



POTAGLAS

SECTIONAL PANEL WATER STORAGE TANK



www.potaglasmalaysia.com



ISO APPROVAL NO. 0049362

OUR VISION

POTAGLAS MALAYSIA SDN BHD boasts of technology and expertise accumulated for the past decades. Not only does it seek to realize its goal of becoming the world's top GRP Sectional Panel Tank manufacturing company; it also aspires to fulfil the noble cause of making human life better and more meaningful.

POTAGLAS have been, and will be, continuously challenging ourselves to develop as the world's leading company and break new ground in the future. POTAGLAS vows to continue its tradition of pursuing unlimited progress.



POTAGLAS

MADE IN MALAYSIA



ABOUT US



WATER, is an essential resource. Therefore, storage of clean, potable water for extended period remains a Top Priority.

POTAGLAS was established in Malaysia since 1987 under a wholly subsidiary of REIB - a large Malaysian company, started to manufacture GRP water tank panels in 1988 and Sheet Moulding Compound (SMC) in 1992. Since 2016, POTAGLAS has been operating under POTAGLAS MALAYSIA SDN BHD (PMSB).

As the manufacturer specializing in Hot Pressed Moulded GRP sectional water storage tank, we exert considerable efforts toward product development & process innovation. Guided by the spirit of challenge, we are totally devoted to manufacturing world class water storage products.

POTAGLAS tanks are successfully supplied and installed around the world. Our manufacturing and sales & marketing teams work with clients domestically and internationally ensuring all requirements are fulfilled in accordance with national and international standards.



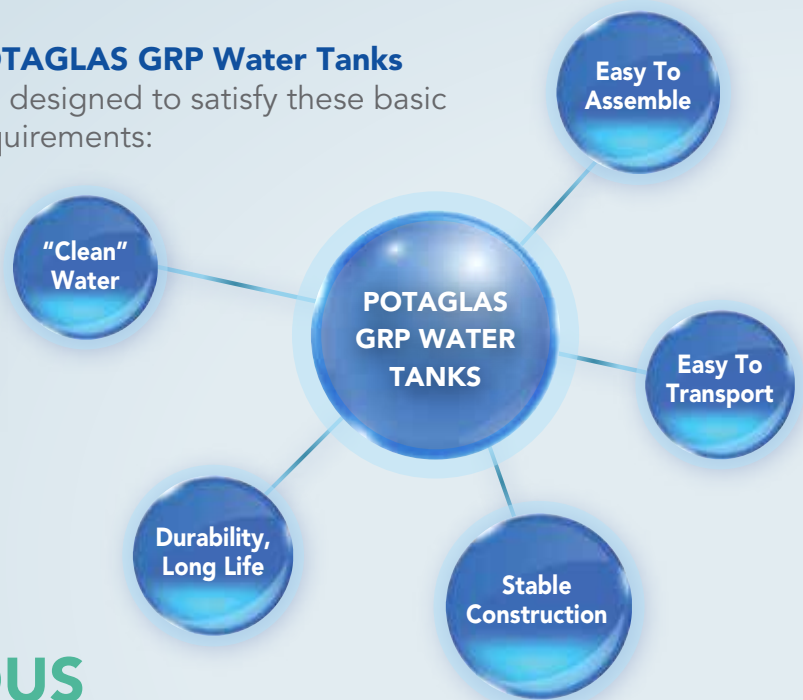
Through many years of collaboration with our experienced & innovative in house SMC specialists, Potaglas had gained in depth expertise in Hot Pressed Moulded Sectional GRP panels and SMC formulation & production. We continue to build on our history of product excellence and technology innovation to provide the highest-quality and most reliable products to our world-wide customers.



INTRODUCTION

The GRP material, from which all the POTAGLAS GRP Sectional Panel Type Water Tanks are manufactured, is light, corrosion free and highly durable, very strong in terms of tension, compression and rigid.

POTAGLAS GRP Water Tanks are designed to satisfy these basic requirements:



GREEN CONSCIOUS

Our world is showing an increased awareness of environmental issues when selecting materials for construction or otherwise. The concept of “Green Buildings” is a commitment rather than the exception.

Recyclability, sustainability and carbon footprint impacts are becoming important considerations upon designing infrastructure and building. The life cycle of a water tank from manufacturing through to its disposal is a crucial approach to choosing the most suitable tank.

GRP Sectional Panel Tanks offer significant environmental benefits, it weight less and require lesser energy to transport. With the excellent mechanical properties and corrosion free, it requires minimal maintenance requirements. The long life cycle of GRP panel tank is the perfect choice of water storage.



