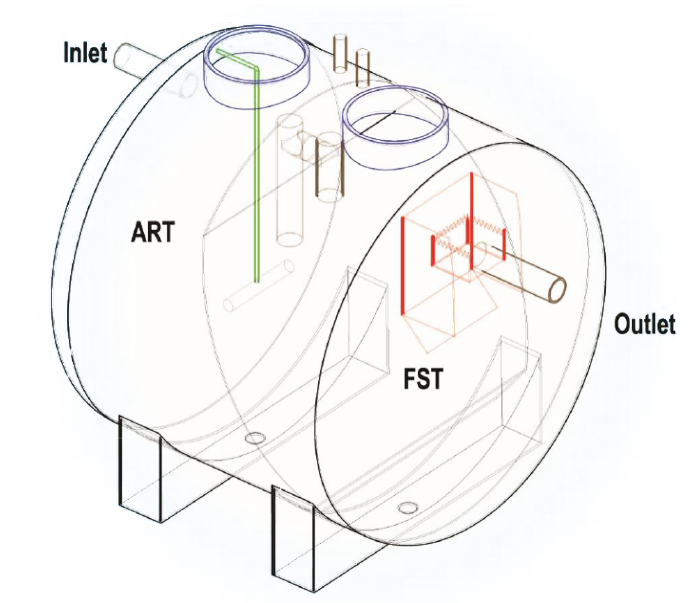


MST FIBRE MECHANICAL SEPTIC TANK

SMALL SEWAGE TREATMENT SYSTEM

Wastewater Treatment



ISOMETRIC VIEW
PROCESS OF UP-FLOW ACTIVATED SLUDGE TREATMENT

Wastewater treatment always calls for sense of responsibilities towards the environment and public health. The "MST" Fibre Mechanical Septic Tank also known as Small Sewage treatment System (SSTS) is the answer for sewage problems and solutions for expensive and constraint area.

"MST" Fibre Mechanical Septic Tank are pre-fabricated units made from Fibre Reinforced Plastics (FRP) are developed to achieved "Standard A" effluent septic tank utilizing anaerobic treatment process supplemented with mechanized chamber aeration using diaphragm blower inducing air into the tank for aerobic process.

WHY US?

MST Fibre Mechanical Septic Tank consists of a lower setting and up chamber aeration zone in the first chamber of the tank and followed by a hybrid clarifier settler which provide both setting and clarifier action. The setting zone acts as sedimentation compartment where all settleable particles and suspended solids are collected and allowed to degrade aerobically at the bottom of the tank. The up chamber aeration zone degrades the bio-degradable substrate aerobically. In this way both anaerobic and aerobic treatment process assist in intended "Standard A" treatment process and the result is an effluent which complied to Standard A" discharge.

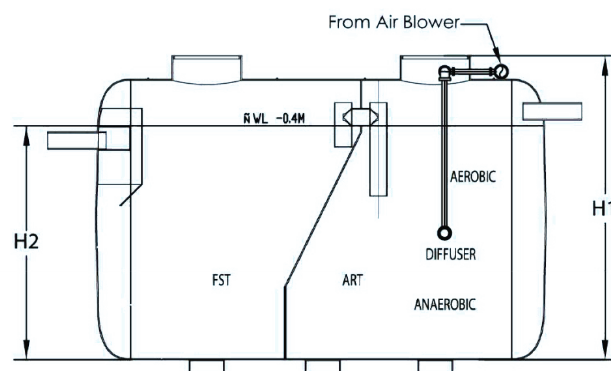
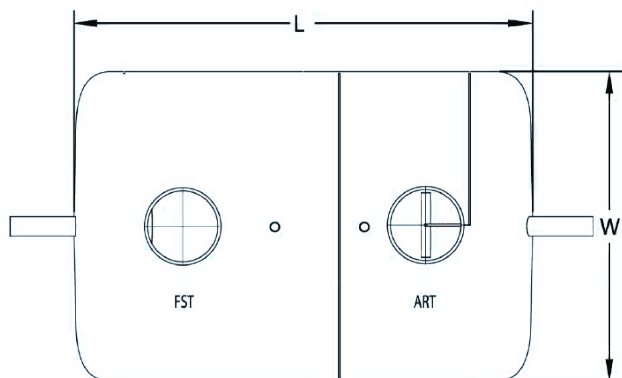
- Treatment to satisfactory effluent standards as stipulated by Department of Environmental (DOE) under "Standard A" of the Environmental Quality (Sewage and Industrial Effluents) Regulations, 1979
- Uniformity in strength and performance.
- Corrosion resistance, water tightness and good temperature insulation.
- Easy to handle, transport and install.
- Aesthetic view and odour free.
- A minimum space required and flexibility to site conditions.
- Operational simplicity and very low maintenance requirements.
- Economical treatment system and cost effectiveness and durability of material.



