certified for parameters like mechanical properties, overall migration, potability etc. by institutes like CIPET, Ahmedabad, L.D. College of Engineering, Ahmedabad, PDTC, New Delhi, Haffkins

Bombay etc.

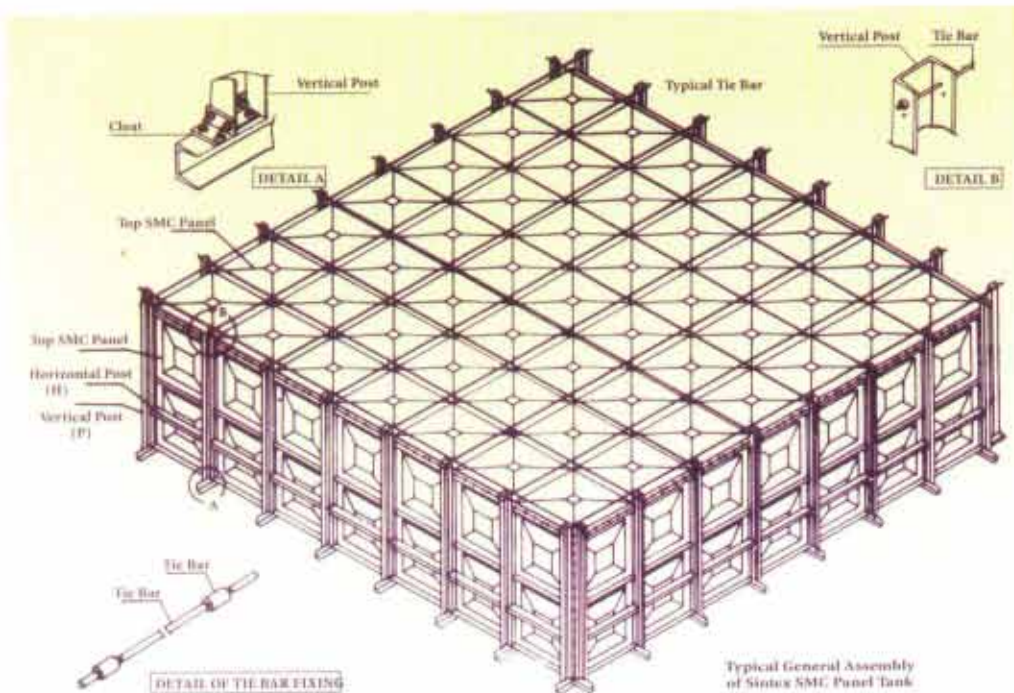




## PARTS & COMPONENTS

In general a Sintex SMC Panel tank shall consist of the following parts

Name of Parts	Specification/Material of Construction
Standard SMC Panels Of 1 M x 1 M or 1 M x 0.5 M or 0.5M x 0.5 M size for bottom, sides and top construction.	Hot press moulded UV stabilised panles made from sheet moulding compounds (SMC) comprising glass fibre and formulation of selected resins.
Corner angles	Same as panels
Manhole cover	Hot press moulded made from SMC having double lip construction, mosquito-proof design and hinged type
Sealant	Non - reactive sealant with high level of resistance to ageing and superior recovery from compression
Bolts, nuts & washers	Galvanised Steel S.S. hardware available optionally
External reinforcement (Wherever applicable)	Steel with anticorrosive paint
Internal roof supports (Wherever applicable)	Plastic
External ladder (Wherever applicable)	Steel with anticorrosive paint
Internal ladder (Wherever applicable)	GRP/Ladders made out of Pultruded sections
Connections for inlet outlet/ overflow / drain	G.I. Flanged type
Air-vent	Plastic
Water level indicator without glass	Plastic



## RANGE

The table given below shows the standard measurements of Sintex SMC panel tanks. The dimensions of special capacity tanks can also be furnished on request.

