



ISO9001:2000

INNOBIZ



WRAS
APPROVED
PRODUCT

SSG TRADING LLC

GRP SECTIONAL PANEL WATER TANK



Company Introduction



SSG Trading LLC is a multi-faced business enterprise, having business interests in all over GCC, The company had marked its strong presence in Distribution of Electro Mechanical Products such as GRP sectional water storage tanks (South Korea), GRP Horizontal Fiberglass Tanks , PVC (Polyethylene water Tanks), Septic Tanks, Holding Tanks & Water meter Enclosures Etc. are a few to mention.

SSG Trading LLC built on strong fundamentals & is the market leader in its field through its professional management, innovative use of modern technology & commitment to quality. At present our Company's goal is to deliver the best in class service & commitments towards our customer's satisfaction which retains a tradition of integrity & commitment for innovation. We do our best to make the better life and feel proud of customer's success more than sales growth.

Our Vision is to be a respected company by our customers and we create a right way, keeping ethical mind, prompt service & competitively priced in the market

Our company is run by a group of professionals headed by our Managing partner & supported by Professional Engineers for different product groups along with Sales Engineers & Executives. We have a team of experienced and qualified personnel with Mechanical & Electrical Engineering backgrounds whose cumulative experience & multi lingual talents ensures a total solution to our customers in a professional way.

Our water tanks are manufactured using high quality material to ensure and UV stabilized to ensure protection with an impressive range in overhead, food grade and safe for drinking water, we cater to all needs of water storage

We are supporting & supplying quick delivery to all our customer's for their business. Our business mind is trust, quick delivery, and best quality class for our customer's business. We work within many industries offering a fast, easy and supportive experience to a diverse customer base we will continue to grow up as a leading company by quality improvement effort and coming up with highly differentiated world class products that meet customer needs

Email: sales@ssgtradingllc.com

Website: <http://www.ssgtradingllc.com>



**S.S.G. TRADING
LLC.**

BEST IN CLASS SERVICE &

**COMMITMENTS TOWARDS OUR
CUSTOMER'S SATISFACTION**



- General Purpose Resin Coat
- Multi Layer of Glass Fiber
- Resin Primer Coat
- Concrete/Steel Tank Surface

GRP Lining Layers

**➤ GRP Panel Tanks ➤ GRP Horizontal Tanks
➤ GRP Lining ➤ Septic Tanks ➤ PVC Vertical Tanks
➤ Holding Tanks ➤ Water Meter Enclosures**



GRP Tanks



Water Meter Enclosures



GRP Lining Works



Horizontal GRP Tanks

**PO Box
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United Arab Emirates.**

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SSG TRADING LLC

Company Introduction

SSG Trading LLC is a multi-faced business enterprise, having business interests in all over GCC, The company had marked its strong presence in Distribution of Electro Mechanical Products, such as GRP sectional water storage tanks(Korea), PPR pipes, PPR valves & fittings (Turkey), Duct inline Fans (Turkey), Central AC Grills, Diffusers VCD's Fire Dampers, VAV Boxes, Sound Attenuators, Sand trap louvers, GI&PI Ducts & accessories, Copper tubes, Switch gears, Contactors, light fittings etc. are a few to mention.

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OUR STRENGTH

At present, we do deliver the materials by our distribution vehicles serving Dubai, Abu Dhabi Al Ain and Northern Emirates on a daily basis.

This distribution network ensures effective vertical & horizontal distribution of the products. Our team ensures quick and efficient delivery at short notice to almost any part of the country to fulfill our Customers' requirements.

Email: sales@ssgtradingllc.com

Website: <http://www.ssgtradingllc.com>

With the above-mentioned infrastructure, we target to have a big leap in the business activities.

■ Certifications





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.
10. CONTACTPOINT
 - website : www.smctank.com
 - TEL : 82 55 339 9560 FAX : 82 55 339 9566

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.

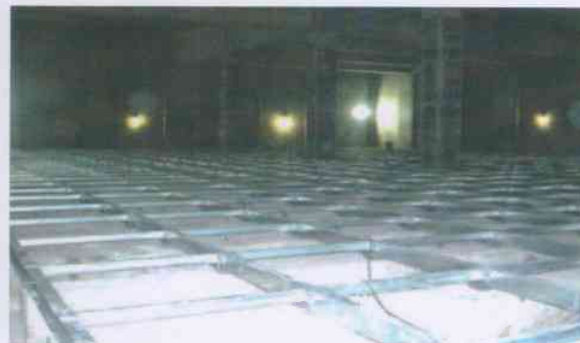
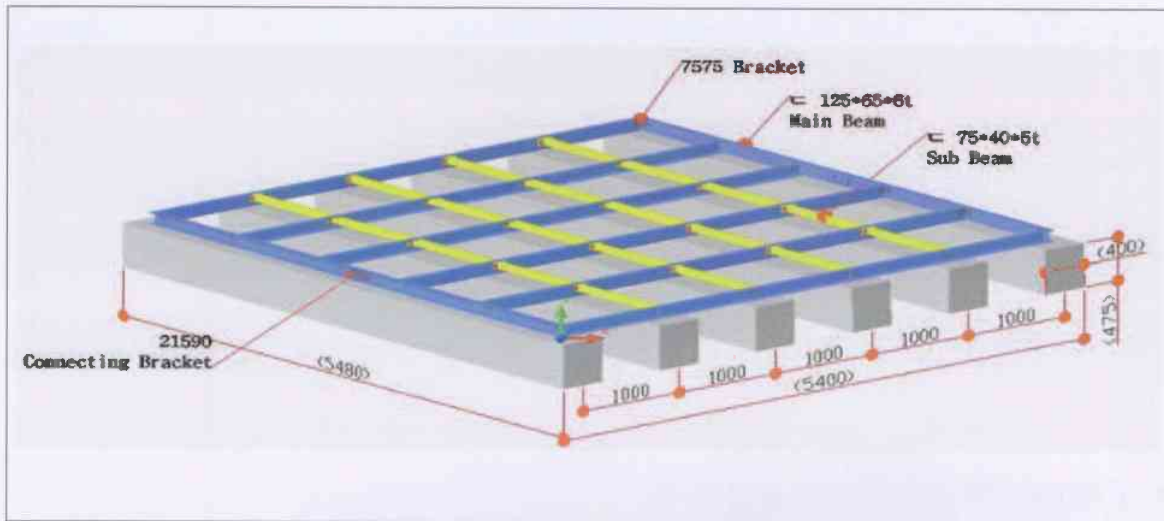


