



**PIPECO**<sup>®</sup>  
G R O U P



bsi.



# GRP SECTIONAL WATER TANK

## PIPECO TANKS KOREA





## Pipeco GRP Sectional Water Tank

PIPECO TANKS (KOREA) is a company that specializes in the development and production of GRP Water tanks. Located in Gimhae, Korea our large-scale plant and research center are dedicated to ongoing development and production to lead the industry.

We are specialized in manufacturing and installing GRP tanks and other GRP Products. Our advanced technology has received ISO, WARAS (UK), PSB (SINGAPORE) quality certificates. we have expanded our presence in more than 35 countries and 1 Tank getting completely installed every 24 hours

In addition, with a corporate ideology rooted in placing our customers first, we base our Management and Product Development upon this the foundation of trust, contributing to technological innovation, quality improvement, and added enhancement.

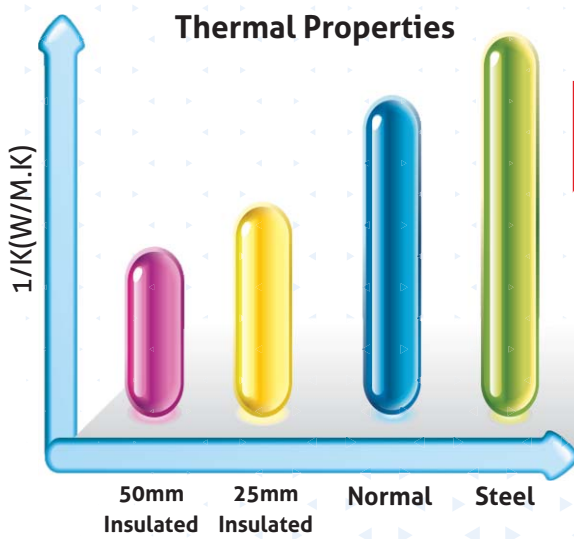
To carry out such customer-oriented management, we constantly keep in mind the priorities of stringent quality management and environmental protection. In the following, we adopted ISO product quality and environmental management standards from the very beginning, and our efforts to Growth as an environmentally friendly company along with our customers are never-ending.

We ask for your continuing interest and support kindly share your requirements via email at [sales@pipecogroup.com](mailto:sales@pipecogroup.com)



# 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 food grade sealant ensure a leak-free design



## PROTECTION AGAINST UV RAYS

Excellent ultraviolet (UV) resistant characteristics and performance ensures high mechanical properties and weather resistance even after 35 years of use





# General Specifications

## STANDARD:

BS EN 13280:2001 and British Standard BS 7491 Part 3:1994

01

## MATERIALS:

Sheet Moulding Compound (SMC) consists of below specification Resin - Isophthalic unsaturated polyester resin conforming to BS 3532 specification Fiber Glass - Low alkali fiberglass conforming to JIS R3411 to R3417 or BS 3396, BS 3496, and BS 3749 specifications.

02

## TESTING METHOD:

BS2782

03

## MANUFACTURING PROCESS:

Hot pressed SMC compression moulding

04

## TANK STRUCTURAL SUPPORT:

External : Hot Dipped Galvanised Steel  
Internal : SS316  
Roof Support : GRP Pipes

05

## SEALANT:

Non-toxic PVC Foam

06

## BOLT, NUTS, WASHERS:

External Standard : SS316 A4 Grade (Optional SS304)  
Internal Standard : SS316 (In-contact with water)  
Roof : Standard : SS316 (Optional SS304)

07

## LADDER :

External Standard : Hot Dipped Galvanised Steel, 300mm width  
Internal : Standard GRP  
Optional : SS 304 and 316, 300mm width

08

## WATER LEVEL INDICATOR :

Standard : Direct Reading Clear Tube Type  
Optional : Reversed Reading Mechanical Ball Float Type (Cat & Mouse)

09

## NOZZLE PANEL :

Flat Panels will be provided on request

10

## EXTERNAL BRACED SYSTEM :

External : Hot Dipped Galvanized Steel Internal None (metal free inside, non-partitioned tank only)  
Roof Support : GRP Poles

11





# GRP Panel Type and Size

Wall Panel									
1Mx2M	0.5Mx2M	1Mx1.5M	0.5Mx1.5M	1Mx1M	1Mx1M	0.5Mx1M	0.5Mx1M	0.3Mx1M	0.5Mx0.5M

Drain Panel	Base Panel			Roof Panel				Manway Panel
1Mx1M	1Mx1M	0.5Mx1M	0.5Mx0.5M	1Mx2M	1Mx1M	0.5Mx1M	0.5Mx0.5M	1Mx1M

# GRP Panel Composition by Height

Height of water tank

6.0m.H											
5.5m.H											
5.0m.H											
4.5m.H											
4.0m.H											
3.5m.H											
3.0m.H											
2.5m.H											
2.0m.H											
1.5m.H											
1.0m.H											
0.5m.H											
0m.H											
	1x1 E	1x1.5D	1x2 D	1x1.5 D	1x2 D	1x1.5 D	1x2 D	1x1.5 D	1x2 D	1x1.5 D	1x2 D
				1x1 C	1x1 B	1x1 C	1x1 B	1x1 C	1x1 B	1x1 C	1x1 B
						1x1 SA	1x1 SA	1x1 SA	1x1 SA	1x1 SA	1x1 SA
								1x1 IIA	1x1 IIA	1x1 IIA	1x1 IIA
										1x1 IIIA	1x1 IIIA

