



The World Leader in
GRP Water Tank



BK WATER TANK

GRP SECTIONAL PANEL WATER TANK

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ISO9001:2000

INNOBIZ



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GRP SECTIONAL PANEL WATER TANK



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Baeg Kwang Platech Co., Ltd. is the leader in Korea to manufacture GRP (Glassfiber Reinforced Polyester) sectional panel water tanks.

Since 1984, BAEG KWANG PLATECH Co.,Ltd, started producing rigid polyurethane foam, focus on the manufacture of polyurethane foam for vessels and molded products include GRP sectional panel water tanks, GRP bathroom wall panels, ceiling panels and bathtubs.

And, as a leader fo GRP manufacturer, a through quality control is being conducted from raw materials to delivery of products under quality warranty system in order to ensure good products quality.

According to various demand from customers and consultants, we keep doing R&D to maximize their satisfaction.

Baeg Kwang Platech Co., Ltd. will continue to grow as a leading company by quality improvement and come up with highly differentiated world-class products that meet your needs. Thank you.

■ Certifications



BAEG KWANG PLATECH Since 1984



Brief Company Instruction

1. COMPANY NAME : BAEG KWANG PLATECH CO.,LTD.
2. DATE OF ESTABLISHMENT : November 01. 1984.
3. ADDRESS:1271-4, SAMGYE-DONG, GIMHAE-SI, GYUNGNAM, SOUTH KOREA
4. NAME OF CEO : Mr. Jae Young Park
5. TAX PAYER IDENTIFICATION NO. : 615-81-23463
6. TRADE LICENCE NO. : 30492837
7. BUSINESS TYPE : Manufacturing & Trading
8. BUSINESS ITEM : GRP Sectional Panel Water Tank, BathTube, CeilingPanel, Rigid Polyurethane Foam Etc.
9. GRP WATER TANK SUPPLIER TO KOREA PROCURE MENT OFFICE.

Certifications

1. ISO9001/2000
2. CERTIFICATE OF PATENT (Antibacterial GRP Water Tank Panel)
3. CERTIFICATE OF INNO-BIZ (The Small and Medium Business Administration of Korea)
4. CERTIFICATE of Venture Company (The Small and Medium Business Administration of Korea)
5. CERTIFICATE OF MEMBERSHIP (Korea International Trade Association)
6. CERTIFICATE OF EXPORT PROMISE COMPANY
(The Small and Medium Business Administration of Korea)
7. WRAS
8. KOTRA SEAL OF EXCELLENCE

● SPECIAL FEATURE

● The Special Feature of BK GRP Sectional Water Tank

Intensity and Durability

Glass fiber Reinforced Panel is molded under condition of high temperature and pressure to maintain the best endurance. Since using stainless steel for inside structure and HDG steel for outside, it shows best performance against erosion.

Excellent Hygiene

No corrosion from panels and prevent bacteria increasing by isolating outside light.

Watertightness

The joints are sealed with special sealing tape especially developed for water tank.

Heat Insulation and Dewdrops Prevention

The heat insulation panel with 3 layer structured improves heat insulation effect. Protects water from dewdrops and minimizes temperature variation of the stored water.

Best Size Stability

GRP Sectional water tank panels size are changeless from the outside condition so assemble it accurately.

Various Capacity Design

Various sized panels used limited space for its best using way so can satisfy your needs.

Easy to Assembly and Transporting

GRP Sectional panels make construction time shorter, standardization panels make easier to moving, carrying in and transfer.

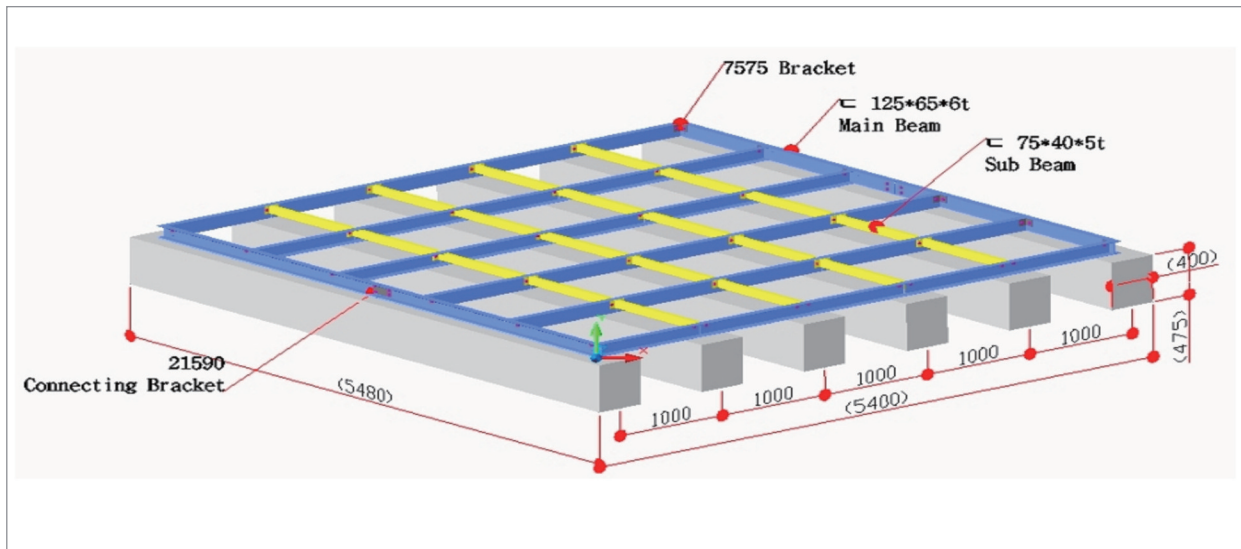


SKID BASE INSTALLATION

SKID BASE Installation

BK reserves the right to provide alternate skid base designs.