SKID BASE INSTALLATION

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		
3.5m	? channel(125×65×6T)	? channel(10×50×5T)
4m		
4.5m		
5m		

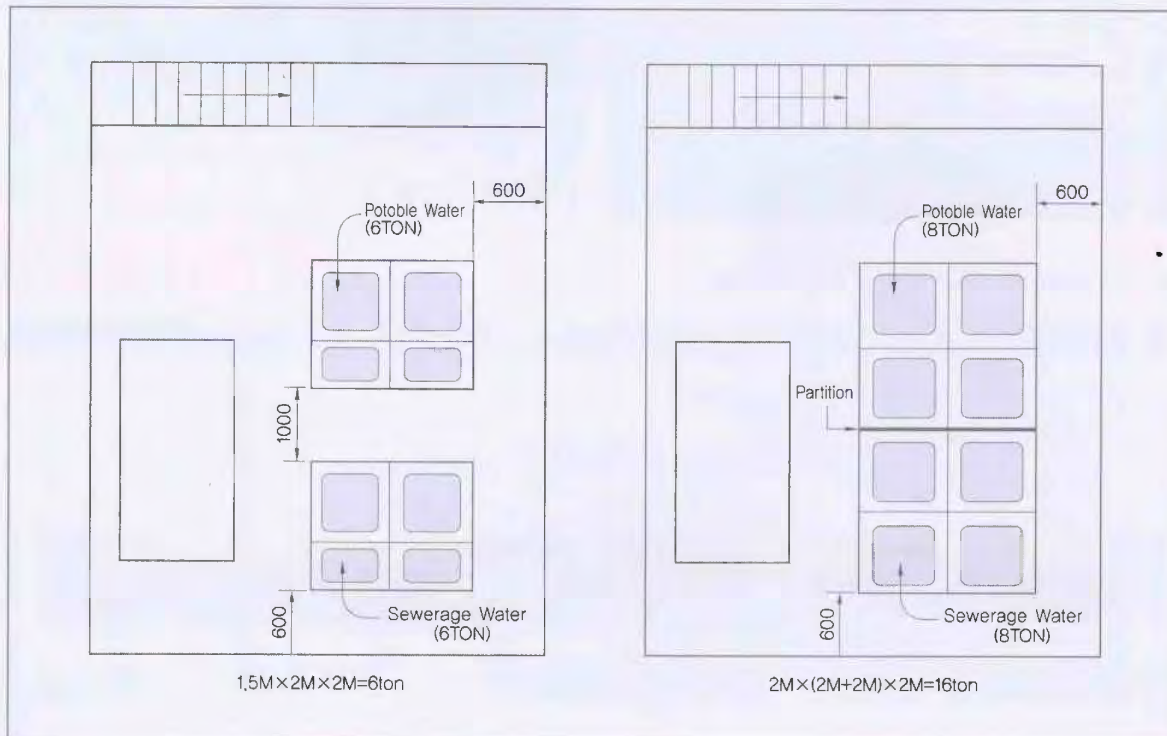
PARTITION TYPE WATER TANK

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

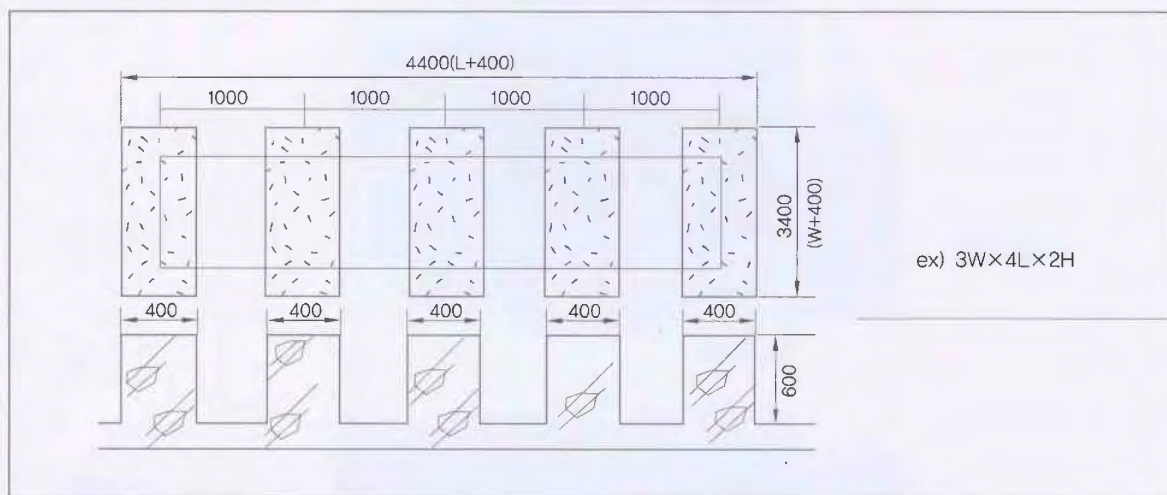
Width : 300~400mm

Outer Dimension : Width, Length +400mm

Height : over 600mm (Base frame included)

Space : less than 1m

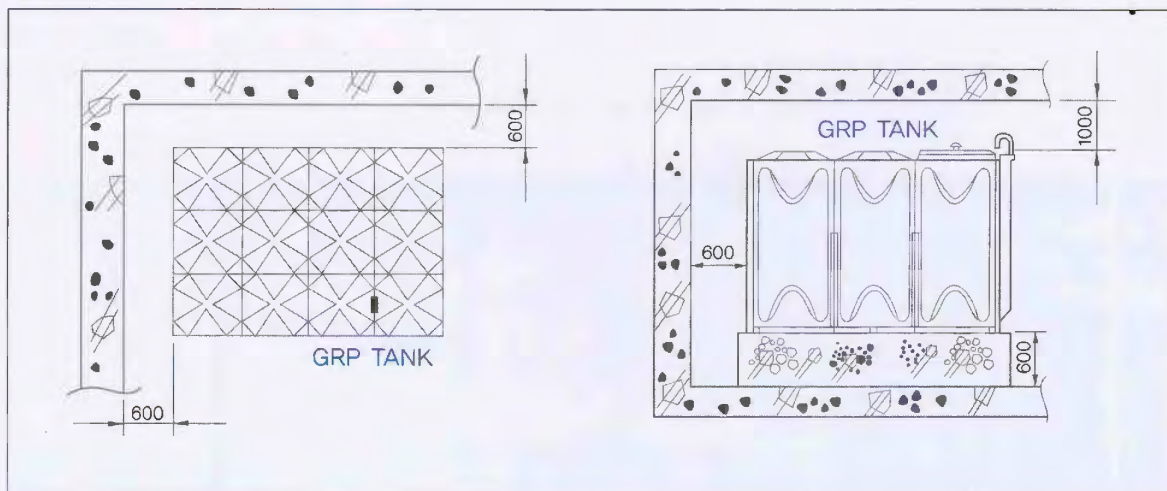
Horizontal Degree : less than 1/500 (Surface has to be horizon flat)



