WE CONTAIN YOUR WATER

DOORI. CO., LTD.
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TEL : +82-53-761-1554 / FAX : +82-54-335-1554
WEBSITE : www.dooritank.co.kr
EMAIL : drmrjin5523@dooritank.co.kr

DOORI

www.dooritank.co.kr



DOORI

GRP SECTIONAL WATER TANK



WHO WE ARE

DOORI, founded in 1998 in South Korea and incorporated in 2005, is a global supplier of water storage tanks.

We offer a range of water tanks in various sizes and types, including GRP/FRP and STS panels. Our core product is the GRP/FRP sectional water tank. Utilizing precise techniques and experienced skills, we deliver durable and hygienic water tanks for fresh water storage.

DOORI manufactures water tanks that adhere to global standards and are validated by certifications. We continually innovate with eco-friendly research and development to remain industry leaders.

Our commitment is to satisfy our customers by providing high quality products, flawless installation, and customer-centric service.

Thank you.

CERTIFICATES & PATENTS

INTELLECTUAL PROPERTY RIGHTS (2024)

PATENT	TOTAL 15
UTILITY MODEL REGISTRATION	TOTAL 3
DESIGN REGISTRATION	TOTAL 15



HISTORY

2024	02	Awarded 'Gyeongbuk Governor's award'
	02	Awarded 'Public Procurement Service Commissioner's award'
2023	11	Participated 44th Dubai International Construction Material Show (BIG 5 Dubai)
	08	Participated THAIWATER exhibition
2022	10	Certified 'ISO 45001 Safety, Hygiene, and Management System'
	06	Selected 'Main-Biz' (Management Innovation) (KR)
2021	03	Selected 'Excellent Products by Group Standard' (KR)
	01	Selected 'Family Friendly Corporations' (KR)
2020	12	Registered as Samsung C&T Cooperator
	06	Certified 'Group Standard Renewal' (KR)
	04	Opened Branch office in Seoul/Incheon
2019	12	Selected 'GyeongBuk PRIDE Enterprise' (KR)
	12	Awarded 'Best Venture Company' (KR)
	11	Certified 'Q-MARK' (KR)
	09	Selected 'Leading Company in Water Industry' (KR)
	07	Selected ''Promising Small Giant Business of Export' (KR)
	07	Selected 'Inno-Biz' (Technical Innovation) (KR)
	06	Selected 'Promising Company for Overseas Procurement market (G-PASS)' (KR)
	05	Certified 'STS, PDF Water Tank In-house Production' (KR)
	05	Certified 'High value-added Conversion and Development Support Project' (KR)
	04	Selected 'Small Hidden Champion' (KR)
	03	Participated HVACR VIETNAM 2019
	01	Selected 'Promising Small Business' (KR)
	01	Achieved Export $200 million in 2018
2018	11	Participated 39th Dubai International Construction Material Show (BIG 5 Dubai)
	06	Registered First Patent
	04	Selected 'Technology Specialized Enterprise' (KR)
2017	11	Participated 38th Dubai International Construction Material Show (BIG 5 Dubai)
	09	Certified 'SMC Water Tank Group Standard' (KR)
	06	Started GRP Water Tank Panel In-house Production
	04	Established Factory 2
	01	Certified 'ISO 14001 Environment Management System'
2016	11	Participated 37th Dubai International Construction Material Show (BIG 5 Dubai)
	10	Started Overseas Export
2015	12	Certified 'WRAS' (UK)
	10	Enrolled 'Korea International Trade Association'
	07	Selected 'Venture Enterprise' (KR)
	06	Certified 'Korea Sanitation and Safety (KC)' (KR)
2014	11	Established Corporate-affiliated Technical Laboratory
	10	Headquarter & Factory Expansion
	03	Certified 'ISO 9001 Quality Management System'
	02	Selected 'Management Innovated Small Business' (KR)
2012	07	Headquarter relocation
2007	05	Registered as Lotte Construction Cooperator
2005	09	Incorporation Transition
1998	04	DOORI established

FACTORY

FACTORY1



STEEL ACCESSORIES PRODUCTION + HEAD OFFICE
3,300sqm



STEEL ACCESSORIES WAREHOUSE



STEEL MATERIALS FABRICATION

FACTORY2



GRP PANEL PRODUCTION
3,629sqm



PRESS LIINE WITH AUTO-FEEDING MACHINE



AUTO-SLOTTING MACHINE



INSULATION ROOM

WHY GRP WATER TANK ?



