



PREFABRICATED
HDPE STORAGE
& CISTERN TANKS



UP TO 3,000 DIAMETER

- Sewerage Tanks
- Irrigation Water Tanks
- Stormwater Retention
- Detention Tanks
- Industrial Tanks
- Water Treatment Tank
- Potable Water Reservoir
- Scrubber
- Agricultural Product Silos
- Chemical Storage Tanks
- Food Storage
- Overflow Tanks
- Silos
- Waste/Septic Tank



Introduction



FEAPC manufactures robust HDPE / PP storage tanks and reservoirs that serve the storage needs of the housing, municipal and industrial sector. Individual tanks capacity range from 1000 Liters to 100,000 liters or above. Tank units can be assembled in series to form reservoirs with total capacity exceeding 500,000 liters depending on space availability. Tanks / Reservoirs can be installed above the ground or underground and are provided with required inlet, outlet pipe, manhole entry, vent pipes, and PE / PP ladder (if required).

The versatility of FEAPC's HDPE / PP Tanks makes them the ideal choice for the storage of water and a diverse range of chemicals, grains, effluents and corrosive materials. The maintenance free material offers following advantages over the conventional types (e.g., Concrete, Steel, GRP):

DETAILS



Tank Material	Polyethylene or Polypropylene.
Diameter	1000 mm - 3000 mm
Tank Volume	up to 30,000 liter capacity
Length	1000 mm - 4000 mm

About Duratank

The search for more durable and reliable materials brought storage and process tanks made of High-Density Polyethylene in the center stage over the years. Duratank meets these standards because it is helically extruded in state-of-the-art equipment in HDPE or PE. Duratank can be installed vertically or horizontally due to the outstanding material properties of HDPE or PE.

These huge cylinders are made from PE 100. Moreover, profiled wall structure can be produced to increase the stiffness for horizontal tanks or to provide a double wall system with leakage control for chemical tanks.

Why Duratank vs. Concrete Tanks

DURABLE

Duratank is durable because it is made from high-grade High Density Polyethylene or Polypropylene, made to handle aggressive liquids like acids, lyes and sensitive materials like food.

SAFE

HDPE is considered a low-risk hazard plastic with zero risk of leaching so it is safe for potable water and the environment.

CUSTOM- MADE

Aside from standard sizes, Duratank is customizable depending on the purpose and design. Duratanks are available either in vertical or horizontal form.



Advantages of Duratank



PRE-FABRICATED EASY TO INSTALL AND CUSTOM BUILT

Concrete tanks are much heavier than plastic tanks and usually require the assistance of a crane to be moved onto your property. Plastic tanks, on the other hand, are lightweight and can be moved by hand, which is advantageous if your property has hilly or rough terrain.



WEATHER RESISTANT

UV-inhibitor properties of HDPE shields the tanks from degradation caused by sunlight. Likewise, Duratank is able to withstand strong rains.



LIGHTWEIGHT & EASY HANDLING

Because of its material composition, Duratank is lightweight compared to steel or metal tanks used for the same purpose. Hence, Duratank is easy to handle and easy to transport.



SEAMLESS & LEAKPROOF

Made from HDPE material, Duratank is seamless and leak-proof. No waterproofing is needed.



RANGE- 1000L TO 30,000L STORAGE CAPACITY

With a storage capacity ranging from 1000 liters to 30,000 liters, Duratank is the most ideal solution for tank storage needs.



ABLE TO WITHSTAND LOADS/TRAFFIC

The main advantage of plastic tanks over concrete tanks is its ability to withstand loads/traffic.



POTABLE WATER COMPLIANT

Concrete tanks have a zinc wall that, while not harmful to health, can affect the taste of drinking water. Lead levels in some steel tanks have also been found to be dangerous. Many people are hesitant to take this risk with their drinking water. Plastic tanks are made of food-grade safe, BPA-free polyethylene plastic, making them completely safe for storing drinking water. In addition, Duratank is NSF standard compliant.



LONG LIFE 50 YEARS GUARANTEE

Being chemically inert, DuraTank is guaranteed to last for 50 years.



CORROSION RESISTANT

One of the advantages of Duratank being made from HDPE is its resistance to corrosion.



