

# RAINWATER HARVESTING

## What is Rainwater Harvesting

Rainwater harvesting works by taking the rain from roofs and filtering out leaves and debris, before storing the water underground in the main storage tank. The water is then pumped into the property to be used for non-drinking applications e.g. flushing toilets, washing machines and garden watering.

Water conservation is an issue facing all households, particularly in the South-East of England where there is less water available per person than in many Mediterranean countries.

Increased water usage through kitchen appliances, power showers, garden sprinklers and hoses, power jet washers for patio and car cleaning, means that on average we each use 150 litres of clean treated mains water per day.

With inflation busting annual water price increases, the need to recycle water is an economic necessity for many households particularly for large ones on water meters.

FloPlast StormSaver enables the household to recycle water which can potentially reduce annual water bills by up to 50%. In addition, FloPlast StormSaver can form part of a Sustainable Drainage System (SuDS) for new build or retrofit developments and can contribute to surface water management and reducing flood risk.

You can also help the environment by reducing the demand for mains water, for example, using rainwater to keep watering during the summer or whenever there are water restrictions.



Vehicle Washing



Landscape Watering and Sprinkler



Toilet



Garden Watering



Domestic Laundry

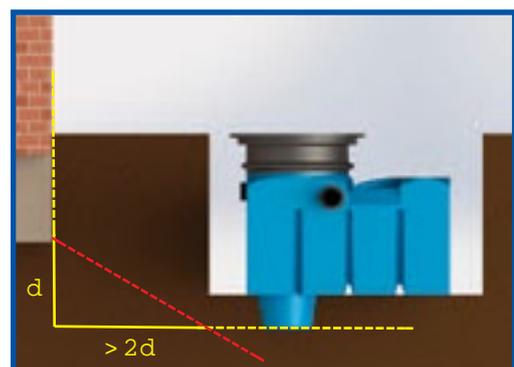
## Decide how much of the roof area will be used for the collection of rainwater

In areas of high levels of rainfall it may not be necessary to use the whole of the roof area available to collect rainwater for harvesting. In areas of high levels of rainfall it may not be necessary to use the whole of the roof area available to collect rainwater for harvesting.

## Where to locate the tank?

The tank must be located in a place where the distance from the edge of the excavation to the edge of the foundation, is at least double the difference in depth, from the base of the foundations to the base of the excavations.

The red dotted line represents the line the tank excavation must not cross.



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### Sizing your excavation:

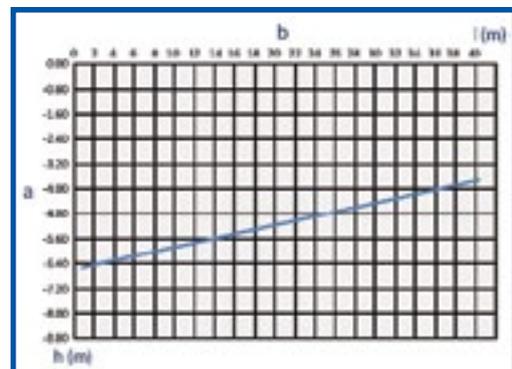
The excavation should allow for a minimum of 200mm surround to all sides and 500mm depth in addition to the tank dimensions. Lay 100mm sand on the excavation base, compact and level. Ensure there are no stones or edges which could damage the tank. If the tank has a sump, ensure extra space is excavated to accommodate this.

### How far from the control unit will the tank be situated?

(Ideal maximum is 20m however can be installed up to 40m)

This graph demonstrates the maximum suction hose run length versus the maximum tank base depth as measured from the base of the control panel processor unit. The longer the run of the suction hose, the shallower the base of the tank must be, and the same is true in reverse.

A – represents the DEPTH from the base of the processor unit to the base of the tank B – represents the LENGTH of the suction hose run from the control unit to the boosted suction filter, 150mm from the base of the tank.



### Where will the control unit be positioned?

The control panel unit is NOT weatherproof and must not be exposed to the elements. The unit should be located within the building. Extremes in temperatures should be avoided. Insulation will be required; the controls must not be subject to freezing conditions. The unit has a 90W pump and is one of the quietest in the marketplace (48dba) making it ideal to be located within the home and small enough to be fitted in a 600mm kitchen cabinet.

### You will be required to purchase the following additional products not included in the pack:

- Underground drainage pipes & fittings
- Underground chamber if two or more pipes will be feeding the tank
- Electrical ducting

### FAQs

#### • What can harvested rainwater be used for?

(Washing machine, flushing of WC's, watering the garden, washing the car etc) – Cannot be used for human consumption (dishwasher, drinking water, shower, bath etc)

#### • How will the tank be moved in to position on delivery?

Whilst the tanks are light enough to be manoeuvred by hand we recommend mechanical off-lift where possible.

#### • Is there a helpline I can contact?

Yes, **01795 431731**