



MUI FATT · PRODUCT CATALOGUE

FRP CHEMICAL AND WASTEWATER TREATMENT TANKS

Fibreglass tanks for PAC chemical holding, clarifiers, bio tanks and sludge.
Built to your drawing, with the resin matched to what the tank will hold.



MUI FATT

FRP TANKS MADE IN MALAYSIA

Mui Fatt Marketing Sdn Bhd
Manufactured by Y.T. Fibreglass Industries Sdn Bhd



WHY FRP

BUILT FOR LIQUIDS THAT EAT STEEL AND CONCRETE

SEAMLESS BUILD

Filament wound or hand laid up, with no welded seams to leak or rust.

RUST FREE

Fibreglass does not rust, so wet plant rooms and chemicals cannot eat the wall.

RESIN TO SUIT

GP, ISO or vinyl ester, chosen for the chemical the tank will hold.

SUNLIGHT RESISTANT

Made for outdoor treatment plants in the Malaysian sun and rain.

LIGHT TO INSTALL

Far lighter than steel or concrete, so it lifts into place easily.

YOUR DRAWING

Every tank is made to the size, shape and fittings in your design.

THE RANGE

FIVE TANK SHAPES, ONE FOR EACH JOB

Tank	Used as	Size
1. Round open-top, flat base	Pre-treatment water, sludge water	Diameter 1 m to 3 m (4 m subject to road access)
2. Round open-top, conical base and support	Clarifier, bio tank, coagulation, PAC holding	Diameter 1 m to 3 m (4 m subject to road access)
3. Square, pyramid base	Primary clarifier, settling tank	Width 1 m to 4 m, height under 4 m
4. Rectangular open-top with partition	PAC chemical holding tank	Width 1 m to 4 m, length up to 8 m, height under 4 m
5. Sludge holding tank	Sludge holding before the filter press	Diameter 1 m to 3 m, horizontal

Heights are kept under 4 m for road transport, with 3 m suggested.



THE FIVE TANK TYPES

ROUND OPEN-TOP TANKS

**TYPE 1****FRP ROUND OPEN-TOP TANK, FLAT BASE**

A round open-top tank with a flat base for holding pre-treatment water, sludge water and other liquids in a wastewater treatment plant. The body is filament wound in one piece, then laminated.

Model	FRP-RT-FB
Size	Diameter 1 m to 3 m (4 m subject to road access); height to your drawing
Base	Level concrete plinth at least 250 mm (10 in) above ground
Level indicator	Optional semi-transparent strip down the side, or a transparent level tube
Standard	BS 4994 / BS EN 13121 and ASTM D3299

**TYPE 2****FRP ROUND OPEN-TOP TANK WITH CONICAL BASE AND SUPPORT**

The cone bottom gathers settled solids at one outlet for easy draw-off, and the tank stands on its own frame. Used as a clarifier, bio tank, coagulation tank and PAC chemical holding tank.

Model	FRP-RT-CB
Size	Diameter 1 m to 3 m (4 m subject to road access)
Support	Four-leg stand: bare mild steel, FRP-laminated mild steel or pultruded FRP
Fittings	Side nozzles, cone-bottom outlet, lifting lugs
Standard	BS 4994 / BS EN 13121 and ASTM D3299



THE FIVE TANK TYPES

SQUARE AND RECTANGULAR TANKS

**TYPE 3**

FRP SQUARE TANK WITH PYRAMID BASE (PRIMARY CLARIFIER)

A square body over a pyramid-shaped bottom. Solids settle into the point and leave through one outlet, making a compact primary clarifier or settling tank.

Model	FRP-ST-PB
Size	Width 1 m to 4 m; height under 4 m, 3 m suggested
Support	Bare mild steel, FRP-laminated mild steel or pultruded FRP
Fittings	Outlet box, bottom outlet, lifting lugs
Standard	Designed to BS 4994 / BS EN 13121

**TYPE 4**

FRP RECTANGULAR OPEN-TOP TANK WITH MILD STEEL SUPPORT AND PARTITION

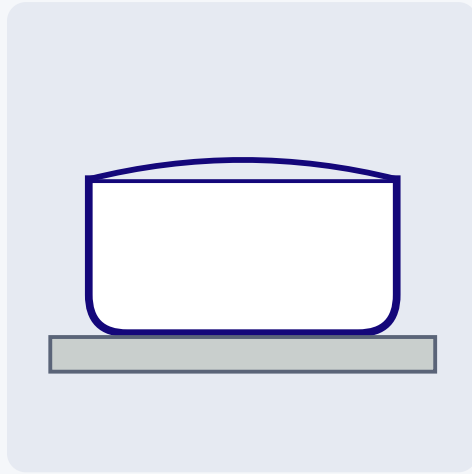
A rectangular open-top tank split into compartments by an FRP partition and raised on a steel stand. Customers often order it as a PAC (poly aluminium chloride) chemical holding tank.

