



Lowering Costs with a Rainwater Harvesting Tank



Scope of Project & Location

Harvesting rainwater (free) to use for cleaning portable toilets instead of using metered, mains water.

Tufloo Toilet Rental Limited, Dublin, Ireland

Project Challenge

With a compact yard, the challenge was to install the tank out of the way on a steel frame to enable easy use of the water by a gravity feed rather than installing an electric water pump.

Service trucks would be able to park adjacent to the rainwater harvesting tank to allow the water to drain under gravity into their onboard water tanks. Their service runs could then be completed by using filtered, harvested water to clean portable toilets and replenish toilet tanks.

On site pressure washers would be used to clean toilet units and vehicles on the company's yard.

Equipment Provided

- 20,000 litre vertical storage tank
- Rainwater harvesting kit
- Tank drain valve (2") with 10m of hose
- Bolt down feet to secure the tank to its platform

Our Expert Solution

Faced with the increasing cost of using metered mains water to clean portable toilets, Tufloo wanted to explore the option of using an ample and free resource (rainwater) to reduce their reliance on mains water and lower their carbon footprint, the latter being an important consideration for their customers.

During the consultation period it was decided that the tank would be best positioned on a raised, steel frame rather than on the ground. For simplicity and space saving, this would allow the harvested water to be used without the need for a separate water pump.

Understanding the estimated liquid weight (i.e. 20,000 Kgs) was essential for the manufacturer of the steel frame. Bolt down feet were ultimately used to secure it to the frame, and a suitable rainwater harvesting filter was specified for a roof size of up to 800m². Local fitters installed the filter and ensured that excess water was directed back to the downpipe.

TESTIMONIAL

Tom Costello, MD, Tufloo

"This was a really important decision for us. We were using a lot of expensive mains water just to clean toilets, so this tank allows us to reduce our water bills, lower our carbon footprint and promote greener credentials to our customers."



Tank + filter before despatch



Readying for despatch



On site installation



Large rainwater filter

If you have a similar project or site challenge, please contact us using the details below ↓