

THE FUTURE
FLOWS HERE



SFMC®
PIPES & FITTINGS

Savoir Faire Manufacturing Company Pvt. Ltd.



SFMC GRP SMC Panel Tank

The Next Generation
of High-Capacity
Water Storage

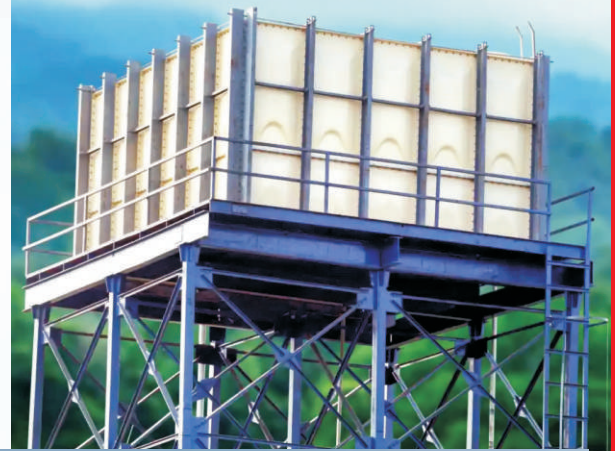
IS 14398:1996



AN ISO 9001:2015 CERTIFIED COMPANY

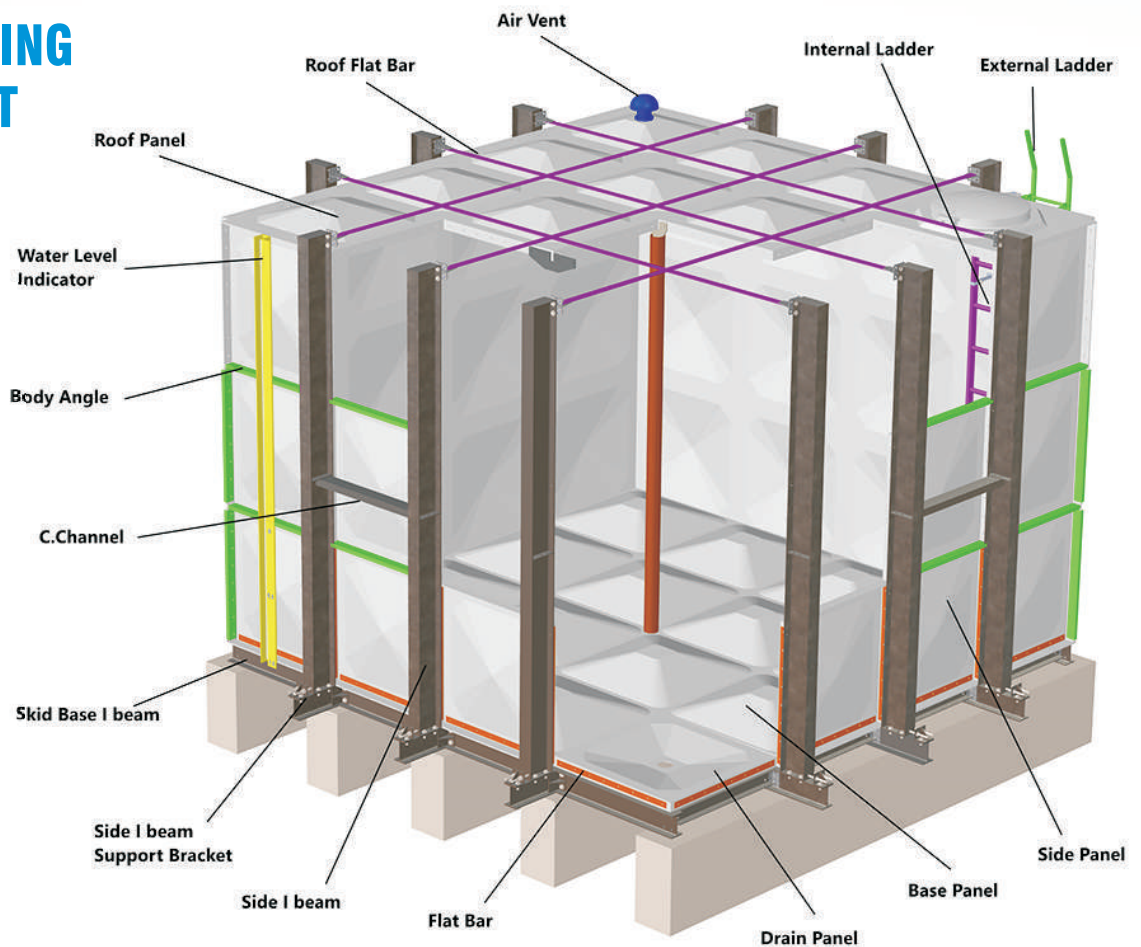
What is GRP SMC WATER TANK ?