- CLEAN AND SAFE
- USABLE SPACE MAXIMIZED
- STRONG AND DURABLE
- LIGHTER THAN STEEL TANK
- HIGH WATER TIGHTNESS
- CORROSION RESISTANT
- EASY INSTALLATION
- 0% LIGHT TRANSMISSION (PREVENT ALGAE)
- REASONABLE PRICE
- COST SAVING MAINTENANCE

WHY DOOORI ?

20 YEARS COMPANY HISTORY

ACCUMULATED KNOW-HOW FROM EXPERIENCES OF 20YEARS

ONE-STOP SYSTEM

FAST RESPONSE FROM TANK DESIGN TO PRODUCT FINISHING

STREAMLINED WORKFLOW

AUTO-ROBOT SYSTEM OPERATION TO ALL PANEL PRODUCTION

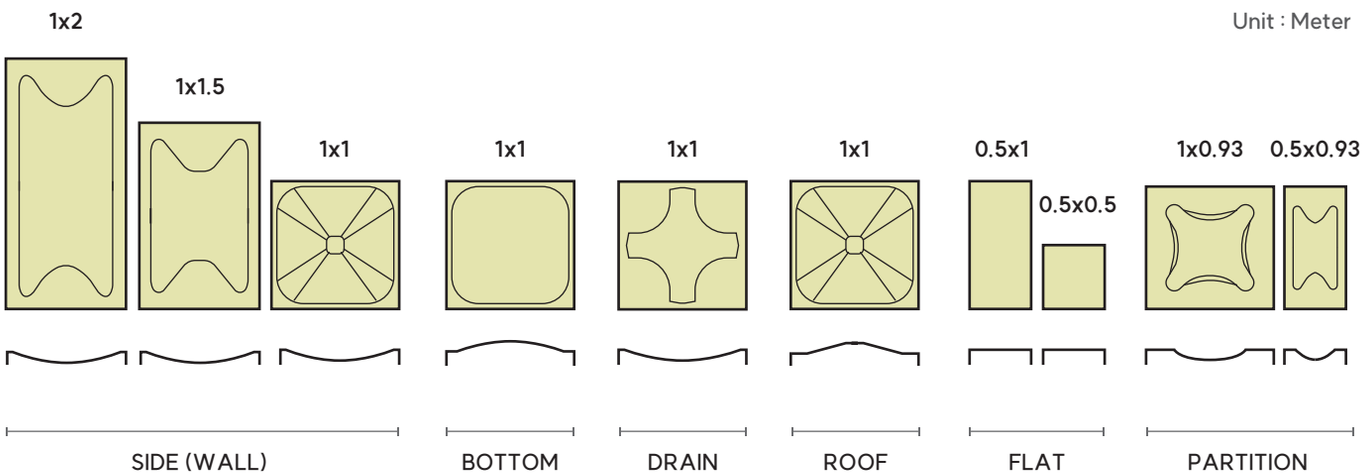
TECHNICAL LABORATORY

CONTINUOUS PRODUCT DEVELOPMENT BY DEDICATED TECHNICIANS
STRUCTURAL ANALYSIS THROUGH FEM 3D SIMULATION
HYDROSTATIC PRESSURE TEST

