













Characteristics Feature of GRP-TANKS

O Embo SMC Panel

Embo is GRP-TANKS signature surface technology which improves adhesiveness of SMC panels. Nonslip and Prevent insulation covering.

O Easy Installation, Free Capacity design

Easy to install anywhere. And the capacity is free with various shape panel.

O Excellent Hygiene and Durability

The GRP panel is made by HOT PRESS method. This prevents algae, germs growth and high hygiene. And Blocks external lighting completely, thereby preventing the bacteria inside of water tank.

o Perfect Watertightness

Prevent leakage perfectly by using special sealing tape with excellent recovery.

O Simple Assembling

GRP-TANKS panel can be easily assembled and relocated wherever you want. It can be shifted by limited spacewith pallet wrapping by exact size and quantity.

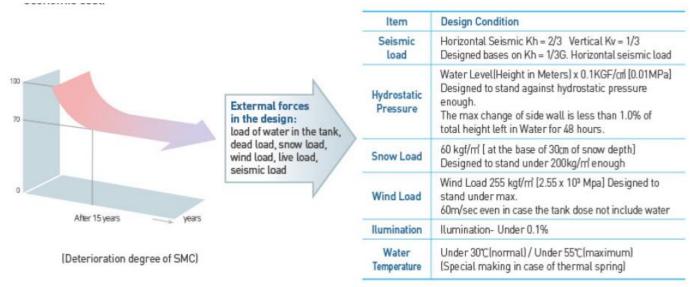
O High Quality

We pursue the system superiorityviasophisticated interpretation of hygiene, durability, rigorous designcriteria, quality management, andreliable structurestrength. The basis of structure interprelation ensures safety design for tolerancevalue. The finest safety rating, considering design-external comparison expected basedon property after a long-term use of SMC materials for over 15 years [life is 40years) is achieved through expertise of the GRP TANKS & SILOS TRADING L.L.C.

Structural Analysis of TANKS

GRP-WATER TANKS are designed to be the safest panels through optimized design.

If the panels are reliable, the cost of reinforcement can be reduced and the best water tanks can be made at the most economic cost.



Performance evaluation criteria of the panel

	Item	Performanee Criteria	GRP-TANKS
Mechanical strength	1) Tensile strength	More than 60 Mpa	94Mpa
	2) Flexural strength	More than 80 Mpa	199Mpa
	3) Flexural modulus	More than 6000 Mpa	13727 Mpa
	4) Barcol hardness	More than 30	52
	5) Absorption	Less than 1%	0.1
	6) Glassfiber content	More than 25%	31
	7) Panel gravity	1.8	1.8
	8) Impact strength	More than 80 Kj/m	97 Kj/m
	9) Light transmission	Less than 0.1%	0.00%
	10) Thermal conductivity	Less than 0.02 kcal/m-hr.℃	0.02 kcal/m-hr.℃
	1) Heavy metals	Less than 0.1% ppm	Not detected
Elution of toxic substances	2) Consumption of KMn	Less than 10 ppm	0.3 ppm
	3) pH	5.8-8.6	7.6
	4) Phenol	Less than 0.005 ppm	Not detected
	5) Odor & Taste	No defects	No defects

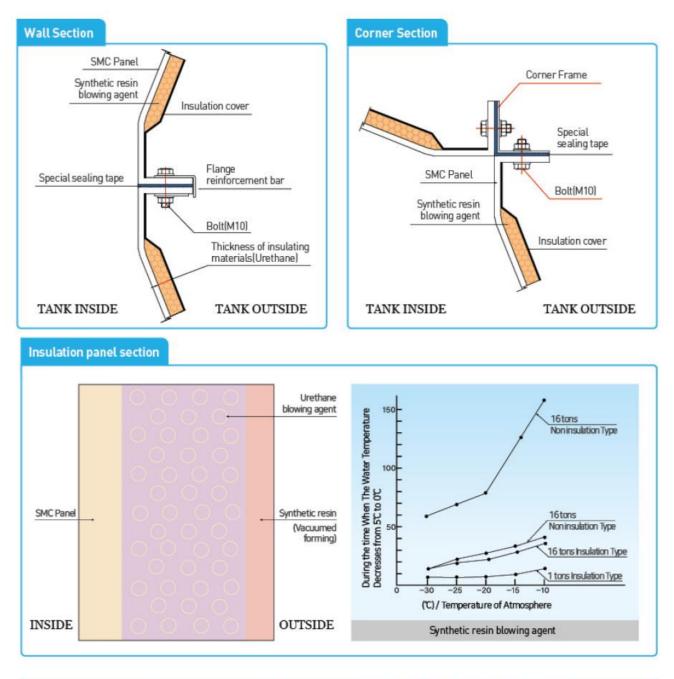
Free capacity design Using panels of various sizes, GRP-TANKS utilizes horizontal and vertical space at the maximum and those are suitable for an underground reserve tank of large capacity.

