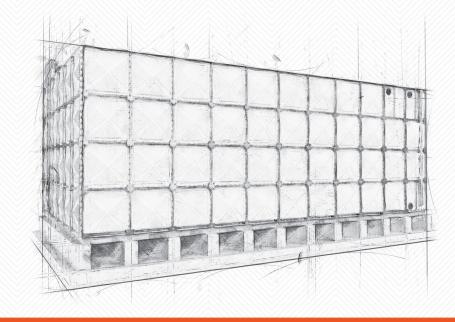


# AQUATANK





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SINCE 1968

GRP HOT PRESSED SECTIONAL WATER TANK





#### GRP "HOT PRESSED" SECTIONAL WATER TANK

Aqua Tank panels are manufactured using State of the Art SMC Hot Press Molding Process, combining UK technology and German machinery under pressure reaching up to 1500 tons and at a temperature of 150 °C. The panel shapes are designed using Finite Element Analysis to allow optimization and ensure the required panel and tank safety factor reached sixth time.

Aqua Tank have excellent corrosion-resistant panels, the surface of the tank is uniformly smooth without any moss growth, therefore enables long-term use as the panels inhibit the proliferation of bacteria and other various germs by perfectly blocking all light from outside

Aquatank utilizes horizontal and vertical space at the maximum and those are suitable for tanks of large capacities. It operates a corner-type system.



Project Reference "AQUATANK"









## Panel Physical Properties of Aquatank

MATERIAL SPECIFICATION					
S.NO	PHYSICAL CHARACTERISTICS	VALUES	STANDARD		
01	Specific Gravity	1.8 kg/m <sup>2</sup>	ASTM D 792		
02	Tensile Strength (Longitudinal Transversal)	110 MPa	ASTM D 638; BS 2782 ASTM D 3481		
03	Glass Content	31.5% ± 2%	ASTM D 2344; BS 2782		
04	Flexural Strength	180 – 230 MPa	ASTM D 790; BS 2782 ASTM D 3481; BS 5734		
05	Young's Modules	13 GPa			
06	Impact Strength	80 Kgf·cm/cm2 (No Cracking)	ASTM D 256; BS 2782; BS 5734		
07	Compressive Strength	300 MPa	ASTM D 695		
08	Shear Strength	Min 80 Mpa	ASTM D 2344; BS 278		
09	Barcol Hardness	Min 50	ASTM D 2583; BS 278		
10	Water Absorption	Max 0.06%	ASTM D 570; BS 7491		
11	Light Transmission	0%			
12	Thermal Expansion	1.66 x 10-5 /°C			
13	Bending Strength	190-200Mpa			
14	Cavity	Max 2%			
15	Ultra Violet Rays	UV Stabilize			
16	Toxicity	Nil	BS 6920		
17	Micro Biological Growth	Nil	BS6920		
18	PH Value of Water to be stored	6.5 to 8			
19	Opacity	0%			
20	Flame Spread (FSI)	60			
21	Smoke Development (SD)	40			
22	Fire Rating Class				
23	Thermal Conductivity	Standard Panel	0.15 w/m <sup>2</sup> K		
		Insulated Panel	0.02 w/m <sup>2</sup> K		
24	Coefficient of Overall Thermal Transmission	Standard Panel	14 w/m² K		
		Insulated Panel	1 w/m <sup>2</sup> K		





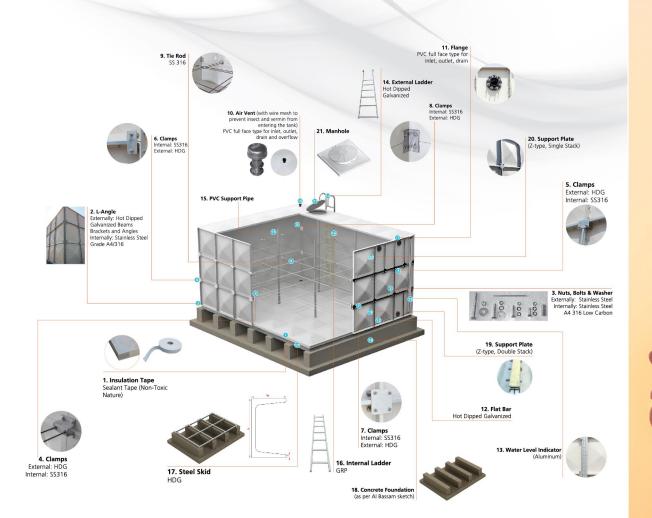
UNIQUE CHARACTERISTICS OF AL BASSAM GRP HOT PRESSED SECTIONAL WATER TANK

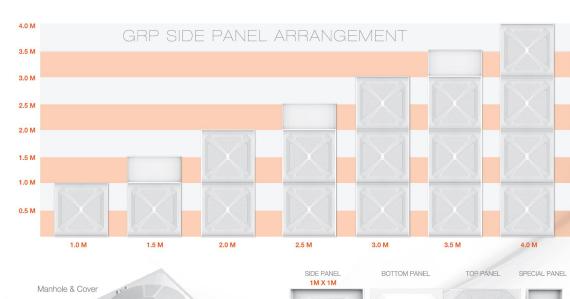




## "AQUATANK"

Item	Advantage	
The safety factor for steel base	HDG Coated steel base for Al Bassam panel Tanks	
Earthquake resistant design for steel base	The design of steel base of Al Bassam is lower (height and wider (width) than general one, so there is more stability and strength against earthquake	
Tie Rod SS 316	Preventing corrosion ad rusting issues	
Stainless steel for internal materials SS 316	Preventing corrosion and rusting issues with stainless steel on the internal SS materials	
SS 316 Nut,Bolt and Washer for internal	Using SS 316 Nut,Bolt and Washer for internal, solve rusting issue	
GRP Roof and structure support	uPVC pipes for roof support, tie rods holds structure of the tank	
Name plate of water tank	It is easy to check the safety management rules with name plate on the water tank	
Reinforcement	External (all HDG), Internal (SS 316)	