- Sheet Molding Compound (SMC) is a mixture of unsaturated polyester resin with impregnating augmentation material, filling material and glass fiber
- The SMC water tank body (Floor, wall and ceiling) is made of bolting type square SMC panels, which are molded under high heat & pressure
- SFMC SMC water tanks guarantee sanitation, excellent durability, absolute water tightness, versatile capacity design and easy installation.



EXTERNAL BRACING REINFORCEMENT

No Metals Are In
Contact With Water



SANITATION

SFMC GRP SMC water tanks meet the Food Sanitation Act. Bacteria or germ formation and growth are prevented by blocking sunlight transmission completely

EXCELLENT DURABILITY

Due to external supporting system gives, no metal parts in touch of water, which gives more life.

ABSOLUTE WATER TIGHTNESS

The foam type gasket with excellent elasticity and resilience assures perfect water tightness.

VERSATILE CAPACITY DESIGN

Various panels make installation of tanks possible in any dimensions or capacities

EASY INSTALLATION

The installation of tank is very user friendly even in the restricted area by using standardized bolting type panels

OUTSTANDING INSULATION PERFORMANCE

Pre-insulated panels are also available as an option. By using the PU foam insulated panels, the temperature change of the water in the tank can be minimized at high or low environmental temperature



CHARACTERISTICS OF SFMC GRP SMC WATER TANK

STANDARD DESIGN OF SFMC GRP SMC TANK

SFMC Panel Tanks are approved & designed to the most relevant international GRP panel type water tank's standards such as the latest

The Panel shapes are designed using Finite Element Analysis to allow optimization and ensure the required panel and tank safety factor.

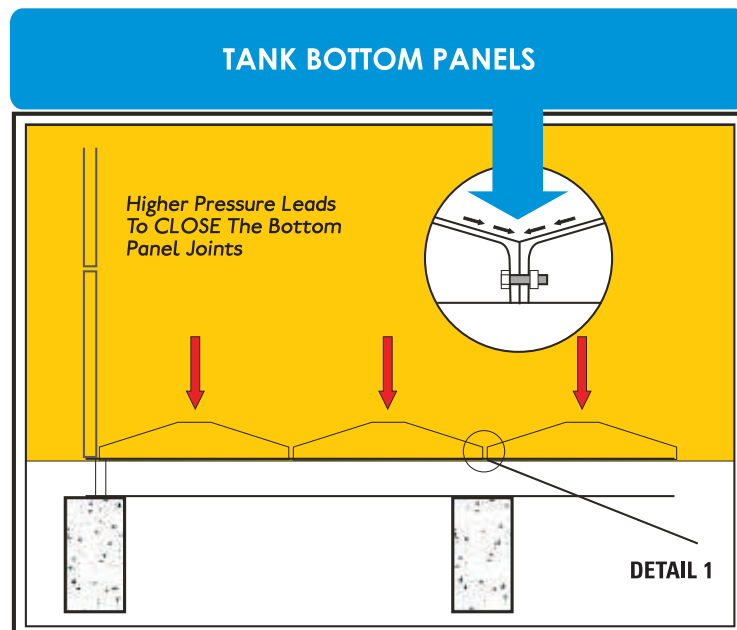
Panel Strength	: Hydrostatic Pressure x6 (Safety Factor)
Wind Velocity	: 60 m/sec
Roof Load	: 120 kgf/m ²
Ambient Temperature	: 55°C (Max)
Water Temperature	: 65°C (Max)
Seismic Load	: Peak Ground Acceleration PGA = 0.25 (Group A)
Seismic Zone	: B2
Upgraded Design Available	: (Group B) 0.25 < PGA < 0.40
for Higher Seismic Zones	: (Group C) PGA > 0.40

