



Decoland DecoGeoX-Tank

Water Management



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Decoland DecoGeoX

Decoland DecoGeoX-Tank System is a Geo-Cellular Block, a smarter way to manage storm water runoff on. The system provides the most efficient and versatile method of underground storm water storage available today. It's an ideal way to convert storm water ponds to usable space, and DecoGeoX-Tank is a more efficient, space saving alternative for underground storm water detention, infiltration, and recycling systems.

DecoGeoX-Tank is a modular system and can be assembled to a variety of heights. This rigid system can be placed be-neath a variety of surfaces including: Parking Lots, Streets and Access Roads, Driveways, Landscaping, Athletic Fields/Playgrounds, Swales and Channels. DecoGeoX-Tank can be used for a variety of applications including: Retention and Infiltration, Detention, Recycling or Harvesting, Pond Retrofits, DryWells, and Bioretention.

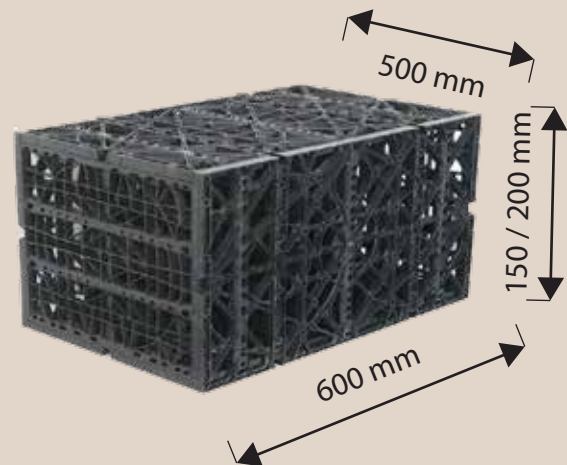
Technical Specifications*

GENERAL	Size 1	Size 2
Material	PP Recycle Material	PP Recycle Material
Dimensions	500 x 600 x 150 mm (+/-5%)	500 x 600 x 200 mm (+/-5%)
Compression Strength	15-20 Tons/m ²	15-20 Tons/m ²
Tanks	2-3 pcs / m ²	2-3 pcs / m ²
Void Ratio	95%	95%
Color	Black	Black

* In favor of product improvements, specifications may change without prior notice.

Applications:

- Drive Ways,
- Infiltration,
- Parking lots,
- Waste water,
- Sports fields,
- Airport runways,
- Commercial Plaza,
- Play grounds & Gardens.



Benefits:

- High Capacity: 95% void internal area.
- Strength: Easily supports traffic loading from parking lot, sand roads, Backfill with sand - no stone required.
- Design & Construction Versatility: Combine modules into any shape to efficiently use space.
- Increased Infiltration & Ex-filtration: Outer shell is 90% open, Increases groundwater recharge, reducing post-construction discharge volumes.
- Easy to Transport: Can be supplied unassembled for reduced delivery costs.
- Lightweight & Quick to Install: Installed by hand; no cranes required, Reduces site access delays.
- Recycled Content: Manufactured with recycled polypropylene.

Storm water Management/Rainwater Harvesting System

1. Roof garden,
2. Roof flowerpot
3. Greening wall
4. Rainwater catch basin
5. Automatic discharging device
6. Automatic Filter device
7. Sewage discharging basin
8. Recovery basin
9. PP infiltration tank
10. Geomembrance
11. Silty Sandy Clay
12. Back-purge system
13. Recovery system
14. Irrigation system
15. Infiltration collect
16. Sewage discharging system
17. Equipment foundation
18. Total discharging quantity monitoring



Storm water Management

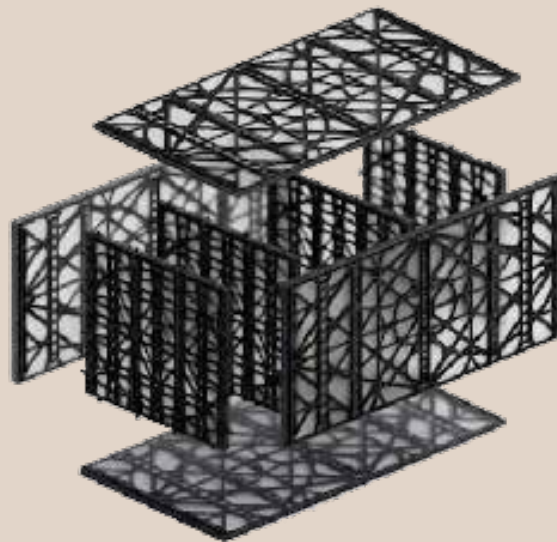


Looking for a smarter way to manage storm water runoff on your project? The DecoGeoX-Tank System provides the most efficient and versatile method of underground storm water storage available today. It's an ideal way to convert storm water ponds to usable space, and DecoGeoX-Tank is a more efficient, space saving alternative for underground storm water detention, infiltration, and recycling systems.