Grade of base panel	E	D	D	C	B	SA	SA	IIA	IIA	IIIA	IIIA
Grade of drain panel	C	C	C	B	SA	SA	IIA	IIA	IIA	IIIA	IIIA
Grade of wall-base panel	Flat,0.5X1	D	B	B	B	SA	SA	IIA	IIA	IIIA	IIIA
	Flat,1X1	D	B	B	SA	SA	IIA	IIA	IIIA	IIIA	IIIA

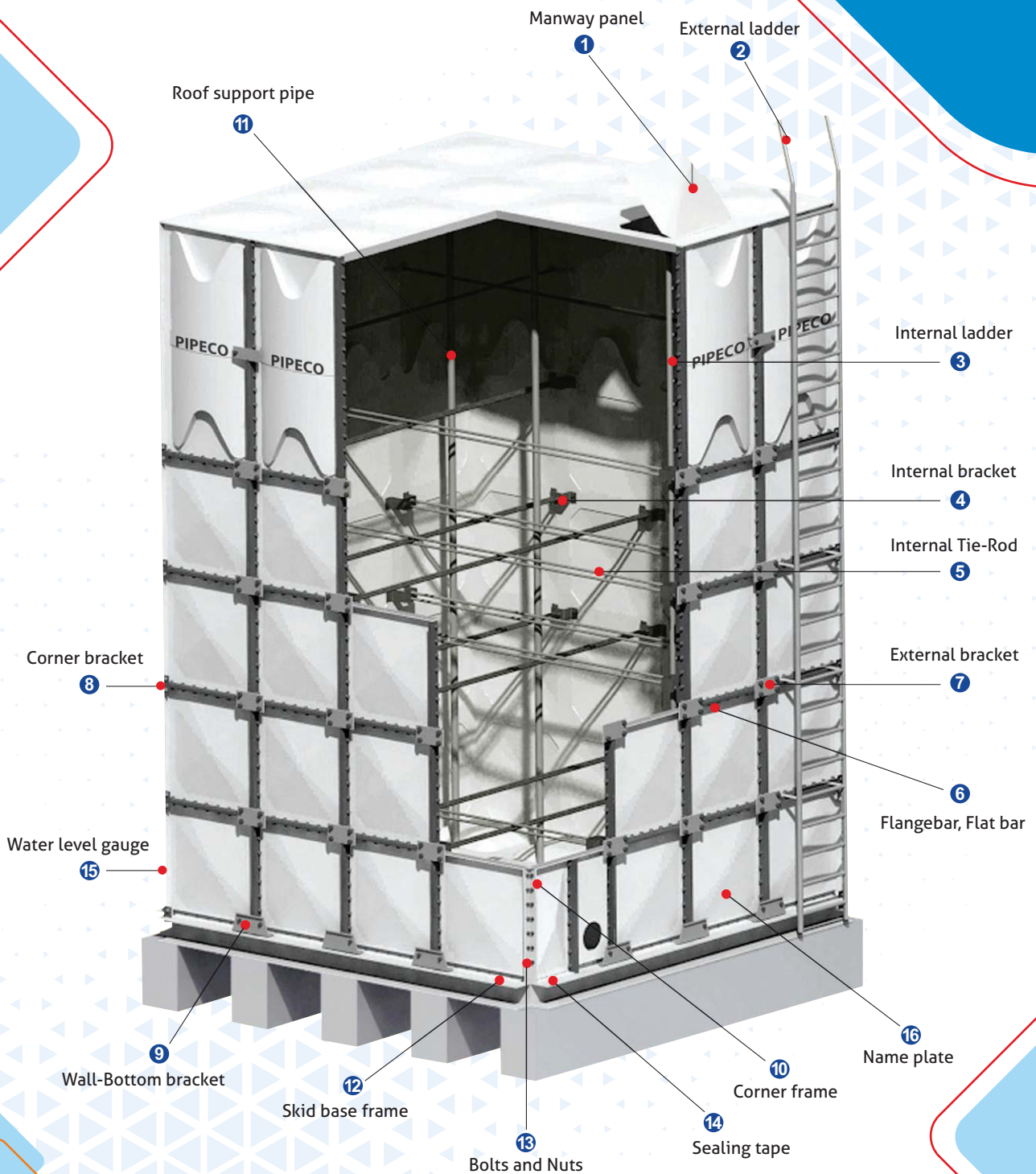
※Current A grade→Unify to SA grade    ※Current IA grade→Unify to IIA grade