Model	FRP-RECT-P
Size	Width 1 m to 4 m, length up to 8 m; height under 4 m, 3 m suggested
Support	Mild steel stand, bare or FRP-laminated, or pultruded FRP
Fittings	Side nozzles, drain outlet
Standard	Designed to BS 4994 / BS EN 13121



THE FIVE TANK TYPES

SLUDGE HOLDING TANK



TYPE 5

FRP SLUDGE HOLDING TANK

A horizontal round tank that holds sludge from the treatment process, for example while it waits to go through the filter press.

Model	FRP-SHT
Size	Diameter 1 m to 3 m (4 m subject to road access); length to your drawing
Support	Level concrete plinth at least 250 mm (10 in) above ground
Standard	BS 4994 / BS EN 13121 and ASTM D3299

EXAMPLE CAPACITIES

TYPICAL SIZES IN LITRES

ROUND TANKS (TYPES 1 AND 2)

Diameter	Height or straight wall	Volume
1 m	1 m	about 790 L
2 m	2 m	about 6,300 L
3 m	3 m	about 21,200 L

SQUARE PYRAMID BASE (TYPE 3)

Plan size	Straight wall	Volume
1 m x 1 m	1 m	about 1,000 L
2 m x 2 m	2 m	about 8,000 L
3 m x 3 m	2.5 m	about 22,500 L

RECTANGULAR (TYPE 4)

Plan size	Height	Volume
2 m x 1 m	1.5 m	about 3,000 L
4 m x 2 m	2 m	about 16,000 L
8 m x 4 m	3 m	about 96,000 L

SLUDGE HOLDING (TYPE 5)

Diameter	Length	Volume
1.5 m	3 m	about 5,300 L
2 m	4 m	about 12,600 L
3 m	6 m	about 42,400 L

Gross volumes, approximate and for guidance only. For cone and pyramid tanks the volume shown is above the cone or pyramid. Every tank is built to your sizes.



SIZE YOUR OWN TANK

TRY THE ONLINE VOLUME CALCULATOR

Scan to open the calculator in our online deck. Pick round, square, rectangular or horizontal sludge tank, slide the sizes, and see the volume in litres. Or go to chemicaltank.muifatt.com.my, slide 6.



RESIN SELECTION

MATCHED TO WHAT THE TANK HOLDS

STANDARD

GP RESIN

Orthophthalic polyester. The resin we use for cold water tanks. For water and mild liquids. Working temperature 25 to 40°C.

CHEMICAL GRADE

ISO RESIN

Isophthalic polyester. A premium polyester with good chemical resistance and strong physical properties.

SEVERE CORROSION

VINYL ESTER

For most acids and alkalis. About 40 to 75°C, depending on the chemical. Ask us to confirm.

HYBRID

VINYL ESTER INSIDE, GP OUTSIDE

Vinyl ester on the wet side for chemical resistance, GP on the outside for economy.

EXTRA CORROSION BARRIER

A resin-rich inner layer with polyester veil can be added on the wet side for a better corrosion barrier.

How we choose: tell us the chemical, its concentration and its temperature. We recommend the resin and the inner layer.

MATERIAL STRENGTH

SAME FRP LAMINATE AS OUR MUI TANK

Round tank bodies are filament wound, then laminated. Square and rectangular tanks are hand laid up on a wooden mould. GP laminate test results (Mui Tank):

Property	Result	Limit
Tensile strength (MPa)	103.0	70 min
Bending strength (MPa)	182.4	100 min
Bending modulus (MPa)	7,906	6,000 min
Water absorption (%)	0.15	1.0 max
Lap shear strength (MPa)	11.03	7.0 min



OPTIONS AND STANDARDS

FITTINGS, TESTING AND WARRANTY

Design standard	BS 4994 / BS EN 13121 for all tanks; ASTM D3299 for filament wound round tanks. Engineering calculation on request.
Nozzle flanges	Standard off-the-shelf HDPE flanges. FRP flanges on request.
Support stands	Bare mild steel, mild steel laminated with FRP, or pultruded FRP structure
Accessories	Cover (optional), fiberglass ladder, railing
Level indicator	Semi-transparent strip down the side, or a transparent level tube
Partitions	FRP walls that split one tank into compartments
Lifting lugs	Built-in lugs for safe lifting by crane
Leak test	Water-fill leak test on request
Warranty	1 year standard. Extended warranty on request.