GRP Water Tank Installation Space

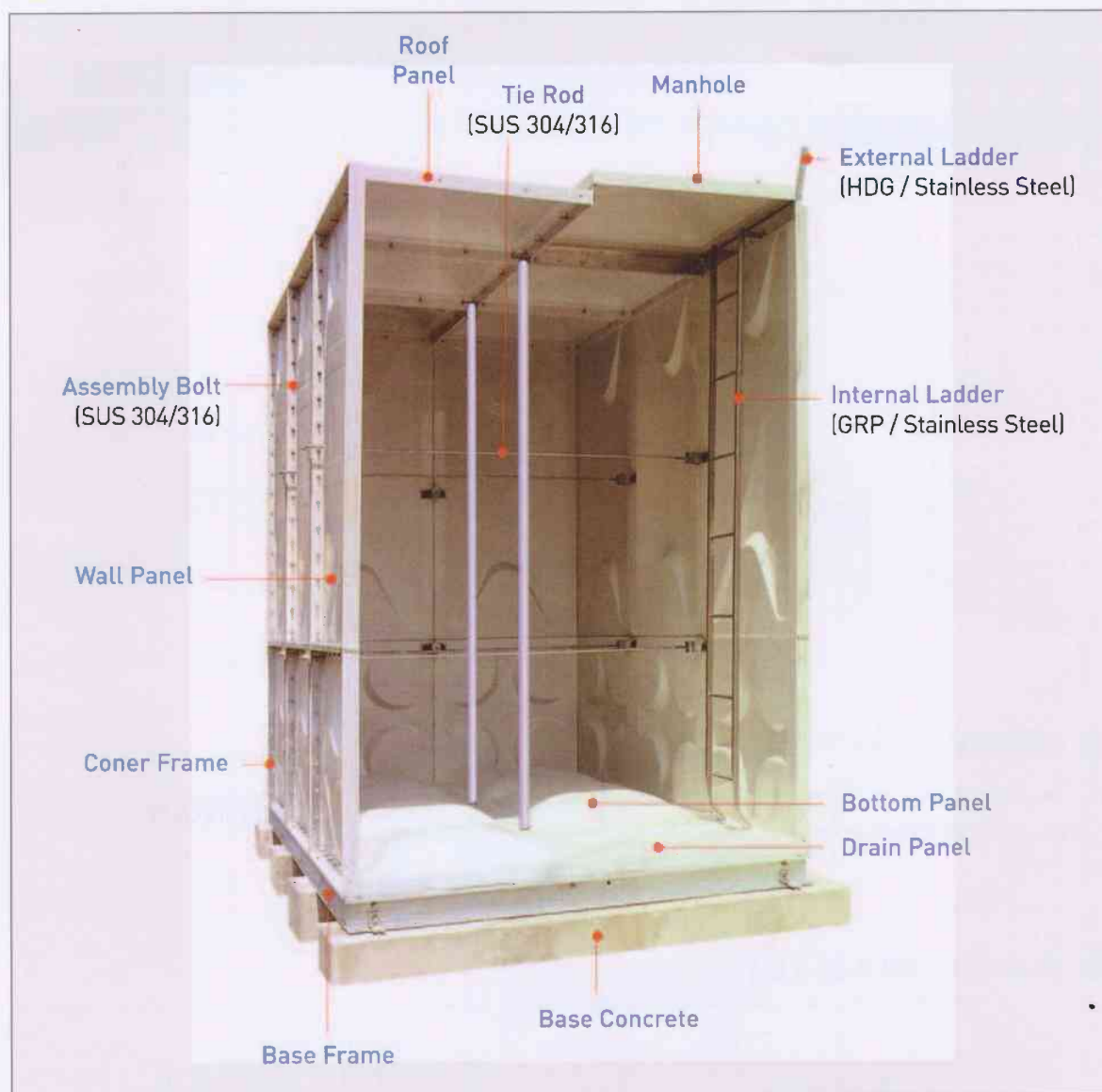
For maintenance and repairing, it is recommended to leave at least 600mm and 1,000mm extra space from wall and ceiling.

Example : 3W X 4L X 2H



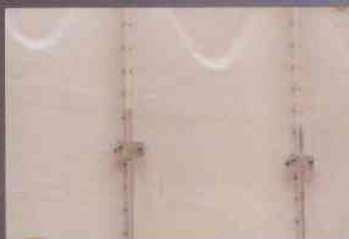
REINFORCEMENT SYSTEM

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



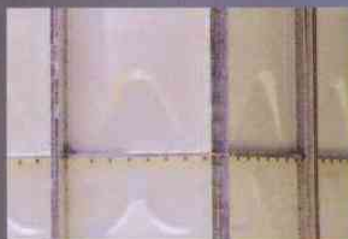
▲ 3MH ↑

● 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)