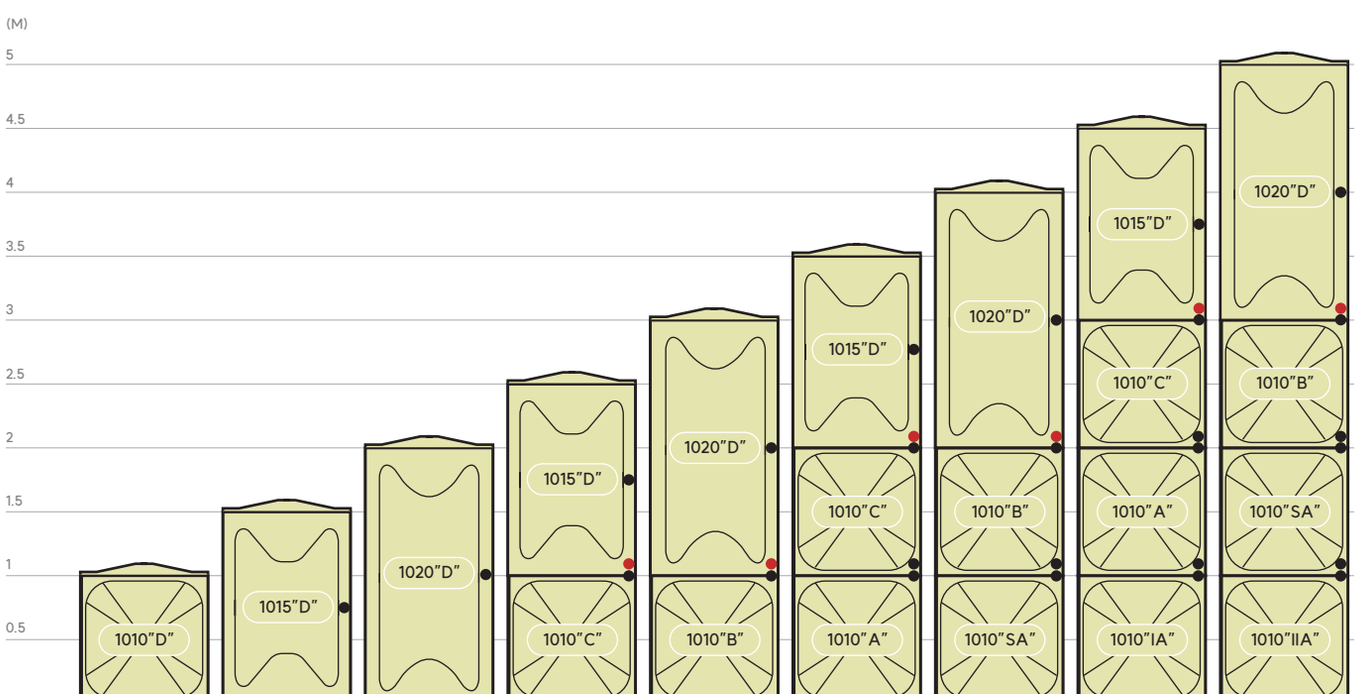
GENERAL TANK SPECIFICATIONS

PANEL	**Material**	Unsaturated PE resin + glassfiber + agents
	Color	Ivory (Light beige)
	Insulation type	Non-insulated / 25mm-insulated / 40mm-insulated
	Insulation material	Poly Urethane Foam
	Insulation cover	PE, ABS
	Manhole	Non-insulated, Lockable door
	Size & Shape	Refer to the next page
STEEL SKID BASE	**Material**	HDG
	Type	75 Angle (for 1.0~2.5mH tank)
		125 Channel (for 3.0~4.5mH tank)
		150 Channel (for 4.5~5.0mH tank, by request)
REINFORCEMENT	**Type**	Basic (for 1mH tank, outside Angle bar only)
		Internal (Tie-rod layers tank inside)
		External (Steel frames tank outside + Roof pole lines)
		Combined (Tie-rod layers tank inside + Square pipes tank outside + Roof pole lines)
INTERNAL ACCESSORIES	**Steel parts**	Angle bar, Flat bar, Brackets, Tie-rod, Bolt set (STS304 / STS316)
	Other parts	Ladder (GRP / STS304 / STS316)
		Roof support (GRP)
EXTERNAL ACCESSORIES	**Steel parts**	Angle bar, Flat bar, Brackets (HDG), Bolt set (HDG / STS304 / STS316)
	Other parts	Ladder (HDG / STS304 / STS316)
OTHER ACCESSORIES	Air vent (50A / 100A ABS with mesh insect guard)	
	Sealing tape : PVC / EPDM	
	Silicone	
	Level Indicator (Aluminum + Urethane hose)	
	Steel Base Frame (HDG) : Normal type / Height adjustable type	
	Hoop guard and Handrail (HDG / STS304 / STS316)	
	Socket (Brass)	
	Flange (ABS / FRP)	

