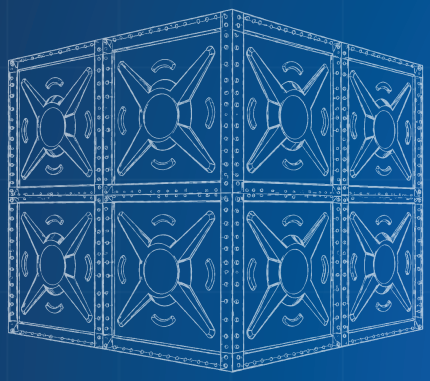
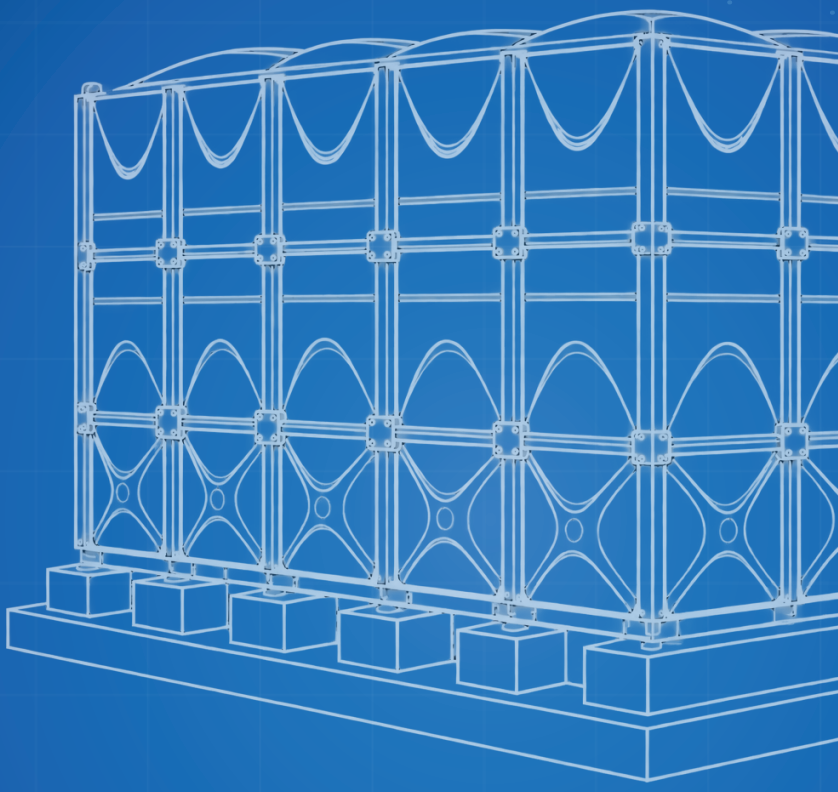
AQUA TANK

MODULAR WATER STORAGE SYSTEMS







01 · COMPOSITE

GRP / CTP

02 · STAINLESS

Stainless Steel

03 · STEEL

Galvanised

PRODUCT CATALOGUE · 2026

One of Turkey's Pioneers in GRP Manufacturing Technology

AQUASAN®

FLUID SYSTEM TECHNOLOGIES

HEALTHY STORAGE · POWERFUL TRANSFER

MALATYA · TURKEY

PRODUCTION · INSTALLATION · SERVICE



HEALTHY STORAGE · POWERFUL TRANSFER

Your Local Manufacturer and Turnkey Partner in Water Storage

Aquasan manufactures modular water tanks, booster sets and pump systems at its own plant in Malatya 1st Organised Industrial Zone, and manages each project from site survey to installation as a single contractor, assembling and commissioning the tank on site.

Since our founding, Aquasan tanks have been used in hospitals, universities, mass housing, airports and industrial facilities in Turkey and abroad.

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04 **Product Range**
Three materials · Applications

05 **Modular GRP Water Tanks**
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09 **Installation and Layout**
Concrete base · Installation examples

14 **Modular Steel Water Tanks**
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Booster sets, pumps, fire systems and pressure tanks

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Project information form

15+
years of manufacturing experience

10,000+
completed projects

55+
reference countries

Why Aquasan?

We manage the entire water storage process under one roof, from production and installation to service and spare parts.

Local Manufacturer

We manufacture water tanks, booster sets and pump systems at our own plant in Malatya 1st Organised Industrial Zone.

Turnkey

We manage the project from survey to installation as a single contractor, assembling and commissioning the tank on site.

Three Materials, One System

GRP, galvanised and stainless steel tanks in any size and capacity, built from modular panels.

Certified Production

Compliance with national and international standards, certified by WRAS, CE, TSE and TSEK.

Expert Installation and Service

Our own installation teams, spare parts supply, fast service and periodic maintenance.

Package Solution

Tanks, booster sets, pumps and fire systems in one project, with one point of contact.



15+ years of manufacturing experience

55+ reference countries

10,000+ completed projects

2 yr product warranty

Three Materials, One Modular System

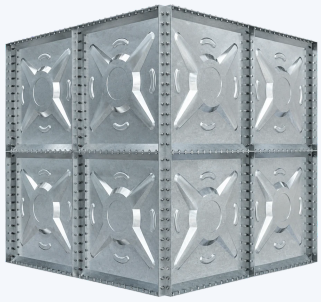
All Aquasan tanks are built from standard panels bolted together on site. This allows a tank of any size and capacity to be carried through narrow doorways and assembled in place.



01 · COMPOSITE

GRP Water Tank

Material	Glass fibre reinforced composite
Panel	1000 × 1000 mm
Height	1.0 – 5.0 m
Key feature	Opaque, algae-free, suitable for outdoor use



02 · STEEL

Galvanised Water Tank

Material	ST 37 hot-dip galvanised
Panel	1080 × 1080 mm
Height	540 – 4320 mm
Key feature	High strength, economical solution



03 · STAINLESS

Stainless Steel Water Tank

Material	AISI 304 / 316 L stainless steel
Panel	1080 × 1080 mm
Height	540 – 4320 mm
Key feature	Highest hygiene, corrosion resistance

APPLICATIONS

- Housing and residences
- Hospitals
- Schools and dormitories
- Public buildings
- Industrial facilities
- Agriculture and irrigation
- Livestock farming
- Construction sites

Modular GRP Water Tanks

Glass Fibre Reinforced Composite

01

GRP panels are made from unsaturated polyester composite reinforced with chopped glass fibre. The sheets are cured under pressure and heat in moulds heated to 150 °C, using high-tonnage presses.

Panels produced this way are smooth, fully cured and durable on both faces. Aquasan GRP panels are UV resistant and opaque, so no algae forms inside the tank.

For very hot or very cold regions, panels can be insulated with a polyurethane foam coating. The insulation material contains no CFCs or HCFCs.