Code No.	Nominal Capacity (KL)	Dimensions (Metres)		
		Length	Breadth	Depth
GS-PT-008-S2	8	02	02	02
GS-PT-010-S2.5	10	02	02	02.5
GS-PT-018-S2	18	03	03	02
GS-PT-022-S2.5	22.5	03	03	02.5
GS-PT-027-S3	27	03	03	03
GS-PT-032-S2	32	04	04	02
GS-PT-040-S2.5	40	04	04	02.5
GS-PT-048-S3	48	04	04	03
GS-PT-050-S2	50	05	05	02
GS-PT-062-S2.5	62.5	05	05	02.5
GS-PT-072-S2.5	72	06	06	02
GS-PT-075-S3	75	05	05	03
GS-PT-090-S2.5	90	06	06	02.5
GS-PT-098-S2	98	07	07	02
GS-PT-108-S3	108	06	06	03
GS-PT-122-S2.5	122.5	07	07	02.5
GS-PT-128-S2	128	08	08	02
GS-PT-147-S3	147	07	07	03
GS-PT-160-S2.5	160	08	08	02.5
GS-PT-162-S2	162	09	09	02
GS-PT-192-S3	192	08	08	03
GS-PT-200-S2	200	10	10	02
GS-PT-202-S2.5	202.5	09	09	02.5
GS-PT-242-S2	242	11	11	02
GS-PT-243-S3	243	09	09	03
GS-PT-250-S2.5	250	10	10	02.5
GS-PT-288-S2	288	12	12	02
GS-PT-300-S3	300	10	10	03
GS-PT-302-S2.5	302.5	11	11	02.5
GS-PT-338-S2	338	13	13	02
GS-PT-360-S2.5	360	12	12	02.5
GS-PT-363-S3	363	11	11	03
GS-PT-422-S2.5	422	13	13	02.5
GS-PT-432-S3	432	12	12	03
GS-PT-450-S2	450	15	15	02
GS-PT-490-S2.5	490	14	14	02.5
GS-PT-507-S3	507	13	13	03
GS-PT-512-S2	512	16	16	02
GS-PT-562-S2.5	562.5	15	15	02.5
GS-PT-588-S3	588	14	14	03
GS-PT-640-S2.5	640	16	16	02.5
GS-PT-675-S3	675	15	15	03
GS-PT-768-S3	768	16	16	03
GS-PT-867-S3	867	17	17	03
GS-PT-972-S3	972	18	18	03
GS-PT-1083-S3	1083	19	19	03
GS-PT-1200-S3	1200	20	20	03



## INSTALLATION

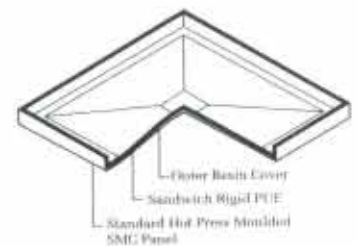
As the name suggests, Sintex panel tanks are supplied in knocked down condition in the form of panels, stays, supporting frames, nuts, bolts etc. On the basis of the drawing furnished with each & every proposed tank, the erection & installation can be carried out at site by people connected with the plumbing & sanitation engineering. Nevertheless, we are in a position to offer turnkey facility for erection & installation of these tanks anywhere in the country.

Many of Sintex panel tanks are required to be installed on stagings. We have already prepared designs & drawings for the stagings of up to 10 metres height for different capacities which can be furnished to you against placement of order.

## SINTEX INSULATED SMC PANEL TANKS

Sintex has successfully developed insulated SMC panels to meet the extreme temperature requirements of hot and cold regions. Available in standard sizes of 1 M x 1 M,

1 M x 0.5 M and 0.5 M x 0.5 M Sintex insulated panel have rigid polyurethane foam sandwiched in between the standard hot press moulded SMC panel and the resin cover as shown in the sketch.



Comparison of thermal properties of Sintex SMC Panel Tanks Vs. Steel Tanks

Type	Thermal Conductivity (Kcal/M-hr-°C)	Coefficient of overall Thermal Transmission (Kcal/M3-hr-°C)	
		Air Panel Air	Water Panel Air
Steel	37.00	14.3	24.0
Sintex (standard) SMC Panel Tanks	0.15	3.0	5.0
Sintex (Insulated) SMC Panel Tanks	0.02	0.9	1.0

The specifications and information given herein are in good faith but without warranty.



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