Soakcube 500 – Installation guide

Contents

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Preparation

Tools Required	None	
Safety	Lightweight gloves recommended for safe handling as some sharp corners may be present on injection moulded items	
Components Required	Cube assemblies	*
Other Items (Not included in standard sales pack)	Geotextile membrane (see page 7)	

*** See next page for guide on how many cubes are required**

SOAK CUBE

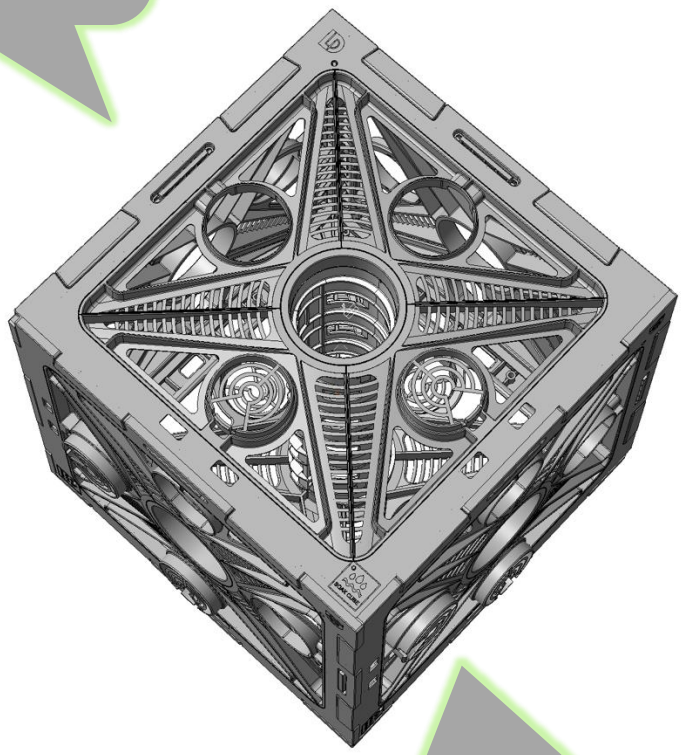
Soakcube 500 – Installation guide

Assembling Multiple Cubes

Cubes	Gross Volume m3	Net Volume m3
1	0.125	0.12
4	0.50	0.48
8	1	0.96
16	2	1.92

After you have built your first cube, next:

Build more and make a group of the correct volume



As a rough guide, for an average garden in the UK (188 m2) , 8 cubes should be sufficient to alleviate sudden storm water.