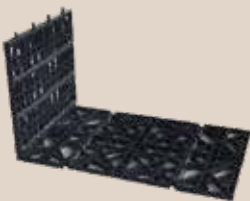
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Single Tank Assembly

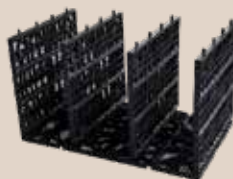
Always install upright for Maximum strength and for Warranty, Evenly distribute and connect the small panels into large panel, next, working from one end to the other, attach a second large plate on the opposite side of the first. Once the top and bottom large plates are attached, complete the sides of the tank module.



Step 1
Install large pegs of one small plate into holes of one side plate



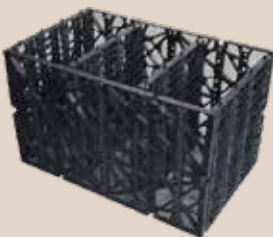
Step 2
Install large pegs of the second, third, and end small plates into holes of the side plate



Step 3
Place and align the second side plate on top of the small plates



Step 4
Rotate the tank such that the side plates are now on the sides and the top and bottom are open



Step 5
Place and align a large plate with pegs of the vertical small plates. Use hammer to tap the large plate into place

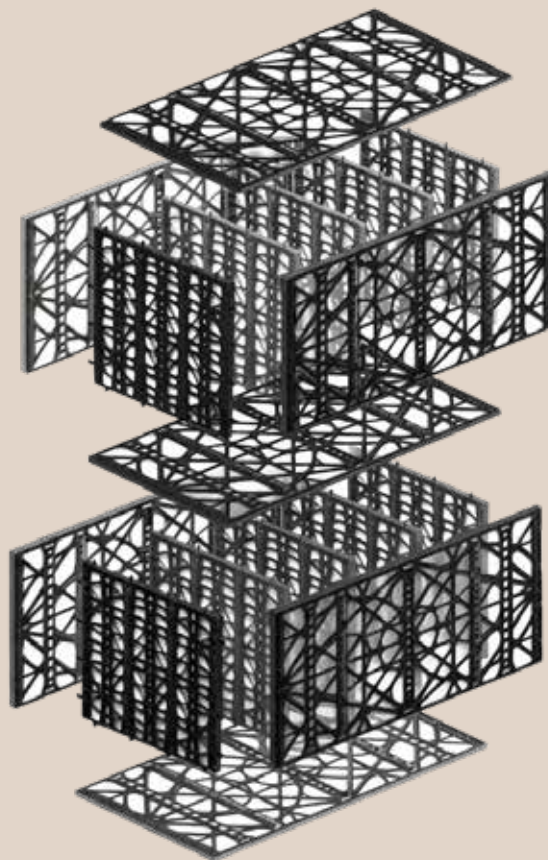


Step 6
Turn the tank upside down, place and align the second plate with the pegs of vertical small plates. Use hammer to tap the large plate into place



Multiple Tank Assembly

To build a Double unit (or larger), follow the directions below, starting at "Assembly Instructions:" using the top of the existing unit as the large plate. Completed tank modules should be staged as close to the installation area as possible.



Step A
Repeat Steps 1 through Multiple
tank assembly



Step B
Turn the tank upside down, align a
second tank (with one open end) over a
complete tank for double tank
assembly



Step C
Use Multiple Tank Assembly Steps
A and B for Triple, Quad and pent
tank assemblies. Check for full pin
insertion and re-tap if necessary,



Installation Guide



Step 1: Excavate

The excavation should allow for the DecoGeoX-Tank dimensions, sufficient backfill material and compaction equipment required during backfilling.



Step 2: Prepare Base

Base material should be 95% compactable material such as washed river sand or stone, with no clay or silt particles to ensure high permeability. Place base material and spread to 100mm depth, and compact.



Step 3: Place Geotextile to wrap tanks

For most applications, the geotextile should be 200g/m² of non-woven needle punched material. Lay the Geotextile into the excavation, over-lapping edges by 300mm or as specified by the manufacturer or engineer. Ensure enough fabric on the ends to wrap over the tank modules.



Step 4: Install rain tanks

Place the DecoGeoX-Tank units into the excavation, filling in the field as you go. Minor gaps (<5mm) between adjacent units or variations in height (<5mm) are acceptable. Note: The top of the DecoGeoX-Tank should always be one large panel. The edges of any panel should never be seen on top.