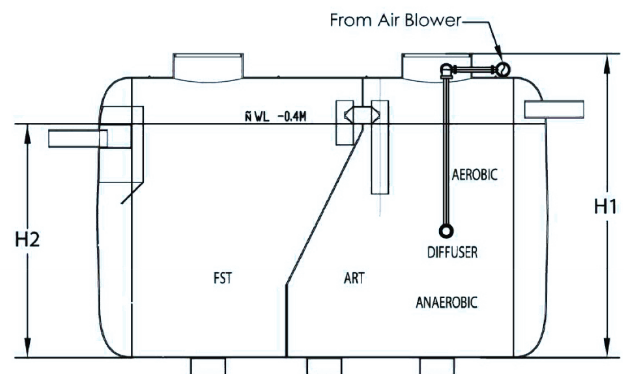
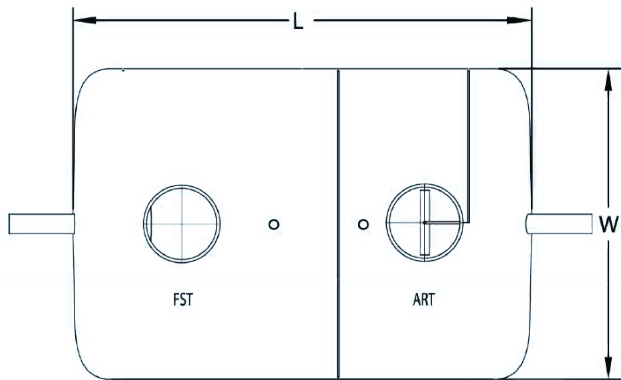
Quality Standard and approval:

All "MST" Fibre Mechanical Septic Tanks are manufactured and complied to:

- National Water Services commission (SPAN)
- Manufactured accordance to MS 1228 : 1991 Code of Practice for Design and Installation.
- Product Certification by SIRIM QAS (International) Sdn Bhd.
- Complied to CAN/CSA-B66-05



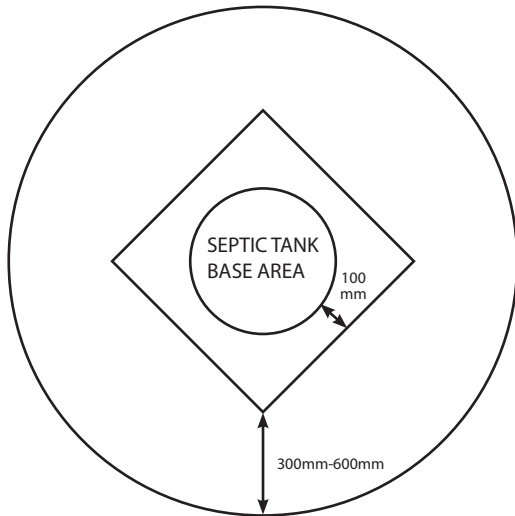
		MODEL				
		MST-40	MST-50	MST-60	MST-70	MST-80
Type		Horizontal				
Process		Upflow Activated Sludge Treatment				
Type of waste		Domestic Waste				
BOD and SS Removal		EQA Standard A				
Desludging Internal	years	Once in 2 years				
Population Equivalent	PE	40	50	60	70	80
		TANK DIMENSION				
Overall Height (H1)	mm	2650	2650	2650	2650	2650
Water Level (H2)	mm	2000	2000	2000	2000	2000
Width(W)	mm	2400	2400	2400	2400	2400
Tank Length	mm	1537	2047	2561	3074	3587
Inlet & Outlet Pipe, UPVC	mmø	150	150	150	150	150
Market Price		25,782	30,079	34,375	38,672	42,266



