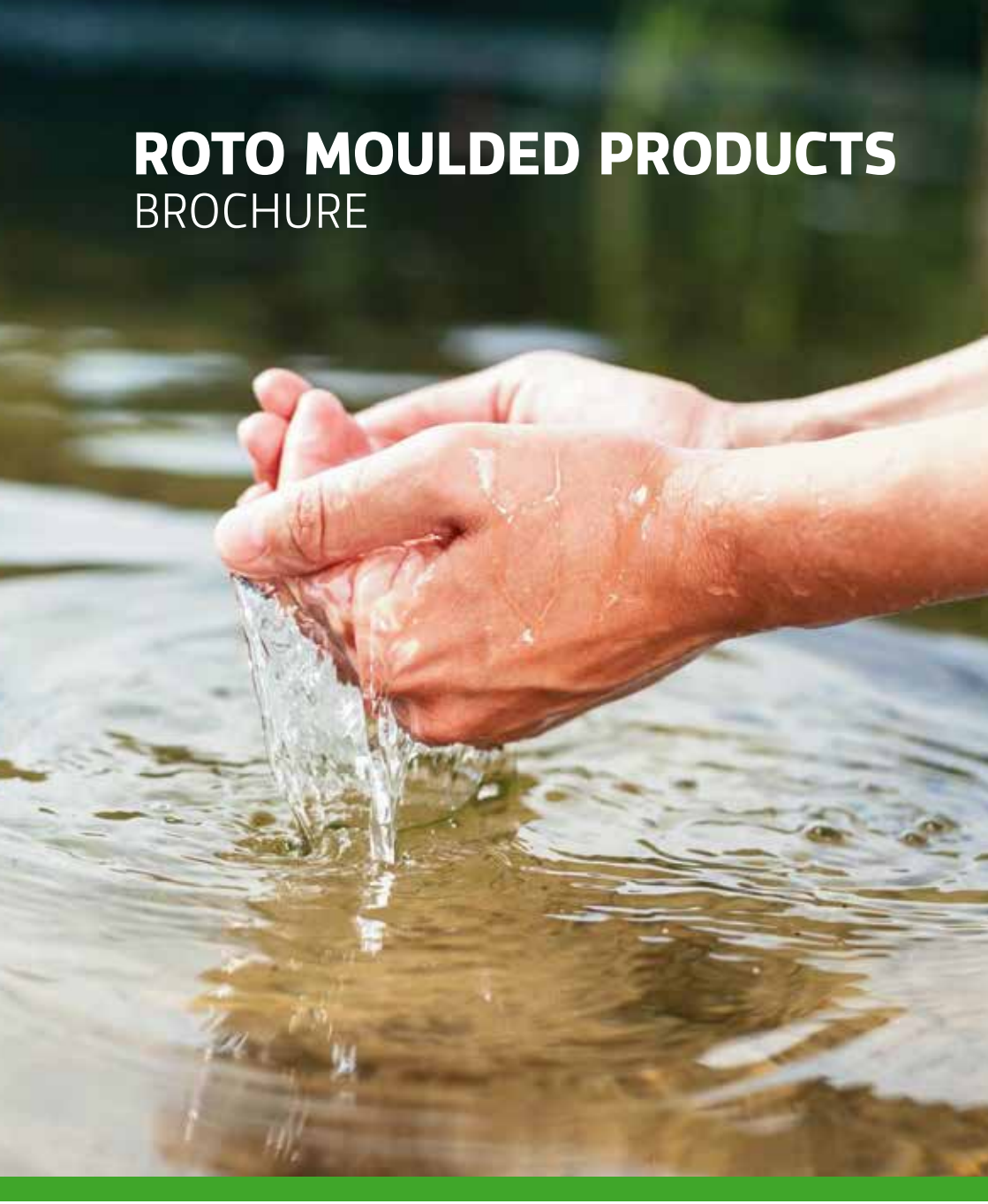
ROTO MOULDED PRODUCTS
BROCHURE



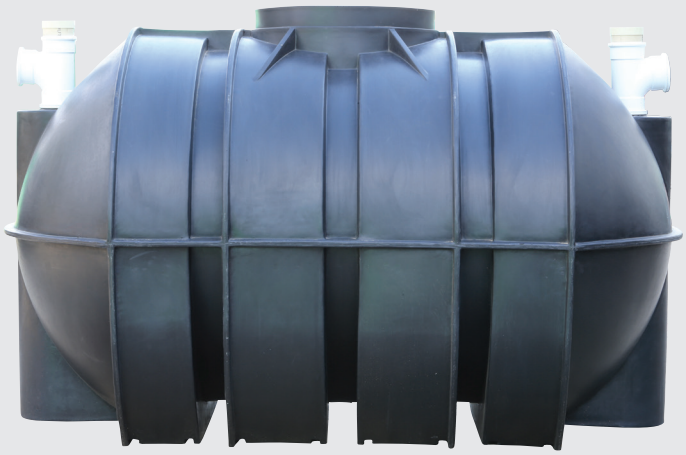
FLO-TEK®

Flow better with us

www.flotekafrica.com

FLO-TEK®

Flow better with us



Septic Tanks

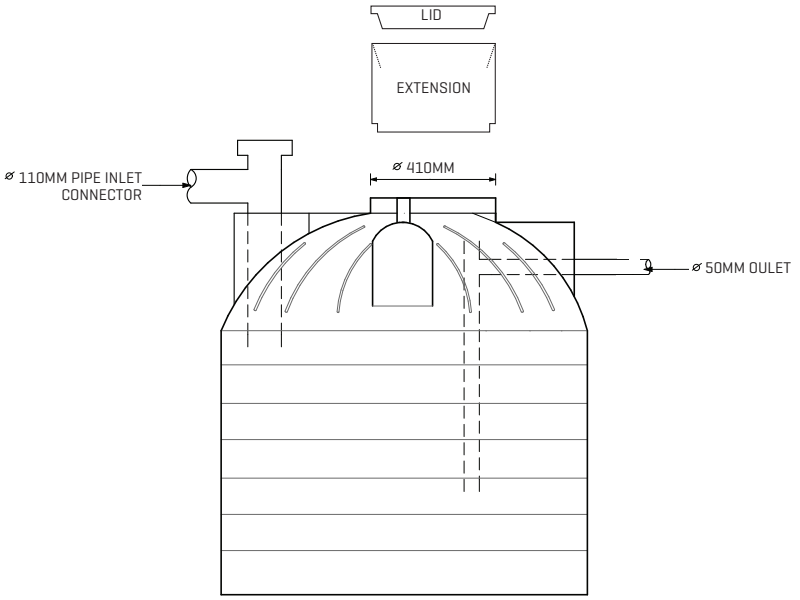
FEATURES

- **Made of 100% Virgin polyethylene**
- **Easy handling, installation and maintenance.**
- **For sewerage water only.**
- **Chemical and gas resistance.**

INSTALLATION GUIDE

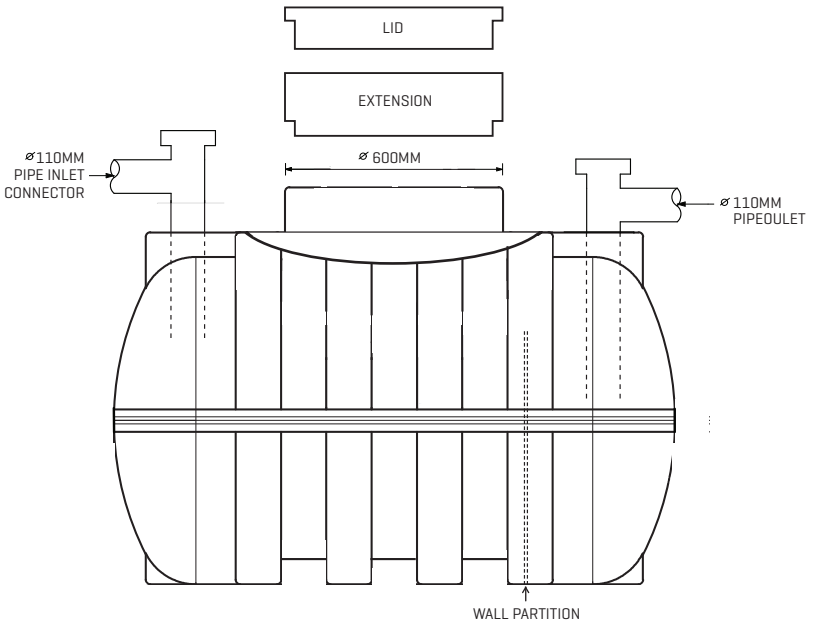
1. Septic tank to be installed in natural soil only.
2. Prepare base layer of 150 mm in the hole for septic tank. Compact well (use hand stamped) and level it.
3. Place the tank in the hole and fill with the water.
4. Fill the tank surrounding with cohesive soil or soil-cement mixture (10 part soil+ 1 part cement). Make 300 mm layers and keep compacting. Saturate each layer with water. Repeat the procedure all the way to top.
5. Use FLO-TEK pipes and fittings for pipe connections.
6. Place bacteria starter pack into FLO-TEK septic tank to start fermentation process.