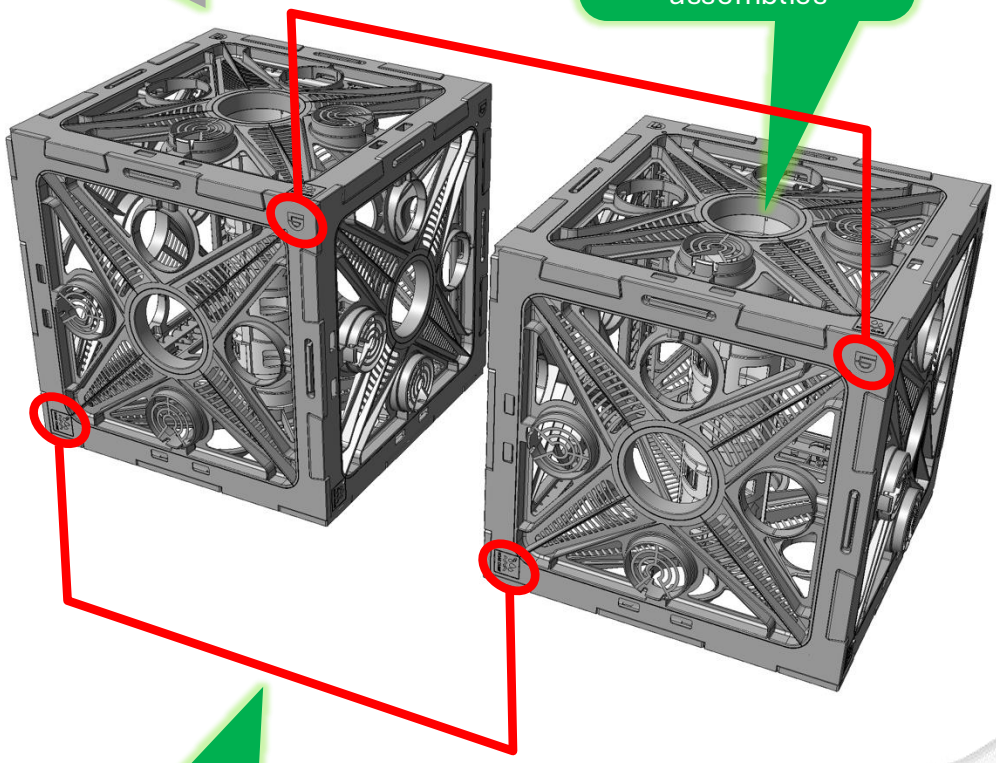
SOAK CUBE

Soakcube 500 – Installation guide

Assembling Multiple Cubes

Check that the orientation of the cube assemblies are the same

Ensure that centre supports are **vertical** on all cube assemblies

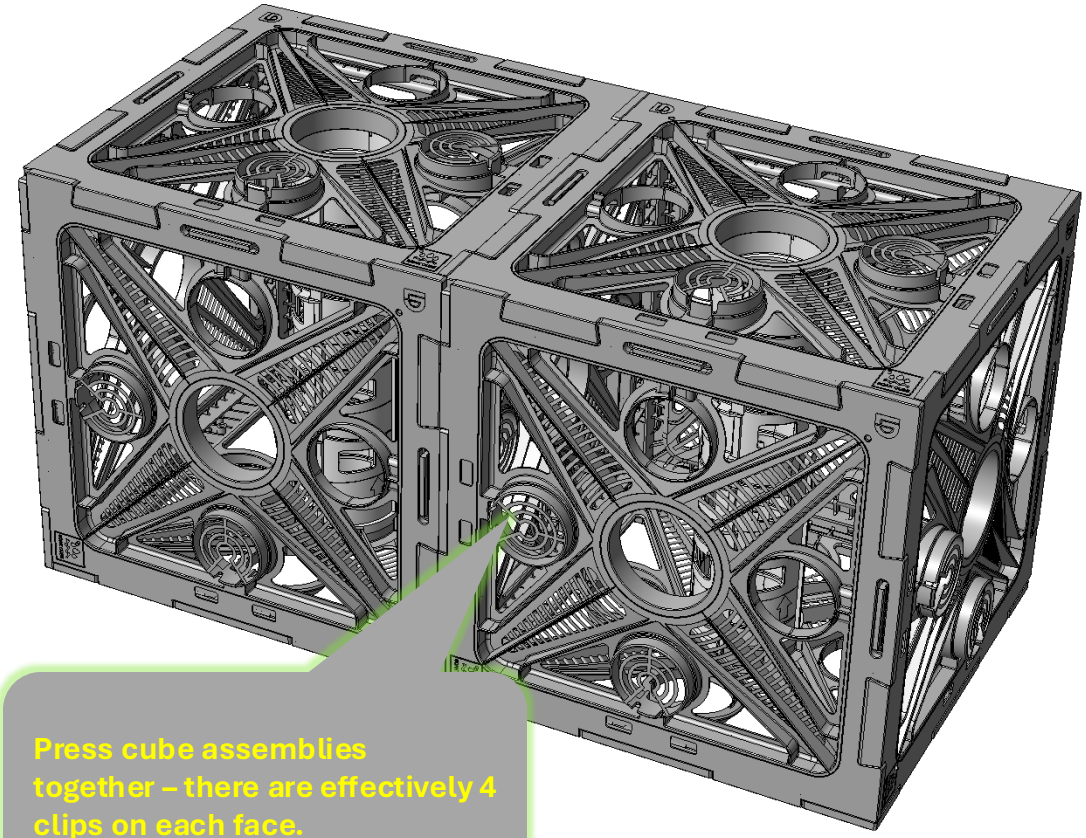


Ensure that orientation is the same on all cube assemblies

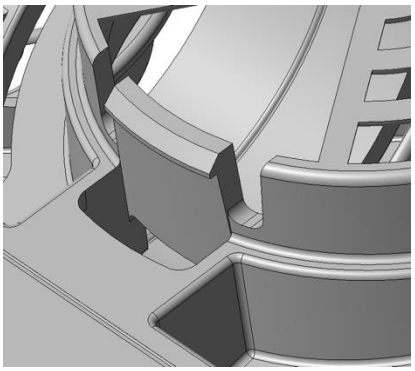
SOAK CUBE

Soakcube 500 – Installation guide

Assembling Multiple Cubes

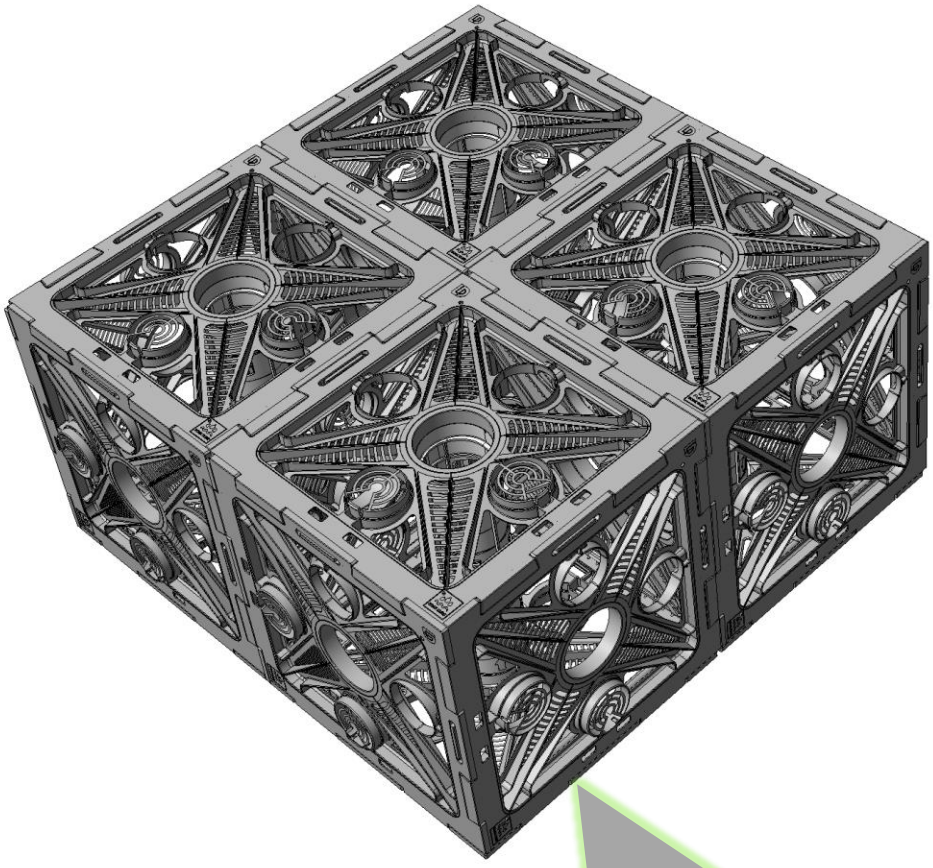


Press cube assemblies together – there are effectively 4 clips on each face.



Soakcube 500 – Installation guide

Assembling Multiple Cubes



The strongest configuration is the square (as shown).

A variety of assembled shapes are possible depending on volume of attenuation required and space limitations.

SOAK CUBE

Soakcube 500 – Installation guide

Burial Guide

Once the cubes are assembled and before complete burial, they should be wrapped with a good quality geo-textile membrane (not supplied)

Note:
Depending on the size / combined weight of the cube assembly it may be necessary to wrap the cubes while located in the finished trench.