GRP

SECTIONAL WATER TANK

GENERAL SPECIFICATIONS

Manufacturing Process

Hot Pressed Sheet Moulding Compound (SMC) Compression Moulding
Up To 150 Degree Celsius

TANK STRUCTURAL SUPPORT

Tie-rod System

External : Hot Dipped Galvanised Steel *
Internal : SS304 Tie-rod, Optional SS316

Roof Support

PVC pipes with GRP roof panel stiffener
*Optional : ABS pipes

External Braced System

External : Hot Dipped Galvanised Steel
Internal : None (metal free inside)

Standard

Singapore Standard
SS245: 2014,
Malaysia Standard
MS 1390 : 2010
similar to British Standard
BS 7491 Part 3:1994 and
BS EN 13280:2001

Materials

Sheet Moulding Compound (SMC)
consists of:

Resin

Isophthalic unsaturated polyester resin
conforming to BS 3532 specification

Fibre Glass

Alkali free fibre glass - Type E glass

Bolt, Nuts, Washers

External

Standard : Hot Dipped
Galvanised Steel
*Optional : SS 304/316

Internal

Standard : SS 304
(In-contact with water)

*Optional : SS 316
(In-contact with water)

Roof

Standard : Hot Dipped
Galvanised steel
*Optional : SS 304/316

Sealant

- Nontoxic PVC foam
- EPDM Rubber

Water Level Indicator

Standard : Reversed Reading
Mechanical Ball Float Type
(Cat & Mouse)

*Optional : Direct Reading
Clear Tube Type

Ladder

External

Standard : Hot Dipped
Galvanised Steel, 300mm width

Internal

Standard : PVC or Aluminium,
300mm width
*Optional : GRP or SS 304/316,
300mm width

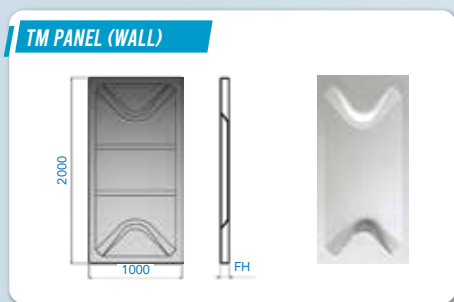
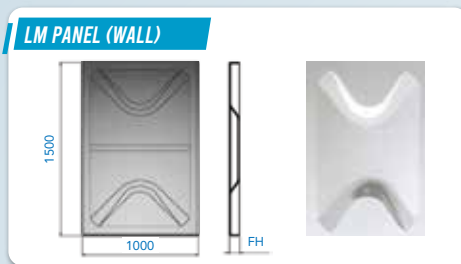
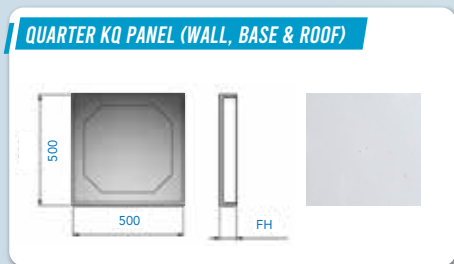
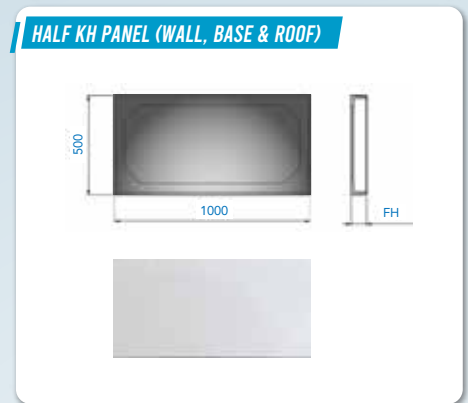
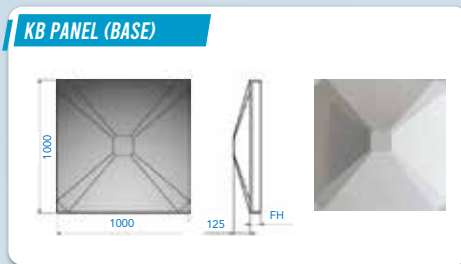
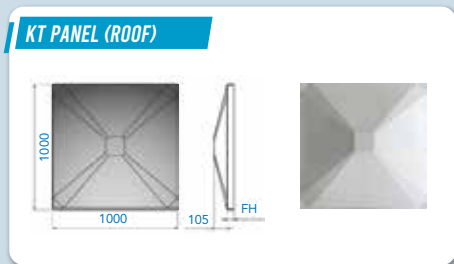
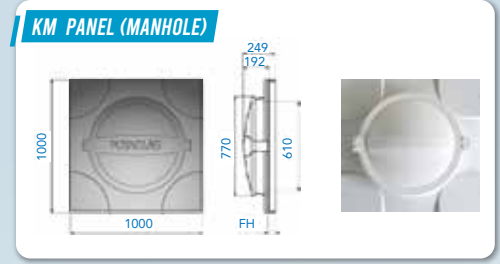
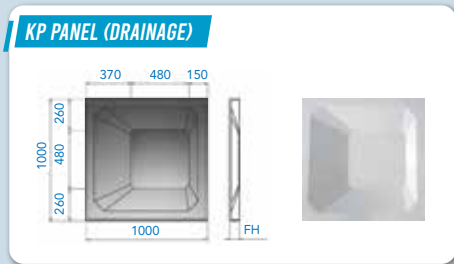
Nozzle Panel