PANEL SIZE



WALL PANEL COMPOSITION BY HEIGHT



Height	1H	1.5H	2H	2.5H	3H	3.5H	4H	4.5H	5H
Bottom	D	D	D	C	B	A	SA	IA	IIA
Drain	C	C	C	B	A	SA	IA	IIA	IIIA

- Panel composition can vary by the sites and buyer's requests.
- Each panel grade has specific thickness to endure the hydrostatic water pressure.
- For Internal reinforcement system, tie-rods can be added on marked ● by buyer's request.

PANELS



MANHOLE1010



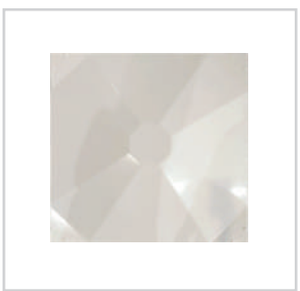
WALL1010



BOTTOM1010



DRAIN1010



ROOF1010



WALL1015/1020



PARTITION1093



PARTITION0593



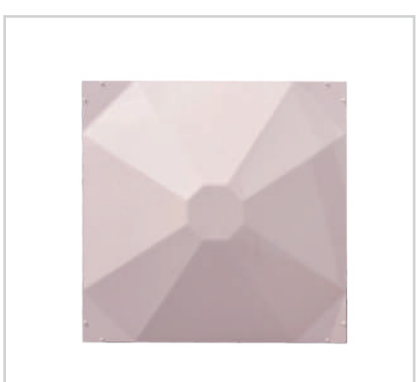
FLAT 0505/0510/1010



NON-INSULATED OUTSIDE
(NO COVER)



INSULATION OUTSIDE
(PE/ABS COVER)



ANTI-BACTERIAL
(COLOR : LIGHT PINK)

PANEL PHYSICAL PROPERTIES

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Tensile Strength	Mpa	-	101	KS F 4811 : 2019
Flexural Strength	Mpa	-	179	KS F 4811 : 2019
Flexural Modulus of Elasticity	Mpa	-	14 269	KS F 4811 : 2019
Glass Fiber Content	%	-	31	KS F 4811 : 2019
Barcol Hardness	-	-	61	KS F 4811 : 2019
Water Absorption	%	-	0.1	KS F 4811 : 2019
Light Transmission	%	-	0	KS F 4811 : 2019
Thermal Conductivity	W/(m·K)	-	0.021	KS L 9016 : 2010
Flammability	mm/min	-	10	UL 94 : 2023
Hydrostatic Pressure	-	-	No defects	SPS-KPS M 3001-0839 : 2019

· Test Results can be different by yearly updates.

PANEL CHEMICAL EXTRACTION


TEST REPORT
Korea Testing & Research Institute
President


TEST REPORT
Korea Testing & Research Institute
President


TEST REPORT
Korea Testing & Research Institute
President


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Korea Testing & Research Institute
President


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President


TEST REPORT
Korea Testing & Research Institute
President

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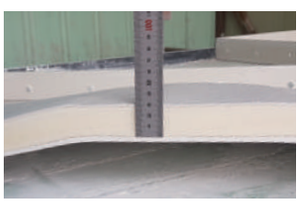
PANEL OPTIONS