BK recommends an ideal concrete plinth size of 400mm(W) x 475mm(H) with maximum variance in height of not more than 2mm



Dimensions of Steel Skid Base

Height of tanks	Main Beams	Sub Beams
1m	L angle(75×75×6T)	□ channel(75×40×5T)
1.5m		
2m		
2.5m		
3m	□ channel(125×65×6T)	□ channel(10×50×5T)
3.5m		
4m		
4.5m	□ channel(125×65×6T)	□ channel(10×50×5T)
5m		

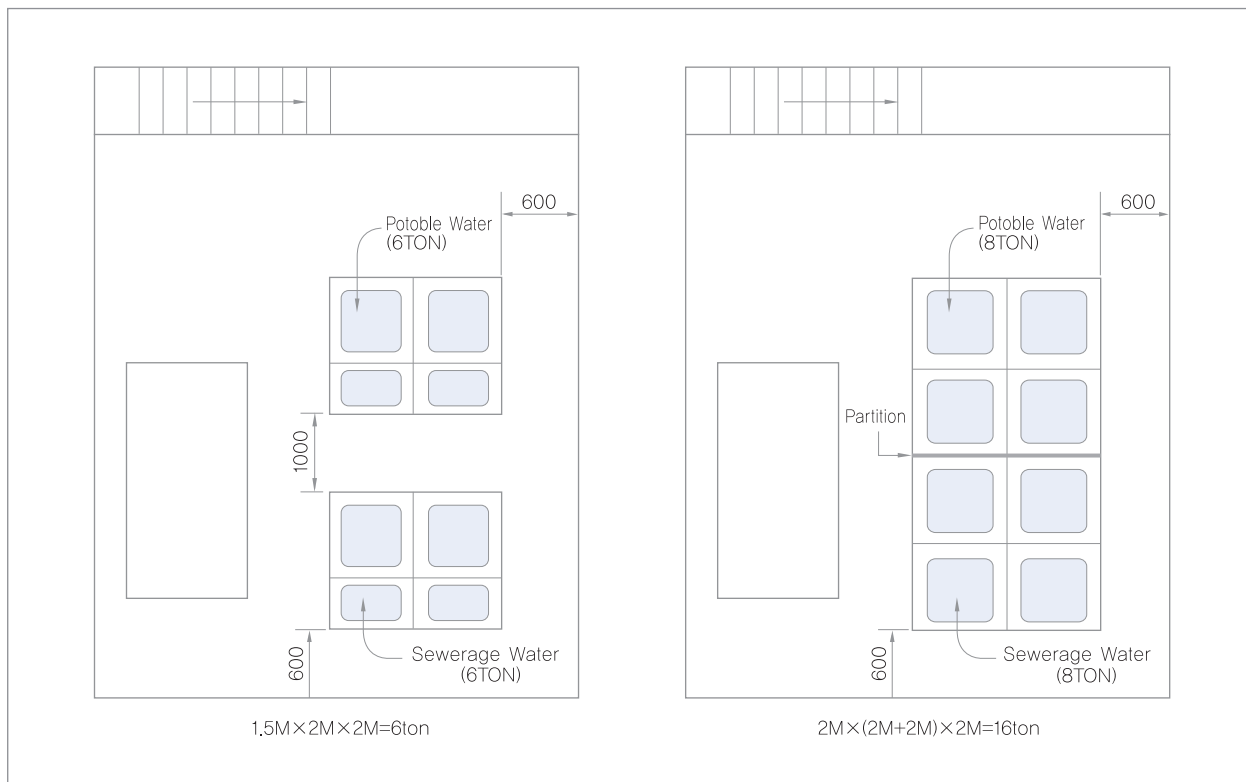
PARTITION TYPE WATER TANK

It is possible to eliminate unusable space, and utilize the maximum space by installing a partition type tank. Economical and effective maintenance.

Utilizing maximum capacity	In the basement or other confined areas, it is possible to eliminate unusable space and utilize the maximum space, by installing a partition type tank.
Various uses	If partition type tanks are installed, one section can be used for drinking water and the other section for service water (fire fighting etc).
Easy Maintenance	It is convenient for maintenance, because two tanks can be installed as one unit.
Cost effectiveness	The cost and installation of 1 partition tank is cheaper than 2 separate tanks.

Example for Installation and using

If tanks for two different uses are needed in a confined area or boiler room, a 16 ton partition type tank can be installed to use half for drinking water, and half for service water. If separate tanks are installed, however, you have to installed two tanks with a maximum of 6 tons, because you need to have 1 meter distance between tanks for maintenance and operating space.



PREPARING FOR INSTALLATION

Base Concrete Installation Standard

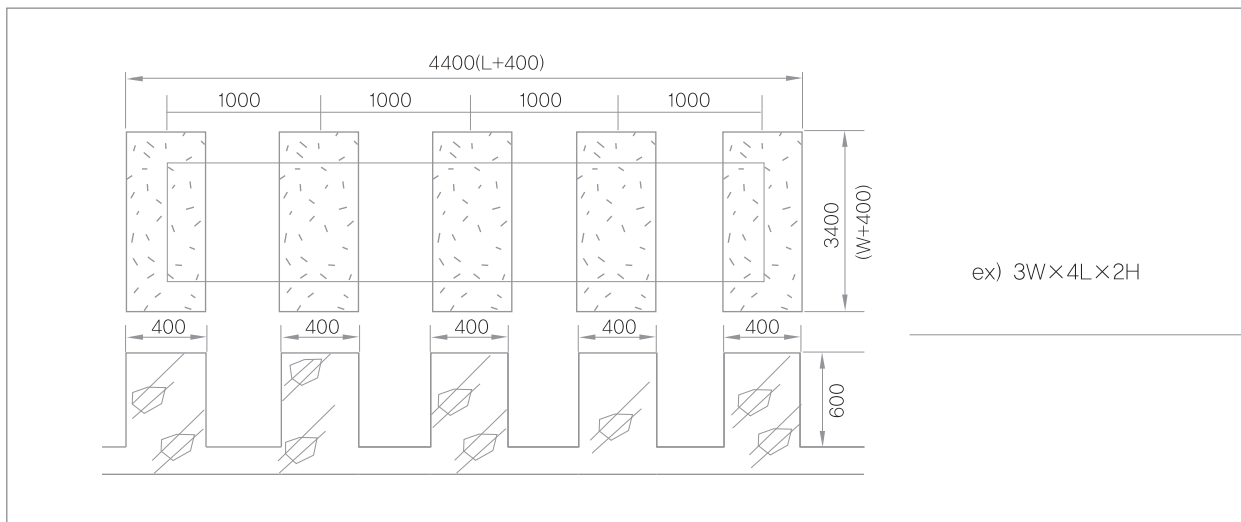
Width : 300~400mm

Outer Dimension : Width, Length +400mm

Height : over 600mm (Base frame included)

