SINCE 1968
AL BASSAM®
مصانع البسام العالمية ذ.م.م
International Factories LLC

AQUASYSTEM

GRP HOT PRESSED SECTIONAL WATER TANKS

MADE IN UAE

Ajman (Head Office) Tel: +971 6 74 68 668	**Abu Dhabi** Tel: +971 2 55 51 667	**Sharjah - Ind. Area** Tel: +971 6 53 45 115	**Sharjah - MBZR** Tel: +971 6 53 52 569
Al Ain Tel: +971 3 72 17 368	**Dubai - Al Rashidiya** Tel: +971 4 28 44 428	**Dubai - Al Aweer** Tel: +971 4 33 32 424	**Dubai - Al Qouz** Tel: +971 4 34 00 042

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www.albassam.ae

AQUASYSTEM

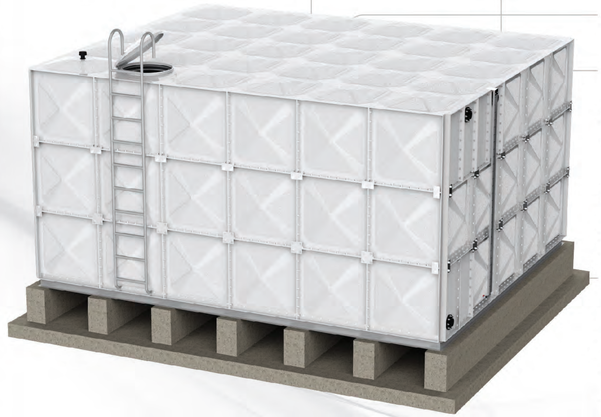
AL BASSAM SINCE 1968

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 paces 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

Specific Gravity	1.8
Glass Content	31.5%±2%
Tensile Strength	110 MPa
Young’s Modules	13 Gpa
Flexural Strength	180 - 230 MPa
Barcol Hardness	Min 50
Impact Strength	80 Kgf-cm/cm² (No Cracking)
Shear Strength	Min 80 MPa
Compressive Strength	300 MPa
Water Absorption	Max 0.06%
Light Trasmission	Nil
Utlra Violet Rays	Stabilized Resistant
Toxicity	Nil
Micro Biological Growth	Nil
PH Value of the Water to be stored	6.5 to 8
Thermal Conductivity	Standard Panel 0.15 Kcal/m hr °C
	Insulated Panel 0.2 Kcal/m hr °C
Coef. of overall Thermal Transmission	Standard Panel 5 Kcal/m hr °C
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Resin Content	min 58
Bending Strength	190-200Mpa
Barcol Hardness	55
Cavity	max 2%
Young’s Modulus	1.40 x 10^5 Kg/cm²
Toxicity	Nill
Micro-Biological Growth	Nill
Ultra-violet Rays	None
Opacity	0

WRAS APPROVED MATERIAL

UKAS MANAGEMENT SYSTEMS 20741

Approval Number 2301509
Test Report: MA7852A

Water Regulations Approval Scheme Ltd.
Unit 13,
Willow Road,
Pen y Fan Industrial Estate,
Crumlin,
Gwent,
NP11 4EG

17th January 2023

Al Bassam International Factories LLC
PO Box 7090 UAQ,
Al Itihad Road,
Umm Al Quwain,
United Arab Emirates

WATER REGULATIONS APPROVAL SCHEME LTD. (WRAS)
MATERIAL APPROVAL

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 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 its 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. **5120**

'Aquasystem'. Grey coloured, GRP panels manufactured by hydraulic press. For use with water up to 60°C.

APPROVAL NUMBER: 2301509
APPROVAL HOLDER: AL BASSAM INTERNATIONAL FACTORIES LLC

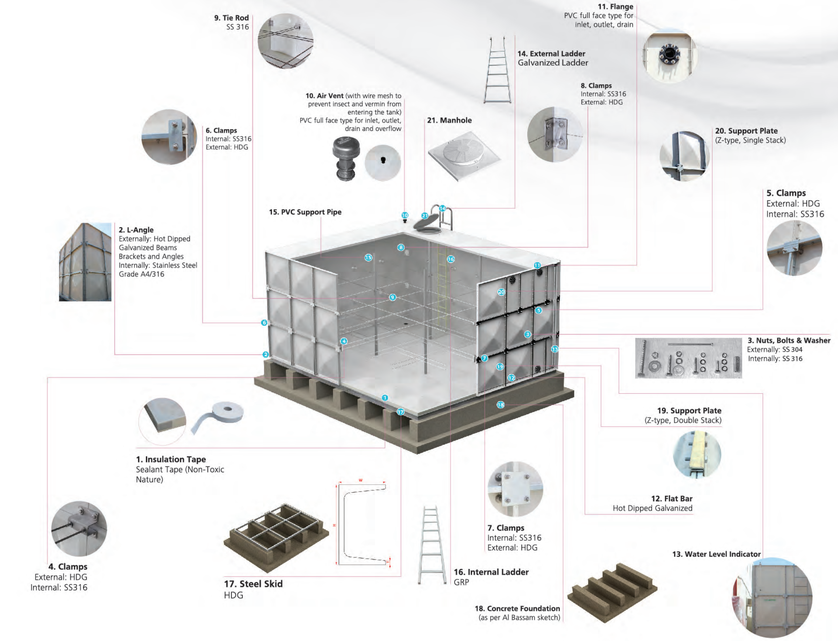
The Scheme reserves the right to review approval.
Approval 2301509 is valid between January 2023 and January 2028