	QUALITY ITEM	UNIT	UNIT	IS STANDARD
PHYSICAL TEST PARAMETERS	PANEL THICKNESS	MM.	6-12	3-5
	TENSILE STRENGTH	Mpa	95	≥ 60
	BENDING STRENGTH	Mpa	140	≥ 80
	ELASTIC MODULUS	Mpa	11592	≥ 6000
	GLASS CONTENT	%	31	≥ 25
	BARCOL HARDNESS	—	53	≥ 30
MELTING TEST PARAMETERS	ODOR AND FLAVOR		NONE	NONE
	DEGREE OF TURBIDITY	DEGREE	≥ 0.5	≥ 2
	DEGREE OF COLOUR	DEGREE	≥ 1	≥ 5
	PB	ppm	NOT DETECTED	≥ 0.1 PPM
	KMM04 CONSUMPTION	ppm	1	≥ 10 PPM
	PH		6.2	5.8~8.6
	PHENOL	ppm	NOT DETECTED	≥ 0.005ppm
	EVAPORATION RESIDUE	ppm	3	≥ 30ppm
	RESIDUAL CHLORINE REDUCTION	ppm	0.1	≥ 0.2ppm

ADVANTAGES

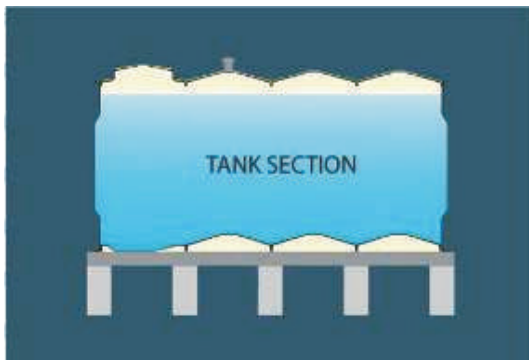
PREVENTS LEAKAGE

SFMC Panel type water tank uses exclusively designed convex panels for the base. The convex panel is so designed that any increase in water pressure closes the bottom panels joints further. Joints are sealed with a special rubber sealant of patented "O Ringed" material. The combined flange thickness at the panel joints is more than sufficient to meet the stresses imposed. This "Self-Sealing" feature eliminates the possibility of separation and hence leakage of the tank.



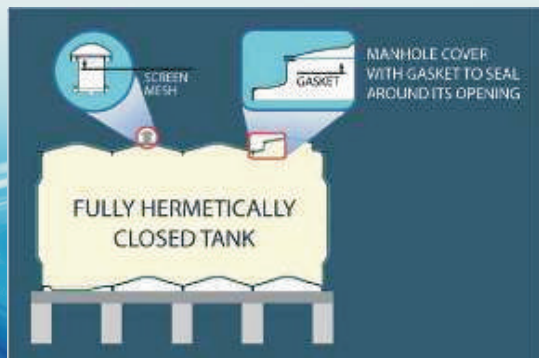
SMOOTH SURFACE AND METAL FREE INSIDE

The hot pressing method for SMC Panels produces a glass like surface which does not allow the adherence of bacteria or any organic matter and therefore does not allow algae growth. No metal components are in contact with water. Reinforcements, bolts and nuts for assembly are on the outer side, allowing external flanging and access if bolt tightening is necessary.



DUST, INSECT AND LIGHT PROOF DESIGN

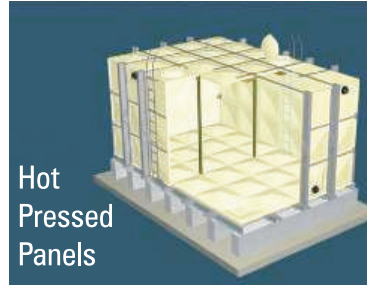
Tanks are completely sealed, using fully hermetical manhole covers and air vents that are designed to be dust and insect proof. SFMC GRP Panel Tanks are light proof preventing an essential element for algae growth. Light transmittance for all panels including the manhole cover is 0.00%



ADVANTAGE OF SFMC GRP SMC PANEL TANKS

PROTECTION AGAINST STYRENE EMISSION AND ALGAE GROWTH

The hot pressing method for panels produces a glass like finish on the surface which does not allow algae to grow. Styrenes are liberated from the panels due to the high temperature at which they are pressed making it an ideal product to store drinking, medical process, food and beverage and manufacturing processed waters.