MATERIAL	Glass fibre reinforced composite
PANEL	1000 × 1000 mm
HEIGHT	1.0 – 5.0 m · in 0.5 m steps
INSULATION	Optional polyurethane foam
USE	Indoor and outdoor

150 °C
Hot-press moulded and cured

0.01 %
Water absorption rate

1.8 kg/dm³
Density; a quarter of the weight of steel

UV
Opaque; optional thermal insulation

Next-Generation Water Storage



A

Long Service Life

Made from chopped glass fibre and unsaturated polyester resin. Hot-pressed panels do not corrode and keep their shape for many years.



B

Suitable for Outdoor Use

Low thermal conductivity and UV resistant. Can be used safely outside buildings in very hot and very cold climates.



C

Preserves Water Quality

Suitability for food contact is documented by laboratory reports. Because the panels are opaque, no algae or bacteria form inside the tank.



D

High Strength

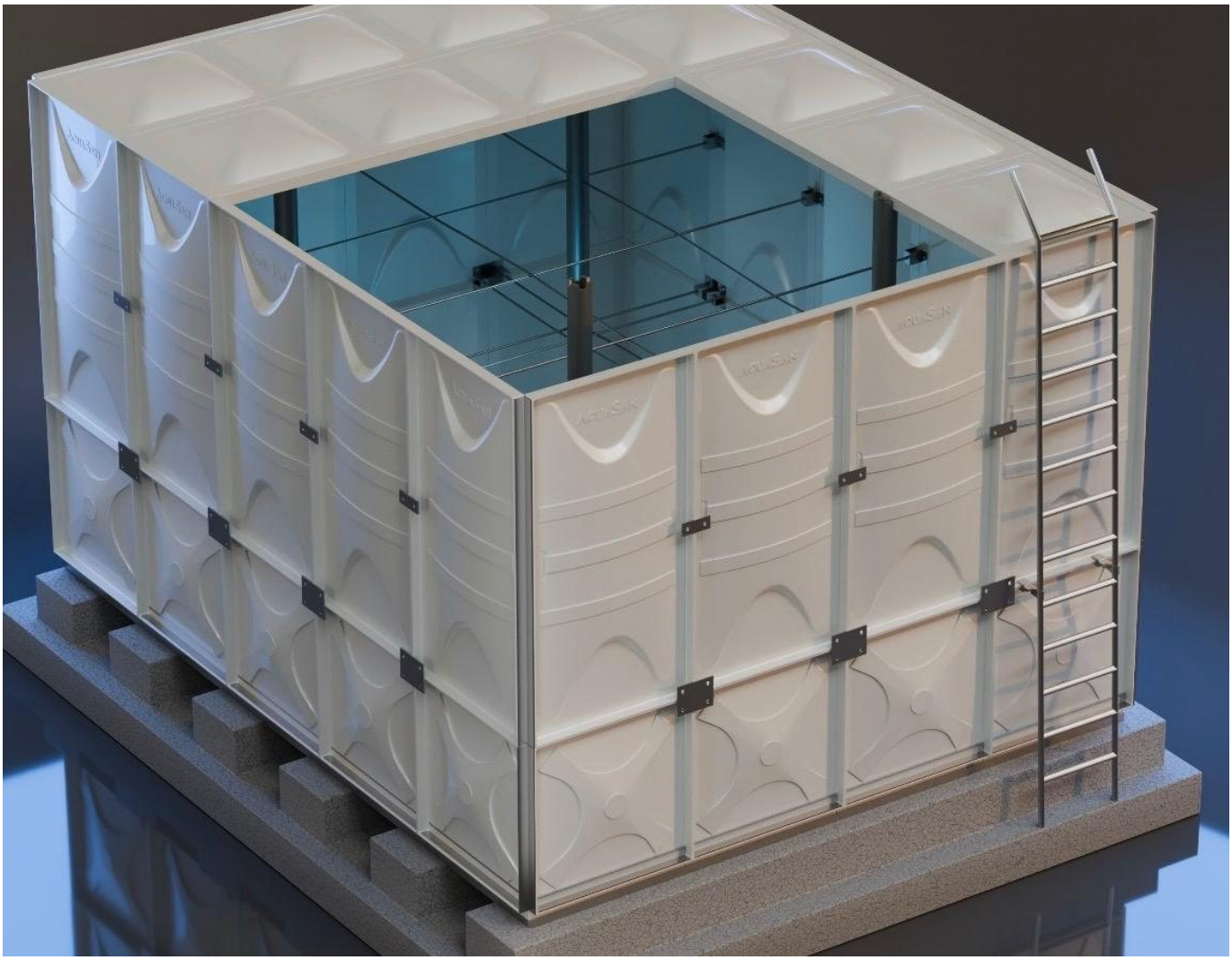
Panels are pressed in heated moulds on high-tonnage presses, giving them greater strength than hand-laid tanks.

Comparison with Other Tank Types

How Aquasan GRP panel tanks compare with other tank types in water quality, durability, maintenance and installation.

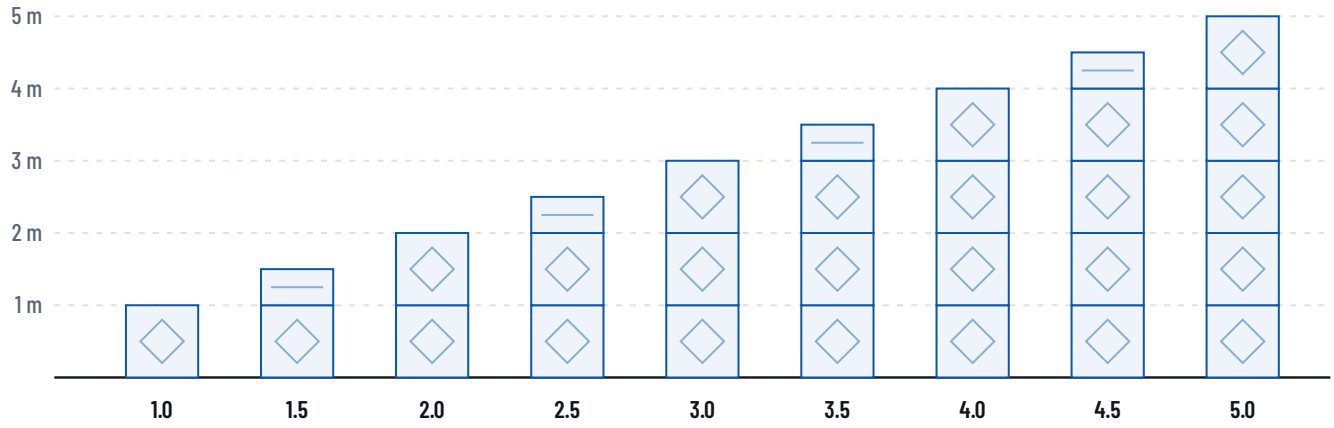
TANK TYPE	WATER QUALITY	WATERTIGHTNESS	DURABILITY	TRANSPORT	MAINTENANCE	CORROSION RESISTANCE	INSTALLATION	RECYCLING
Aquasan GRP panel tank	Good	Very good	Good	Fair	Very good	Very good	Very good	Poor
Concrete tank	Poor	Fair	Fair	Poor	Poor	Fair	Fair	Poor
Steel tank	Poor	Very good	Poor	Very good	Very good	Poor	Very good	Poor
Stainless steel tank	Very good	Very good	Very good	Very good	Very good	Very good	Very good	Very good
Hand-laid GRP tank	Good	Very good	Good	Fair	Very good	Very good	Very good	Poor