		MODEL				
		MST- 90	MST-100	MST-120	MST-140	MST-150
Type		Horizontal				
Process		Upflow Activated Sludge Treatment				
Type of waste		Domestic Waste				
BOD and SS Removal		EQA Standard A				
Desludging Internal	years	Once in 2 years				
Population Equivalent	PE	90	100	120	140	150
		TANK DIMENSION				
Overall Height (H1)	mm	2650	2650	2650	2650	2650
Water Level (H2)	mm	2000	2000	2000	2000	2000
Width(W)	mm	2400	2400	2400	2400	2400
Tank Length	mm	4100	5014	5639	6666	7179
Inlet & Outlet Pipe, UPVC	mmø	150	150	150	150	150
Market Price		47,266	51,563	60,157	68,750	73,047

INSTALLATION INSTRUCTION

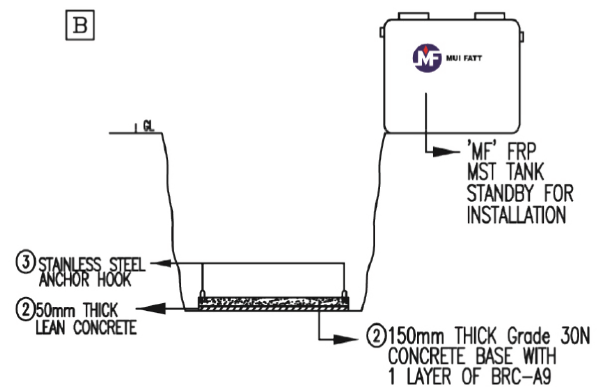
A.



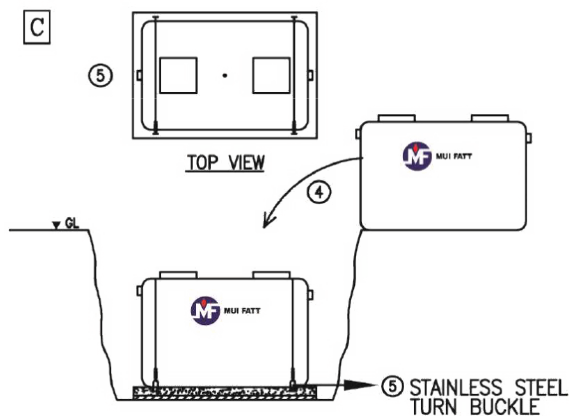
1. Allow for working space of 300mm to 600mm all round the FRP "Mechanical Septic Tank" (MST) Tank when excavating the pit.

2. Construct a 150mm thick grade 30 N concrete base reinforced with one (1) layer of BRC-A9, wire mesh on top of a 50mm thick lean concrete.
3. Four (4) nos. of stainless steel anchor hook 12mm coated in concrete base.