HANDLING AND INSTALLATION

RULES FOR A LONG TANK LIFE

PLINTH

Every tank, or its stand, sits on a level concrete plinth at least 250 mm (10 in) above ground, free of stones and debris.

LIFTING

Lift only when empty, with slings on the lifting lugs. Never lift by pipes or fittings.

PIPEWORK

Support every connecting pipe and valve on its own steel or concrete footing.

FITTINGS

Do not overtighten or knock nozzles. Use rubber or plastic washers and no putty.

HEAT

Keep the tank away from heaters, light bulbs and other heat sources.

PROTECTION

Fence the area so the tank is not struck by hammers, spanners or sharp tools.



HOW TO ORDER

SEND US YOUR TANK DRAWING. WE QUOTE.

01

Send your drawing or sizes, and what the tank will hold.

02

We recommend the resin and send you a quote.

03

We build your tank in 7 to 14 working days, subject to the production schedule.

04

We deliver across Peninsular Malaysia. Sabah and Sarawak through a freight agent.

WHAT TO TELL US FOR A QUOTE

- The chemical or liquid, its concentration and its temperature
- Tank shape and size, or your drawing
- Nozzle sizes and positions
- Support type: bare mild steel, FRP-laminated mild steel or pultruded FRP
- Options: cover, ladder, railing, level indicator, FRP flanges
- Leak test, engineering calculation or extended warranty, if needed
- Delivery site

WHO USES THESE TANKS

- Wastewater treatment plants
- Sewage treatment plants
- Chemical plants and factories
- Water treatment contractors

MANUFACTURER

Y.T. Fibreglass Industries Sdn Bhd, the manufacturing subsidiary of Mui Fatt, Port Klang.



COMPANY CERTIFICATIONS

QUALITY SYSTEM AND PRODUCT CERTIFICATES



CERTIFICATE OF REGISTRATION

The management system of certificate number: 265501

Mui Fatt Marketing Sdn Bhd
Y.T. Fibreglass Industries Sdn Bhd

Lot 17993, Jalan Pengkalan Nelayan, Telok Gong, Port Klang, Selangor Darul Ehsan, 42000, Malaysia

has been assessed and certified as meeting the requirements of:

ISO 9001:2015

Manufacturing of Advance Composite & Industrial Products

Further certificates regarding this scope of this certificate and the applicability of requirements may be obtained by consulting this center.

ANAB
ACCREDITED
CERTIFICATION BODY

Initial Certification Date: Thursday, January 11, 2007
Current Cycle Start Date: Friday, September 27, 2024
Latest Issue Date: Friday, October 3, 2025
Expiry Date: Sunday, September 26, 2027
Subject to annual assessments

Certification Structure: Single

Authorized by:


Chief Executive Officer

amtivo
Certificate issued by Amtivo (USA) Inc.
Certification is conditional on maintaining the required performance standards throughout the certified period of registration.
Amtivo (USA) Inc. 7502 W. 80th Avenue, STE. 223 Arvada, Colorado 80003-2328, USA

ISO 9001:2015

Issued by Amtivo to Mui Fatt Marketing Sdn Bhd and Y.T. Fibreglass Industries Sdn Bhd. Scope: manufacturing of advance composite and industrial products.



No Lesen : PC002925
Licence No :

LESEN PENSIJILAN BARANGAN
Product Certification Licence

SIRIM QAS International Sdn. Bhd. dengan ini menganugerahkan kepada
SIRIM QAS International Sdn. Bhd. hereby grants to

Y.T. FIBREGLASS INDUSTRIES SDN. BHD.
LOT 17993, JALAN PENGKALAN NELAYAN,
TELOK GONG
42000 PORT KLANG
SELANGOR, MALAYSIA

LESEN untuk menggunakan Tanda Pensijilan di atas barangan
a license to use the Certification Mark on

FIBREGLASS WATER TANKS

Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan
as complying with

MS 1241 : 2011


Ta. Md. Adha bin Katni @ Rahmat
Ketua Pegawai Eksekutif
Chief Executive Officer
SIRIM QAS International Sdn. Bhd.