Space : less than 1m

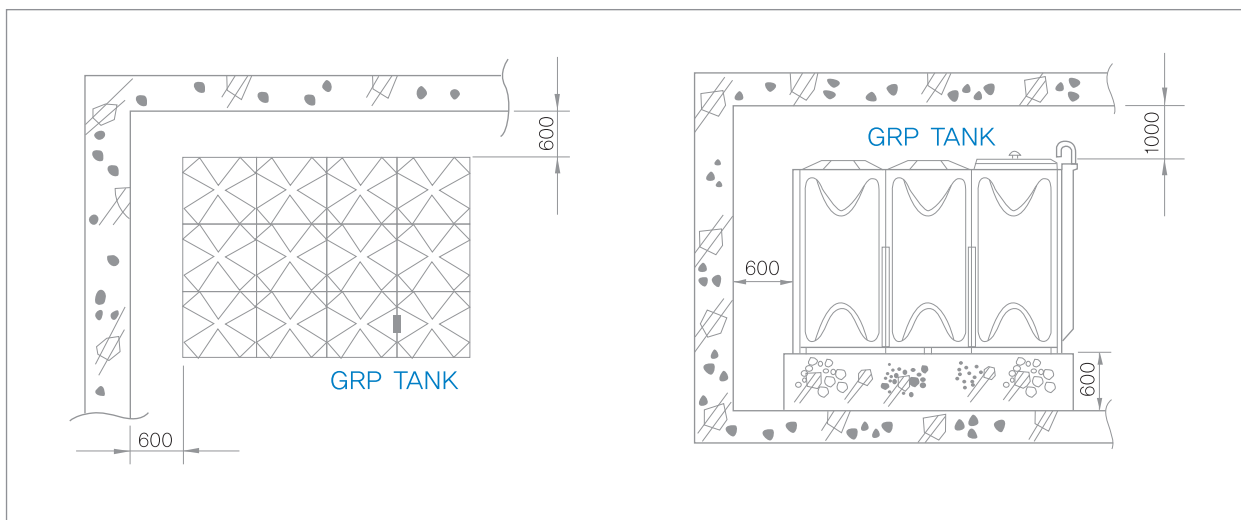
Horizontal Degree : less than 1/500 (Surface has to be horizon flat)



GRP Water Tank Installation Space

For maintenance and repairing, it is recommended to leave at least 600mm and 1,000mm extra space from wall and ceiling.

Example : 3W X 4L X 2H



REINFORCEMENT SYSTEM

Internal Reinforcement System



Excellent strength, durability, water tightness, and appearance ; safe structure design

The panels are interconnected with stainless steel tie rods in the GRP water tank to guarantee the strenght of water tank



▲ Internal section and structure



▲ 3MH ↑

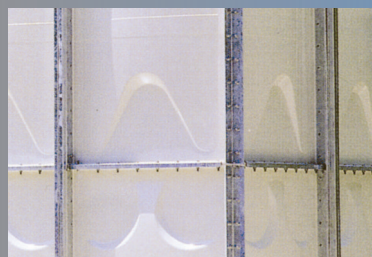
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External Reinforcement System



Highly durable and sanitary ;
easy maintenance

The joint of the side panel is supported with an external reinforcement frame, the upper part, fixed with angles and round-bar stays, and the lower part, connected and fixed with brackets using bolts(the height of the tank is 3m or less)