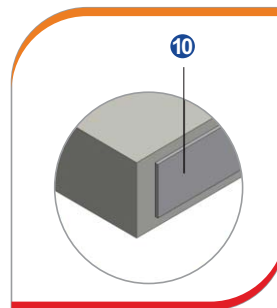
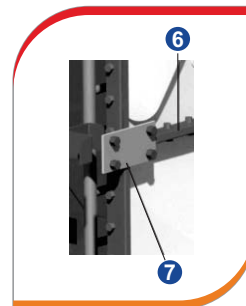
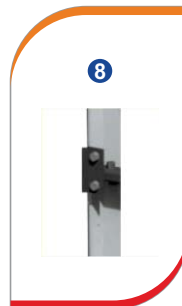
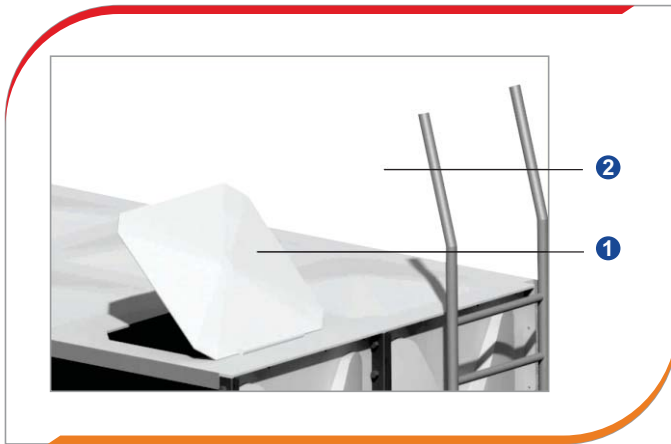


# Internally Reinforced System

It is possible that various capacity design and flexible space should be used by GRP panel standardized Excellent water tightness, hygienic conditions and non-leakage applied internally reinforced stay (Stainless)



# Internally Reinforced System



No.	Name	Material
1	Manway panel	
2	External ladder	SS400(HDG)
3	Internal ladder	
4	Internal bracket	STS 316
5	Internal Tie-Rod	
6	Flangebar, Flat bar	
7	External bracket	
8	Corner bracket	SS400(HDG)
9	Wall-Bottom bracket	
10	Corner frame	

No.	Name	Material
11	Roof support pipe	GRP (Pultrusion)
12	Skid base frame	SS400(HDG)
13	Bolts and Nuts	Internal : STS 316
		Roof : STS 316
		External : STS 316
14	Sealing tape	Skid Base : HDG
		PVC Sealant+Butyl
15	Water level gauge	Aluminum Case+PC Clear Tube+Socket
16	Name plate	Aluminum (Water tank safety management instructions)

# Externally Reinforced System





# Externally Reinforced System



No.	Name	Material
1	Manway panel	GRP
2	External ladder	SS400(HDG)
3	Internal ladder	GRP (Pultrusion)
4	Internal bracket	STS 316
5	Roof bar	SS400(HDG)
6	External main bar	SS400(HDG)
7	External bracket	
8	Corner bracket	
9	Roof support pipe : GRP (Pultrusion)	

No.	Name	Material
10	Base frame	SS400(HDG)
11	Bolts and Nuts	Internal : STS 316
		Roof : STS 316
		External : STS 316
		Skid Base : HDG
12	Sealing tape	PVC Sealant+Butyl
13	Water level gauge	Aluminum Case+PC Clear Tube+Socket
14	Name plate	Aluminum(Water tank safety management instructions)

## Panel physical Properties

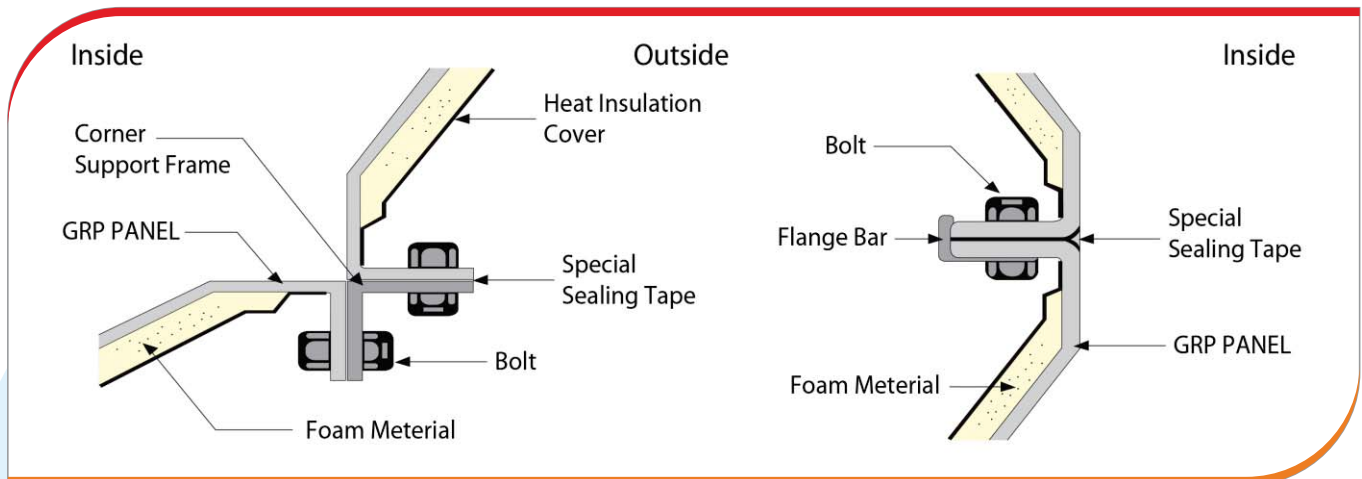
TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Specific Gravity (23°C/23°C)	-	-	1,806	ASTM D792-13(Test Method A)
Water Absorption	%	-	0.02	ASTM D570-98(2010)e1 (24 h Immersion)
Tensile Strength	MPa	-	115	ASTM D638-14(*)
Tensile Elastic Modulus	GPa	-	17.5	ASTM D638-14(*)
Flexural Strength	MPa	-	213	ASTM D790-17(Procedure A)
Flexural Elastic Modulus	GPa	-	15.9	ASTM D790-17(Procedure A)
Shear Strength	MPa	-	114	ASTM D732-17
Izod Impact Strength	J/m	-	923	ASTM D256-10e1(Test Method A)
Compressive Strength	MPa	-	234	ASTM D695-15(**)
Thermal Conductivity [Mean Temperature 20°C	W/(m.k)	-	0.115	KS L 9016 : 2010 (By means of the Heat Flow Meter Apparatus)
Thermal Conductivity [Mean Temperature 20°C	W/(m.k)	-	0.024	KS L 9016 : 2010 (By means of the Heat Flow Meter Apparatus)
Barcol Hardness	-	-	53	ASTM D2583-13a
Glass content	%	-	over 42.9%	ASTM D2584-11