Possible height to install tank: 1.0mH-5.0mH Possible capacity to install tank : 1rri[Ton) - 5,000rri[Ton] [The capacity exceeding 5000rrican be installed by separate design] Large capacity type Cube - type / Corner-type / Odd-type (□, ⊏, ∟ shape) [Corner : real example of -type tank]

EXCELLENT HEAT INSULATION

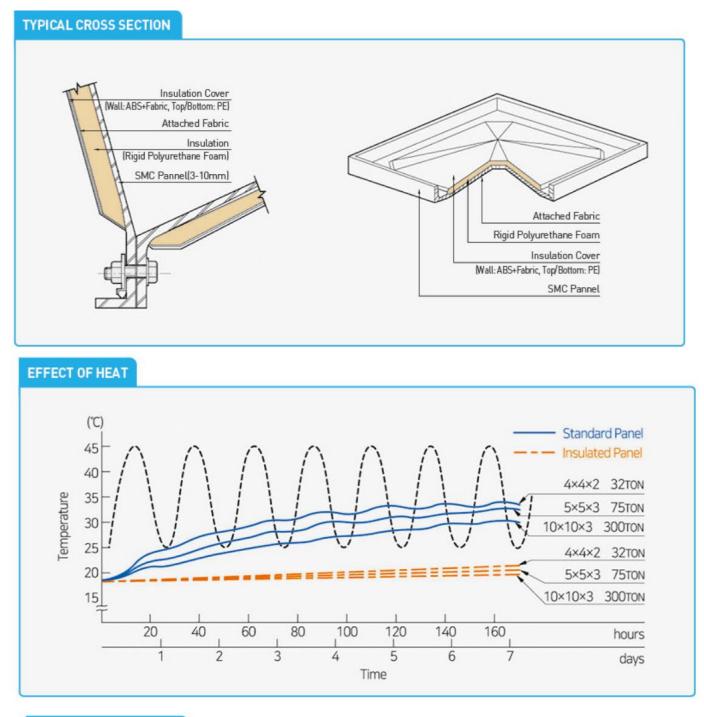
GRP-TANKS is

SMC insulation panels utilize urethane blowing agent that has excellent insulation materials for singlestructure panels: the exterior is made of sandwiched-structure panels using vacuumed-molded covers with special synthetic resin for high insulation.



CAPACITY	CLASSIFICATION	TEMPERATURE OF ATMOSPHERE		
		- 10	-20	-30
16 tons	Non insulation Type	35	20	13.5
	Insulation Type	164	81	58.5
1 tons	Non insulation Type	11	6	4
	Insulation Type	37.5	23	13.5