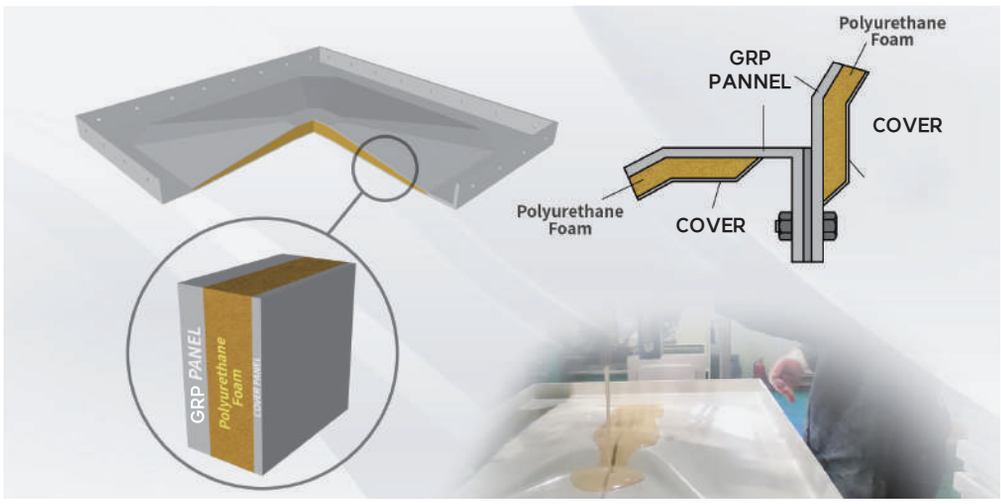
INSULATED PANEL


TEST REPORT

Korea Testing & Research Institute

President





- Insulation Material : Polyurethane Foam
- Insulation center thickness is 25mm/40mm.
- Insulation thickness becomes thinner from center to side.

ANTI-BACTERIAL PANEL





Non-processed specimen (After 24 hours, E. coli)



Anti-bacterial processed specimen (After 24 hours, E. coli)


TEST REPORT

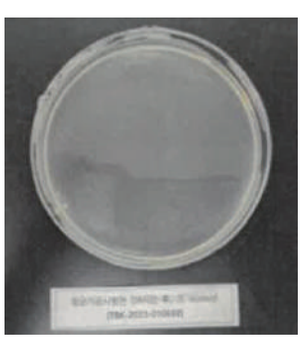
Korea Testing & Research Institute

President





Non-processed specimen (After 24 hours, S aureus



Anti-bacterial processed specimen (After 24 hours, S aureus)