Poor · Fair · Good · Very good



Technical Data

Height Configuration METRES · IN 0.5 M STEPS



Physical Properties TYPICAL VALUES

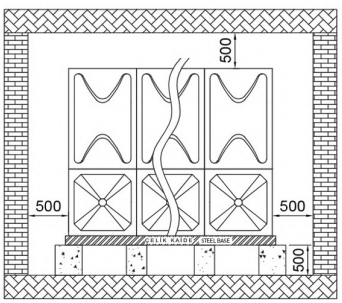
PROPERTY	VALUE
Tensile strength	99.5 MPa
Flexural strength	165 MPa
Modulus of elasticity	13,800 MPa
Barcol hardness	70
Density	1.8 kg/dm³ (steel 7.85)
Water absorption rate	0.01 %
Glass fibre content	32.1 %
Light transmission	None
Heavy metals	Not detected
pH (20 °C)	6.9
Phenol	Not detected

Layout

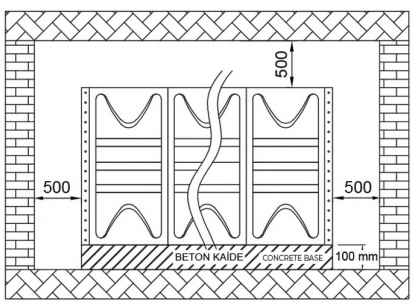
The tank is installed on a concrete base with clearance left around it for installation and maintenance.

Thermal Insulation

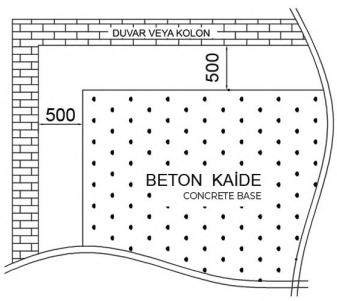
For extremely hot or cold environments, GRP panels can be thermally insulated on request. The panel surface is coated with polyurethane foam; the insulation contains no CFCs or HCFCs and is environmentally safe.



BETON KAİDE ÖN GÖRÜNÜŞ



BETON KAİDE ÖN GÖRÜNÜŞ



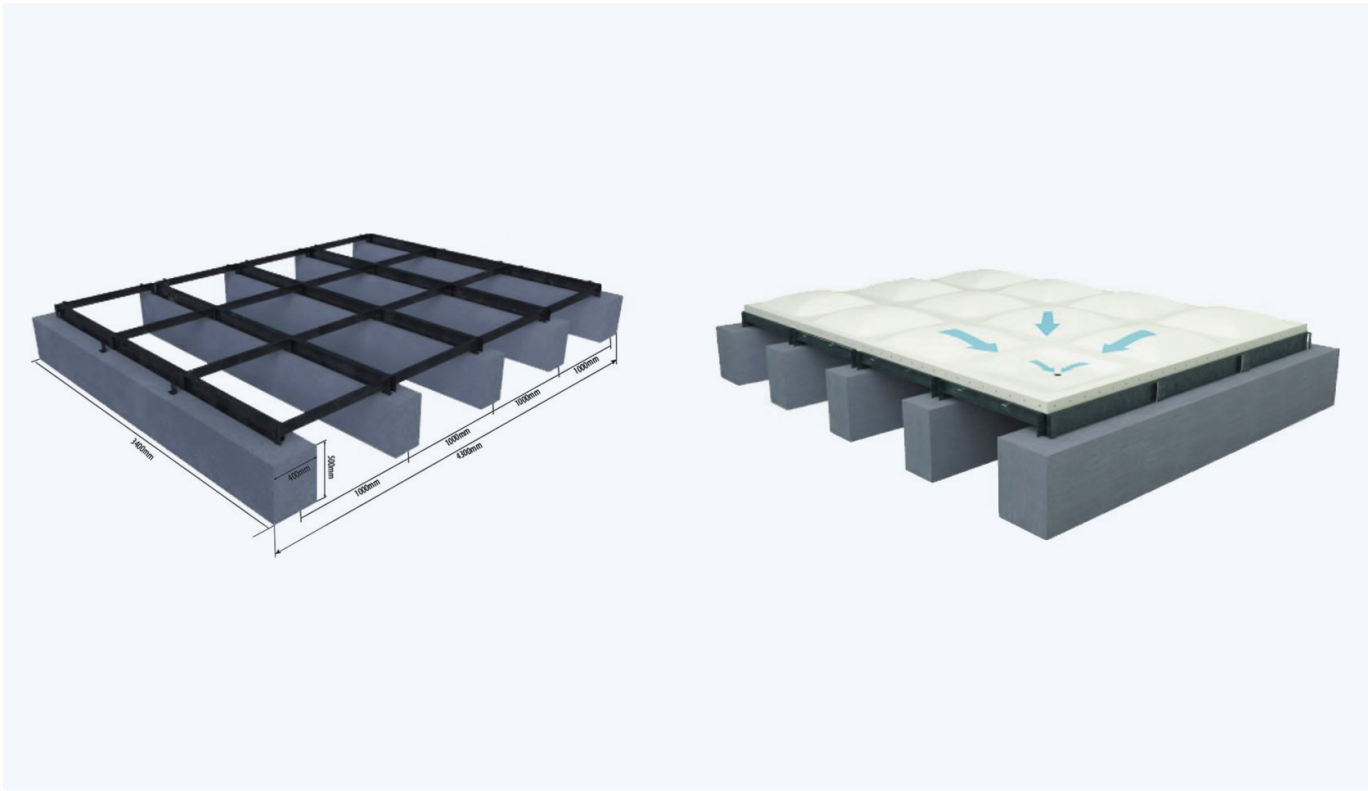
BETON KAİDE ÜST GÖRÜNÜŞ

LAYOUT · CONCRETE BASE, FRONT AND TOP VIEW · DIMENSIONS IN MM

Installation and Layout

Aquasan tanks sit on a steel support grid on a concrete base. The floor design allows dirty water and sediment to be drained completely.