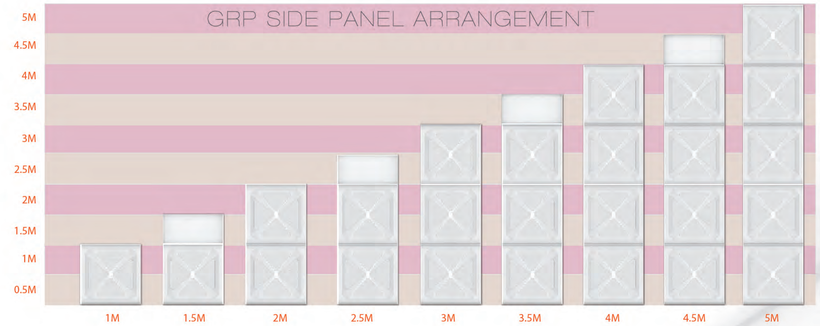
An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials which have passed full tests of effect on water quality".

The Directory may be found at: www.wrasapprovals.co.uk/approvals-directory/

Yours Faithfully

Ian Hughes
WRAS Approvals Manager





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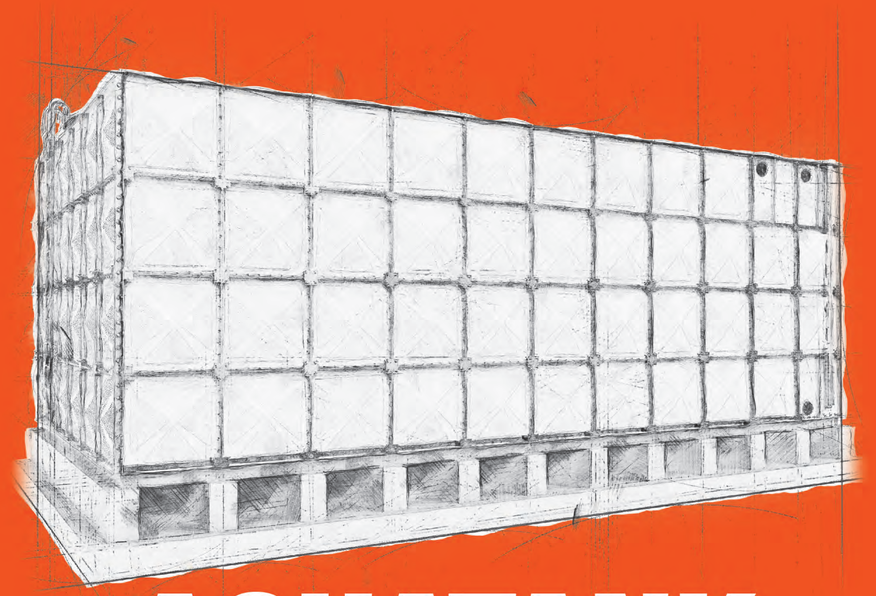

AQUATANK

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AQUATANK

RAW MATERIAL FROM KOREA AND MADE BY AL BASSAM IN UAE

GRP "HOT PRESSED" SECTIONAL WATER TANK

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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"

WRAS APPROVAL

PANEL PHYSICAL PROPERTIES

Specific Gravity	1.8
Glass Content	31.5%±2%
Tensile Strength	110 MPa
Young's Modules	13 Gpa
Flexural Strength	180 - 230 MPa
Barcol Hardness	Min 50
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Micro-Biological Growth	Nill
Ultra-violet Rays	None
Opacity	0