Pipe nozzles flange not
inclusive

Flat panels will be
provided upon request

Note: Specification may vary according to client's requirement.

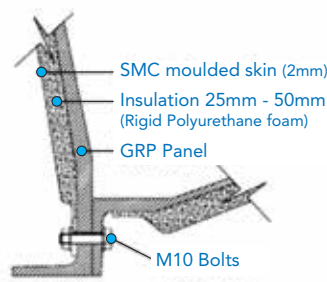
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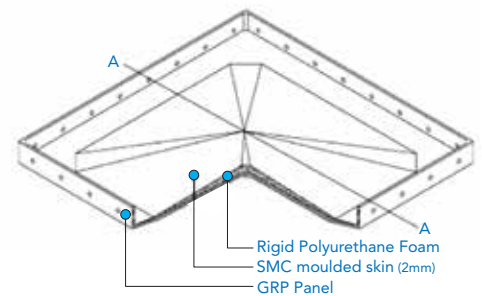
NOTE :

1. FLANGE HEIGHT (FH) VARIES ACCORDING PANEL SERIES
2. STANDARD COLOUR : GRAY

PRE-INSULATED PANEL



PANEL CONNECTION SECTION A-A'



TYPICAL CROSS SECTION

By injecting 50mm of polyurethane and bonding the SMC moulded skin with permanent structural adhesive, POTAGLAS pre-insulated panel could maintain the desired water temperature stored inside the tank under extreme temperature condition.

POTAGLAS pre-insulated panel could be selected for water storage where there is a need to stabilize the temperature against extreme heat or freezing conditions so to prevent dew formation.

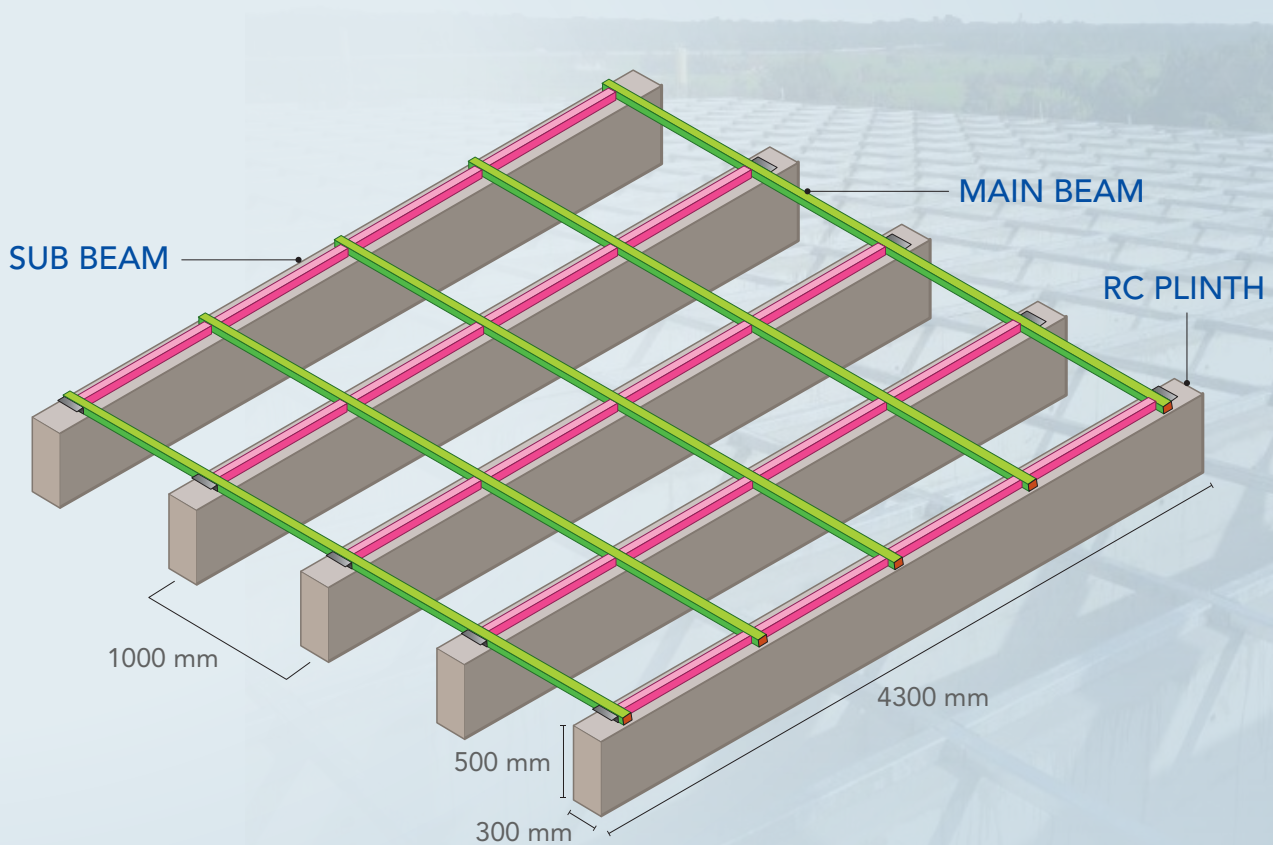
DISCLAIMER :