Concrete Base and Floor Design



THE FLOOR DESIGN ALLOWS DIRTY WATER AND SEDIMENT TO BE DRAINED COMPLETELY

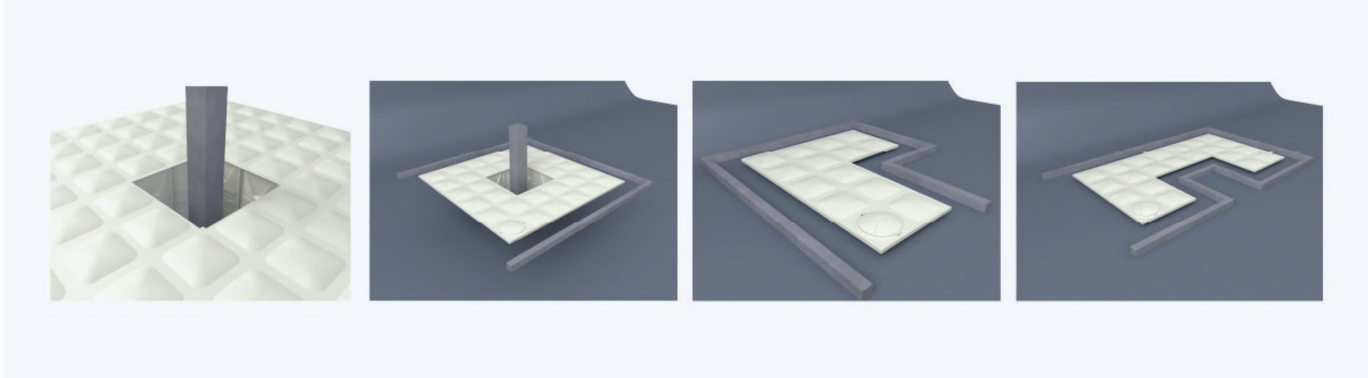
Installation Clearances

	GRP	STEEL
Wall / column clearance	500 mm	500 mm
Ceiling clearance	500 mm	500 mm

Architectural Flexibility

Thanks to their modular design, tanks can be built in rectangular, L, U and other shapes. Custom layouts are prepared for column penetrations and tight spaces.

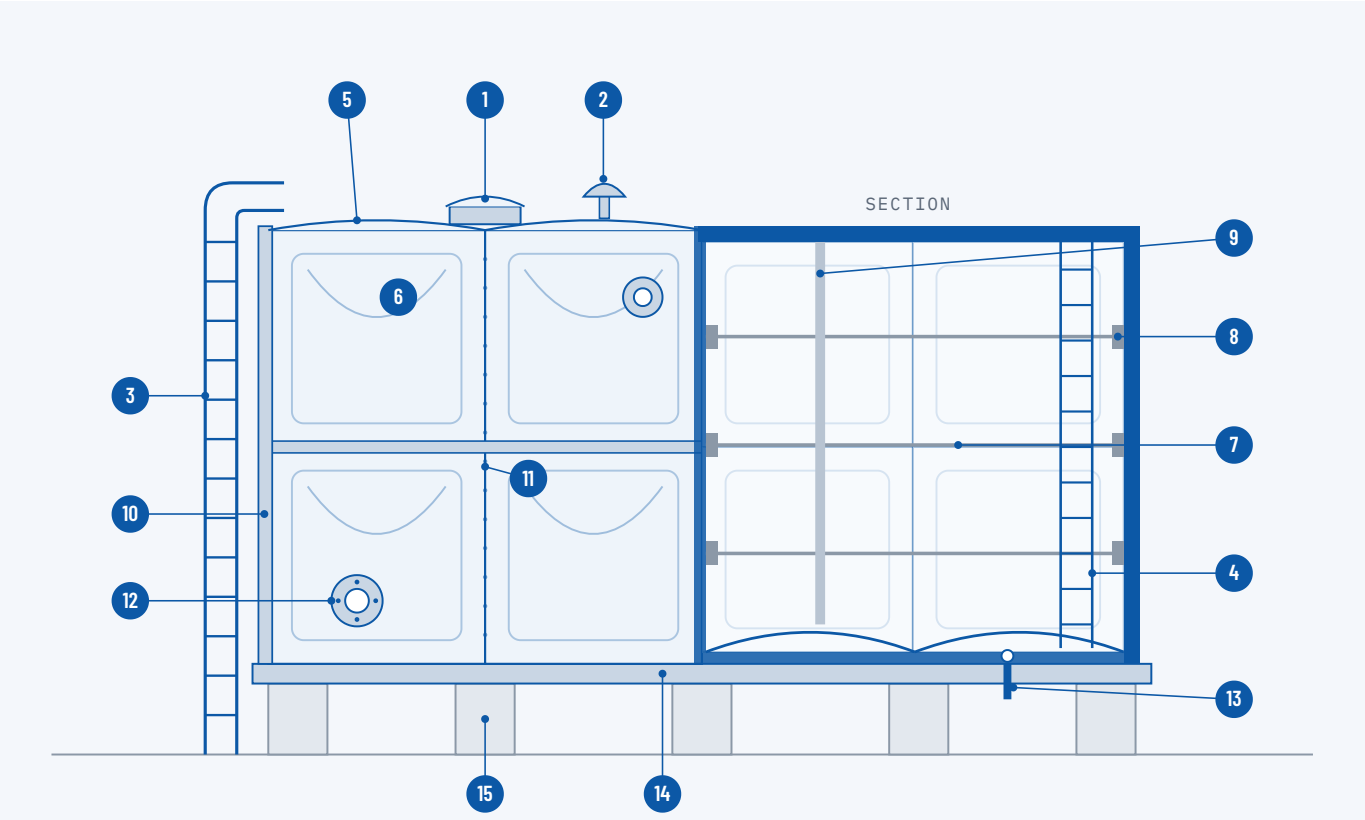
Installation Examples



GRP MODULAR TANKS CAN BE DESIGNED AND BUILT IN VARIOUS SHAPES TO SUIT ANY ARCHITECTURAL CONSTRAINT

GRP Tank Components

An Aquasan GRP tank consists of panels, an internal stay system, galvanised supports and fittings. All parts are bolted together on site; no welding is needed.



1 Manhole cover
Access into the tank for inspection and maintenance.

2 Air vent
Balances the air pressure inside the tank.

3 External ladder
Hot-dip galvanised steel.

4 Internal ladder
Gives maintenance access inside the tank.

5 Roof panel
Opaque, closed roof.

6 Wall panel
1000 × 1000 mm modular GRP panel.

7 Internal stay rods
Tie opposite walls together and balance water pressure.

8 Stay brackets
Fix the stay rods to the panel joints.

9 Roof support
Carries the roof panels from inside.

10 Corner profile and external bracing
Galvanised profiles reinforce corners and joints.

11 Bolts, nuts and tape
Panels are bolted together on site and joints sealed with tape.

12 Connection flanges
Inlet, outlet, overflow and drain connections.

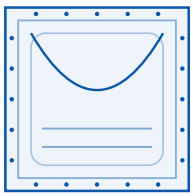
13 Drain panel
The tank drains from the lowest point of the floor.

14 Steel skid
Galvanised main and cross beams.

15 Concrete base
Prepared on site to suit the tank size.

Panel Types and Floor System

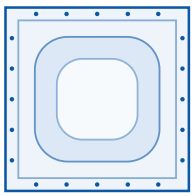
Each panel type is pressed in a form suited to its role in the tank. Thanks to standard sizes, the same panel family builds anything from small tanks to very large projects.



Wall Panel

Forms the side walls. The embossed form stiffens the panel; half panels set the height in 0.5 m steps.

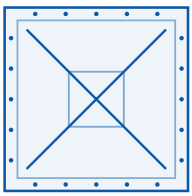
1000 × 1000 · 1000 × 500 MM



Floor Panel

The convex form directs water pressure into the panel joints in the sealing direction.