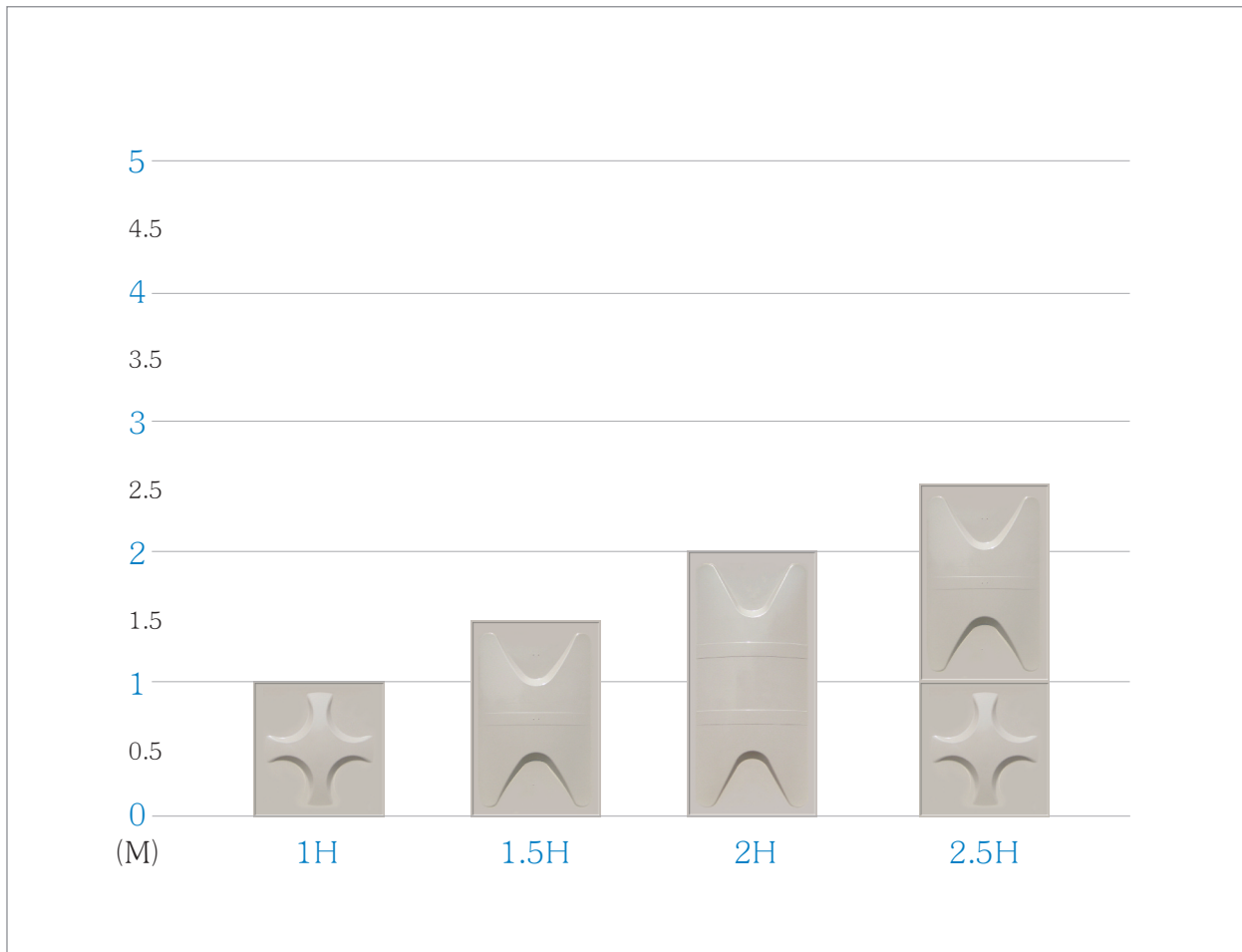
▲ External section and structure



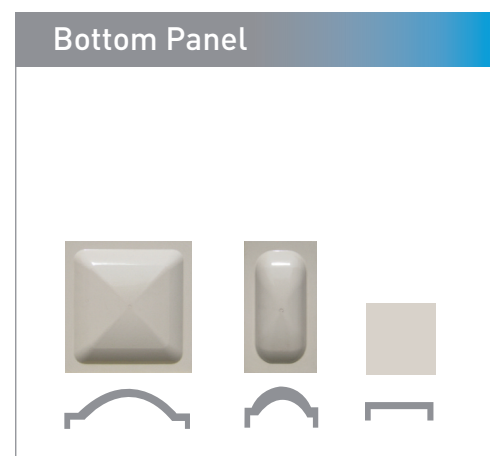
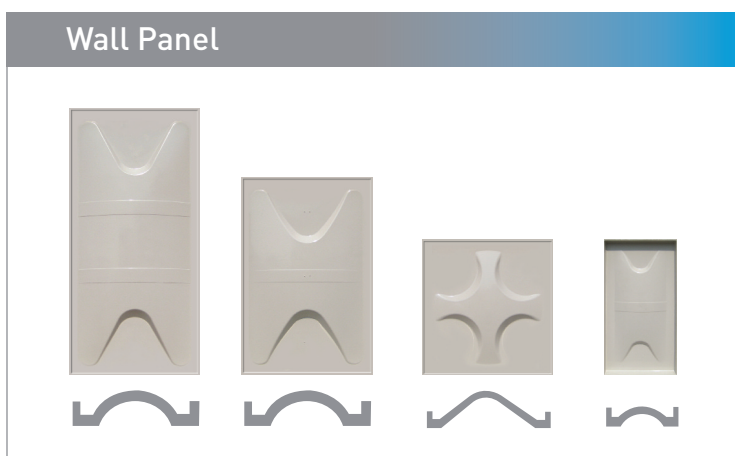
▲ 3MH ↓