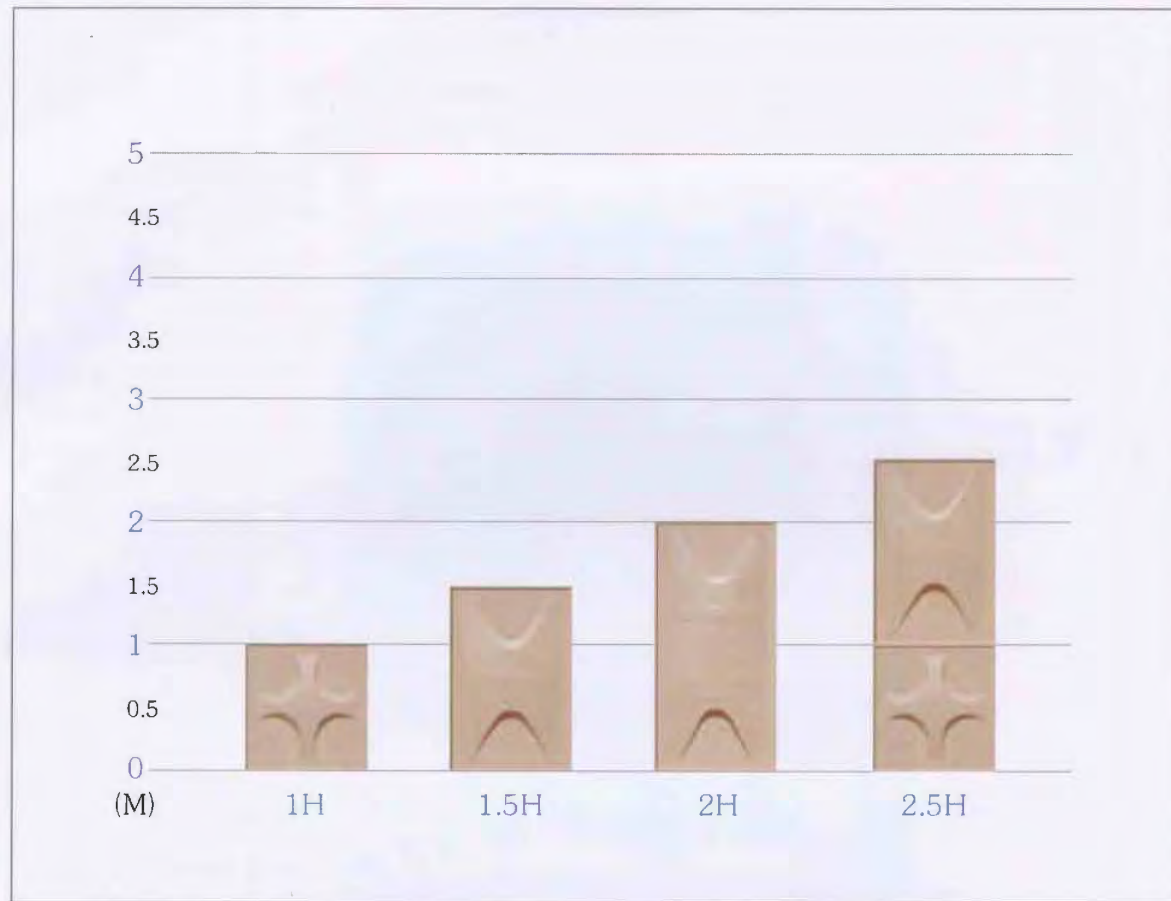
▲ External section and structure



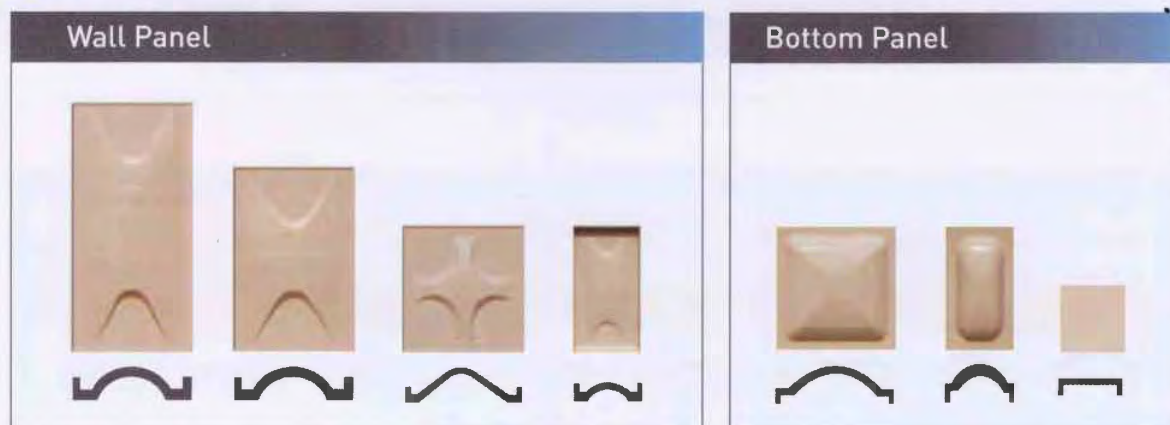
▲ 3MH ↓

•• PANEL COMPOSITION

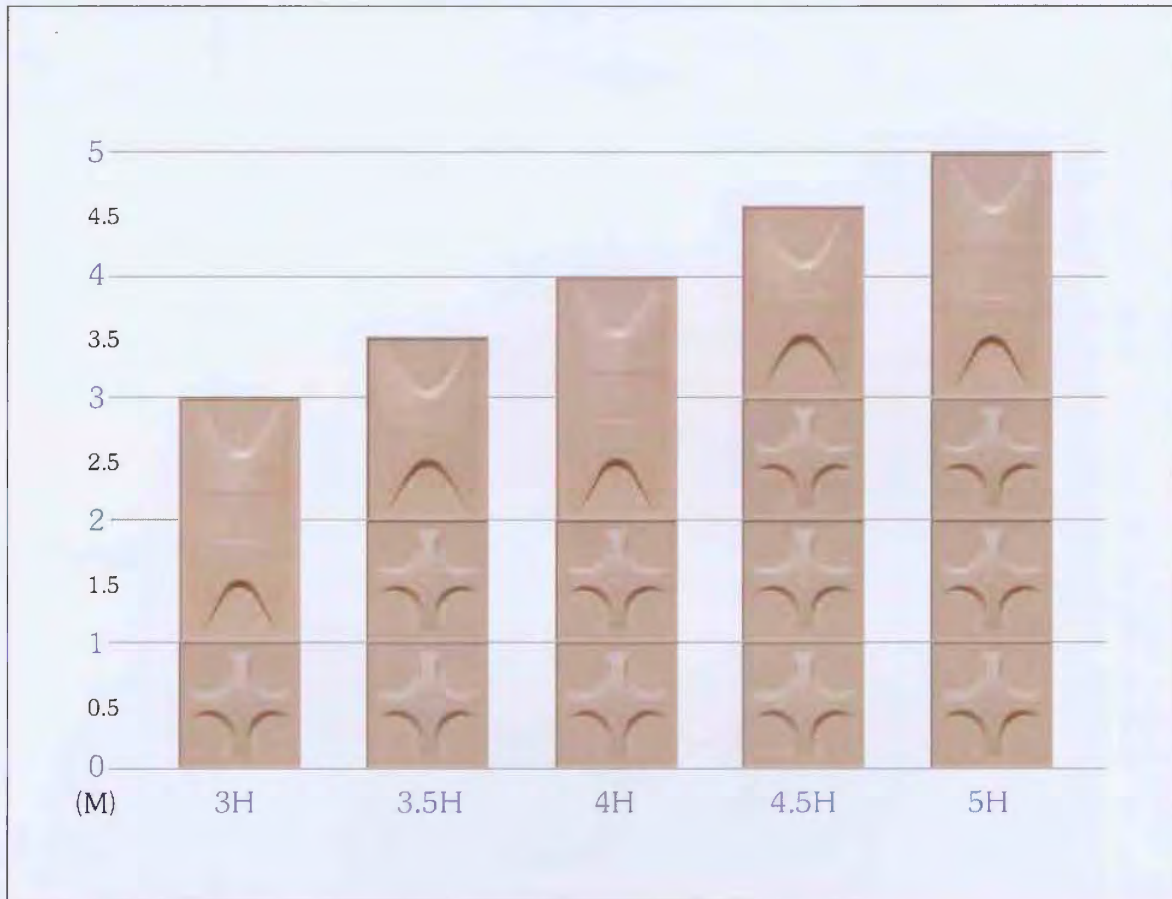
● Wall Panel Composition By Height



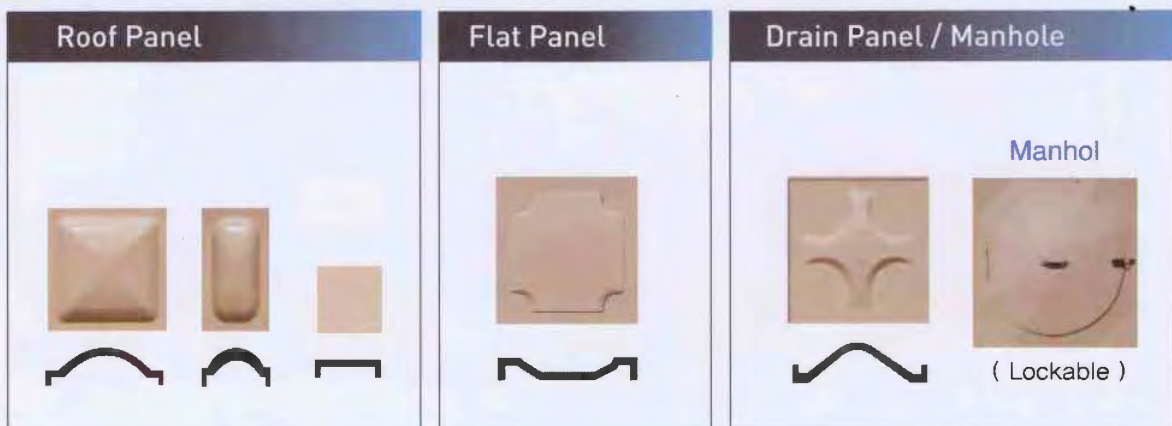
● Type and Shape