NO CORROSION

Corrosion inside SFMC GRP SMC Panel Tanks is not possible because of unique non-corrosive chemical composition of its GRP panels. Specially designed external bracing used in construction ensures that no steel comes in direct contact with water.



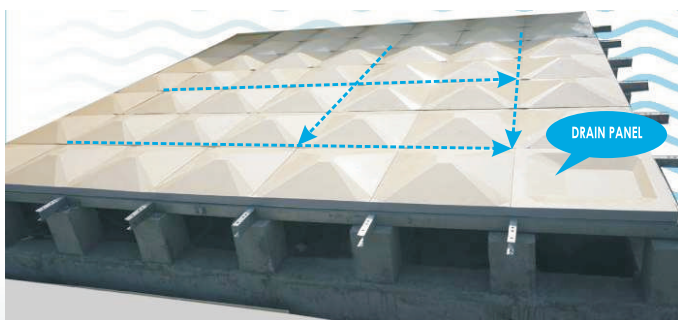
LONG LIFE EXPECTANCY

Average serviceable life for SFMC Tanks in normal operating conditions without maintenance is in the range of 40 Years.



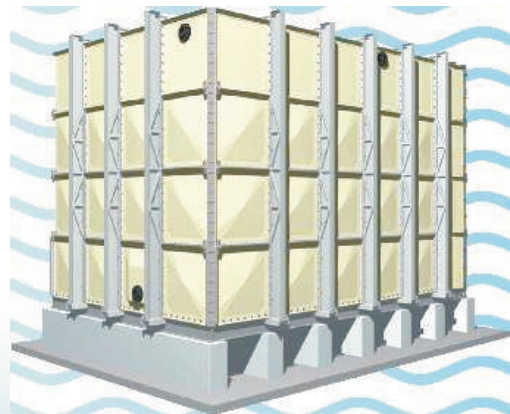
DRAIN COMPLETELY

The combination of convex base panels with a concave drain panel ensures complete and faster drainage. A unique feature of the SFMC GRP SMC Panel Tank, the concave drain panel was especially designed to facilitate periodic tank cleaning and inspection.



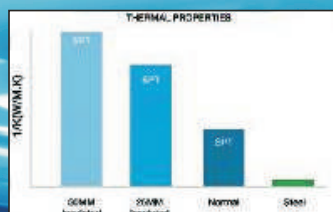
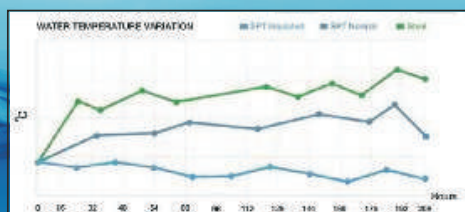
HIGH SAFETY FACTOR

SFMC Panels are individually designed using finite element analysis software for optimal performance with a safety factor of 6 times bearing strength above maximum anticipated load. Our Tanks are designed to withstand strong winds and earthquakes.



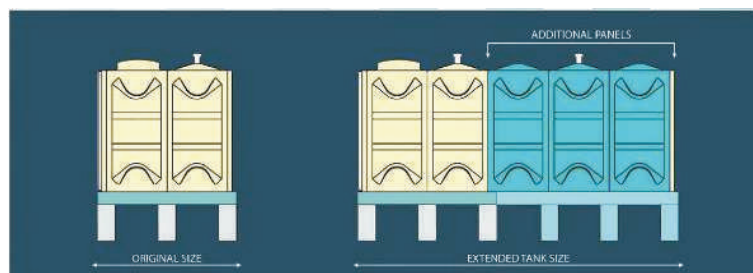
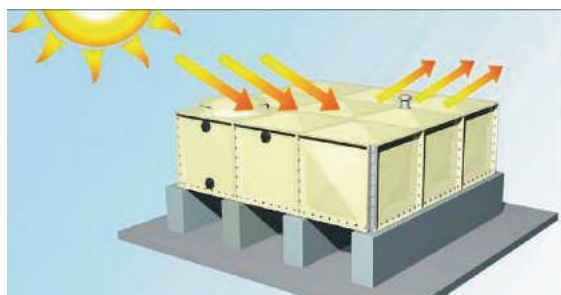
THERMAL CONDUCTIVITY, EXPANSION AND CONTRACTION