SOAK CUBE

Soakcube 500 – Installation guide

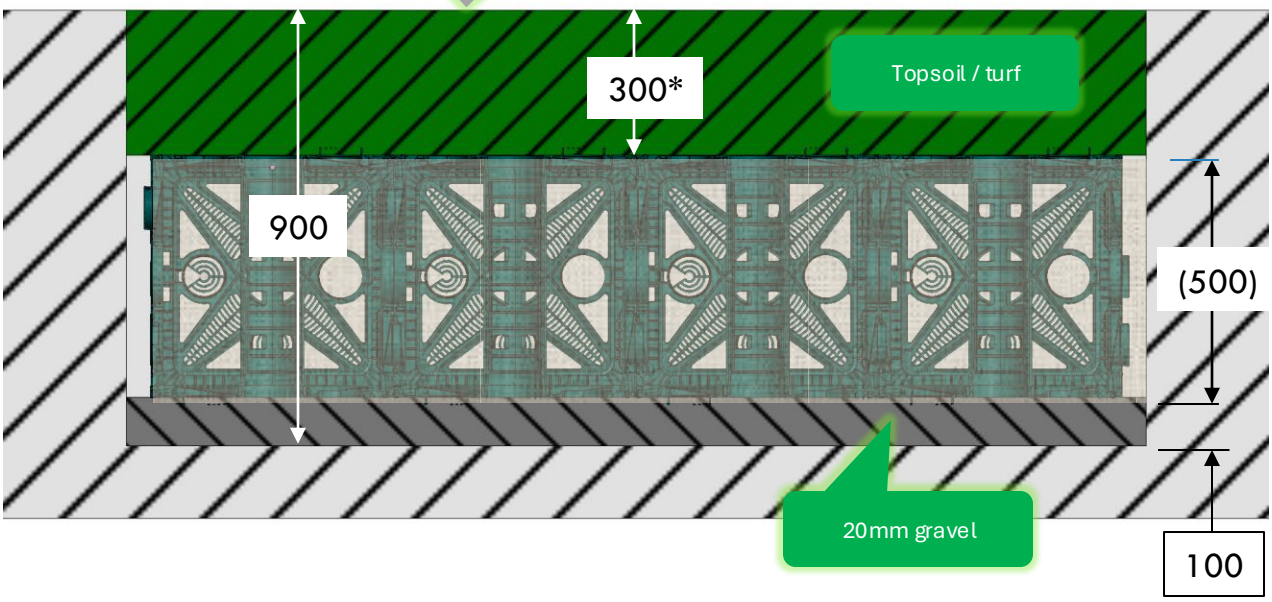
Recommended minimum burial depths	m
Under Lawn	0.3
Under Patio	0.3
Under Driveways	0.5

See separate following pages for a guide for installation:

Also see specification sheet: Soakcube500_Specification_Issue1_Rev01_20241106 which is downloadable from our website.