GRP SECTIONAL WATER TANKS



Type and Shape



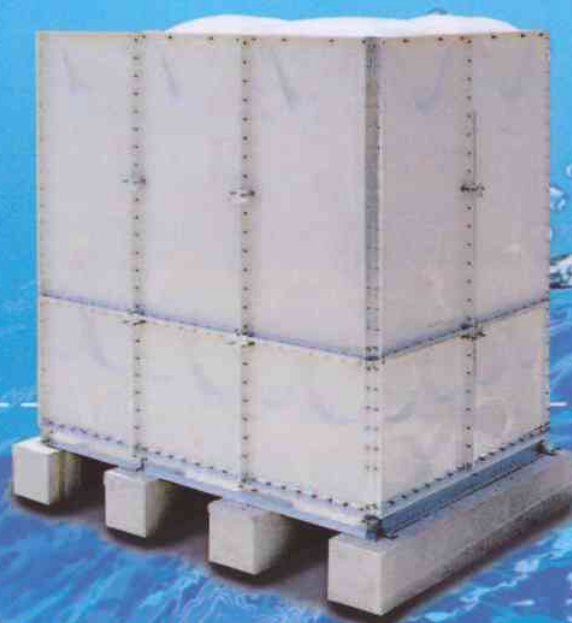
❖❖ BRIEF TANK INSTALLATION PROCESS



▲ Bottom Panel Installation(1)



▲ Side Panel Installation(2)



▲ Installation Completion(6)



▲ Roof Panel Installation(5)



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.