Non-insulated Panels have 240 times less thermal conductivity than metal, ensuring stable temperature. Modular panels with low thermal coefficient and flexible rubber sealant ensure a leak free design



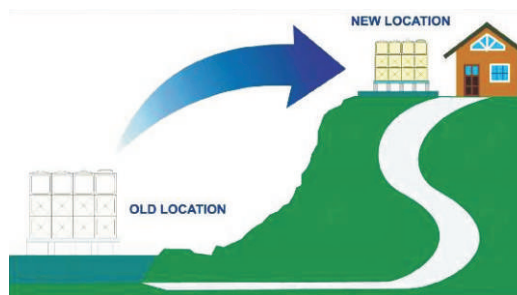
EXTENDIBILITY

SFMC GRP Panel Tanks can be extended in length and width to provide increased volume as the consumption requirements change.



PROTECTION AGAINST UV RAYS

Excellent ultra violet (UV) resistant characteristics and performance ensures high mechanical properties and weather resistance even after 40 years of use.



RELOCATION

Can be relocated easily from one place to another several times.

IMPORTED AIR-VENT WITH MOSQUITO / INSECT PROOF MESH ø100MM

Airvents
PVC4"DIA with Nylon mesh#22
Properties Light, Dust Insect proof Add Water level indicator
also to keep in a sequence

COMPARISON WITH OTHER TYPES OF TANKS

SFMC Panel Tanks have major advantages over other types of conventional tanks

Excellent : ✓✓ | Good : ✓ | Average : ~ | Poor : ✗

FEATURES	COMPARISON CHART FOR DIFFERENT TYPES OF WATER TANKS			
	SFMC GRP/SMC TANK	CONCRETE	PLASTIC	STEEL
HYGIENCE & WATER QUALITY	✓✓	~	~	✗
FLEXIBILITY	✓✓	✗	✗	~
RELOCATION	✓✓	✗	✗	~
WATER TIGHTNESS	✓✓	✗	✓	✓
STRENGTH & DURABILITY	✓✓	~	✗	~
EASY & FAST ASSEMBLING	✓✓	✗	~	~
EASE OF TRANSPORTATION	✓✓	✗	✗	~
THERMAL CONDUCTIVITY	✓✓	✓	✓	✗
DRAINAGE	✓✓	~	~	✓

Members of Organization of International Repute

- Indian Plumbing Association
- World Plumbing Council
- FIEO (Federation of Indian Export Organizations)

Government Approval of SFMC Products

- PHED (JJM)
- UPRNN
- DDA
- Railways
- MHADA
- CIDCO
- Engineers India Limited
- TATA Group
- MES and Army
- Larsen & Toubro (L&T)
- Royal Govt. of Bhutan
- PWD of Various State
- Municipal Corporation of Mumbai

OUR PRESTIGIOUS CLIENTS





Savoir Faire Manufacturing Company Pvt. Ltd.

SAVOIR FAIRE MANUFACTURING COMPANY PVT. LTD.

CIN No. : U27201UR2004PTC032332

Corporate Office :

417, 4th Floor, Emmar Colonnade, Sector-66
Golf Course Extension Road
Gurugram - 122101, Haryana, INDIA
Contact : +91 9312272766

Works :

Haridwar
Dehradun
Gwalior
Nepal
Sonipat



Scan Me to
Know More !

Website : www.sfmc-india.com
Email : info@sfmc-india.com



Approvals & Recommendations

MES ♦ CPWD ♦ MHADA ♦ CBRI ♦ Railways ♦ CIDCO ♦ Utter Pradesh Avas Vikas
UPRNN ♦ MPPWD ♦ MP Housing ♦ DDA ♦ PHE ♦ BCD Bihar ♦ Police Housing