## Stress Analysis of GRP Panel

GRP Water Tank panel is designed with special shape for maximizing safety against stress and deformation, so it has better structural strength than normal circle designed panel. As GRP Water panel is manufactured by oil-hydraulic press under high temperature and high pressure, it maintains top water pressure strength and there is no dimensional deviation by temperature change.

## Excellent Heat Insulation

Drawing of the panel Joint Part / Corner Part



## Composition of Insulation Panel

Excellent insulation of GRP Material itself with Eco-friendly Polyurethane heat insulating material prevents freeze & water condensation.

There is non-woven fabric with excellent adhesion inside GRP insulated panel, ensuring shape stability of panel throughout longer time periods.

GRP insulated panel with 4 layer structure ensure excellent insulating effect

Thickness of insulated panel : 40 - 50 mm

## Strength & Durability

Section	Design Standard
Hydrostatic Pressure	Water pressure reinforcement 6 times standard Transformation rate in filled with water : Less than 1% from water tank height
Wind Force	60 m / sec
Earthquake Force	Stable and safe till magnitude 5.0 (Over magnitude 5.0, it need additional reinforcement)
Snow Load	60 Kg/m <sup>2</sup> , snow fall less than 30cm
Illumination Rate	Less than 0.1%
Out-fit-Force	No leakage under condition of vertical 100kg after install of 100A fitting with 70mm span support
Water Temperature	Usable temperature : Less than 30° / Limited temperature : Max 70°
Water Quality	Tap Water, Well Water : Chlorine below 50mg/L Seawater : application Externally Reinforced water tank (max 3m height)
Man Load	120 KGF

## Comparison with Other Types of Tanks

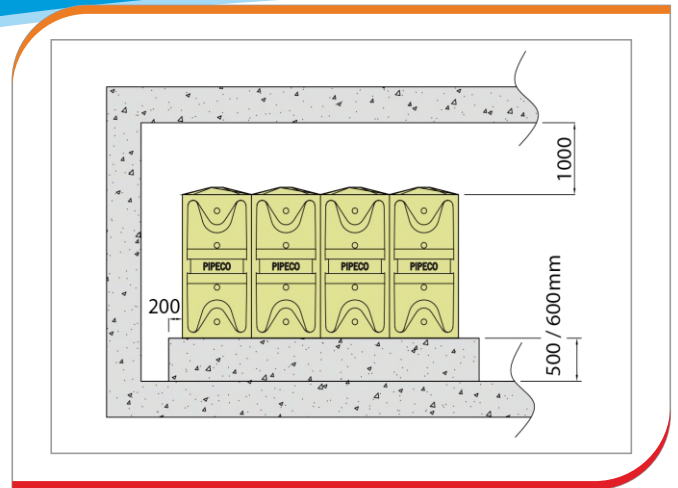
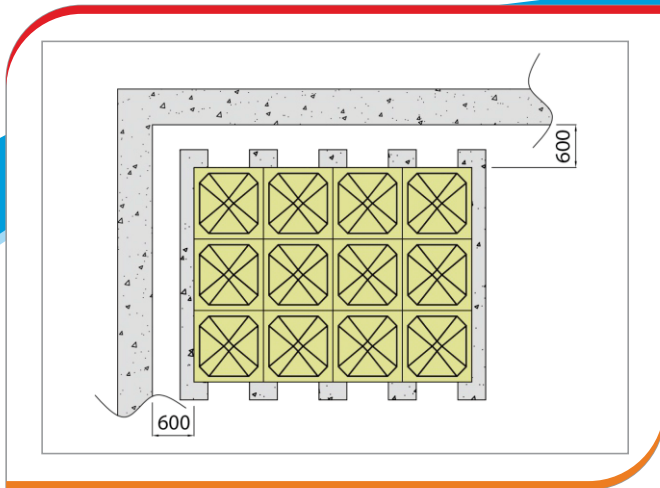
Feature	GRP	CONCRETE	PLASTIC	STEEL
Hygiene & Water Quality	✓ ✓	—	—	✗
Flexibility	✓ ✓	✗	✗	—
Relocation	✓ ✓	✗	✗	—
Water Tightness	✓ ✓	✗	✓	✓
Strength & Durability	✓ ✓	—	✗	—
Easy & Fast Assembly	✓ ✓	✗	—	—
Easy to Transportation	✓ ✓	✗	✗	—
Thermal Conductivity	✓ ✓	✓	✓	✗
Drainage	✓ ✓	—	—	✓
Value of Parameter	Excellent	Good	Average	Poor