TEST REPORT

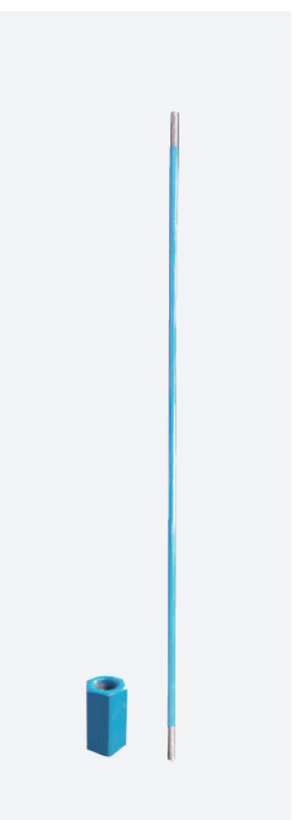
Korea Testing & Research Institute

President

INTERNAL REINFORCEMENT

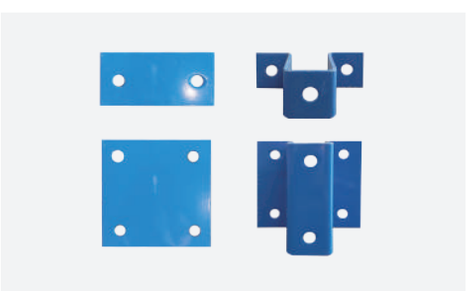








External brackets



Internal brackets

Tie-rod & Connector



External angle bar & flat bar



Internal angle bar & flat bar

EXTERNAL REINFORCEMENT

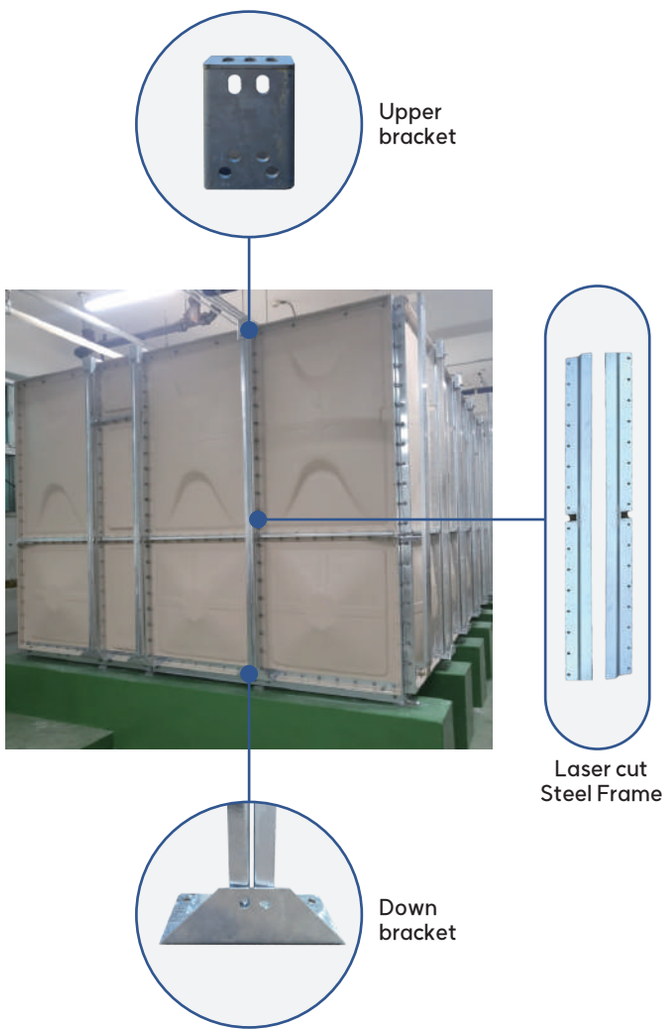




Steel poles on roof

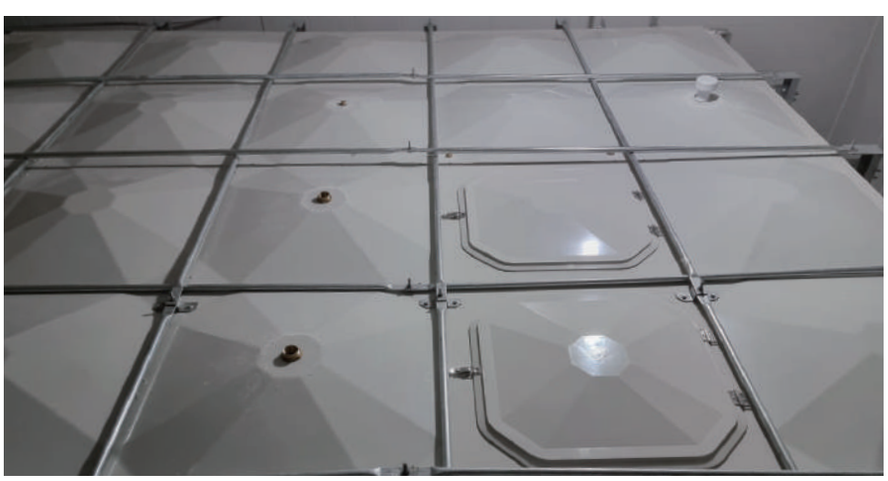


Tank inside (No Tie-rods)



COMBINED REINFORCEMENT





Steel poles on roof





External brackets





External square pipes



Internal tie-rods

INSTALLATION SITE











OVERSEAS INSTALLATION SITES

BAHRAIN, JORDAN, KUWAIT, OMAN, QATAR, UAE, INDONESIA, SRILANKA, THAILAND, VIETNAM, CHINA, INDIA,CROATIA, SERBIA, USA, ETC.