SIRIM QAS International Sdn. Bhd.
(SIRIM QAS International Sdn. Bhd.)
1, Persiaran Tropic Garden,
Bukit Jalil, 57000 Kuala Lumpur,
Kuala Lumpur, Malaysia
Tel: 603-2255 8800
Fax: 603-2255 8801
Email: sirim@sirim.gov.my

Tarikh Mula Pensijilan : 21 April 2017
Certified Since : 21 April 2017
Ben Selatunga : 21 April 2017
Ummi Laili : 21 April 2017

Tarikh Dikembalikan : 18 April 2026
Issue Date : 18 April 2026
No. Seri : 120564
Seria No :

https://www.sirim.gov.my/2017/04/21/

SIRIM QAS product certification

Y.T. Fibreglass Industries Sdn Bhd.
Fibreglass water tanks to MS 1241:2011.



NO. Sijil (Certificate No.)
SPAN/PA0141-2024

SURUHJAJAYA PERKHIDMATAN AIR NEGARA
SJIL PERAKUAN PENDAFTARAN PEMBEKAL
(SUPPLIER REGISTRATION CERTIFICATION)

Adalah dengan ini dipersetujui bahawa syarikat dan produk seperti yang tertera di bawah telah berdaftar dengan Suruhjajaya Perkhidmatan Air Negara bagi kegiatan industri perkhidmatan air di negeri-negeri Semenanjung Malaysia serta Wilayah Persekutuan Putrajaya dan Labuan sahaja.

(This is to certify that the following company and product have been registered with Suruhjajaya Perkhidmatan Air Negara to be used in the water service industry in Peninsular Malaysia and Federal Territory of Putrajaya and Labuan only.)

No. Rujukan Pendaftaran (Reference of Registration No.) : 1020240506049130
Nama Syarikat Pembekal (Name and Address of Supplier) : Y.T. FIBREGLASS INDUSTRIES SDN. BHD., LOT 17993, JALAN PENGKALAN NELAYAN, TELOK GONG, SELANGOR DARUL EHSAN, 42000 KLANG, SELANGOR DARUL EHSAN

MAKLUMAT PRODUK ATAU SISTEM (PARTICULARS OF PRODUCT OR SYSTEM)

Kategori (Category)	A- STORAGE OF WATER
Nama Produk atau Sistem (Product or System Name)	STORAGE CISTERN / TANK
Terdahil Produk atau Sistem (Product or System Description)	Model : Sisi Rujuk pemrosesan model dan spesifikasi di lampiran
Jenama (Brand Name)	MF
Plat (Standard)	MS 1241:2011
Registron (Applicator)	SISTEM BEKALAN AIR
Nama dan Alamat Pemilik (Name and Address of Manufacturer)	Y.T. FIBREGLASS INDUSTRIES SDN. BHD., LOT 17993, JALAN PENGKALAN NELAYAN, TELOK GONG, SELANGOR DARUL EHSAN, 42000 KLANG, SELANGOR DARUL EHSAN
Nama dan Alamat Principal (Name and Address of Principal)	Y.T. FIBREGLASS INDUSTRIES SDN. BHD., LOT 17993, JALAN PENGKALAN NELAYAN, TELOK GONG, SELANGOR DARUL EHSAN, 42000 KLANG, SELANGOR DARUL EHSAN
Sah Selenggara (Date)	07 MAY 2024

(All yang dikehendaki adalah tertera dalam 5196507-5196507 AM (Bahagian A) dan 5196507-5196507 KHS02/2 (Bahagian B).
(The Certificate issued is subject to the GENERAL CONDITIONS (Section A) and SPECIFIC CONDITIONS (Section B).)


GATYU H. AHMAD FADZAL BIN ABDUL RAHMAN
KETUA PEGAWAI EKSEKUTIF
Suruhjajaya Perkhidmatan Air Negara (SPAN)

Tarikh Dikembalikan (Issue Date) : 02 MAY 2024

Registered with SPAN

Y.T. Fibreglass Industries Sdn Bhd.
Storage cistern / tank for water, MS 1241:2011.

Scope: the ISO 9001:2015 certificate covers our quality management system for composite manufacturing. The SIRIM certificate and SPAN registration apply to our Mui Tank fibreglass cold water storage tanks only. They do not cover the chemical and wastewater treatment tanks in this catalogue.

Certificate copies are available on request: www.muifatt.com.my/certificate



CONTACT

MUI FATT MARKETING SDN BHD

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Tel +603-3134 3888

Email sales@muifatt.com.my

Web www.muifatt.com.my/category/frp-chemical-and-wastewater-treatment-tanks



MUI FATT

FRP TANKS MADE IN MALAYSIA

Tanks manufactured by Y.T. Fibreglass Industries Sdn Bhd
ISO 9001:2015