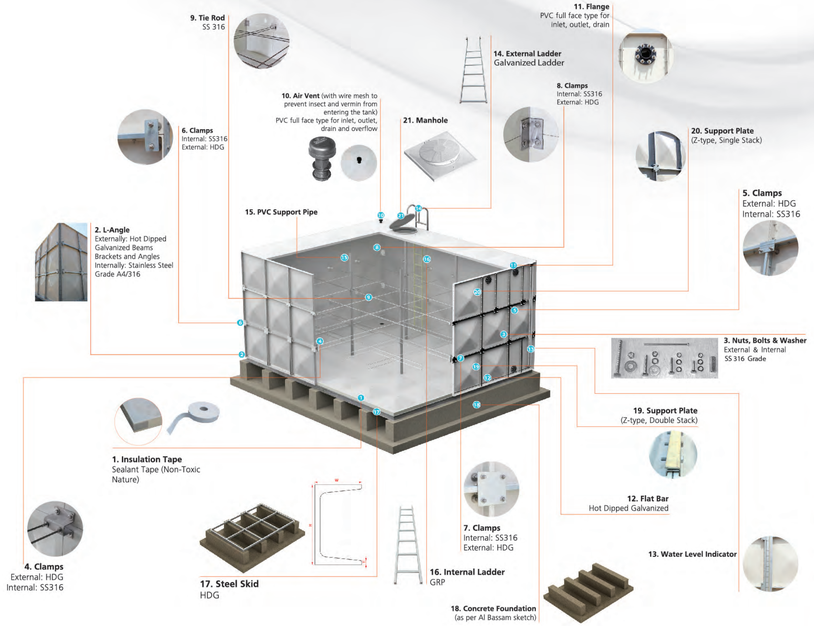
UNIQUE CHARACTERISTICS OF AL BASSAM GRP HOT PRESSED SECTIONAL WATER TANK

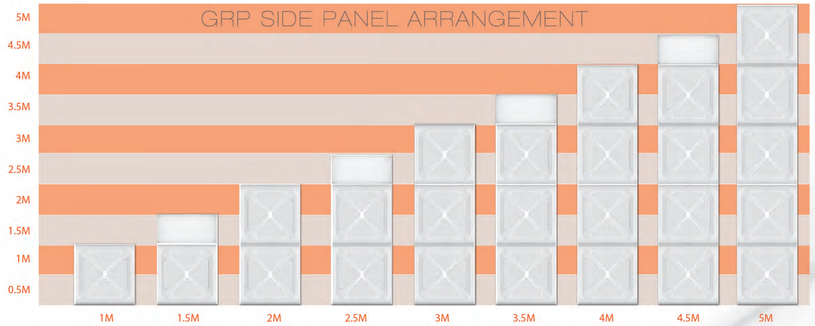
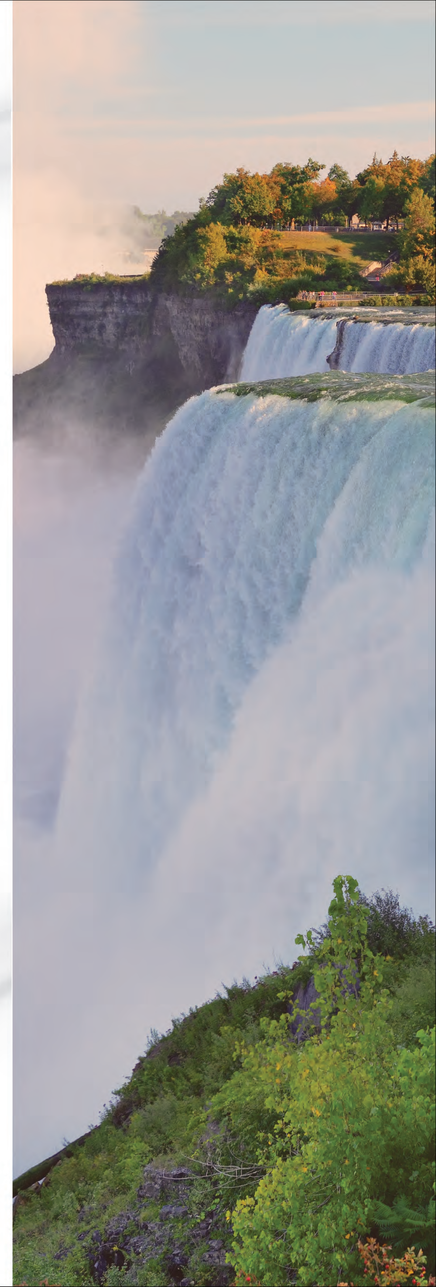
NON SLIP SURFACE GRP PANELS

DESIGN TO PREVENT SLIDING WITH A SPECIAL TEXTURE (ROOF AND SIDE PANELS)

"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 and external	Using SS 316 Nut, Bolt and Washer for internal and external solve rusting issue
GRP Roof and structure support	uPVC pipes for roof support, tie rods holds structure of the tank
Reinforcement	External (all HDG), Internal (SS 316)





Manhole & Cover