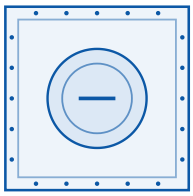
1000 × 1000 MM



Roof Panel

The cross-ribbed form stiffens the roof; the panel is opaque.

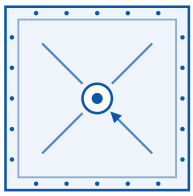
1000 × 1000 MM



Manhole Panel

The roof panel that carries the manhole cover.

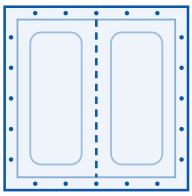
1000 × 1000 MM



Drain Panel

Sits at the lowest point of the floor; the tank drains fully through this panel.

1000 × 1000 MM



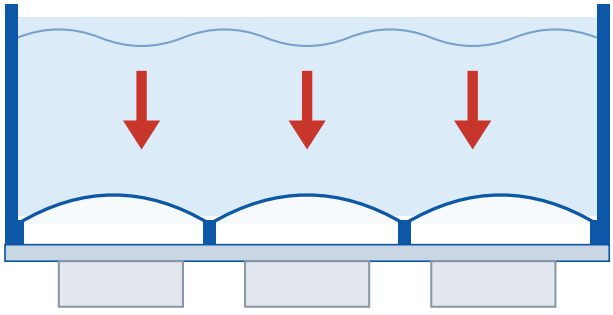
Partition Panel

Divides the tank into two compartments; both faces are made for water contact.

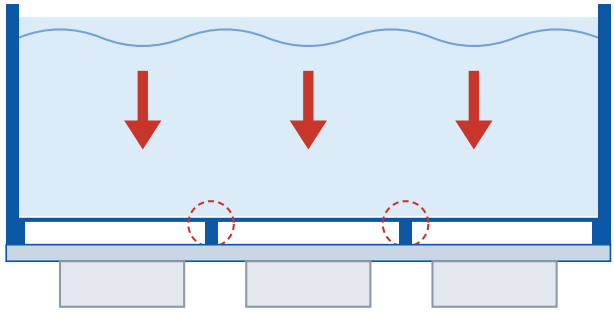
BY TANK HEIGHT

Convex Floor and Water Pressure

In a full tank, water pressure pushes the convex floor panels downwards; this force compresses the flange joints and improves sealing. With flat floor panels the same pressure forces the joints apart and can cause leaks over time.



AQUASAN CONVEX FLOOR · PRESSURE TIGHTENS THE JOINT



FLAT FLOOR · PRESSURE FORCES THE JOINT OPEN

Design Criteria

GRP panels are designed with a safety margin against water, dead load, snow, wind and seismic forces. A reliable panel reduces the need for extra reinforcement and makes the tank more economical.

60 m/s
Wind speed withstood when empty

200 kgf/m²
Snow load capacity on the roof

1 %
Maximum side wall deflection after 48 h full

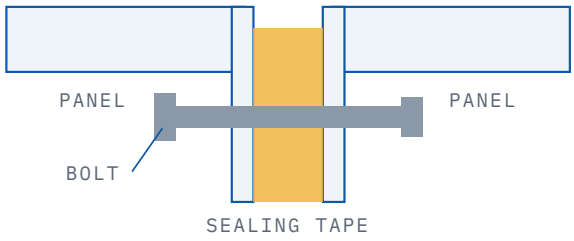
50 °C
Maximum water temperature

Design Loads

LOAD	DESIGN CONDITION
Seismic load	Designed with seismic coefficients horizontal Kh = 2/3, vertical Kv = 1/3.
Hydrostatic pressure	When kept full for 48 hours, side wall deflection does not exceed 1 % of the total height.
Snow load	Designed for 60 kgf/m² (30 cm snow); the roof carries 200 kgf/m².
Wind load	Designed for 255 kgf/m²; withstands 60 m/s wind even when empty.
Water temperature	Normal use below 30 °C, maximum 50 °C. Special versions are made for thermal spring water.

Sealing Tape

Panel joints are sealed with a special PVC foam tape. The tape stays flexible and adhesive at low temperatures and recovers 96 % of its thickness 24 hours after compression.



JOINT	TAPE WIDTH
Standard joint	50 mm
Corner joint	120 mm
Roof joint	30 mm

Thermal Insulation Comparison

In the insulated panel, 25 mm polyurethane foam sits between the GRP panel and a protective cover. This three-layer build prevents condensation on the outside and minimises temperature change in the stored water.

TANK TYPE	THERMAL CONDUCTIVITY	WATER–PANEL–AIR
Steel	37.0	24
GRP (uninsulated)	0.15	5
GRP (insulated)	0.02	1

THERMAL CONDUCTIVITY KCAL/M·H·°C · OVERALL HEAT TRANSFER COEFFICIENT KCAL/M²·H·°C

Skid, Connections and Partitioned Tanks

Steel Skid Profiles BY TANK HEIGHT

TANK HEIGHT	MAIN BEAM	CROSS BEAM
1 – 2 m	L 75 × 75 × 6 mm	U 75 × 40 × 3 mm
2.5 – 4 m	U 125 × 65 × 6.5 × 8 mm	U 75 × 40 × 6 mm
4.5 – 5 m	U 150 × 75 × 8 × 10 mm	U 100 × 50 × 6 mm

The skid is built from hot-dip galvanised profiles with bolted assembly; no welding is needed.

The concrete base must have a compressive strength of at least 180 kg/cm².

Levelling mortar on the base must not exceed 20 mm.

Profiles are the recommended standard; they are recalculated for site conditions and the project.

Standard Connection Sizes BY TANK CAPACITY

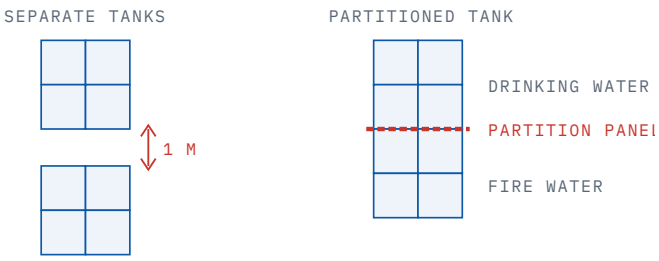
CAPACITY	INLET	OUTLET	OVERFLOW	DRAIN
1 – 10 m³	DN 25	DN 50	DN 50	DN 25
11 – 20 m³	DN 40	DN 50	DN 50	DN 40
21 – 50 m³	DN 50	DN 65	DN 65	DN 40
51 – 100 m³	DN 65	DN 80	DN 80	DN 50
101 – 200 m³	DN 80	DN 100	DN 100	DN 50
201 – 500 m³	DN 100	DN 125	DN 125	DN 80
501 m³ and above	DN 125	DN 150	DN 150	DN 80

Connections are made flanged or threaded; sizes can be changed per project. Pipework must be supported separately so it puts no load on the tank.