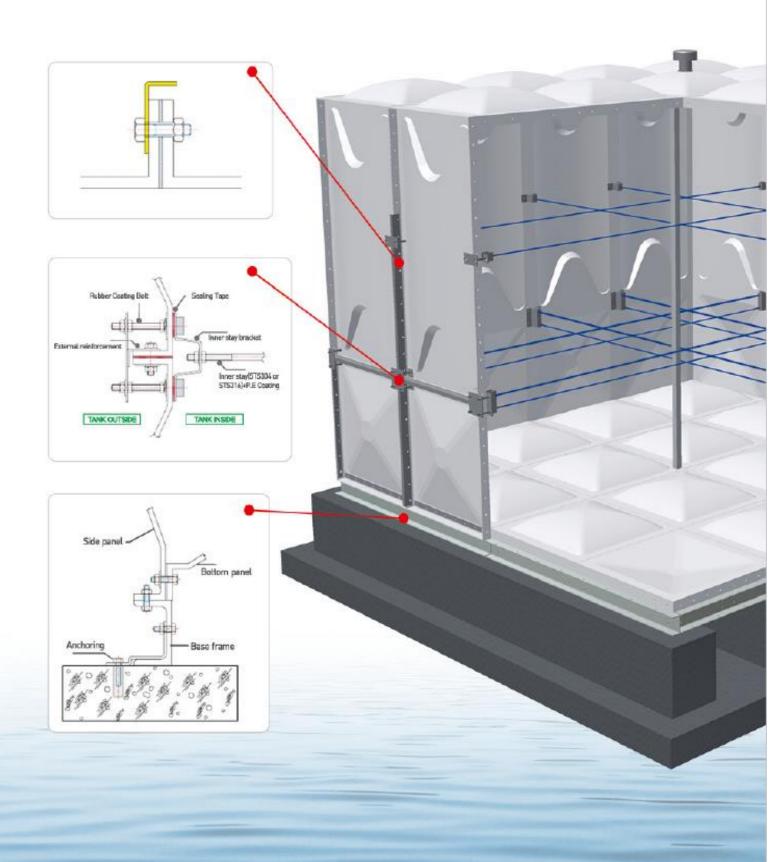
GRP TANKS PANEL

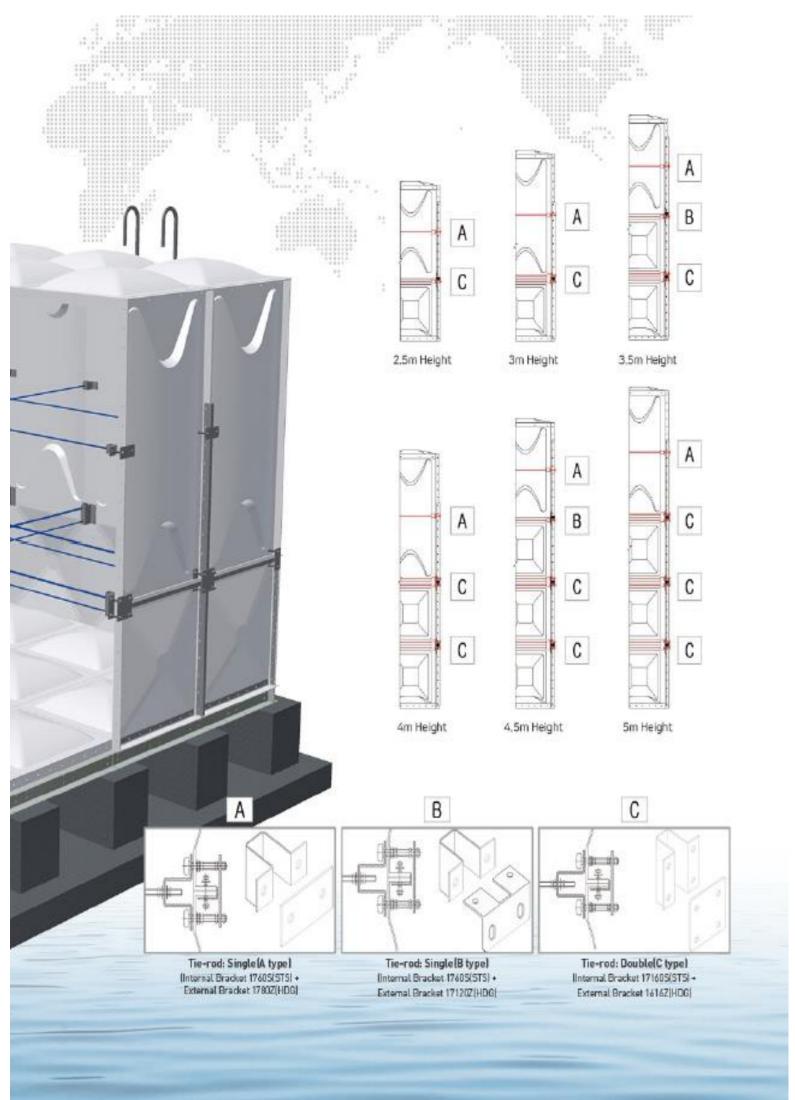


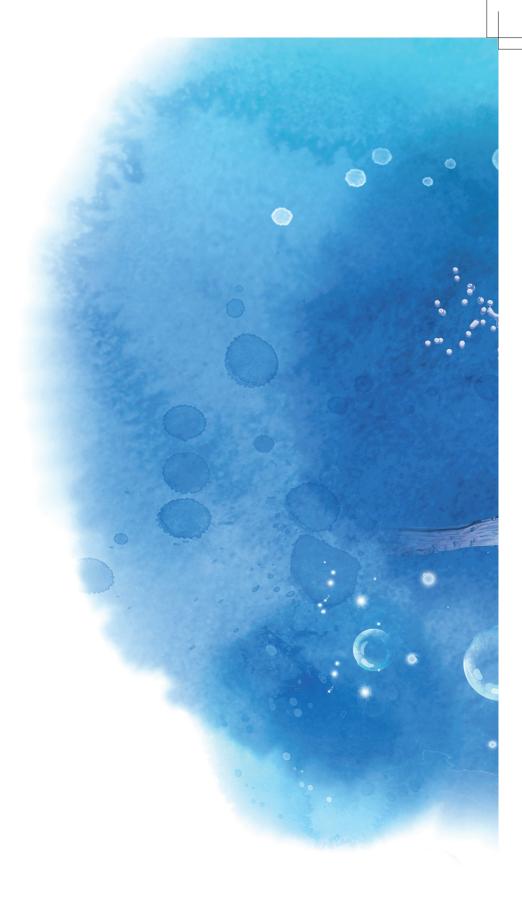
THERMAL CONDUCTIVITY			
	Thermal Conductivity Kcal/m.hr.°C(J/m.hr. °C)		
STEEL	37.0(1.55X10)		
SMC(Standard)	0.15(630)		
SMC(Insulated)	0.02[84]		

Internal reinforcement system provides the followings

- In the event that the space for installing a tank is narrow, a proper reinforcement system enhances the utility of the installation space.
- By applying a PE coating the the inner stay rust generation is minimized on the stainless steel part on the top part.







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