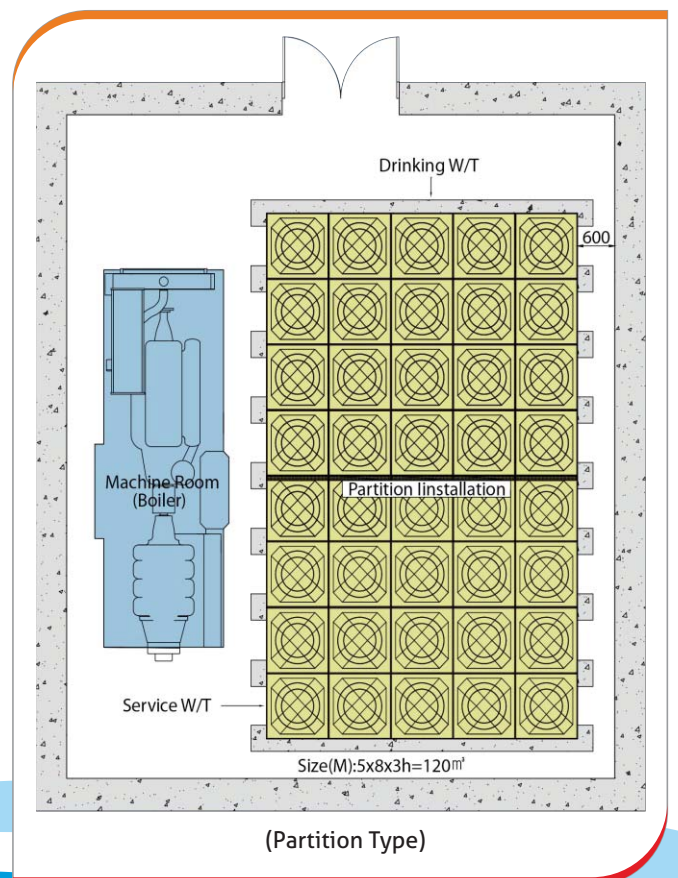
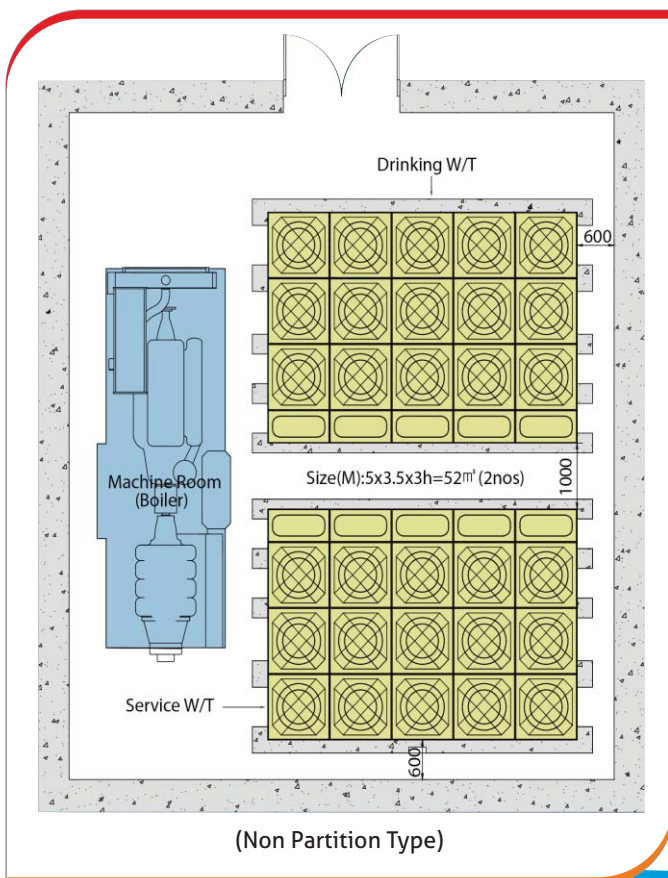
# Installation Space