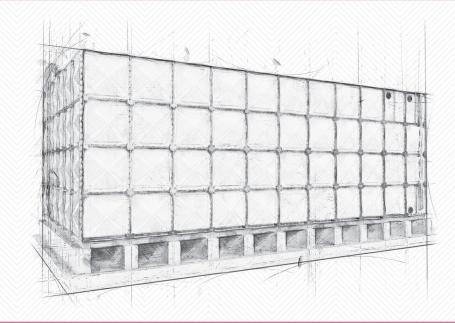






## AQUASYSTEM





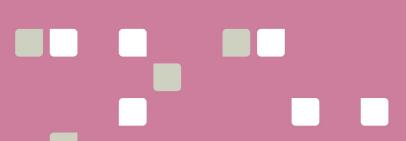
SINCE 1968

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## GRP "HOT PRESSED" SECTIONAL WATER TANK

Aqua System panels are manufactured using State of the Art SMC Hot Press Molding Process combining UK technology and German machinery under pressure reaching up to 1500 tons and at a temperature of 150 °C. The panel shapes are deisgned using Finite Element Analysis to allow optimization and ensure the required panel and tank safety factor reached sixth time.

Aqua System GRP Water Tank is suitable for large-sized reservoirs as its structure utilizes horizontal and vertical spaces at the maximum through the use of diverse size of panels

Aqua System GRP water Tank has adopted panels that completely block the direct sunlight to avoid the growth of algae and other micro-organisms. And by assembling tanks with anti-rust accessories, it can keep water clean.



### Panel Physical Properties of Aquasystem

	MAIE	RIAL SPECIFICATION	ION	
S.NO	PHYSICAL CHARACTERISTICS	VALUES	STANDARD	
01	Specific Gravity	1.8 kg/m <sup>2</sup>	ASTM D 792	
02	Tensile Strength (Longitudinal Transversal)	110 MPa	ASTM D 638; BS 27 ASTM D 3481	
03	Glass Content	31.5% ± 2%	ASTM D 2344; BS 2	
04	Flexural Strength	180 – 230 MPa	ASTM D 790; BS 27 ASTM D 3481; BS 5	
05	Young's Modules	13 GPa		
06	Impact Strength	80 Kgf·cm/cm2 (No Cracking)	ASTM D 256; BS 278 BS 5734	
07	Compressive Strength	300 MPa	ASTM D 695	
08	Shear Strength	Min 80 Mpa	ASTM D 2344; BS 2	
09	Barcol Hardness	Min 50	ASTM D 2583; BS 2	
10	Water Absorption	Max 0.06%	ASTM D 570; BS 74	
11	Light Transmission	0%		
12	Thermal Expansion	1.66 x 10-5 /°C		
13	Bending Strength	190-200Mpa		
14	Cavity	Max 2%		
15	Ultra Violet Rays	UV Stabilize		
16	Toxicity	Nil	BS 6920	
17	Micro Biological Growth	Nil	BS6920	
18	PH Value of Water to be stored	6.5 to 8		
19	Opacity	0%		
20	Flame Spread (FSI)	60		
21	Smoke Development (SD)	40		
22	Fire Rating Class			
23	Thermal Conductivity	Standard Panel	0.15 w/m <sup>2</sup> K	
		Insulated Panel	0.02 w/m <sup>2</sup> K	
24	Coefficient of Overall Thermal Transmission	Standard Panel	14 w/m <sup>2</sup> K	
		Insulated Panel	1 w/m <sup>2</sup> K	



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"AQUASYSTEM"

Item	Advantage		
The safety factor for steel base	The patented steel base for Al Bassam water tank Gl Epoxy painted		
Earthquake resistant design for skid base	The design of skid base of Al Bassam is lower {height} and wider (width} than general one, so there more stability and strength against earthquake		
Tie Rod SS 316 (Internal)	Preventing corrosion and rusting issues inside the tan		
SS 316 Bolt , Nut & Washer	Using bolt , nut and washers SS 316 for internal, solve rusting issue		
SS 304 Bolt ,Nut & Washer or GI (External)	Non-contact with water areas (External)		
Reinforcement	External (HDG, GI Epoxy Painted, SS 304)		
	Internal (SS 316)		
External Ladder (Above 1.5 Meter Height Tank Only)	GI		
Stainless steel for internal SS materials	Preventing corrosion and rusting issues with		
SS 316	stainless steel on the internal SS materials		
GRP Roof and structure support	uPVC pipes for roof support, tie rods holds structure of the tank		
Name plate of water tank	It is easy to check the safety management rules with name plate on the Al Bassam GRP water tank		