VERTICAL SEPTIC TANK



FRONT VIEW

HORIZONTAL SEPTIC TANK

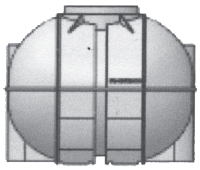


FRONT VIEW

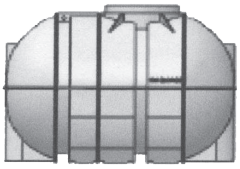
DISCLAIMER: ABOVE DRAWINGS SHOW ONLY COMPONETS AND FUNCTIONALITY OF FLO-TEK SEPTIC TANKS. AVAILABLE PRODUCTS MAY DIFFER FROM THE ABOVE

SEPTIC TANK CAPACITY

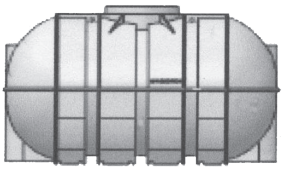
SINGLE VERSION



2000L

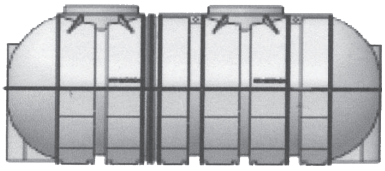


2500L

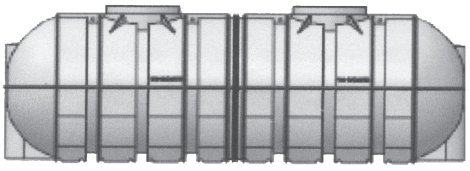


3000L

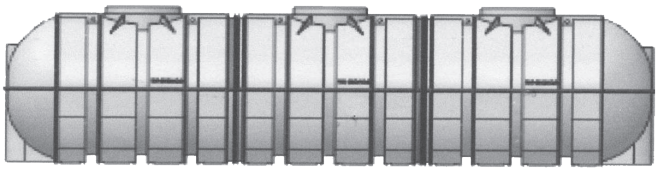
WELDING VERSION



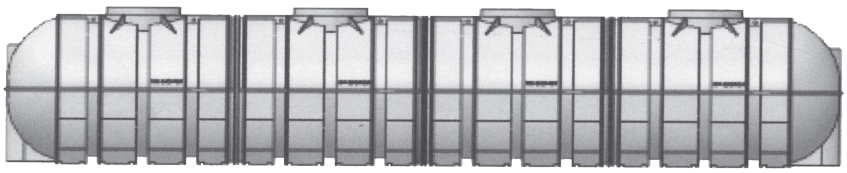
4300L



5500L



8000L



10000L

TYPE	DIMENSIONS (MM)		THICKNESS (MM)	DOMESTIC USAGE
VERTICAL SEPTIC TANKS	TOTAL HEIGHT	DIAMETER		
Septic Tank 1450 liter	1260	1320	8-9	4 -6 PERSON
Septic Tank 1750 liter	1610	1660	8-9	6-8 PERSON
Lid	95	480	4-5	N/A
Extension	300	480	8-9	N/A