## Standard of Base Concrete PAD Installation and Space

For maintenance of GRP tank, it need extra space at least 600mm - 100mm from wall and 1000mm from ceiling



# Partition Installation



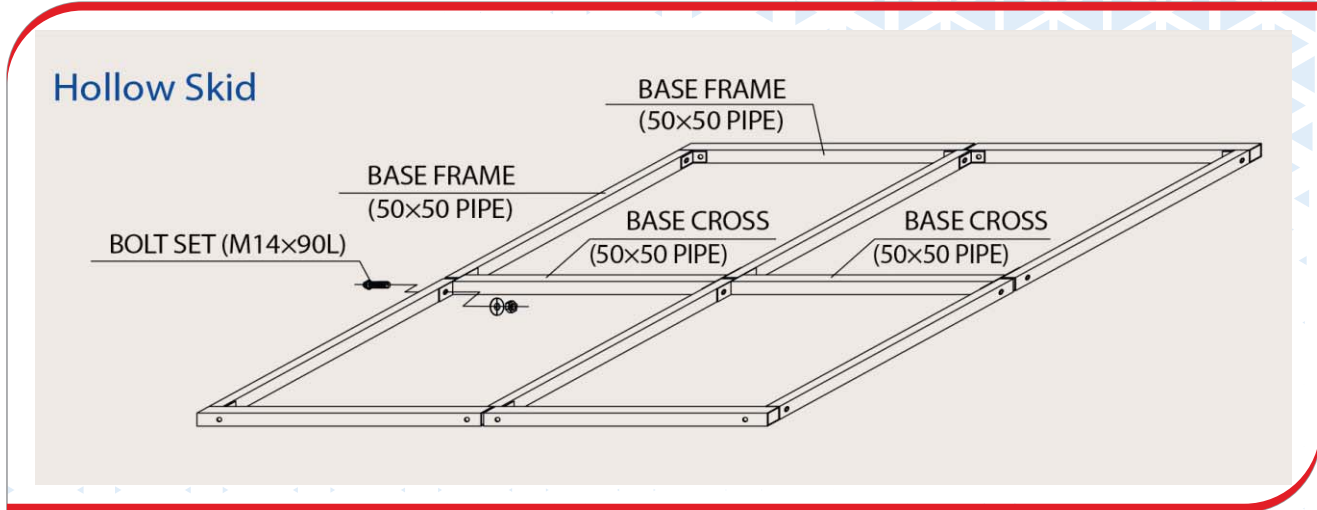


# Earthquake-Proof Skid Base System

Height of water tank 2.5mH

Height of water tank 4m

GRP Sectional Panel, Putting water to 85% of water tank height, Earthquake-Proof Strength 5.0



## Result of skid base strength review (Safety Factor 2.0)

Height	Contents		Bending Stress(kg/cm <sup>2</sup> )	Result	Deflection(cm)	Result
2.5mH	Base frame	Long term	1170 < 1600(Allowable value)	O.K	0.15 < 0.25(Allowable value)	O.K
		Short term	1340 < 2400(Allowable value)	O.K	0.17 < 0.33(Allowable value)	O.K
	Base cross	Long term	1590 < 1600(Allowable value)	O.K	0.21 < 0.25(Allowable value)	O.K
		Short term	1830 < 2400(Allowable value)	O.K	0.25 < 0.33(Allowable value)	O.K
4mH	Base frame	Long term	790 < 1600(Allowable value)	O.K	0.06 < 0.25(Allowable value)	O.K
		Short term	900 < 2400(Allowable value)	O.K	0.27 < 0.33(Allowable value)	O.K
	Base cross	Long term	1540 < 1600(Allowable value)	O.K	0.15 < 0.25(Allowable value)	O.K
		Short term	1750 < 2400(Allowable value)	O.K	0.17 < 0.33(Allowable value)	O.K



## Maintenance Control

### User Regulation Maintenance Items

- 1) Caution the damage to the water tank from outside shock
- 2) Do not use the GRP water tank for other unapproved purpose. (For example chemical storage tank)
- 3) Do not dismantle internal components or change it to other components without official approval.
- 4) Prohibit to install unapproved components or non-consent equipment.
- 5) Keep standard water level at all times. (Uppermost tie rod is soaked in water)

## Installation and Caution

- 1) The water level should be over tie rod position all the time. (Over 85% of tank height)
- 2) Check the flatness of concrete plinth. (Tolerance: 2mm)
- 3) Check water tank panel's crack.
- 4) Check deflection of wall panel. (maximum up to 1% of water tank height)
- 5) Check generally for leaks or drips.
- 6) The interior of the tank should be cleaned two or more times a year: after cleaning, you need to check whether the water quality in the tank is proper or not.
- 7) Organic solvent including thinner, acetone and chlorine bleach cannot be used to clean the exterior or interior of the tank.
- 8) When cleaning once compartment the inside of the tank, keep the water level less than 50% at the other compartment.
- 9) The tank cannot store anything except normal temperature drinking water.
- 10) All internal supports should be checked for corrosion, if corrosion is found it should be rectified immediately.
- 11) Check that all tie rod should be tightened.
- 12) Check that all pipe work connected to tank suitably braced.
- 13) Check that the structural supports under the tank are in good condition.
- 14) Check that overflows are fitted.
- 15) When Cleaning the inside of tank, do not interface with the joint seals.
- 16) If there are ladders fitted to the tanks, ensure that they have not been damaged and are securely fastened to the tank.
- 17) If overflow and / or air inlet screens are fitted, check that they have not become blocked.
- 18) Pipeco Korea will not bear the responsibility for the problems caused by your failure to follow the above mentioned recommendations, inadequate strength or uneven of concrete plinths or natural disasters.