Soakcube 500 – Installation guide

Draining a Lawn or Flowerbed

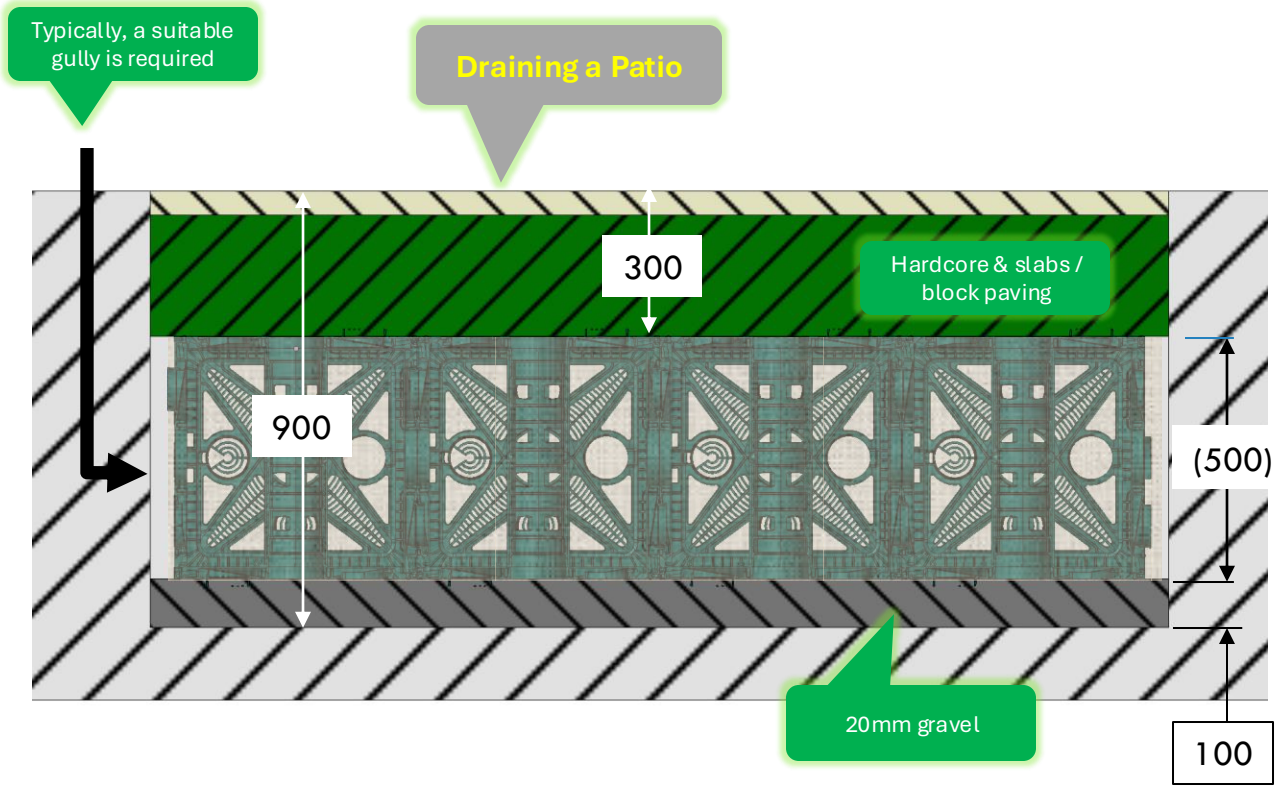


* We recommend this depth as a minimum to maintain moisture levels directly above the void.
However, to avoid differences in lawn colour, it is best to install in a none visual part of the garden, if possible.