- Diagram / Pictures shown are strictly for illustrations only.
- Potaglas Malaysia reserves all rights to amend & design without prior notice.

SKID BASE SPECIFICATIONS FOR GRP Sectional Water Tank

Tank Height	Main Beam	Sub Beam	Concrete Plinth Distance
1.0 m	HDG Hollow Section 50 mm x 50 mm x 3 mm	HDG Hollow Section 50 mm x 50 mm x 3 mm	1000 mm c/c <i>*c/c = centre to centre</i>
1.5 m			
2.0 m			
2.5 m			
3.0 m			
3.5 m	Hollow Section 50 mm x 50 mm x 4.5 mm	Hollow Section 50 mm x 50 mm x 4.5 mm	
4.0 m			

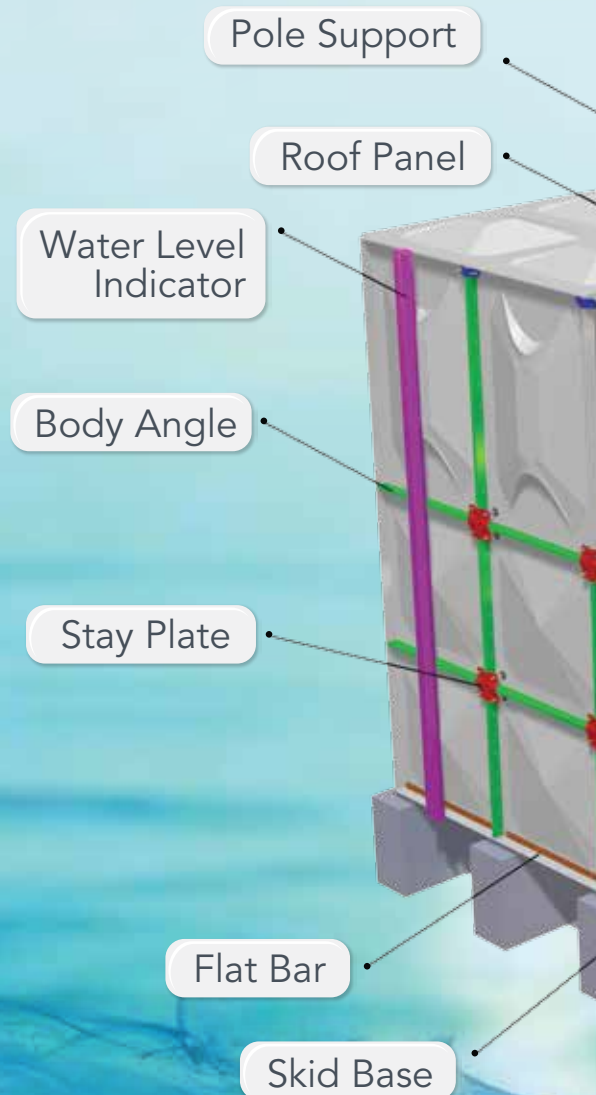
*POTAGLAS reserves the right to provide alternate skid base designs depending on the site condition and material availability.