B

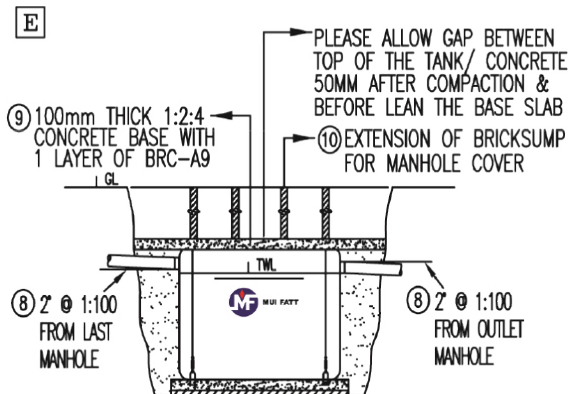
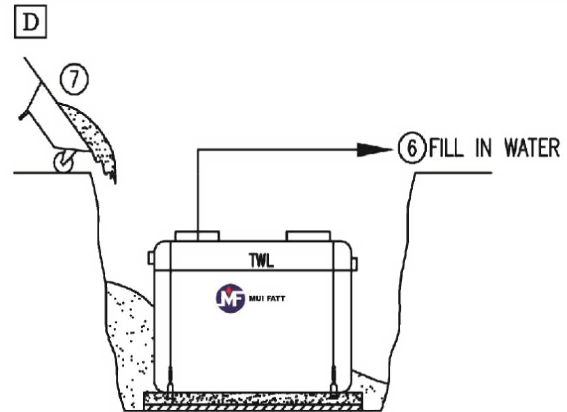


C



4. Unload the FRP "MST" Tank on a well leveled and cured 150mm thick Grade 30N Concrete base reinforced with one (1) layer of BRC-A9 wire mesh.
5. Tie the 20mm stainless steel (SS 304) anchor strap over FRP "MST" Tank and tighten using stainless steel turnbuckle.

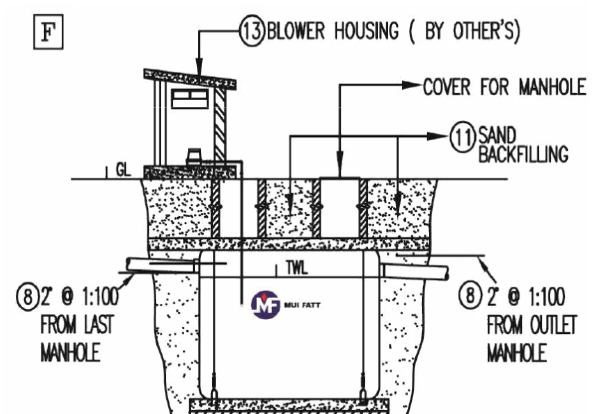
6. Fill in FRP "MST" Tank with water up to top water level.
7. Back fill the space around the "MST" Tank with sand compacted in 150mm layers, up to the opening lid/rim.



8. Make sure the backfills at the inlet and outlet are well compacted and allow for a drop gradient of two(2) degree @ 1:100 for both the inlet and outlet pipes.
9. Lay over the FRP "MST" Tank with a 100mm thick slab, with manhole openings of 1:2:4 concrete reinforced with one layer of BRC-A9 wire mesh.
10. Construct the manhole neck connections with bricks sump up to the specified design platform level.

11. Backfill with sand up to the designed platform level and install the manhole cover.
12. Fill the FRP "MST" Tank with water to full capacity.
13. Blower installation c/w weather proof cover (Blower Housing)

Note: Also do so every time after desludging later on. Please refer to the relevant drawings for the proper way of installation.



WARRANTY TERMS & CONDITIONS FOR FRP "MST" Septic Tanks

All "MST" Fibre Mechanical Septic Tank are warranty strictly against manufacturing defects for a period of 5 years for FRP Series. Standard warranty covers only product workmanship. The manufacturer should not be held responsible if the installation guideline not followed and the warranty shall be void and null.

MARKETING
OFFICE

69-01, JALAN IMPIAN EMAS 22,
TAMAN IMPIAN EMAS,
81300 SKUDAI, JOHOR,
MALAYSIA.

www.joncan-furniture.com

Tel: 07-554 7816

Fax: 07-557 5994

Email: joncanfrp@yahoo.com