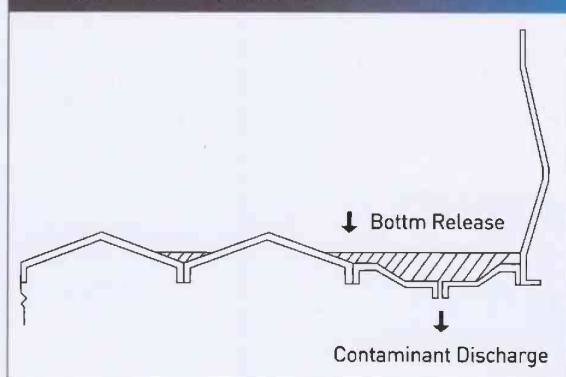
Sizes adaptable to any needs

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

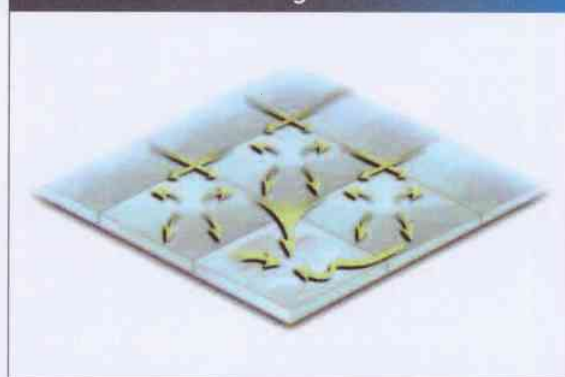
Complete drainage

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

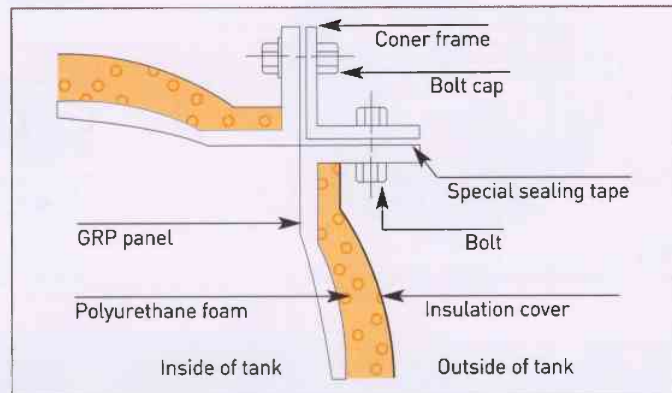


Detailed Flow Diagram



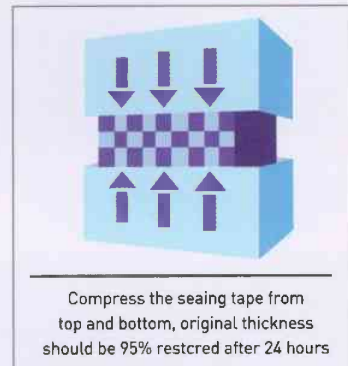
● Watertightness

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



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

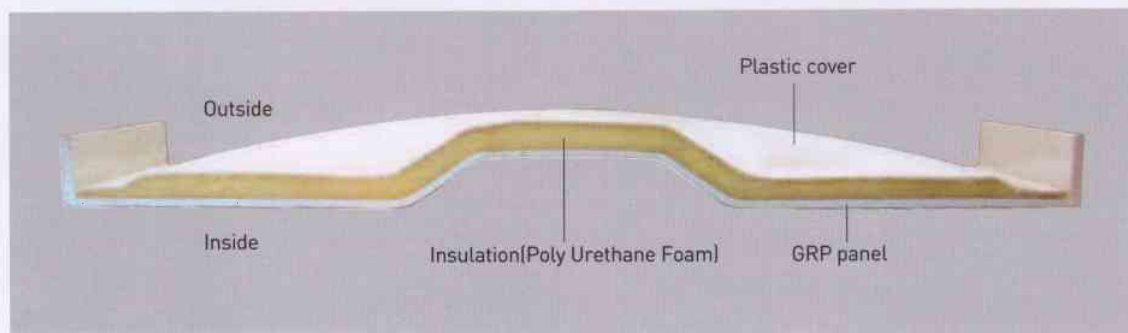
G21489 / SGP
PSB Singapore
 Sealing Tape Test Report



● 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

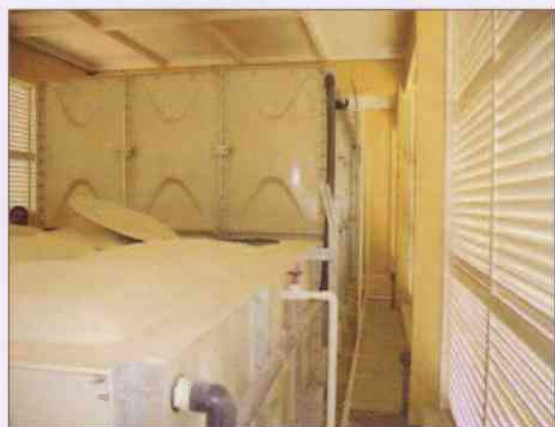
If it is not used for a long time, be sure to drain the water from the tank.

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	Green Community	Dubai	(3X4X2)	1
Farah Hotel	Kuwait	2x5x2M	1			-(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	Residential building	Kuwait City, Kuwait	5.5X5.5X4.5	1
		4x4x2M	1			7X8x4	1
Alnassar Tower, Kuwait city	Kuwait	5x6x1.5M	1			2X(7+1)X2	1
		3x4x2M	1	Labour Camp	Qatar	3X4X2	1
		4x11x2M	1	Labour Camp	Qatar	4X7X3	5
Warehouse & office	Dubai	4x4x2M	1			13.5X15X3	2
		5x6x1.5M	1			8X8.5X3	1
Plimsoll logistics	Dubai	7x13x3M	1	Commercial BD	Yemen	5X10X2	1
	Dubai	6x19x3M	1			5X8X2.5	1
Empire shipping service	Dubai	9x13x2M	1			3X4X2	24
	ZAZFA	9x13x2M	1	Al Dhahiya City Proj.	Doha, Qatar	3.5X6X3	18
Warehouse & office	Dubai	9x13x2M	1			4X6X3	24
	ZAZFA	9x13x2M	1			4X7X3	18
Kca dutag	Dubai	5x12.5x3M	1	City Center	Doha	4X4.5X4	6
				Merweb	Doha	4.5X7X4	14
				Commercial BD			

SUPREME GRP LINING SYSTEM



GRP lining is a hose relining method in which the inliner used is a seamless glass fibre fabric hose. GRP lining can be used to rehabilitate sewers with damage such as root penetration, deposits, socket offset, cracks and pipe fractures.

Once the existing pipe has been cleaned and inspected by a camera, it is prepared for rehabilitation with milling and smoothing robots, which pulls the folded inliner hose into the existing pipe through a shaft. When subjected to compressed air the inliner unfolds and applies itself to the inside wall of the existing pipe. The curing method is selected according to site conditions - using either ultraviolet light or a mixture of air and steam. Unsaturated polyester resins or vinyl ester resins are used, depending on the level of exposure to chemicals. The curing process is continuously monitored and recorded with the help of automated devices.