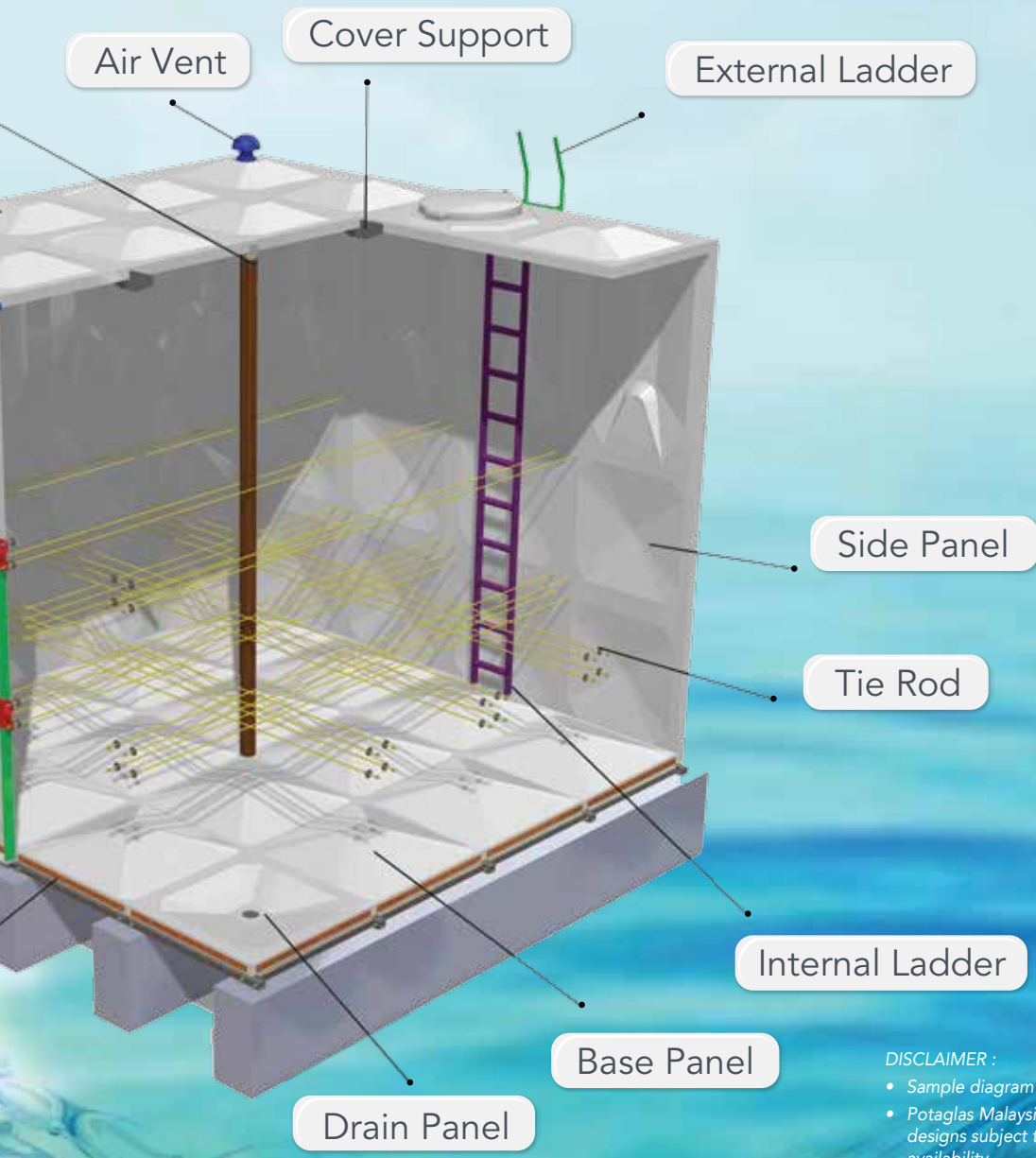
* 4m x 4m foot print skid base illustration only.
POTAGLAS recommends an ideal concrete plinth size of 300mm (W) x 500mm (H), with maximum variance in height of not more than 2mm

OVERVIEW OF INTERNAL STRUCTURAL SUPPORT FOR GRP SECTIONAL WATER TANK

POTAGLAS GRP sectional water tank is constructed with bottom, side and top panels, completes with external and internal structural reinforcement and necessary tank accessories to facilitate water storage.