# Certificates of GRP Water Tanks

Getting all international certificates and Test reports for GRP Water tank  
 Realization of customer satisfaction through quality management system  
 GRP Water tank of best quality with competitive price

# GRP Water Tanks Certificates and Test Reports

**WRAS APPROVED MATERIAL**

Approval Number: 175663  
 Test Report: MAB25A

Water Regulations Advisory Scheme Ltd. (WRAS)  
 10th Fl.  
 Willow Road,  
 Potters Bar Industrial Estate,  
 Chesham,  
 Bucks,  
 MK35 9EF

27th January 2019

Plastic Korea  
 875, Gomsu-ro, Jilje-Myeon,  
 Gimhae-si,  
 Gyeongsangnam-do,  
 Republic of Korea

**WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS) REGULAR APPROVAL**

The material referred to in this letter is suitable for contact with effluents water for domestic purposes having met the requirements of BS6800:1-2000 and/or 2014 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.

The reference relates solely to the effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

**GLASS REINFORCED PLASTICS (GRP) - COMPONENTS** 8120

\*Plastic Korea Tank Panel\* Range coloured, compression moulded GRP tank panel. For use with water up to 55°C.

APPROVAL NUMBER: 175663  
 APPROVAL HOLDER: PIPECO KOREA

The Scheme reserves the right to review approval.  
 Approval 175663 is valid between May 2017 and May 2022

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, 'Materials which have passed full tests of effect on water quality'.

The Director may be found at: [www.wrass.co.uk/8120/2019](http://www.wrass.co.uk/8120/2019)

Yours faithfully,  
  
 Jason Purfield  
 Approval & Enquiries Manager  
 Water Regulations Advisory Scheme

The Water Regulations Advisory Scheme Ltd. Registered in England. 1800101 Registered office: 10 Leazes Road, Leeds, West Yorkshire LS2 9JZ  
 Tel: 0113 275 1700 Fax: 0113 275 1701 Email: [enquiries@wrass.co.uk](mailto:enquiries@wrass.co.uk) Website: [www.wrass.co.uk](http://www.wrass.co.uk)

No. Lesen: PC09441  
 Licence No.:

**LESEN PENSIJILAN BARANGAN**  
 Product Certification Licence

**SIRIMU QASS**

SIRIM QAS International Sdn. Bhd. dengan ini mengemukakan kepada SIRIM QAS International Sdn. Bhd. henny grants to:

**PIPECO KOREA CO. LTD**  
 167, Ije-ro, Gimhae-si  
 Gyeongsangnam-do  
 (50675), Korea

Lesen untuk menggunakan Tanda Penjualan di atas barangan a piece to use the Certified Mark on **FIBREGLASS REINFORCED POLYESTER (FRP) SECTIONAL WATER TANKS**

Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan as complying with **BS EN 12082: 2001**

Mohd Azwan bin Salleh  
 Ketua Pegawai Eksekutif  
 Chief Executive Officer  
 SIRIM QAS International Sdn. Bhd.

31 June 2019  
 Issue Date: 21 June 2019  
 Valid Until: 27 June 2023  
 Renewal Fee: RM 5000  
 Fee: RM 20000  
 Fee: RM 20000

Tukuk Diiktirafkan: 23 July 2019  
 Issue Date: 21 June 2019  
 Valid Until: 27 June 2023  
 Renewal Fee: RM 5000  
 Fee: RM 20000  
 Fee: RM 20000

This licence is a general subject to the provision of the Product Certification Agreement of SIRIM QAS International Sdn. Bhd.

**Dubai Central Laboratory**  
 Construction Materials Laboratory Section - Structural Unit  
**TEST REPORT**  
 THERMAL TRANSMISSION PROPERTIES BY HOTPLATE APPARATUS

Report No.: 1804047  
 Project No.: 1916-1081  
 Contract: SIA  
 Contractor: PIPECO TANKS TRADING  
 Location: WAREHOUSE ADAM (PIPECO TANKS - KOREA)  
 Source: PIPECO TANKS - KOREA  
 Sample Description: GLASS FIBER REINFORCEMENT  
 Sampling Date/Time: 15/07/2019 01:00 PM  
 Receiving Date/Time: 23/07/2019 08:00 AM  
 Material/Type: GRP Sheet Polyethylene foam & GRP  
 Nonmetal Size / Working Size (L \* T) (mm): 300x200x4