Partitioned Tank

Two different needs such as drinking water and fire water can be met in one tank, separated by a partition panel. Since separate tanks need a 1 m maintenance gap between them, a partitioned tank on the same area stores more water.

Example: two separate 2 × 1.5 × 2 m tanks hold 12 tonnes in total; a 2 × 4 × 2 m partitioned tank on the same area holds 16 tonnes.



Modular Steel Water Tanks

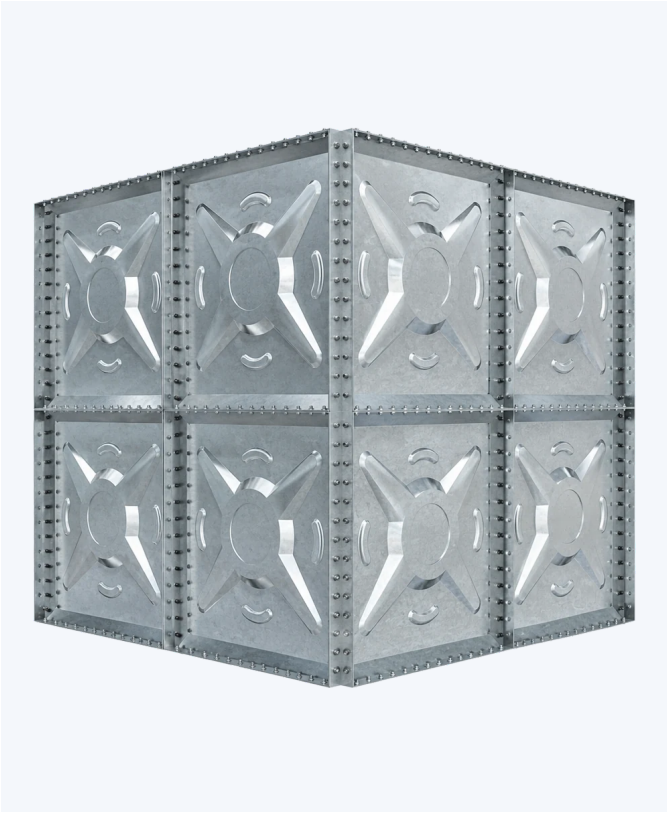
02

AISI 304 / 316 L Stainless · ST 37 Galvanised

Fully hygienic water tanks that are odourless and do not harbour germs. Built from stainless steel (AISI 304 / 316 L) or galvanised (ST 37) sheet as modular panels, in any required capacity.



STAINLESS · AISI 304 / 316 L



GALVANISED · ST 37

Durability

Panels are cold-formed on high-pressure presses for added strength. Tanks built with these panels carry no risk of bulging or bursting.

Hygiene

All parts are manufactured to hygienic standards. No algae or bacteria form in stainless steel tanks.

Easy Maintenance

Maintenance and repair are simple. Individual panels can be replaced independently when needed.

Layout Perspectives

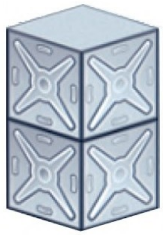
CAPACITY M³
SIZE CM · WIDTH × LENGTH × HEIGHT



