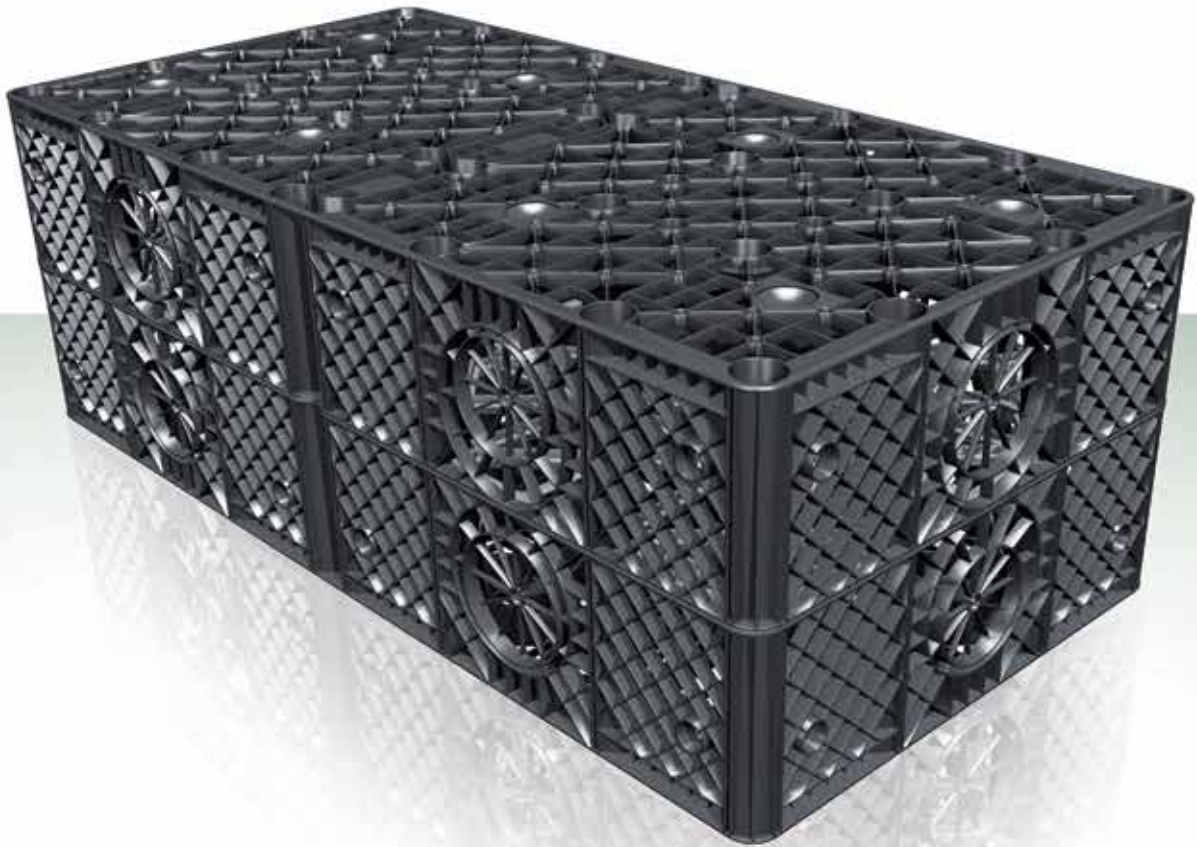




Plumbing & Drainage

# StormCrate

Stormwater Attenuation & Infiltration Crates



- Cellular stormwater attenuation crates
- Ideal for domestic soakaways
- 3.3 StormCrates per 1m<sup>3</sup> storage capacity
- Lightweight and easy to install in up to 10 layers
- High strength crate with lorry bearing of up to 60 tonnes
- Fully inspectable for future maintenance when used with StormCrate Inspect Crates
- Cost-effective and space saving



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## Stormwater Management

Brett Martin's StormCrates are modular geocellular units which are used predominantly as below ground stormwater attenuation, surface water infiltration and soakaway systems. The StormCrates are designed to be stacked together to create a structural below ground holding tank or to allow the infiltration of stormwater into the ground around them. The void created by the StormCrates can then fill up with stormwater during heavy rainfall conditions. The collected stormwater then soaks away slowly into the drainage system or ground water table over a more sustained period of time. Extensive use of this type of stormwater attenuation module has helped relieve pressure on conventional surface water drainage systems in line with the Sustainable Urban Drainage Systems (SUDS) program advocated by the Environment Agency.



## StormCrate Benefits

### STORMWATER MANAGEMENT

- StormCrates provide a highly effective means of managing stormwater; contributing to reducing the risk of flooding:
  - Rainwater Infiltration: StormCrates can be wrapped in a geotextile which allows stored water to slowly seep into the surrounding ground and back into the water table.
  - Rainwater Attenuation: A more common practice is to surround StormCrates with an impermeable geomembrane to create a sealed underground tank. The outlet from this tank is then controlled to facilitate a slow release of the stored water back into the drainage system over a longer period.

### STORMWATER CAPACITY

- The cellular structure of StormCrate maximises water holding capabilities and each StormCrate has a capacity to store up to 300L or 0.3m<sup>3</sup> of stormwater.
- The modular nature of StormCrates allow the system to be scaled appropriately depending on calculated runoff requirements, so for example, 10 StormCrates store 3m<sup>3</sup> of stormwater.

