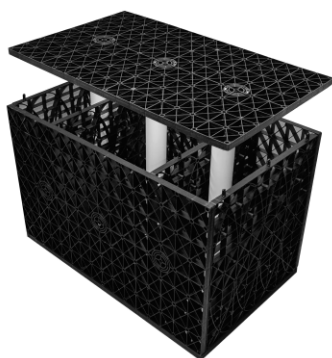


# CORE WATER CRATE

The CORE Water Crate is the perfect product for creating soakaways in residential and commercial projects. Our easy-to-assemble crate can be installed beneath gardens, pedestrian areas and driveways with light vehicular traffic.

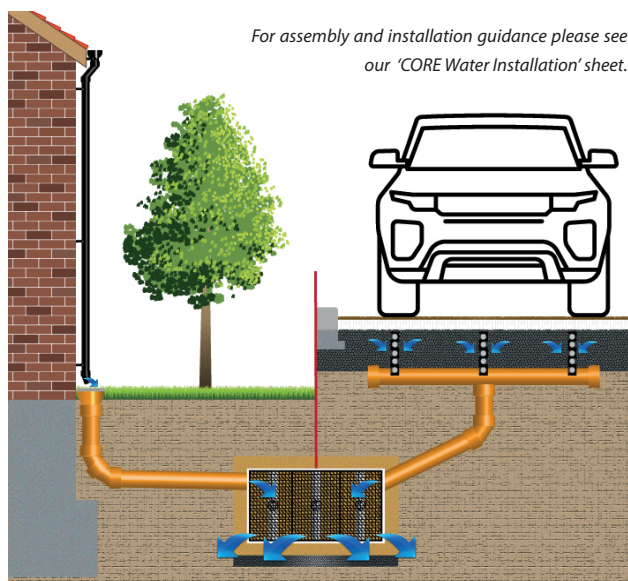
Our crates are a step forward in drainage technology; advancing from the old-fashioned, inefficient soakways filled with hardcore and building waste, the crate provides a safe and intelligent solution to rainwater management.



CORE Water Crate wrapped in non-woven geotextile provided.

Our durable and robust crate will help to alleviate flooding by creating a structural void in the ground, it allows water to flow in from surrounding subsoil reducing the build up of hydrostatic pressure.

Water is able to penetrate through the non-woven membrane and collect in the crate, this water will then slowly infiltrate back into the ground at a natural pace.



For assembly and installation guidance please see our 'CORE Water Installation' sheet.

## TECHNICAL SPECIFICATION

<b>Material</b>	<b>Recycled Polypropylene</b>
<b>Crate Dimensions</b>	<b>800 x 540 x 500mm</b>
<b>Wall Thickness</b>	<b>17mm</b>
<b>Cubic Area of Crate</b>	<b>0.216m<sup>3</sup></b>
<b>Membrane Included</b>	<b>Non-Woven 80gsm</b>
<b>Crate Weight</b>	<b>9.00 Kg</b>
<b>Chemical Resistance</b>	<b>Excellent</b>

## SOAKAWAY CALCULATION

There are a number of ways to calculate the size of soakaway required... The most commonly used in the industry is:

$$\text{Soakaway Volume} = \text{Area} \times (\text{Rainfall Rate}/3000)$$

For a standard 60m<sup>2</sup> roof or driveway in the UK the calculation would be:

$$60\text{m}^2 \times (50\text{mm}/3000) = 1\text{m}^3 \text{ volume}$$

This means you would require 5 of our CORE Water Crates to create a 1m<sup>3</sup> soakaway. In other words, 1 crate should be used for every 10-12m<sup>2</sup> of area to be drained.

## GUIDANCE NOTES

The performance of a soakaway is dependant on the porosity/infiltration rate of the surrounding subsoil. Installation in heavy clay soil should be avoided.

If creating multiple crate soakways, ensure these are installed in areas that do not receive vehicular traffic.

For any technical advice on installation or application please call our technical team on 0800 118 22 78.