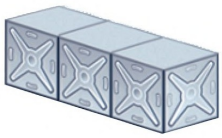
1.26 m³
108 × 108 × 108



2.50 m³
108 × 216 × 108



2.50 m³
108 × 108 × 216



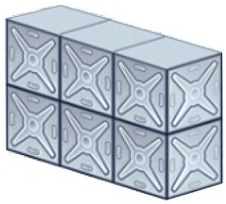
3.50 m³
324 × 108 × 108



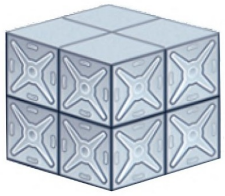
5.00 m³
216 × 216 × 108



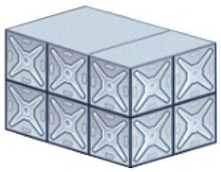
5.00 m³
216 × 108 × 216



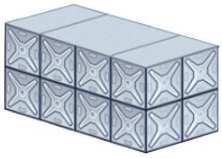
7.50 m³
324 × 108 × 216



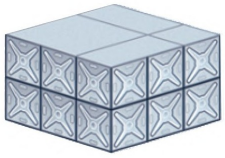
10.00 m³
216 × 216 × 216



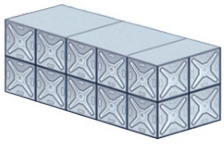
15.00 m³
324 × 216 × 216



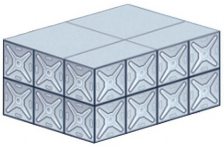
20.00 m³
432 × 216 × 216



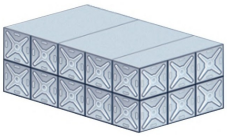
22.50 m³
324 × 324 × 216



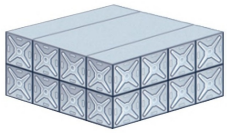
25.00 m³
540 × 216 × 216



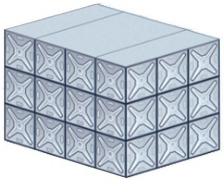
30.00 m³
324 × 432 × 216



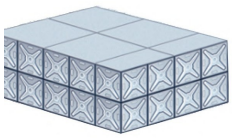
35.00 m³
540 × 324 × 216



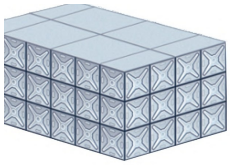
40.00 m³
432 × 432 × 216



45.00 m³
432 × 432 × 324



50.00 m³
540 × 432 × 216

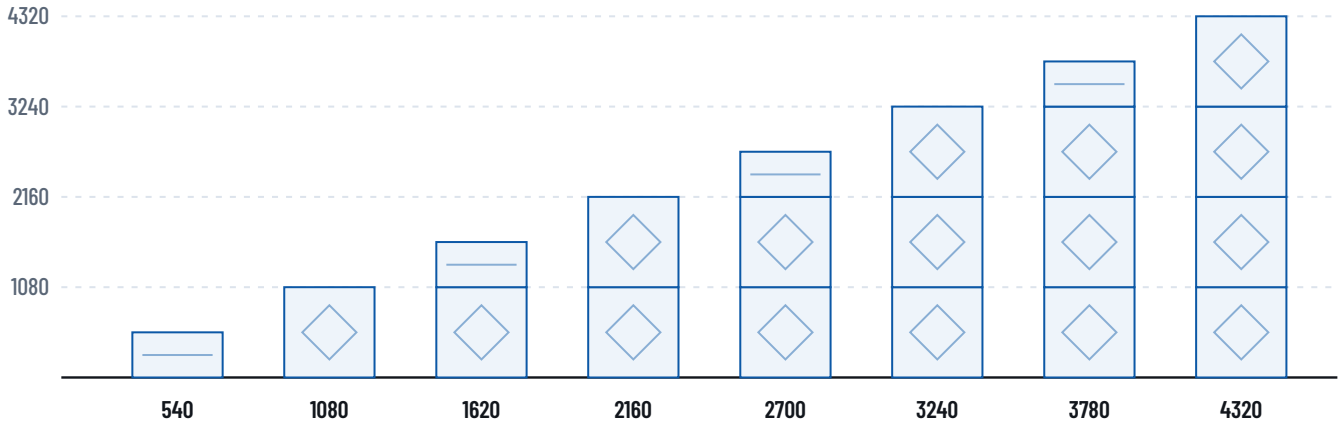


90.00 m³
648 × 432 × 324

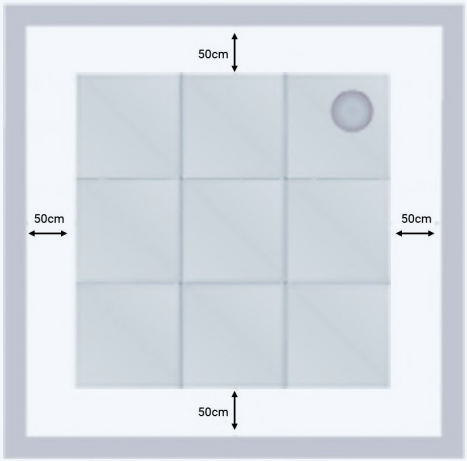
INTERMEDIATE SIZES AND CUSTOM CAPACITIES ARE PRODUCED TO PROJECT REQUIREMENTS.

Technical Data

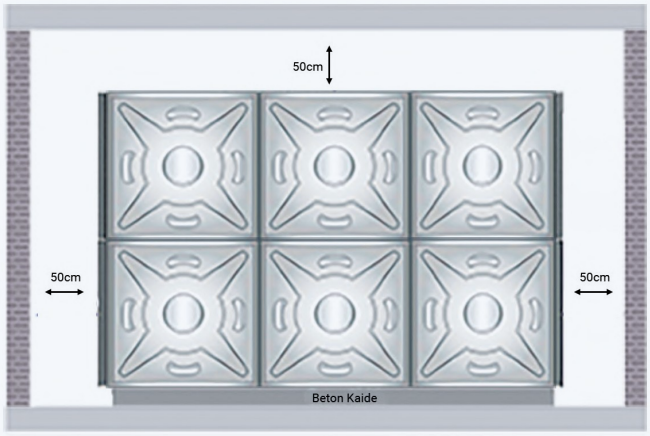
Height Configuration MILLIMETRES · IN 540 MM STEPS



Steel Tank Layout Plan AT LEAST 50 CM FROM WALLS, COLUMNS AND CEILING



Üstten Görünüm
Top View



Karşıdan Görünüm
Front View

1080 mm
Panel size · 1080 × 1080 mm

4320 mm
Maximum tank height · in 540 mm steps

1.26 – 90 m^3
Standard capacity range

50 cm
Minimum clearance to walls, columns and ceiling

Production and Quality



PRODUCTION

In Our Own Plant

At our factory in Malatya 1st Organised Industrial Zone we produce pumps, water booster sets, fire booster sets and fire hose cabinets alongside water tanks.

QUALITY

First-Class Raw Materials

We source raw materials from first-class suppliers. Our quality control unit verifies every stage of production against CE, TSE and TSEK standards.

R&D

Continuous Improvement

We continuously improve our production methods with current technology and refine our products using feedback from the field.

DESIGN

3D Design

We design panel and joint details in SolidWorks and test strength and ergonomics with analysis software.

Installation and Service

We undertake the mechanical water supply needed by large facilities and buildings as installation contracts. Our own expert installation teams carry out site operations across Turkey and abroad.



01

On-Site Installation

Tanks are assembled and tested on site by our expert teams.

02

Spare Parts

Panels, gaskets and fasteners are supplied from stock.

03

Fast Service

Faults and leaks are dealt with promptly.

04

Periodic Maintenance

Cleaning, disinfection and inspection at regular intervals.

2 yr
Product warranty

Worldwide
Expert installation team and service network

Turnkey
One point of contact from survey to commissioning

References
International and TOKI

55+
reference countries



TURKMENISTAN · ASHGABAT
Ahal City Project



IRAQ · ERBIL
Dr. Dakheel Hospital



UZBEKISTAN
New Andijan City Project



GEORGIA · TBILISI
Bakuriani Kokhta Mitarbi Hotel



SYRIA · JARABULUS
Military Base



AZERBAIJAN
Zerdabi Residence



LIBYA
Chief Prosecutor's Office



REFERENCE COUNTRY
Libya



REFERENCE COUNTRY
Sudan



REFERENCE COUNTRY
Nigeria



IZMIR
TOKI



SIIRT
TOKI



TRABZON
TOKI



ISKENDERUN
TOKI



ESKISEHIR
Karapinar TOKI



IGDIR
TOKI



MALATYA
TOKI



ANKARA
TOKI · 548–Unit Urban Renewal

Public, Health and Education

10,000+
completed projects



ERZINCAN
Binali Yildirim University



ARDAHAN
State Hospital



RIZE
Devlet Hatun Girls' Dormitory



ORDU
Metropolitan Municipality Building



BITLIS
Bitlis Eren University



KIRSEHIR
Kaman KYK Dormitory



ERZURUM
Metropolitan Municipality · Kayi Housing Project



AGRI / CENTRE
112 Emergency Command Centre



BURSA
Uludag University



AGRI
Agri Airport



ISTANBUL
ISKI · Silivri Wastewater Plant



KARABUK
Karabuk University



SIVAS
Olympic Swimming Pool



SIVAS
Cumhuriyet University



VAN
Ataturk Stadium

Certificates and Documents

Aquasan tanks are manufactured to national and international standards; their suitability for contact with drinking water is certified by independent bodies.

WRAS

UK water regulations approval for products in contact with drinking water.

CE

Conformity with EU essential health and safety requirements.

TSE

Turkish Standards Institution certificate.

TSEK

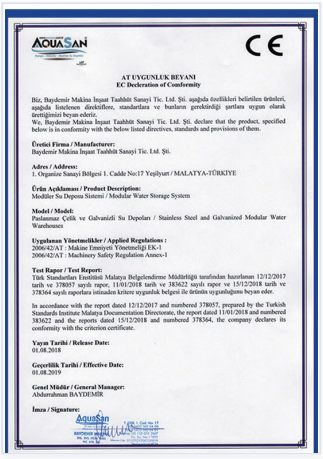
TSE quality conformity certificate.