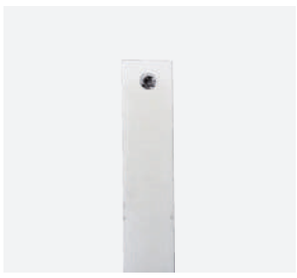


OTHER ACCESSORIES



INTERNAL / EXTERNAL LADDERS





ROOF SUPPORT



LEVEL INDICATOR



AIR VENT

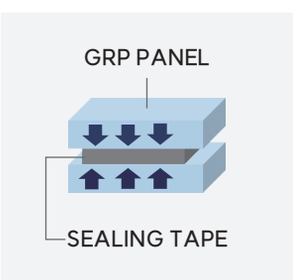


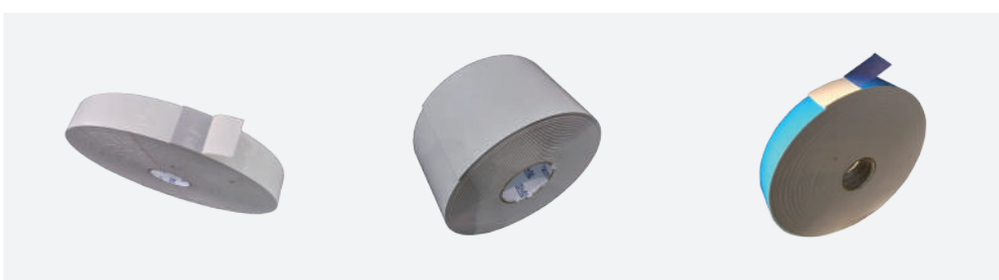
CORNER FRAME BRACKET



CORNER FRAME

ITEM	MATERIAL	SIZE
INTERNAL LADDER	GRP/STS304/STS316	1.5mH~5.0mH
EXTERNAL LADDER	HDG/STS304/STS316	1.0mH~5.0mH
ROOF SUPPORT	GRP	1.0mH~5.0mH
LEVEL INDICATOR	Aluminum+Urethane Hose	1.0mH~5.0mH
AIR VENT	ABS+Mesh insect guard	50A, 100A
CORNER FRAME	HDG	1.0/1.5/2.0mH





SEALING TAPE

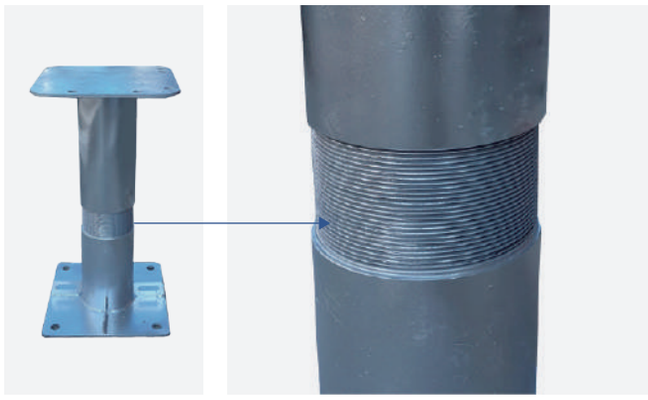
ITEM	MATERIAL	COLOR	SIZE	UNIT	POSITION
SEALING TAPE	PVC	Gray	50mmW x 30m	Roll	Wall&Bottom panel, Brackets
		Gray	120mmW x 30m	Meter	Corner frame
		Black	30mmW x 30m	Roll	Roof panel (optional)
	EPDM	White	53mmW x 30m	Roll	Wall&Bottom panel, Brackets
		White	130mmW x 30m	Meter	Corner frame

OPTIONS

STEEL BASE FRAME



GENERAL STEEL BASE FRAME
(300/400/500 mm)



HEIGHT-ADJUSTABLE STEEL BASE FRAME
(530mm ± 40mm / or customizing)

HANDRAIL & HOOP GUARD



FITTING



HANDRAIL SIZE	MATERIAL
1m on each side from manhole panel or Whole side of tank	HDG
	STS304
	STS316