SOAK CUBE

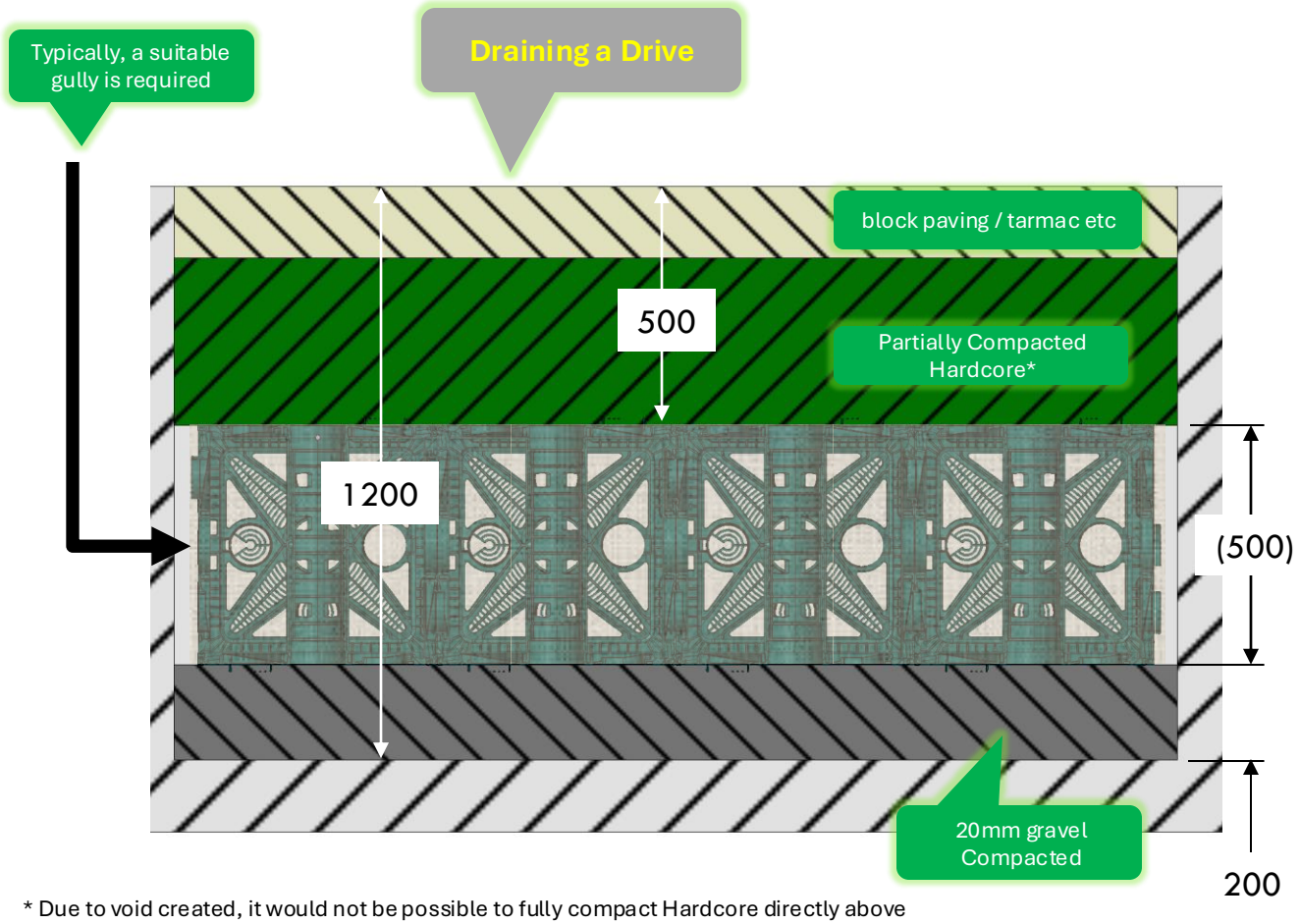
Note:
Maximum test load is 31 tonnes / M2
During tests, load was applied directly to the cubes, with maximum deflection of 15mm. After load removed, cubes regained their original height.
Therefore, if installed correctly load bearing for pedestrian traffic and mowers is not an issue
However, we do not recommend loads exceeding 30 tonnes / M2 to be applied

Soakcube 500 – Installation guide



Note:
Maximum test load is 31 tonnes / M2
During tests, load was applied directly to the cubes, with maximum deflection of 15mm. After load removed, cubes regained their original height.
Therefore, if installed correctly load bearing for pedestrian traffic and regular patio furniture will not cause an issue.
However, we do not recommend loads exceeding 30 tonnes / M2 to be applied

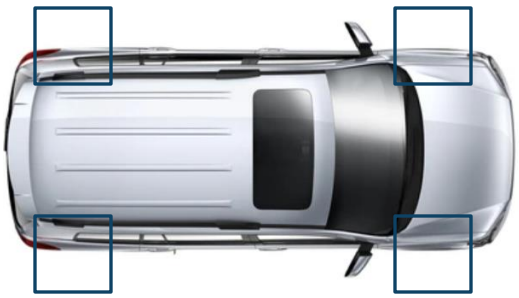
Soakcube 500 – Installation guide



* Due to void created, it would not be possible to fully compact Hardcore directly above

Bringing things into perspective:

A heavy vehicle would typically apply 0.5 tonnes / m2 to each wheel.



SOAK CUBE

Note:
Maximum test load is 31 tonnes / M2
During tests, load was applied directly to the cubes, with maximum deflection of 15mm. After load removed, cubes regained their original height.
With compacted aggregate added as per diagram above, compressive load resistance will be higher.
However, we do not recommend loads exceeding 30 tonnes / M2 to be applied