Step 5: Install Inspection / Maintenance Ports

Typically made from PVC pipe, these provide vertical access into the system. They should be long enough to sit on the bottom of the DecoGeoX-Tank, rising to the finished surface where they are capped. Maintenance Ports: Typically these are larger diameter (>150mm) solid pipes with large notches cut into the bottom installed to back flush the system.



Step 6: Wrap Tank in Geotextile

Wrap Geotextile placed in Step 3 over the DecoGeoX-Tank units, creating a fabric envelope around the DecoGeoX-Tank, completely sealing the system to keep backfill materials out of the system. Use duct tape to temporarily secure overlaps.



Step 7: Connect Inlet/ Outlet pipes

Pipe connections can be made anywhere on the top of the DecoGeoX-Tank by simply butting the pipe to the DecoGeoX-Tank. Inlet and Outlet pipes greater than 450mm in diameter do not need to penetrate into the structure of the DecoGeoX-Tank, but may simply butt against the top of the unit.



Step 8: Backfill Sides

Using compactable material such as washed river sand or stone, backfill the wrapped DecoGeoX-Tank System evenly on all sides to prevent units from shoving. Vibration from compactor will help eliminate minor gaps between DecoGeoX-Tank units. Backfill materials containing clay should never be used.



Step 9: Backfill Top

When backfill reaches the top of the DecoGeoX-Tank units, begin covering the structure with backfill material. Spread material using a lightweight powered mechanical compactor or roller. Cover Required an independant compaction test verifying 95% compaction must be obtained.

DecoGeoX-Tank Maintenance

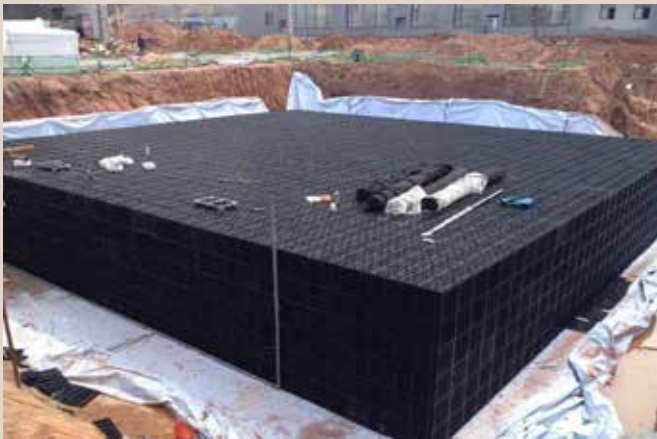
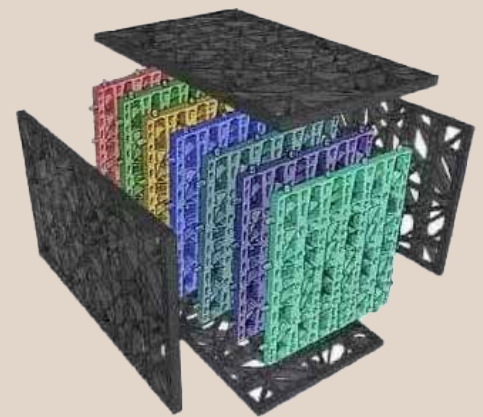
• Installing the Maintenance System

To install the PCV Pipe, remove the center small plate and cut the top large plate between the remaining interior small plates. Before inserting the port into the Tank, install an anti-scour plate in the bottom of the Tank to prevent disturbance of the base materials.

Maintenance ports should be capped at the surface. In landscaped areas, this may be accomplished with a simple pipe cap or plastic valve box. In paved areas, metal Tidsare more appropriate.

• Maintenance Intervals

Maintenance Schedules for the DecoGeoX-Tank System are a function of the contributing area and the type of pre-treatment specified. A standard maintenance schedule may include quarterly inspections through the first year of use, with yearly inspections thereafter. Flushing should be performed if sediment should the lesser of 6" or 15% of the system height.





Decoland

Landscaping Innovative
Sustainable Solutions

DECOLAND was founded in Egypt in 2012 as an Eco-friendly company to develop, manufacture, & distribute 'green' products and solutions for landscapes and urban spaces. We have built an edge in the market in which we provided ecological sustainable solutions with high technology, high quality and unique applications.

Based on long standing cooperation with BERA we have gained their trust and obtained an exclusive license to locally produce the Honeycomb® (Gravel Fix ME), Aluminium separators and HDPE Edges in Egypt.

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