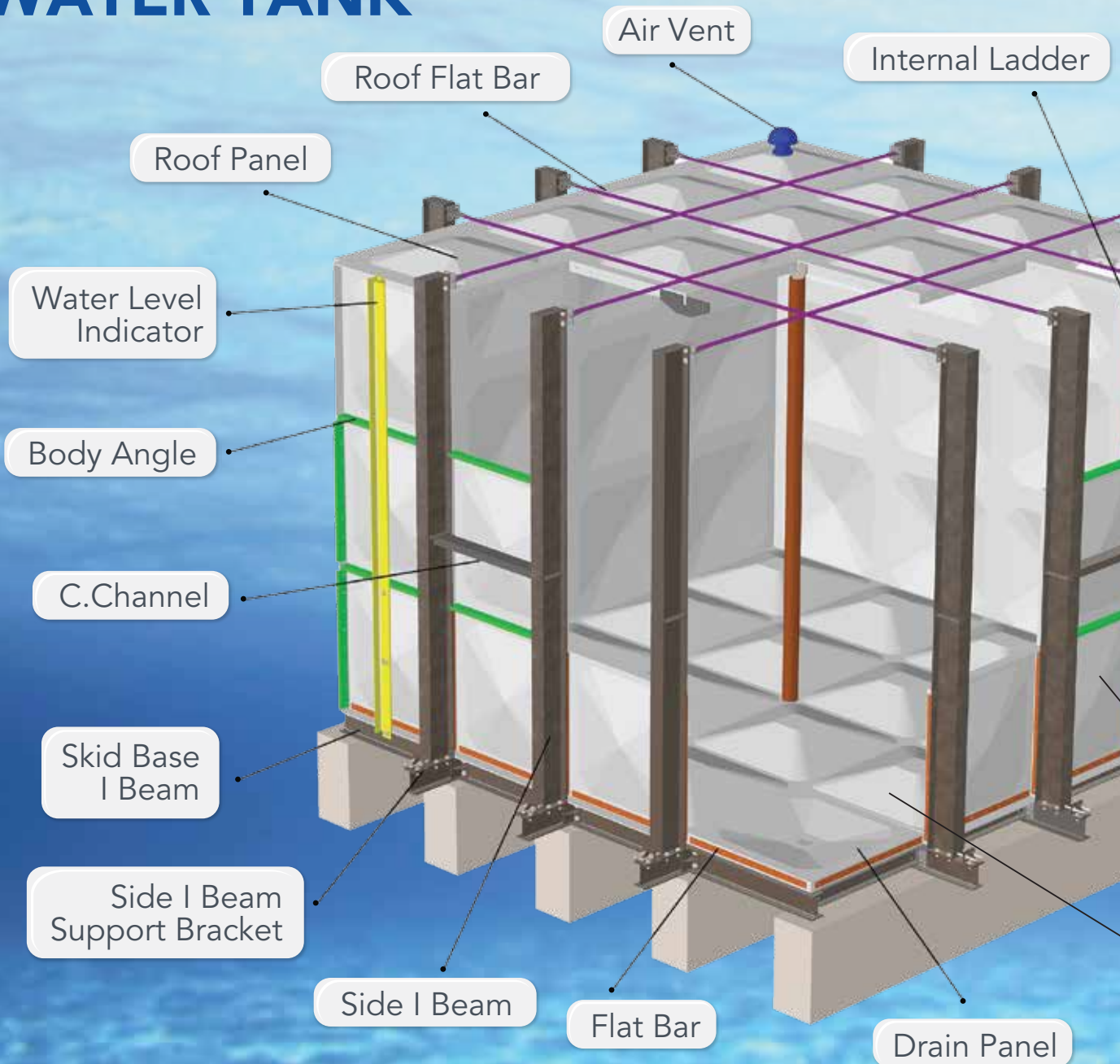
Main Components	External Structural Support	Internal Structural Support	Tank Accessories
Top Panel	Body Angle	Pole	Access Manhole
Side Panel	Corner Angle	Pole Support	Air Vent
Bottom Panel	–	Tie Rod	Water Level Indicator
Drain/Pit Panel	Flat Bar Stay Plate	Roof Support In Corner Bracket	Internal Ladder External Ladder



DISCLAIMER :

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OVERVIEW OF EXTERNAL STRUCTURAL SUPPORT FOR GRP SECTIONAL WATER TANK



Main Components	External Structural Support	Internal Structural Support	Tank Accessories
Top Panel	Flat Bar	Pole	Access Manhole
Side Panel	Body Angle	Pole Support	Internal Ladder
Bottom Panel	–	Roof Support	External Ladder
Drain/Pit Panel	C-Channel Vertical I Beam Roof Flat Bar Side I Beam Support Bracket External Bracing Support	In Corner Bracket	Air Vent Tube Level Indicator

External Ladder



Side Panel

Base Panel

Project Location : QATAR



Project Location : ABU DHABI



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MAINTENANCE, INSPECTION AND CLEANING RECOMMENDATIONS

- POTAGLAS panel tanks are designed and manufactured for long-term service. Periodic maintenance and inspection shall be conducted to ensure its safe usage.
- We recommend to perform the following inspection and maintenance work.