●● PANEL COMPOSITION

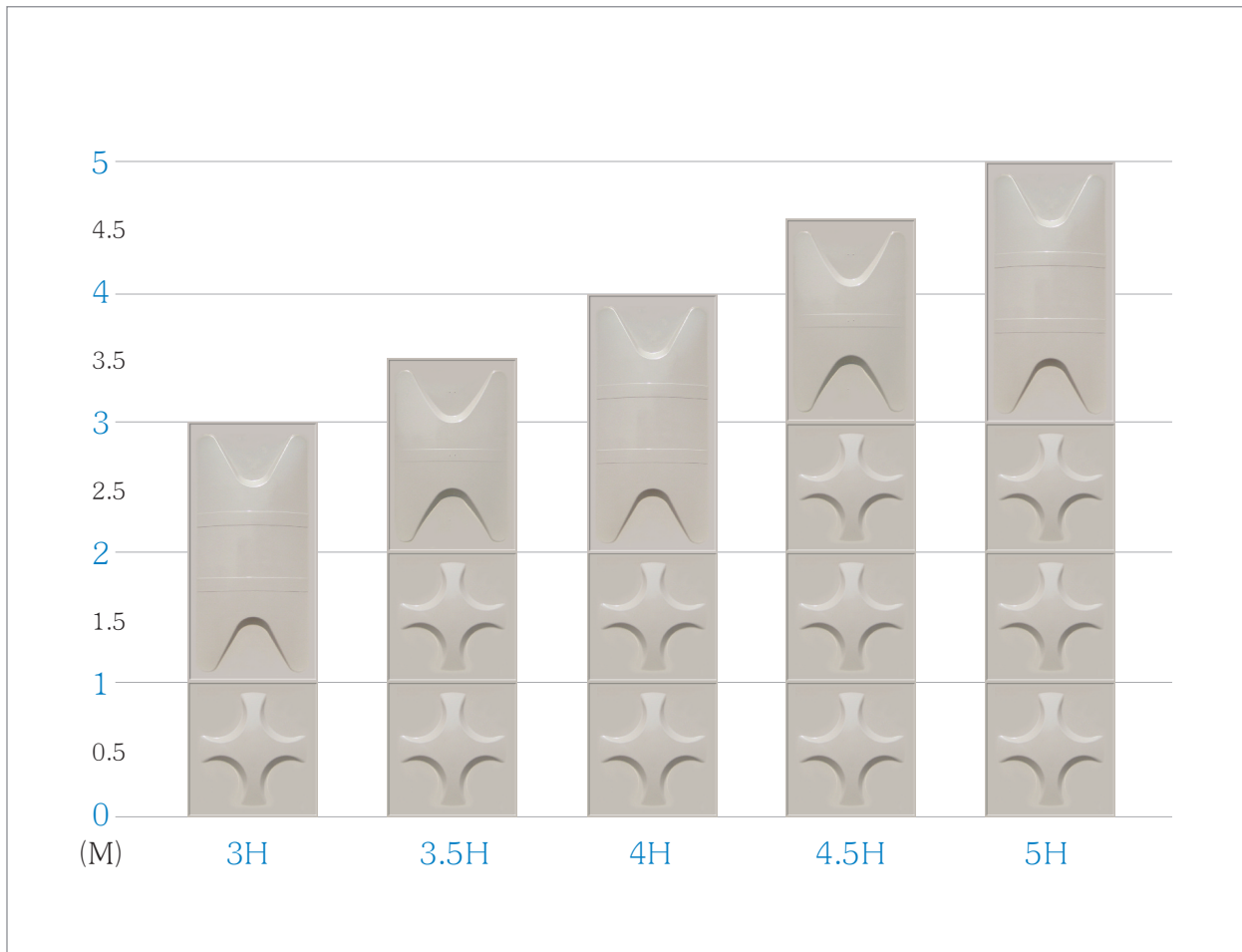
● Wall Panel Composition By Height



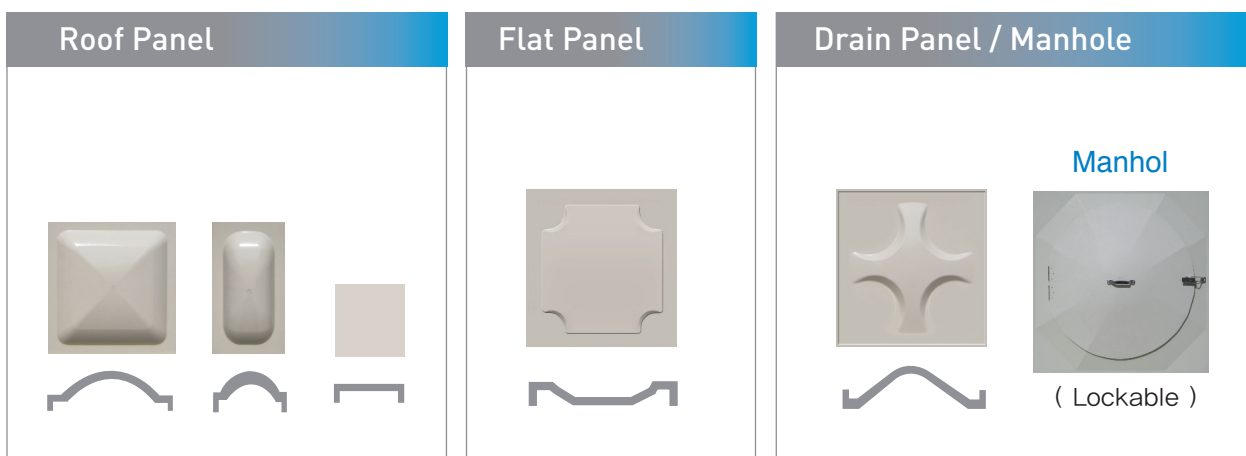
● Type and Shape



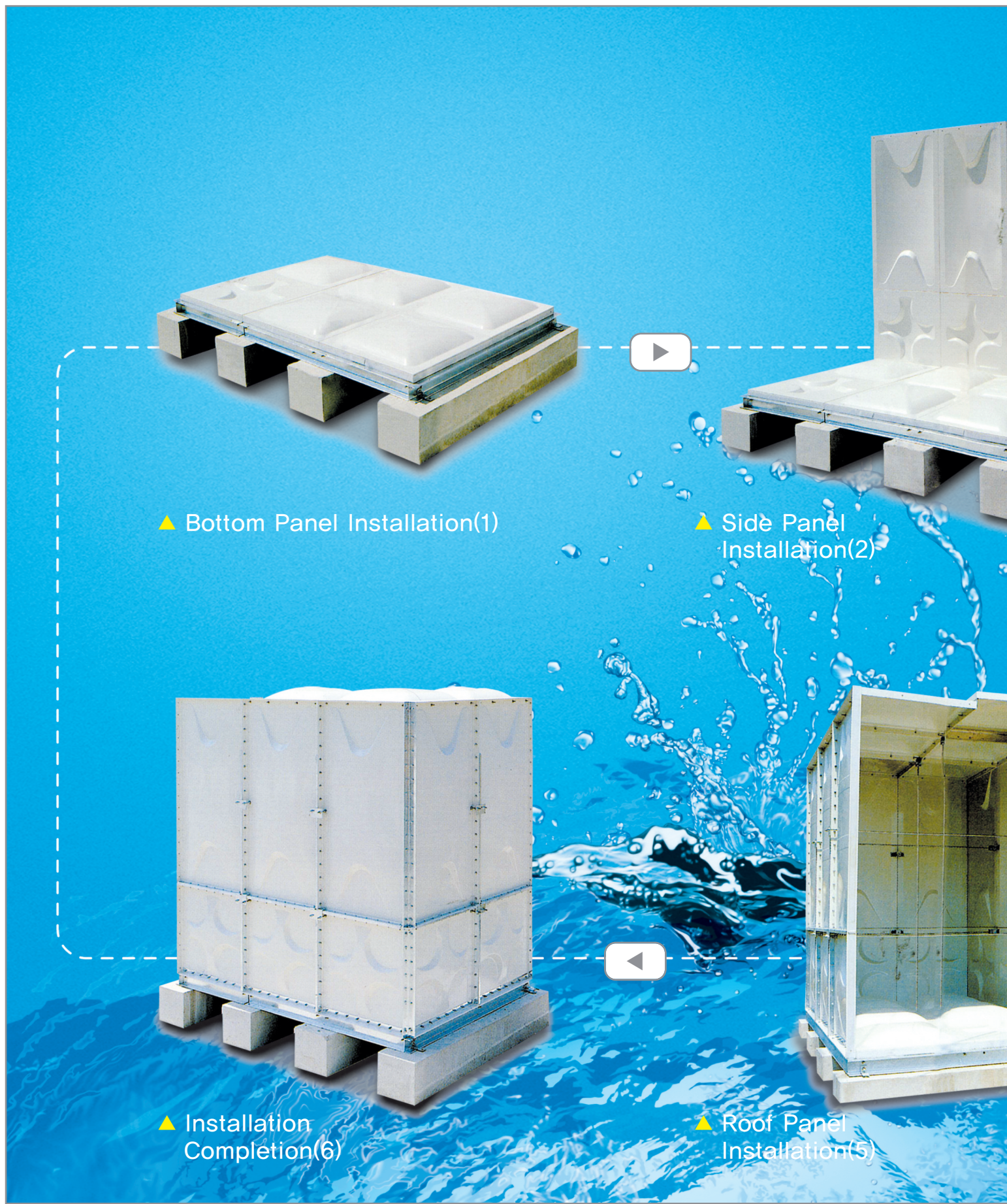
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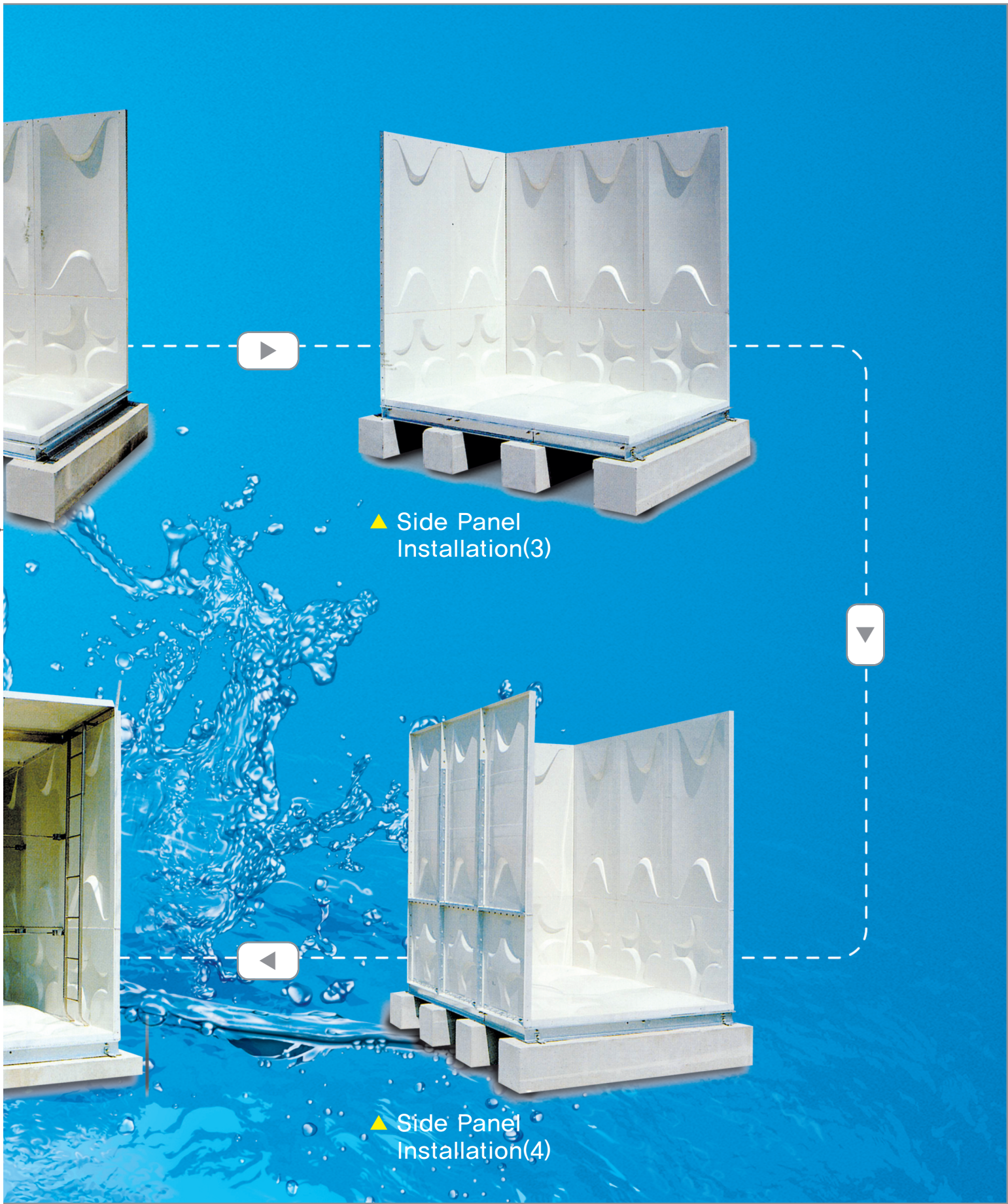
Type and Shape



❖ BRIEF TANK INSTALLATION PROCESS



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GENERAL FEATURE OF BK TANK

Ideal For Clean Portable Water

Long Life

Clean &
Hygienic

Non
Leakage

Easy
Assembly

Perfect strength and Durability

The glass fiber reinforced panels are molded at temperatures up to 150 deg.C using isophthalic unsaturated polyester resins and are pressed under hot press moulding process to realize optimum condition for maintain the best endurance.