DETAILS OF RAW MATERIALS FOR GRP LINING

Glass Fiber - Chopped Strand Mat (CSM)

Resin - Orthophalic Polyester Resin NCS 985 PA

Catalyst - Norpol MEKP

Method of statement GRP Lining

GRINDING

After concreting many irregularities on the surface remain and if lamination is carried out on such surface finishing on the outer surface will be inferior. Hence, surface grinding of concrete has to be done, if necessary. This removes all irregularities and the surface becomes clean. Moreover, the grinded surface has more porosity which will ensure a stronger bonding with resin.

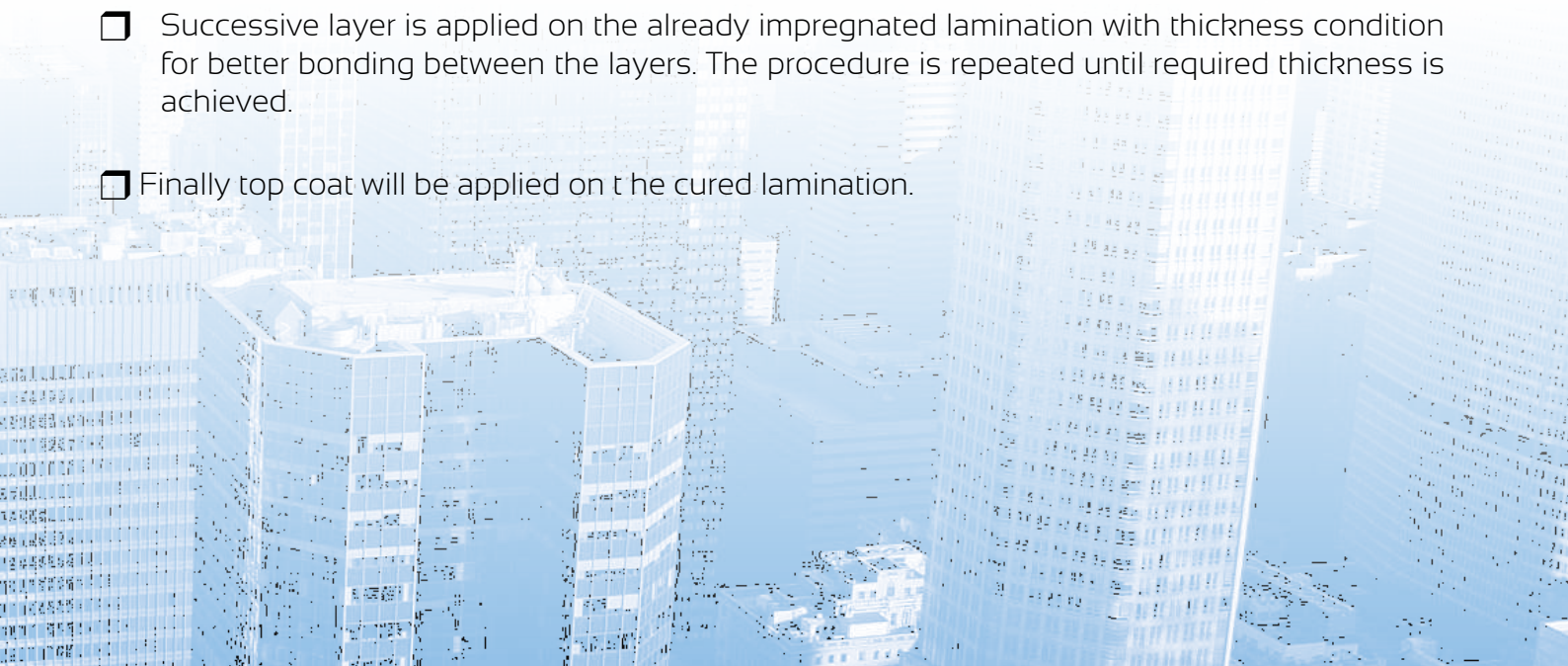
DUST REMOVAL

After grinding, concrete powder and debris accumulate and this has to be removed as it gets entrapped between the lining and the surface. Hence, the concrete surface is to be cleaned properly with acetone and it is ensured that no impurities are entrapped.