100 % MAINTENANCE FREE

Double Wall Duratank

Duratank can be installed aboveground and underground. Depending on the application and specification, you can use a double wall Duratank to control leakage. Instead of constructing an

Application

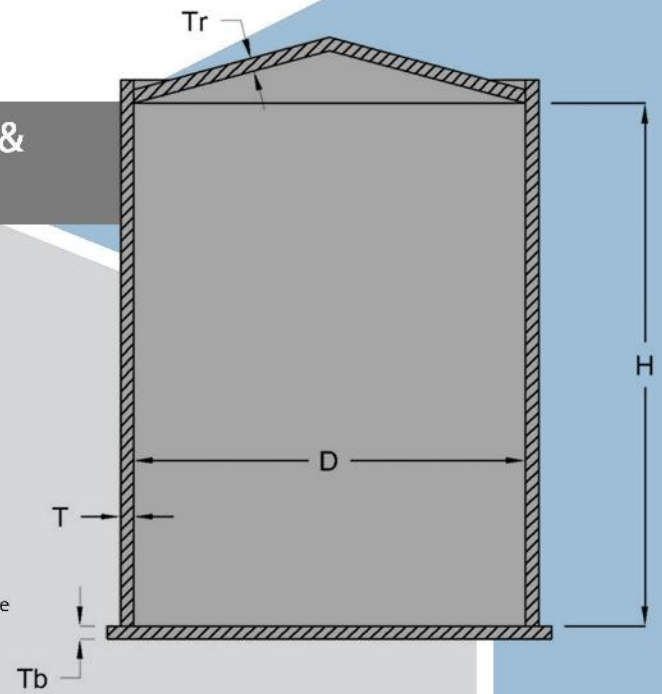
DURATANK STORAGE AND PROCESS TANKS ARE COMMONLY USED FOR THE FOLLOWING

Sewerage Tanks
Irrigation Water Tanks
Potable Water Tanks
Stormwater Retention
Detention Tanks
Industrial Tanks
Water Treatment Tank

Agricultural Product Silos
Chemical Storage Tanks
Food Storage
Overflow Tanks
Silos
Waste/Septic Tank
Potable Water Reservoir



Figure of Flat-base Tank with Conical Roof & Constant Wall Thickness as PER EN 12573



T : wall thickness
 H : tank height
 D : tank diameter
 Tb : thickness of base
 Tr : roof thickness

Duratank Product Range

Tank Diameter (mm)	Tank Height in Meters											
	1 M			1.5 M			2 M			2.5 M		
	V (m ³)	V (L)	T(mm)	V (m ³)	V (L)	T(mm)	V (m ³)	V (L)	T(mm)	V (m ³)	V (L)	T(mm)
1000	0.8	785	2	1.2	1,178	1.6	2.0	1,571	5	2.0	1,963	6
1200	1.1	1,131	3	1.7	1,696	2.3	2.8	2,262	6	2.8	2,827	7
1500	1.8	1,767	4	2.6	2,651	3.55	4.4	3,534	7	4.4	4,418	9
1600	2.0	2,011	4	3.0	3,016	4.0	5.0	4,021	7	5.0	5,027	9
1800	2.5	2,545	4	3.8	3,817	5.1	6.4	5,089	8	6.4	6,362	10
2000	3.1	3,142	5	4.7	4,712	6.3	7.9	6,283	9	7.9	7,854	12
2400	4.5	4,524	6	6.8	6,786	9.0	11.3	9,048	11	11.3	11,310	14
2500	4.9	4,909	6	7.4	7,363	9.8	12.3	9,817	12	12.3	12,272	14
2800	6.2	6,157	7	9.2	9,236	12.3	15.4	12,315	13	15.4	15,394	16
3000	7.1	7,069	7	10.6	10,603	14.1	17.7	14,137	14	17.7	17,671	17

Tank Diameter (mm)	Tank Height in Meters								
	3 M			3.5 M			4 M		
	V (m ³)	V (L)	T(mm)	V (m ³)	V (L)	T(mm)	V (m ³)	V (L)	T(mm)
1000	2.4	2,356	7	2.7	2,749	8	3.1	3,142	9
1200	3.4	3,393	8	4.0	3,958	10	4.5	4,524	11
1500	5.3	5,301	10	6.2	6,185	12	6.2	7,069	14
1600	6.0	6,032	11	7.0	7,037	13	8.0	8,042	15
1800	7.6	7,634	12	8.9	8,906	14	10.2	10,179	16
2000	9.4	9,425	14	11.0	10,996	16	12.6	12,566	18
2400	13.6	13,572	17	15.8	15,834	19	18.1	18,096	22
2500	14.7	14,726	17	17.2	17,181	20	21.2	19,635	23
2800	18.5	18,473	19	21.5	21,551	22	24.6	24,630	26
3000	21.2	21,206	21	24.7	24,740	24	28.3	28,274	27

Note: Dimensions base on GBT standard.

* Volumes are 95% of the total tank capacity as per EN 12753.

**Thickness for water storage application only.

***Based on 10 year calculated design life.

Tank Volume in Cubic Meters (V)

Tank Volume in Liters (V)

Tank Thickness in Millimeters (T)