



Kuwait International Advanced Industries Company (K.S.C.C.)
الشركة الكويتية العالمية للصناعات المتطورة (ش.م.ك.م.)



HDPE

Underground Tank

Liquid Applications

THE COMPANY

First HDPE Corrugated Factory in Kuwait!

Kuwait International Advanced Industries K.S.C.C. (KAI) was established in 1998. We at KAI manufacture an extensive range of products for both industrial and domestic applications. Having been a key player in the market for over a decade, KAI's products continue to lead by example in keeping up to date with the increasing demands of the modern world. Over the years, our 73,000m² facility has produced an increasing number of different products to cater to and satisfy the majority of our customer demands. Initially exclusively a pipe production facility, KAI now manufactures a wide array of plastic products ranging from varying piping and ducting applications, public and residential manhole systems, water storage tanks, road safety barriers, and other custom fabricated products and solutions.

Locally manufactured, our products are a result of the latest technology and machinery and are made of the highest quality of raw materials. By adhering to the technical requirements of internationally recognized standards, our products enjoy a proven regional track record of excellence.



OUR REACH



KAI's ever expanding reach caters to both emerging and developed markets throughout most of the MENA region. KAI's aggressive development plans are consistently seeking feasible opportunities for expansion. Our superior brand, coupled with our flexible marketing strategy, yield a guaranteed result of customer satisfaction.

UNDERGROUND STORAGE TANK

WHAT IS AN UNDERGROUND TANK?

KAI high-density polyethylene (HDPE) underground tanks are designed to be a key part of both household and commercial septic systems. Septic systems treat sewage waste by using naturally occurring bacteria to treat the waste. Septic systems however are not the only possible use for these tanks as they can be used to store chemicals, and brackish/potable water.

WHY CHOOSE KAI?

With the advancement of technology the days of requiring metal and concrete tanks are long gone. Our state of the art machinery produces the best HDPE underground tanks on the market. The combination of durability and ease of use make these the easy choice.

KAI underground tanks are fabricated in custom sizes to match the different sewage loads of various households.

BENEFITS OF HDPE UNDERGROUND TANK

Polyethylene tanks are significantly cheaper and easier to install.

- Corrosion proof; unlike metal they will not rust
- Light weight and significantly easier to install
- Watertight, and hold in odors with no leakage
- More resistant to tree roots and cold temperatures
- Easier to repair if they become damaged
- Manhole extensions are easy to install

APPLICATIONS

- Sewage
- Chemicals
- Brackish Water
- Fire Reservoir



STANDARDS AND SPECIFICATIONS



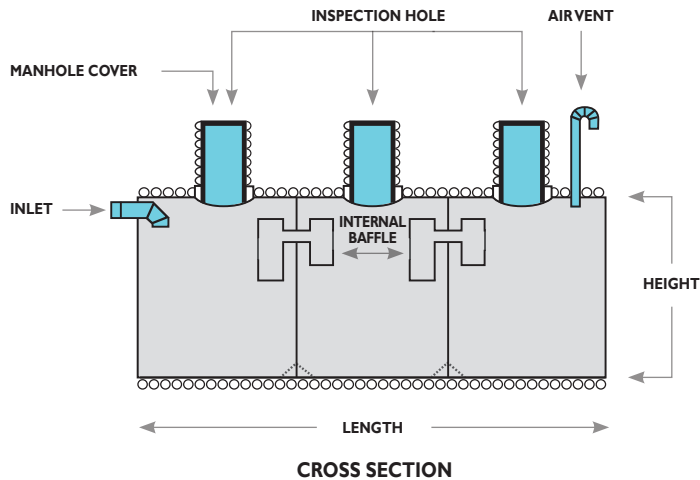
To ensure the satisfaction of the end user, we at KAI strictly adhere to internationally recognized standards. Below are the standards we follow.

- CAN/CSA-B66-05
- Welding according to standard DVS 2207-4

While we are ready to customize a tank upon request, we also have these three standard sizes. The chart below is designed to give you a better understanding of the dimensions of the tank and its accessories.

CAPACITY (USG)	LENGTH (mm)	HEIGHT (mm)		INLET (mm)	AIR VENT (mm)	INSPECTION HOLE (mm)
		ID	OD			
3,000	6,200	1,600	1,850	200	110	600
5,000	6,200	2,000	2,248	200	110	600
7,000	6,200	2,400	2,648	200	110	600

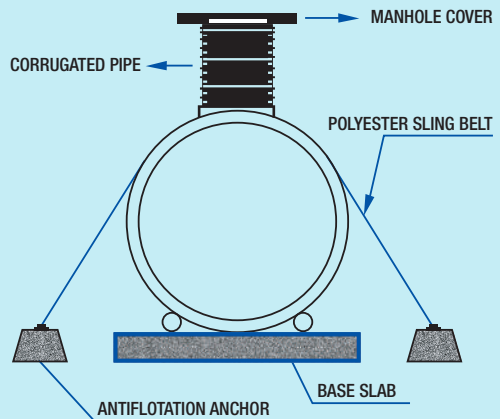
* 1 USG = 3.785 litres



INSTALLATION

- As far away from buildings as possible
- Good road access for tank-emptying vehicles to operate
- Trench should be similar size to the tank
- Flat surface under the tank with no sharp rocks
- We recommend that piping connection is made at least 18 inches below ground level
- Fill with water till it flows into the soak-away pit
- Backfilling shall be conducted in layers of 250 mm thick one at a time
- During backfilling, the soil, sand or aggregates shall be uniformly filled around the tank. The practice of backfilling on one side at a time shall be avoided altogether
- Underground tanks shall be anchored or strapped to the base of the concrete slab prior to backfilling, to resist floating.
- Manhole cover/inspection hole and the air vent are to be slightly above ground.

FOUNDATION DETAILS



KEY COMPONENTS

INLET:

The access point where the material is entering the tank.



INTERNAL BAFFLE:

Also made of HDPE plastic it is used as a method of allowing liquid to flow between compartments



AIR VENT:

Necessary for dealing with gasses within the tank in a safe manner



MANHOLE COVER:

Used to cover the Inspection Hole(s) and keep the tank sealed



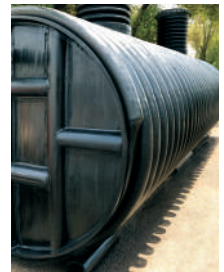
INSPECTION HOLE:

A repurposed corrugated pipe designed to allow easy access and provide the necessary structural integrity



STRUCTURED WALL:

The corrugations on the outer wall absorb pressure from the surrounding environment keeping the contents undisturbed



SUPPORT SYSTEM:

Additional Corrugations added to the sides to increase structural integrity





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Our sales and design teams look forward to helping you with any inquiries you may have.

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