ASSUMED FLOW RATE 150-200 L PER PERSON / DAY

TYPE	DIMENSIONS (MM)			THICKNESS (MM)	DOMESTIC USAGE
HORIZONTAL SEPTIC TANK	TOTAL HEIGHT	WIDTH	LENGTH		
Septic Tank 2000 liter	1430	1580	1550	9-10	4 -6 PERSON
Septic Tank 2500 liter	1430	1580	1965	9-10	6-8 PERSON
Septic Tank 3000 liter	1430	1580	2380	9-10	6-12 PERSON
Septic Tank 4300 liter	1430	1580	3230	9-10	12-15 PERSON
Septic Tank 5500 liter	1430	1580	4060	9-10	15-25 PERSON
Septic Tank 8000 liter	1430	1580	5740	9-10	25-35 PERSON
Septic Tank 10000 liter	1430	1580	7420	9-10	35-45 PERSON
	TOTAL HEIGHT	WIDTH	DIAMETER		
Lid	90	N/A	665	8-9	N/A
Extension	250	N/A	610	8-9	N/A

ASSUMED FLOW RATE 150-200 L PER PERSON / DAY

OUR NETWORK

Botswana | South Africa | Angola | Namibia | Zambia

Botswana
Tel: +267 533 2180 | Fax: +267 533 3146

South Africa
Tel: +27 11 316 6891 | Fax: +27 11 316 6896

Angola
Tel: +244 2222 90662 | Fax: +244 2222 90880

Namibia
Tel: +264 61 244239 | Fax: +264 61 232339

Zambia
Tel: +260 211 244673

www.flotekafrica.com

SABS ISO 9001

BOBS

05/2018

FLO-TEK®
Flow better with us

www.flotekafrica.com

INSTALLATION INSTRUCTIONS: NORMAL DRY CONDITIONS IN LOAMY SOIL

Requirements:

The position of the excavation should be situated in such a way as to allow the easy connect ion of the incoming sewer to the inlet of the septic tank, and the link up of the outlet to the effluent disposal system.

Guidelines:

- Depending on the volume of the tank used, excavate a hole approximately 400mm in bigger than the size of the tank. [a maximum depth of 0.5 m fill above the inlet of the septic tank]
- The polyethylene lid of the septic tank should be filled with concrete while standing on a flat surface and then allowed to cure.
- When the excavation is complete, ensure that the base of the excavation is undisturbed, horizontal and sufficiently hard to form a solid foundation for the septic tank when full.
- Lower the tank into position in the hole ensuring that the tank is centrally positioned, correctly aligned and leveled. The Outlet pipe faces the soak pit and the inlet pipe swivel is ensuring a straight connection.
- The tank must be filled with water at the same time of backfilling and compacting the soil in order to balance the pressure when compacting. Only selected inert granular material should be used as backfill and should be placed in 250mm layers compacted to 90% Mod AASHO. It is particularly important to note that excavated material consisting of rock, peat or clay is not used as backfill material.
- When the level of the backfill reaches the underside of the inlet pipe invert, the pipe connections to inlet and outlet should be made.
- The lid should then be placed in pos1ition, and there maiming 0.5m of selected inert granular backfill material should be placed over the inlet and out let pipes until flush with the finished level of this septic tank.
- In order to comply with the National Building Requirements and Building Standards Act, an inspection chamber should be placed within 2m of the inlet to the septic tank. In the event of a blockage occurring upstream of the tank, any matter causing such blockage can then be removed before it enters the system.

INSTALLATION INSTRUCTIONS: ABNORMAL CONDITIONS:

Where abnormal soil conditions occur such as vehicular traffic, rock, clay or high water table is enuciated the final design rests with the engineer or architect on the project or when backfill above lid exceeds 1000mm. The position of the excavation should be situated in such a way as to allow the easy connection of the incoming sewer to the inlet of the septic tank and the link up of the outlet to the effluent disposal system.

Guidelines:

As per guide lines for normal dry conditions except for base and backfill hereafter described

- Base: If the base of the excavation is unsuitable as a foundation for the tank it is advisable to over excavate and fill with either a soilcrete mix or concrete.
- Backfill: Over excavate the hole and remove excavated material from site. Backfill wilt either, an inert granular material a soilcrete mix of 5% cement to 95% inert granular material or cement slurry. The layers of backfill should not exceed 250mm and should be compacted to 90% Mod, AASHO. It is particularly important to note that excavated material, consisting of rock, peat or clay is NOT USED as backfill material.
- Once the backfill material has been selected, follow the same procedures of installation as for normal dry conditions.