Panel Design

BK GRP water tank panels are designed using computer aided design technology and suitable for ambient temperature of 50 deg.C(drybulb) and humid condition of up to 31°C saturated. Also BK GRP water tanks are suitable for water temperature up to 50°C.

Hygiene

Using non-toxic materials and stainless steel. So it is suitable for used in contact with potable water.

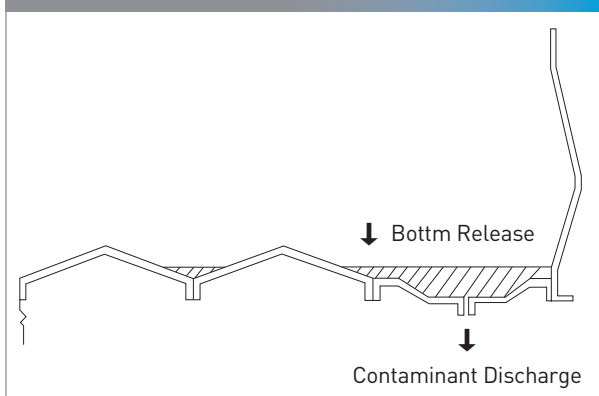
Sizes adaptable to any needs

From small tanks to large, BK GRP water tank panels can fit any dimensions. Tank dimensions can be select by customers as they want.

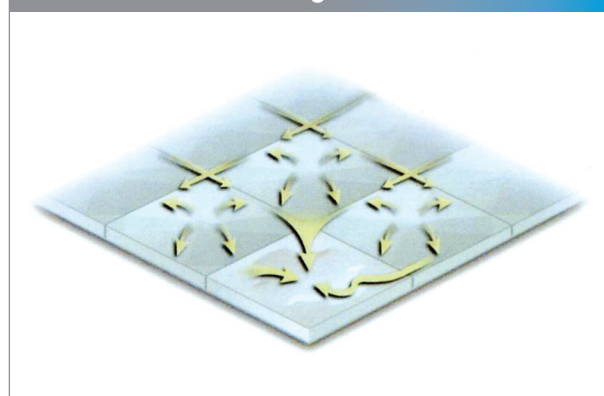
Complete drainage

The dome shaped bottom panel with a concave drain panel facilitated complete and fast drainage. The concave drain panel has been designed to ensure the periodic cleaning and inspection of the tank.

GRP Water Tank Floor



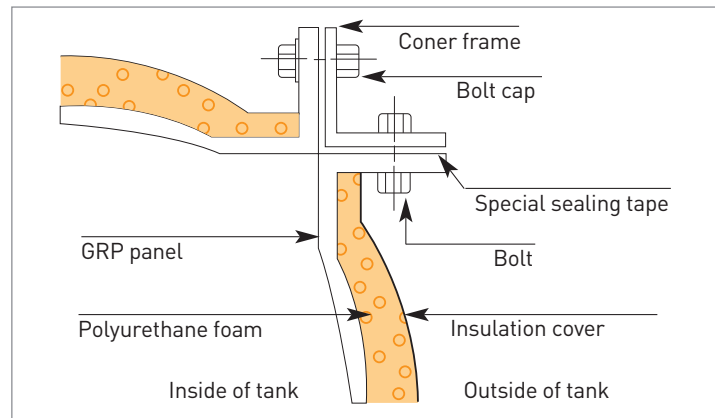
Detaled Flow Diagram



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● Watertightness

The joints are sealed with special sealing tape specially developed for water tanks.

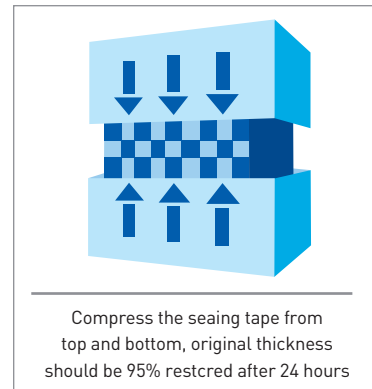


Special sealing tape is approved by water quality **PSB** Certification.

G21489 / SGP
PSB Singapore
 Sealing Tape Test Report



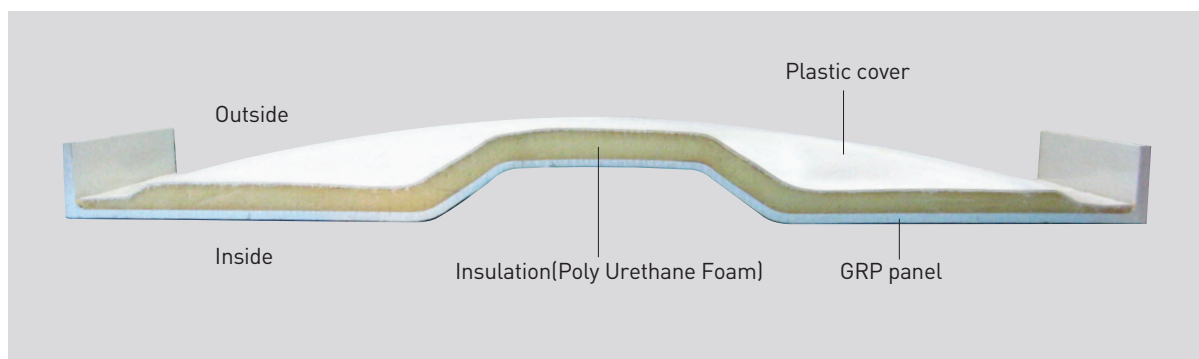
021489SCP					
RESULTS					
Date of Test: 05/08/17					
Test Temperature: 23 degrees Celsius					
Humidity: 66.5%					
Sample	Initial Thickness	Thickness of test piece after compression (mm)	Recovery after 24 hours (mm)	Recovery after 72 hours (mm)	Recovery after 96 hours (mm)
1	1.5	1.1	1.2	1.3	1.4
2	1.5	1.1	1.2	1.3	1.4
3	1.5	1.1	1.2	1.3	1.4
4	1.5	1.1	1.2	1.3	1.4
5	1.5	1.1	1.2	1.3	1.4
6	1.5	1.1	1.2	1.3	1.4
7	1.5	1.1	1.2	1.3	1.4
8	1.5	1.1	1.2	1.3	1.4
9	1.5	1.1	1.2	1.3	1.4
10	1.5	1.1	1.2	1.3	1.4
The results of the test comply to the requirements of the SS 248:1999 for polythene compression at room temp.					
By: [Signature] Engineer					
For: [Signature] Project Engineer					



● Insulation and Dew-Proofing

Insulation panel with its three-layer structure improves the insulation effect.
 Maximizes dew-proofing, and minimizes temperature variation of the stored water.