Maintenance Item	Period	Remarks
Clean the inner side of water tank	Once / Year	Use cloth, sponge or any soft material. Void using hard material such as hard wire brush on the surface of the GRP.
Looseness of the bolts and nuts	Once / Year	Retighten any loosen bolts and nuts to rectify leaks or drips.
Check water level indicator	Once / Year	Checking operation of water level control valve.
Check cloggiens of Airvent, Overflow Pipe	Once / Year	Remove any trapped objects.
Manhole Cover	Once / 6 Months	Make sure that the manhole cover is completely shut and always keep it locked.
Turbid water	Once / Year	Check the inner parts of the tank, the outlet and the other places for turbid water.
Water leakage and deformation of the tank	Once / 6 Months	If the water tank leaks or panel bulging, immediately contact the local sales representative.
Check all pipe works	Once / 6 Months	Check all piping connected onto the tank is suitably braced & supported.

RECOMMENDATION & PRECAUTION

- Do not place heavy loads of force on the panels during transportation.
 - Any parts that come in contact with lifting rope or other cargo must be cushioned.

► **TRANSPORTATION**
- Be careful not to put 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 fittings.
 - Take precautions to avoid welding works too near to the tank.

► **PIPE INSTALLATION**
- If tank is not used for a very long period of time, be sure to discharge the stored water before re-use.
 - Tank holds a reservoir of water for human consumption, regular inspection is highly recommended.

► **MAINTENANCE**

JOB REFERENCE

GRP SECTIONAL PANEL WATER TANK

Project Location : Negeri Sembilan, Malaysia



Project Location : Cyberjaya, Malaysia



Project Location : Kelantan, Malaysia



Project Location : Kuala Lumpur, Malaysia



Project Location : Qatar



Project Location : Qatar



Project Location : Singapore



Project Location : Abu Dhabi





PRESSED

SECTIONAL WATER TANK

STEEL



CUSTOMER CARELINE

+6012 630 2897

PRESSED

SECTIONAL WATER TANK

STEEL



GENERAL SPECIFICATIONS

Standard

Pressed steel sectional water tank constructed with hydraulically pressed flanged panels, conform to BS 1564:1975 and SS 22:1979

Materials

The steel used in the manufacture of the tank plates, stays and cleats conform to the requirement of BS 4360:1972 grade 43A or ISO equivalent

Flanges of Plates

Tank panels pressed with a combined double flange at an angle of 45 degree and 90 degree to the face of the plate in four sides

Stays and Cleats

The stays and cleats are made of steel angle bar and steel plate

Bolts, Nuts and Washers

Hot Dipped Galvanised steel bolts, nuts and washers for internal and external

Jointing Materials

Non-toxic PVC foam to be used for all jointing between tank panel flanges

Nozzles for Connection

Short pipe with flange or socket for all pipe connections

Ladder

Aluminium or HDG Steel ladder for internal and external access, 300mm width

Tank Cover

Panel type tank cover supported by trusses 530mm x 530mm square manhole and PVC air-vent supplied as standard for each compartment

Water Level Indicator

Reverse Reading Pointer Mechanical Type (Cat & Mouse)

Finish

Hot Dip Galvanised conform to ISO 1461

STANDARD THICKNESS FOR 1.22 m X 1.22 m TANK PANEL

Type	1.22 m (H)	2.44 m (H)	3.66 m (H)	4.88 m (H)
Tank covers	1.5 mm	1.5 mm	1.5 mm	1.5 mm
4th side panels				5.0 mm
3rd side panels			5.0 mm	5.0 mm
2nd side panels		5.0 mm	5.0 mm	5.0 mm
1st side panels	5.0 mm	5.0 mm	5.0 mm	6.0 mm
Bottom panels	5.0 mm	5.0 mm	5.0 mm	6.0 mm

STANDARD THICKNESS FOR 1.0 m X 1.0 m TANK PANEL

Type	1.0 m (H)	2.0 m (H)	3.0 m (H)	4.0 m (H)	5.0 m (H)
5th side panels					5.0 mm
4th side panels				5.0 mm	5.0 mm
3rd side panels			5.0 mm	5.0 mm	5.0 mm
2nd side panels		5.0 mm	5.0 mm	5.0 mm	5.0 mm
1st side panels	5.0 mm	5.0 mm	5.0 mm	5.0 mm	5.0 mm
Bottom panels	5.0 mm	5.0 mm	5.0 mm	5.0 mm	5.0 mm

Note: Specification may vary according to client's requirement.

*Optional items are to be quoted separately upon request.