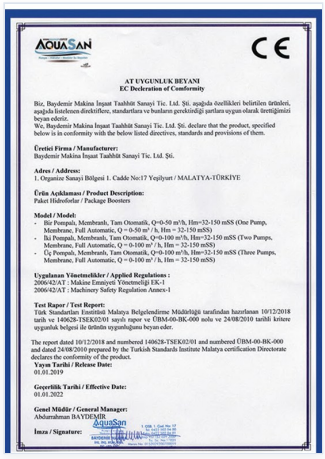
WRAS APPROVAL



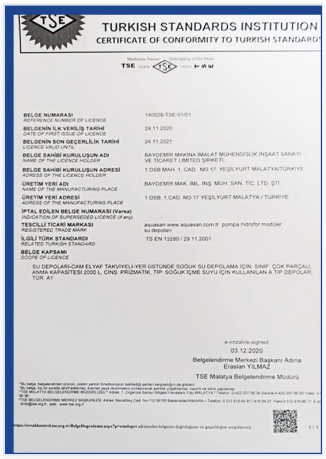
CE DECLARATION OF CONFORMITY



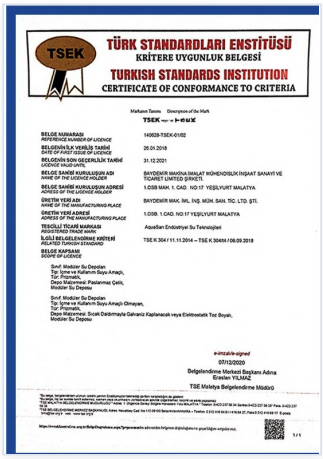
CE DECLARATION OF CONFORMITY



CE DECLARATION OF CONFORMITY



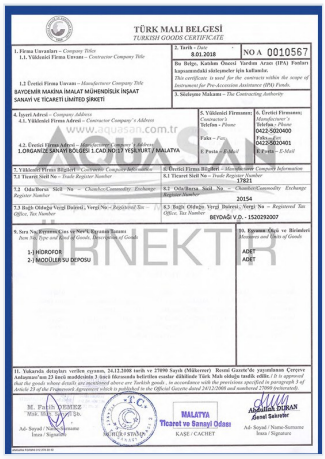
TSE · TURKISH STANDARDS INSTITUTION



TSEK CERTIFICATE



TSEK CERTIFICATE



TSE CERTIFICATE

Food Safety

Compliance of GRP panels with food regulations is proven by laboratory reports.

Package Solutions Tailored to Your Water Storage Needs

We manufacture water tanks, booster sets, pumps and fire systems under one roof, delivering storage and water transfer in one project with one point of contact.





01

Modular Water Tanks

GRP, galvanised and stainless steel tanks.



02

Water Booster Sets

Pressure boosting systems for buildings and facilities.



03

Pump Systems

Water transfer and circulation pumps.



04

Fire Systems

Fire booster sets and fire hose cabinets.



05

Pressure Tanks

Membrane pressure tanks for booster and plumbing systems.

Requesting a Quote

Send us the details below and we will quickly prepare the right tank size, layout and price for your project.

INFORMATION WE NEED

01 Capacity
Required water volume (m³).

02 Tank type
GRP, galvanised or stainless steel.

03 Installation area
Width, length and ceiling height of the area.

04 Access width
Size of the door or opening the panels will pass through.

05 Location
Indoors, rooftop or outdoors.

06 Purpose
Drinking, fire, utility or process water.

07 Thermal insulation
Required for very hot or very cold regions?

08 Delivery
Project address and required delivery date.

Project Information Form

COMPANY / PROJECT NAME

CONTACT PERSON · PHONE

CAPACITY (M³)

TANK TYPE
☐ GRP ☐ Galvanised ☐ Stainless steel

AREA SIZE · WIDTH × LENGTH × HEIGHT (CM)

ACCESS WIDTH (CM)

LOCATION
☐ Indoors ☐ Rooftop ☐ Outdoors

PURPOSE
☐ Drinking ☐ Fire ☐ Utility ☐ Process

NOTES

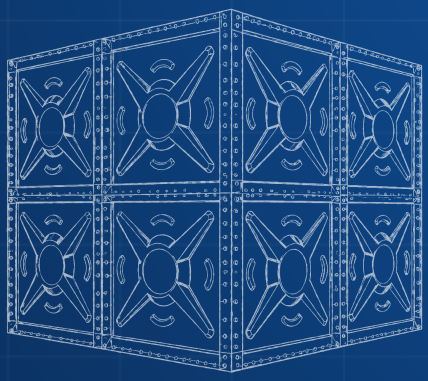
EMAIL
info@aquasan.com.tr

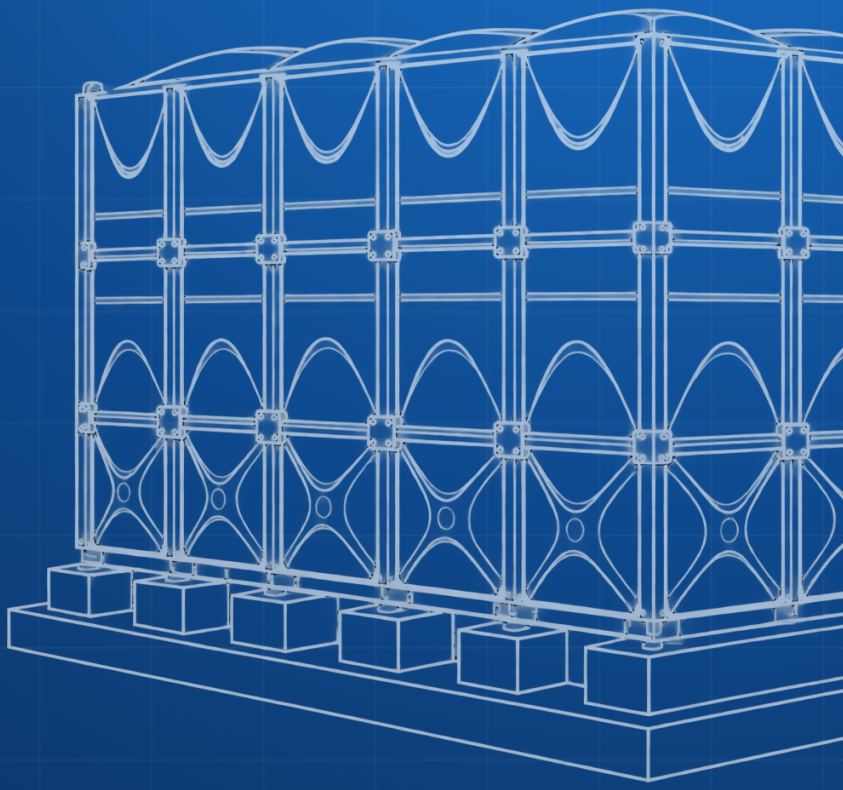
PHONE
+90 422 502 04 00

WHATSAPP
+90 549 446 40 44

AQUA TANK

MODULAR WATER STORAGE SYSTEMS





Let's Choose **the Right Tank** for Your Project Together.

COMPANY	Aquasan Group A.S.	PHONE	+90 422 502 04 00
FACTORY	1st Organised Industrial Zone, 8th Street No:45, Yesilyurt / Malatya, Turkey	WHATSAPP	+90 549 446 40 44
WEB	www.aquasan.com.tr	EMAIL	info@aquasan.com.tr

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AQUASAN®

FLUID SYSTEM TECHNOLOGIES

HEALTHY STORAGE · POWERFUL TRANSFER