Report Date: 09/08/2019  
 Report No.: 09/08/2019  
 Lot Number: Nil  
 Lot Size: 1 x 1  
 Sample No.: 019  
 Landing Date/Production Date: Nil

PARAMETERS	RESULTS
SAMPLE TYPE	PIPECO GRP Tank
SUPPORT / FINISH	Nil
NOVA THICKNESS (mm)	40
NOVA DENSITY (g/cm³)	Nil
APPARATUS	TANBUR HOTPLATE APPARATUS (FLP-850-L)
SIZE OF PLATE (mm)	200
SHAPE OF PLATE	SQUARE
CONSTRUCTION OF PLATE	HOMOGENEOUS
SINGLE OR DOUBLE SIDE OPERATION	SINGLE
SECONDARY GUARDING DETAILS	Nil
FULL GAS PRESSURE (Pa)	Nil
TYPE OF MATERIAL USED FOR CALCULATION	CERTIFIED REFERENCE MATERIAL 19888-443
DATE OF CERTIFICATION	MARCH - 2019
SOURCE OF CERTIFICATION	INSTITUTE OF REFERENCE MATERIALS AND MANAGEMENTS
SPECIMEN SIZE OF Hot-plate	Hot-plate
TEMPERATURE (°C)	30 deg CA 60% 45 to
TIME REQUIRED FOR STEADY TEMPERATURE	10 to
TIME TO REACH STEADY STATE	08:36:20
DATA ACQUISITION TIME PERIOD	1 to 6
FREQUENCY OF DATA COLLECTION	1 to 6
END DATE & TIME	01-AUG-2019 00:00:00

This Report is computer generated and authorized by Structural Unit. It does not require any signature.

Doc Ref: F82702  
 Issue Date: 09/08/2019  
 P.O. BOX 477284, TEL: (02) 4-336600, FAX: (02) 4-336608  
 E-mail: [info@dcpl.gov.ae](mailto:info@dcpl.gov.ae) Website: <http://www.dcl.gov.ae>

Page: 1 of 2

**VERITAS ASSURANCE**

**CERTIFICATE OF REGISTRATION**

This is to certify that the management system of **Pipeco Korea**  
 875, Gomsu-ro, Jilje-Myeon, Gimhae-si, Gyeongsangnam-do, Korea,  
 has been assessed and registered by Veritas Assurance International as conforming to the requirements of **ISO 9001:2015 Quality Management System**

The Quality Management System is applicable to **Manufacture and Service of GRP Water Tank, Steel Reinforced Materials, Sales of Water Tank Panel and Steel Reinforced Materials.**

Certificate No.: 5031840  
 Certificate issue date: 20-02-2019 | Valid Up To: 19-02-2023  
 Upon successful completion of next continuous surveillance the certificate will be renewed with an extended validity to a full three year cycle from the original issue date.

Authorized Signatory  
  
 Veritas Assurance International

Accred Services International Board (Europe) Limited  
 King's Place, 140 Chiswick Road, London, United Kingdom

VERITAS ASSURANCE INTERNATIONAL

**VERITAS ASSURANCE**

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 875, Gomsu-ro, Jilje-Myeon, Gimhae-si, Gyeongsangnam-do, Korea,  
 has been assessed and registered by Veritas Assurance International as conforming to the requirements of **ISO 14001:2015 Environmental Management System**

The Environmental Management System is applicable to **Manufacture and Service of GRP Water Tank, Steel Reinforced Materials, Sales of Water Tank Panel and Steel Reinforced Materials.**

Certificate No.: 5031841  
 Certificate issue date: 20-02-2019 | Valid Up To: 19-02-2023  
 Upon successful completion of next continuous surveillance the certificate will be renewed with an extended validity to a full three year cycle from the original issue date.

Authorized Signatory  
  
 Veritas Assurance International

Accred Services International Board (Europe) Limited  
 King's Place, 140 Chiswick Road, London, United Kingdom

VERITAS ASSURANCE INTERNATIONAL

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**CERTIFICATE OF REGISTRATION**

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 has been assessed and registered by Veritas Assurance International as conforming to the requirements of **OHSAS 18001:2007 Occupational Health & Safety Management System**

The Occupational Health & Safety Management System is applicable to **Manufacture and Service of GRP Water Tank, Steel Reinforced Materials, Sales of Water Tank Panel and Steel Reinforced Materials.**

Certificate No.: 5031842  
 Certificate issue date: 20-02-2019 | Valid Up To: 19-02-2023  
 Upon successful completion of next continuous surveillance and upon successful re-audit to ISO 45001:2018 the certificate will be renewed with extended validity to a full three year cycle from the original issue date.

Authorized Signatory  
  
 Veritas Assurance International

Accred Services International Board (Europe) Limited  
 King's Place, 140 Chiswick Road, London, United Kingdom

VERITAS ASSURANCE INTERNATIONAL



## PIPECO TANKS KOREA

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Fax: +971 6745 9877

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[www.pipecogroup.com](http://www.pipecogroup.com)  
[sales@pipecotanks.com](mailto:sales@pipecotanks.com)  
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