



# FIBRE SEPTIC TANK

*Wastewater Treatment System*



*Our environment,  
Our responsibility.*

**APPROVED BY:**  
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APPROVAL NO: KPKT/JPP (03)/7/102(35)

**MANUFACTURE TO:**  
SIRIM MS 1228:1991



Wastewater treatment always calls for a sense of responsibility towards the environment and public health. The MF Fibre Septic Tank Wastewater Treatment System answers this call of the industry as well as building owners.

Designed with the local conditions in mind, MF Fibre Septic Tanks suit all local environments, including coastal and high water-table areas. Manufactured under stringent quality control, strong, durable materials septic tanks operate efficiently even under the harshest conditions.

### Characteristics

MF Fibre Septic Tanks are leakproof and resistant to rust as well as most chemicals contained in soil and sewerage.

The MF Fibre Septic Tank Wastewater Treatment System features an effective anaerobic up-flow filtration system using Plastic as biomedium. Even fine particles and dissolved matter are strained and removed to give wastewater a total treatment. As a result, effluent from MF Fibre Septic Tanks is virtually harmless and odourless and fit for discharge into a public drain. Available in different models, the MF Fibre Septic Tank Wastewater Treatment System is economical and ideal for use in all types of housing units, shop houses, light industrial factories and other buildings.



### Easy handling, transportation and installation

Being a light and compact tank, the MF Fibre Septic Tank Wastewater Treatment System is easy to handle, transport, and install, even with a limited working space. It facilitates easy inspection as well.

### Easy desludging

Easy desludging is made possible through an isolated, direct access to the settling zone of the MF Fibre Septic Tank, as well as a large outlet facilitating attachment of the desludging pipe.

### Maintenance-free

Free of any moving parts or lift pump whatsoever, the MF Fibre Septic Tank is a non-mechanical system requiring virtually zero maintenance. Besides, the up-flow filtration system is, by nature, non-clogging and thus trouble-free.

### Quality standard and approval

All MF Fibre Septic Tanks manufacture to MS 1228:1991, Code of Practice for Design and Installation of Sewerage Systems and are approved by the Director General of Sewerage Services, Ministry of Energy, Water and Communications for use throughout the country. (Approval No. KPKT/JPP(03)/7/102(35))

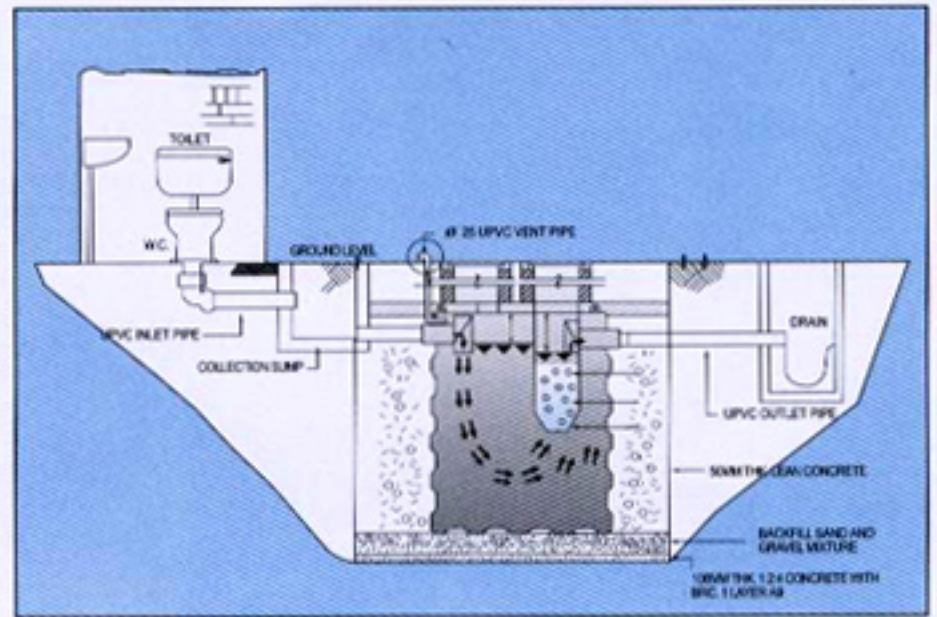
### Product warranty

All MF Fibre Septic Tanks are guaranteed against manufacturing defects for a period of 5 years.