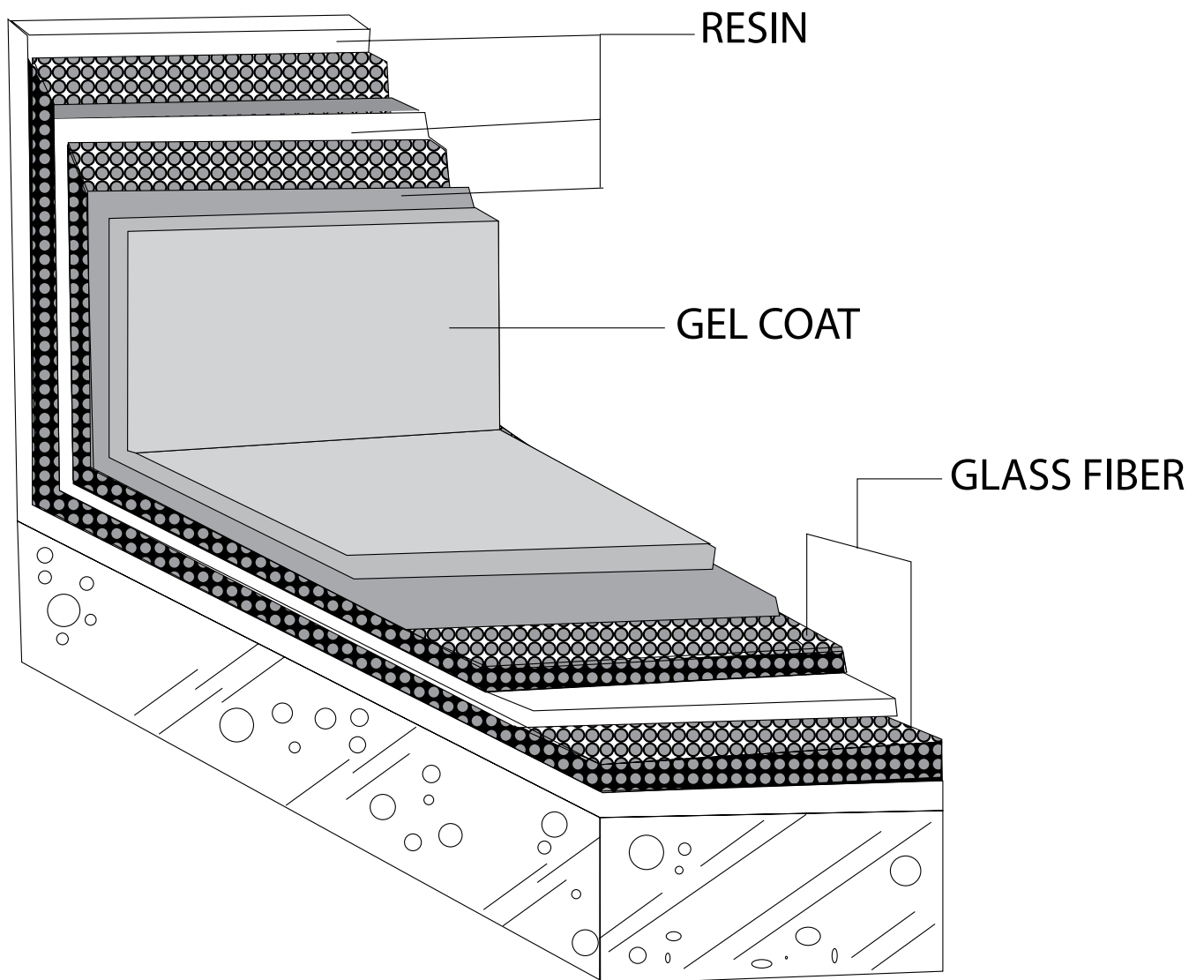
LAMINATION

Process of lamination for open areas of benching:

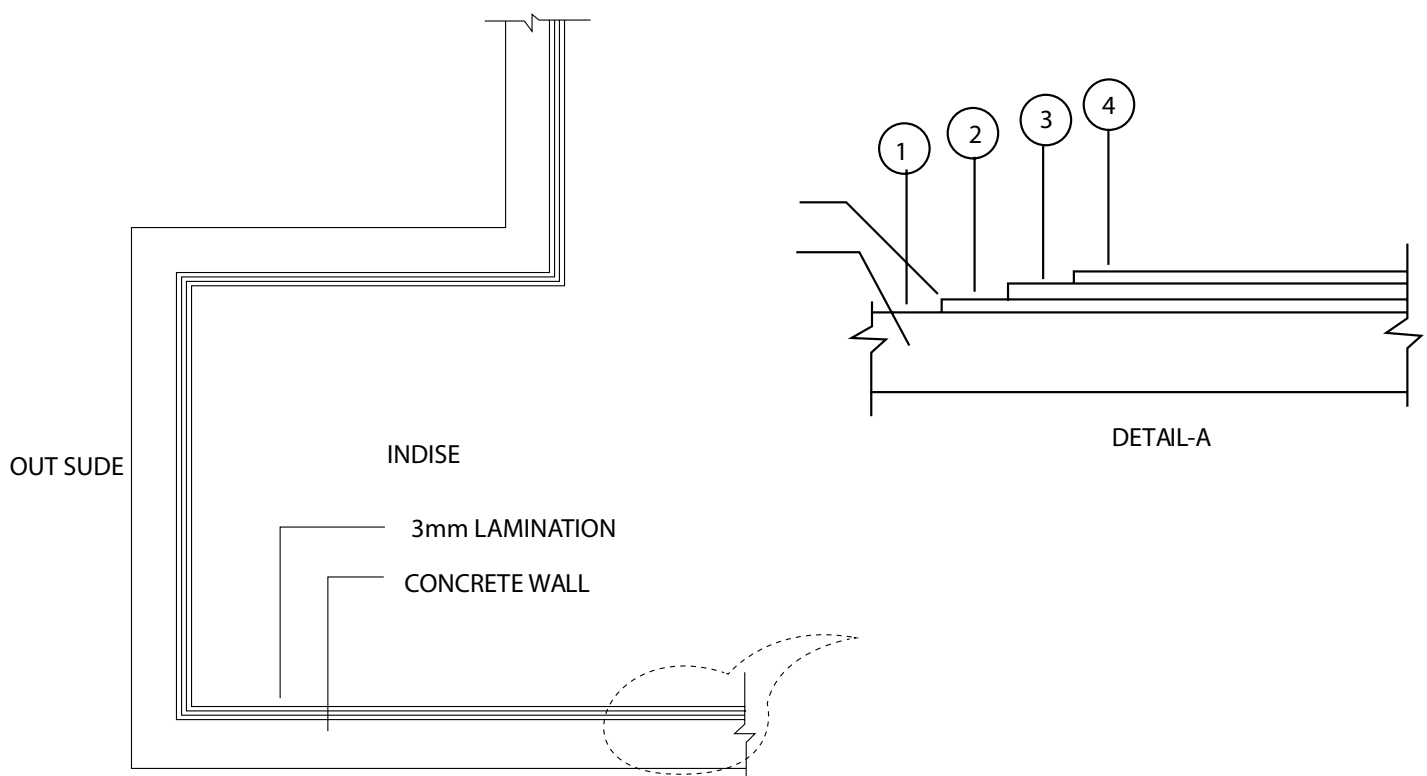
- ☐ After the surface preparation and removal of dust, first coat of resin is applied on the concrete surface. Care is taken to see that the resin fills all voids in the concrete surface so as to avoid the formation of air bubbles.
- ☐ One coat resin is applied on concrete surface. Then first pre-trailed layer of glass fiber (CSM) is placed on the resin applied surface.
- ☐ A woolen roller is used for applying the resin on the mat.
- ☐ Second layer of glass fiber (CSM) is placed over the first layer with resin applied over it.
- ☐ Metallic roller is used to impregnate the lamination and to remove any air entrapment.
- ☐ Sufficient time is allowed for successive glass fiber impregnation to avoid peak exothermic heat.
- ☐ Successive layer is applied on the already impregnated lamination with thickness condition for better bonding between the layers. The procedure is repeated until required thickness is achieved.
- ☐ Finally top coat will be applied on the cured lamination.



TECHNICAL DETAILS



GRP 3 mm LAMINATION



METHOD OF STATEMENT OF GRP LAMINATION

1. First layer filling putty and applying resin coating above RCC wall
2. Second layer apply fibre mat with resin
3. Thrid layer apply fibre mat with resin
4. Fourth layer applying white gelcoat for filling the pin holes



The World Leader in
GRP Water Tank

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