SOCKET SIZE	MATERIAL
15A, 20A, 25A, 32A, 40A, 50A	BRASS

HOOP GUARD SIZE	MATERIAL
Tank height 2~5mH	HDG
	STS304
	STS316

FLANGE SIZE	MATERIAL
65A, 80A, 100A, 125A, 150A, 200A	ABS
250A, 300A, 350A, 400A, 450A, 500A	FRP (customizing)

PRODUCTION PROCESS

STEEL ACCESSORIES



Cutting



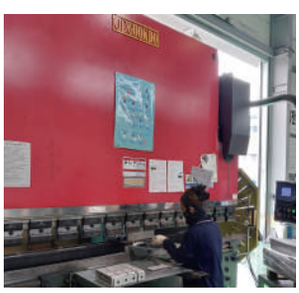
Drilling



Shearing



Punching



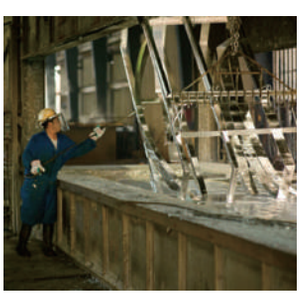
Bending



Pressing



Welding

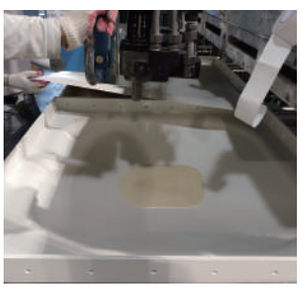


Galvanizing (outsourcing)

GRP PANEL



Pressing



Insulation (Option)



Slotting



Hydrostatic Presure Test

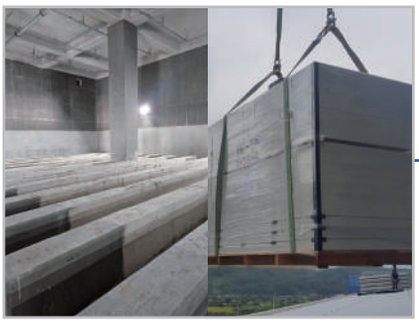






Packing, Loading & Shipping

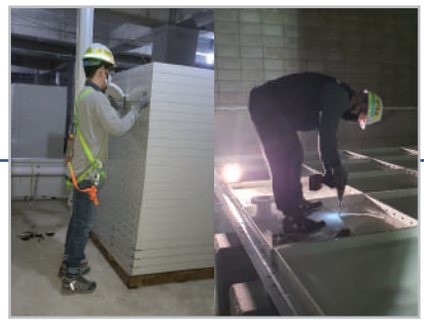
INSTALLATION PROCESS



Site Check
& Matrials Take In



Install
Skid Steel Base



Attach Nozzles
& Sealing Tape



Corner Frame
Assembly



Side Panel
Assembly



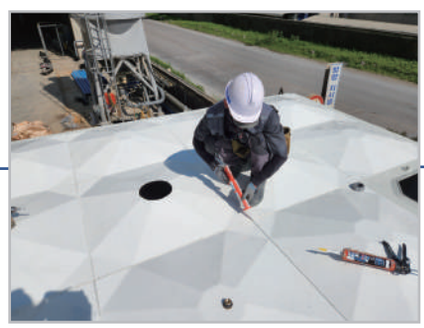
Bottom Panel
Assembly



Roof Panel
Assembly



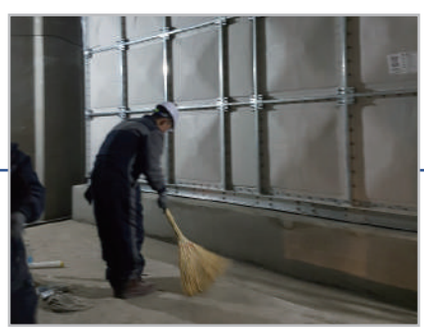
Roof Support, Tie-rod,
Internal Ladder Assembly



Roof Panel
Sealant Finishing



Finish, Tank Check



Cleaning



External Ladder
Assembly

· Installation process may differ depending on site conditions.