PRESSED STAINLESS STEEL

SECTIONAL WATER TANK

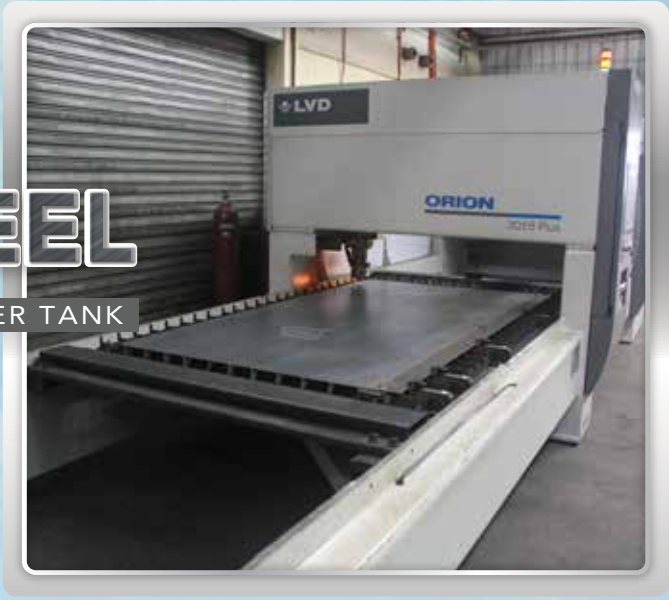


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PRESSED STAINLESS STEEL

SECTIONAL WATER TANK



GENERAL SPECIFICATIONS

STANDARD

Pressed stainless steel sectional water tank constructed with hydraulically pressed flanged panels

MATERIALS

The tank panel, tie rods, stays and cleats are made from Stainless Steel Grade 304/316

FLANGES OF PLATES

Tank panels pressed with a 90-degree panel flange to the face of the plate on four sides.

BOLTS, NUTS AND WASHERS

SS 304/316 bolts, nuts and washer

JOINTING MATERIALS

Non toxic PVC foam to be used for all jointing between tank panel flange

TANK COVER

Panel type tank cover supported by trusses 600mm x 600mm square manhole and supplied as standard for each compartment

WATER LEVEL INDICATOR

Standard: Reverse Reading Pointer Mechanical Type (Cat & Mouse)
*Optional: Direct Reading Clear Tube Type

NOZZLES FOR CONNECTION

Short pipe with flange or socket for all pipe connections

LADDER

Internal ladder shall be made SS 304/316 and aluminium for external ladder, 300mm width

SKID BASE

Provided

STANDARD THICKNESS FOR 1.22 m X 1.22 m TANK PANEL

Type	1.22 m (H)	2.44 m (H)	3.66 m (H)	4.88 m (H)
Tank covers	1.5 mm	1.5 mm	1.5 mm	1.5 mm
4th side panels				2.5 mm
3rd side panels			2.5 mm	2.5 mm
2nd side panels		2.5 mm	3.0 mm	3.0 mm
1st side panels	2.5 mm	2.5 mm	4.0 mm	4.0 mm
Bottom panels	2.5 mm	2.5 mm	4.0 mm	4.0 mm

STANDARD THICKNESS FOR 1.0 m X 1.0 m TANK PANEL

Type	1.0 m (H)	1.5 m (H)	2.0 m (H)	2.5 m (H)	3.0 m (H)	3.5 m (H)	4.0 m (H)
Tank covers	1.5 mm	1.5 mm	1.5 mm	1.5 mm	1.5 mm	1.5 mm	1.5 mm
4th side panels							
3rd side panels						2mm (1x1.5m)	2mm (1x2m)
2nd side panels				2mm (1x1.5m)	2mm (1x2m)	2.5 mm	3.0 mm
1st side panels	2.0 mm	2mm (1x1.5m)	2mm (1x2m)	2.5 mm	2.5 mm	3.0 mm	4.0 mm
Bottom panels	2.0 mm	2.0 mm	2.0 mm	2.5 mm	3.0 mm	4.0 mm	4.0 mm

Note: Specification may vary according to client's requirement.

*Optional items are to be quoted separately upon request.

JOB REFERENCE

PRESSED STEEL SECTIONAL WATER TANK

Project Location : DUBAI



PRESSED STAINLESS STEEL SECTIONAL WATER TANK

Project Location : CIKARANG, INDONESIA



Project Location : SINGAPORE



Project Location : PUCALLPA, PERU



Project Location : THAILAND



Project Location : TAIPEI, TAIWAN



QUALITY POLICY

“Total Customer Satisfaction”

The quality policy of PMSB signifies the organization’s commitment towards internal and external customer satisfaction in terms of product’s quality and adheres to applicable statutory and regulatory requirements, timely delivery and the provision of quality services.



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