Section of insulated panel



MANUFACTURING PROCESS



01 Auto-Controller System



02 GRP Raw Material Cutting



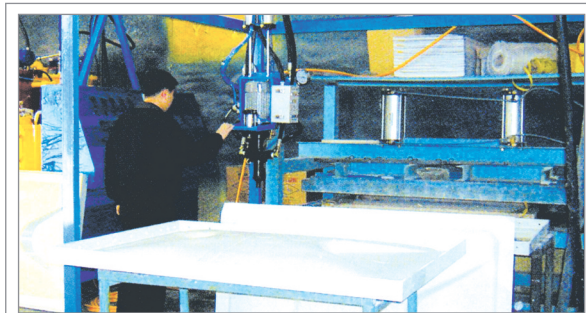
03 Raw Material Injection



04 Pressing



05 Drilling



06 Insulation Treatment



07 Loading



08 Transfer

Sectional GRP Water Tank Installation and Caution

Installation scope

Base Concrete

Customers are requested to make base concrete according to the designed specifications and the strength of the site.

Anchor bolts are to be fixed by our agents.

The required strength of the base concrete must be at least 180Kg/cm².

The thickness of mortar on the base concrete must not exceed 20mm.

The Extent of Installation Work

If the customer designates the size of sockets for plumbing, our agents will install the sockets.

After the sockets are in place, the plumbing and heat insulation must be done by customer.

Caution

Transportation

Do not place heavy loads or force on the panels during the transportation.
Those parts that are touched with rope or other cargo must be cushioned.

Pipe Installation

Be careful not to put any heavy weight on the pipes that are connected to the fitting.

Pipe installation must be started from the water tank side and be careful not to put unbalanced weight on the fitting.

Take precautions to avoid fire or other occurrences / accidents while welding.

Maintenance

If it is not used for a long time, be sure to drain the water from the tank.

As the tank is a reservoir of water for consumption by people, regular inspection should be done for safety (more than twice a year)

REFERENCE

BK WATER TANKS GRP SECTIONAL WATER TANKS

Reference(Overseas)



Doha, Qatar/ Hospital



Dubai, U.A.E. / Warehouse



Doha, Qatar/ Pearl Project



Dubai, U.A.E. / Empire Shipping Service



Reclaiming Type Tank



Elevated Type Tank

OVERSEA SALES LIST

OVERSEA SALES LIST

Project	Area	Dimension	Qty	Project	Area	Dimension	Qty
"National Bank of Kuwait"	Kuwait	2x1x1M	2	Al Khuwair	Muscat, Oman	5X6X2	6
Dasman Palace	Kuwait	4x5x1M	1	Commercial BD	Muscat, Oman	5X6X2	6
"Khalifa Al Jasem School"	Kuwait	4x4x1.5M	1	Water resalination tank	Quebec,	2X10X2	1
		3X5X1.5M	6		Canada	2X10X2	1
25&26 Tower	Kuwait	5X10X1.5M	2	Barwa Proj.	Doha, Qatar	3X6X3	8
		3X19X4M	2			4X6X3	16
Al Seal Tower	Qatar	4X6X2	2			4X7X3	8
		2X4X3	1			3.5X6X3	16
Shara Tower	Qatar	5X4X2	2	Lagoon Energy	Doha	5X10x4	1
Diplomatic Tower	Qatar	5X5X2	1	Labour Camp	Sumayshima', Qatar	7X(6+6)X2	3
Abdulghani commercial Tower	Qatar	3X5X2.5	1			10X(4+4)X2	1
Green Community	Dubai	2x2x1M	584			2X4X2	1
El Bedaa Villas	Kuwait	3x3x1M	8			(3X4X2)	1
Farah Hotel	Kuwait	2x5x2M	1	Green Community	Dubai	-(1X2X2)	
Commercial Mall	Kuwait	(5+6)x4x2M	1			2x2x1M	116
Building	Kuwait	2x3x1.5M	1	Qatalum Proj.	Doha, Qatar	5X6.5X4	2
Factory	Kuwait	2x5x1M	1			2.5X4X4	1
Alnassar Tower, Kuwait city	Kuwait	3x4x2M	1			3X11X4.5	1
		4x11x2M	1			5.5X5.5X4.5	1
		4x4x2M	1	Residential building	Kuwait City, Kuwait	7X8x4	1
		5x6x1.5M	1			2X(7+1)X2	1
Alnassar Tower, Kuwait city	Kuwait	3x4x2M	1			3X4X2	1
		4x11x2M	1	Labour Camp	Qatar	4X7X3	5
		4x4x2M	1	Labour Camp	Qatar	13.5X15X3	2
		5x6x1.5M	1			8X8.5X3	1
Warehouse & office	Dubai	7x13x3M	1			5X10X2	1
		6x19x3M	1	Commercial BD	Yemen	5X8X2.5	1
Plimsoll logistics	Dubai	9x13x2M	1	Al Dhahiya City Proj.	Doha, Qatar	3X4X2	24
	ZAZFA	9x13x2M	1			3.5X6X3	18
Empire shipping service	Dubai	9x13x2M	1			4X6X3	24
	ZAZFA	9x13x2M	1			4X7X3	18
Warehouse & office	Dubai	5x5x2.5M	2	City Center	Doha	4X4.5X4	6
Kca dutag	Dubai	5x12.5x3M	1	Merweb	Doha	4.5X7X4	14
				Commercial BD			