# Installation Instructions

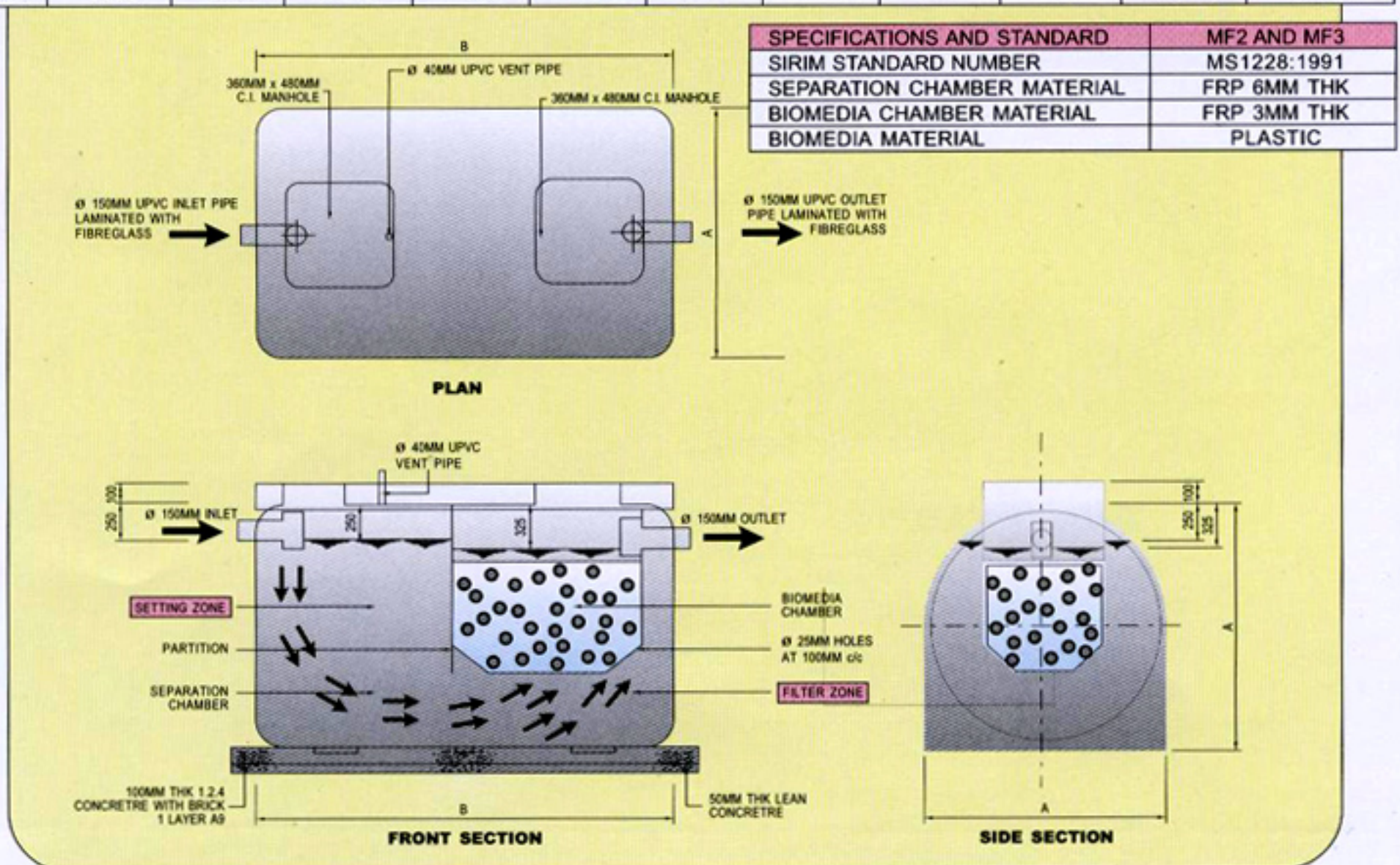
1. Allow for a working space of 300 mm to 600 mm all around the MF Fibre Septic Tank when excavating the pit.
  2. Lay the MF Fibre Septic Tank on a well levelled and cured 100 mm-thick base of 1:2:4 concrete reinforced with one layer of BRC - A9 wire mesh.
  3. Backfill the space around the septic tank with a mixture of sand and gravel, compacted in 150 mm layers, up to the opening lid/rim. Always fill the septic tank with water in equal proportion to the backfills.
  4. Make sure the backfills at the inlet and outlet are well compacted and allow for a gradient of two (2) degrees for both the inlet and outlet pipes.
  5. Lay over the septic tank a 100 mm-thick slab, with manhole openings, of 1:2:4 concrete reinforced with one layer of BRC - A9 wire mesh.
  6. Construct the neck connections with bricks up to the specified level and install the cast iron manhole covers.
  7. Fill the septic tank with water to full capacity.
- Note: Also do so every time after desludging later on.

Please refer to the relevant drawings for the proper way of installation.



## HORIZONTAL TYPE

MODEL	SEPERATION CHAMBER VOL (L)	BIOMEDIA VOL (L)	POPULATION (PERSON)	LENGHT (MM) (B)	DIAMETER (MM) (A)	INFLOW PIPE LEVEL	OUTFLOW PIPE LEVEL	DETENTION TIME (HRS)	OVERFLOW RATE (M <sup>3</sup> /M <sup>2</sup> d)	MAXIMUM FLOW RATE (M <sup>3</sup> /Md)	VENTILATION PIPE
MF2	2200	0.20	5 - 8	1800	1200	250	325	24	1.24	14.39	40 MM
MF3	3600	0.30	9 - 15	2000	1520	250	325	24	1.47	20.70	40 MM



# VERTICAL TYPE

SPECIFICATIONS	MF2	MF3
SEPERATION CHAMBER: VOL (L)	2200	3300
BIOMEDIA CHAMBER: VOL (M <sup>3</sup> )	0.23	0.40
POPULATION (PERSON)	5 - 8	9 - 15
HEIGHT (MM) (B)	1500	1300
DIAMETER (MM) (A)	1200	1520
INFLOW PIPE LEVEL	300	250
OUTFLOW PIPE LEVEL	400	325
DETENTION TIME (HRS)	32	32
OVERFLOW RATE (M <sup>3</sup> /M <sup>2</sup> d)	1.68	2.67
MAXIMUM FLOWRATE (M <sup>3</sup> /d)	14.39	20.70
VENTILATION PIPE	Ø25MM	Ø40MM
SIRIM STANDARD NUMBER	MS1228:1991	MS1228:1991
MATERIAL - SEPERATION CHAMBER	FRP 6MM THK.	FRP 6MM THK.
MATERIAL - BIOMEDIA CHAMBER	FRP 3MM THK.	FRP 3MM THK.
MATERIAL - BIOMEDIA	PLASTIC	PLASTIC