### QUICK & EASY TO INSTALL

- Comprising modular units, StormCrates are quick and easy to install in residential, commercial and industrial projects.
- Weighing in at only 18kg per module, StormCrates can be easily lifted and set in place by hand without the need for heavy lifting equipment on site.
- The shallow installation depths, with a minimum 250mm cover required above crates for driveway loading and a minimum 500mm cover required above crates for lorry loading, means less dig and site spoil.
- The individual modules are joined using practical connectors, a very simple but effective jointing method, which allows crates to fit together quickly and with ease.
- Once installed the crates are fully inspectable for future maintenance when used with StormCrate Inspect Crates (Inspect Crates available to special order).

### LOAD BEARING

- The lorry bearing design ensures extreme load capacity thanks to StormCrates stable column structure.
  - StormCrate facilitates SLW 60-bearing with a 500mm (19.7") covering, which represents a vehicle of up to 60t.
  - The lorry bearing design can bear a long-term load of approximately 3.5t per m<sup>2</sup>.
  - There are no limits on the use and design of the surface over the system and StormCrates may be successfully installed under parking areas, driveways and landscaped areas.

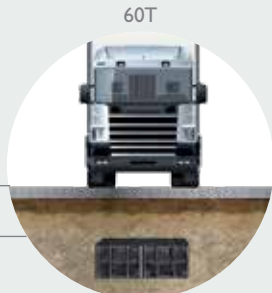


CAN BE  
INSTALLED 10 LAYERS  
DEEP WITH 2 METERS  
MAXIMUM EARTH  
COVERING FOR 60T  
LORRY BEARING



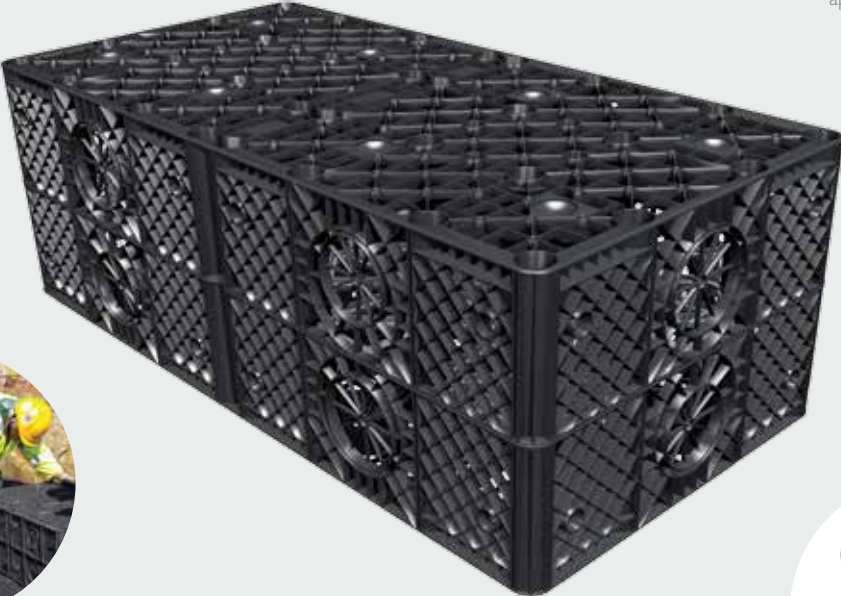
**MODULAR DESIGN**

StormCrates are designed to be easily stacked or laid in rows



**HIGH PERFORMANCE LOADING**

StormCrates have a lorry bearing design of 60t and can bear a long term load of approximately 3.5t per m<sup>2</sup>



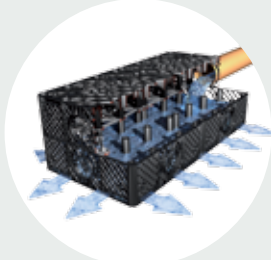
**QUICK AND EASY TO INSTALL**

At only 18kg per module, StormCrates are easily lifted by hand



**EASY CONNECTION**

StormCrates fit quickly and simply together with four connectors per block

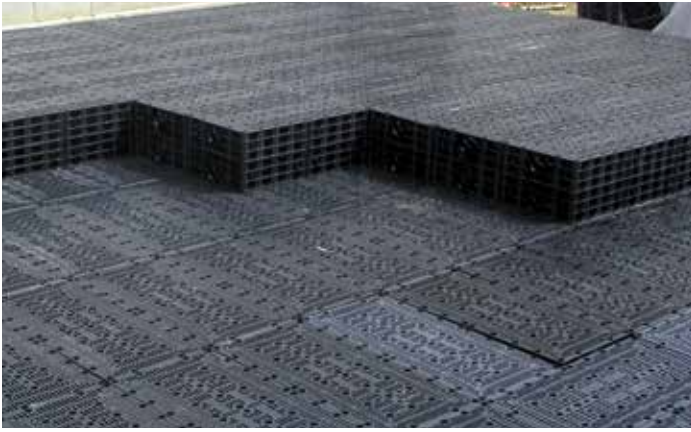


**STORMWATER MANAGEMENT**

StormCrates steadily disperse high intensity stormwater by infiltration or attenuation. Each crate has a capacity of 300L or 0.3m<sup>3</sup>



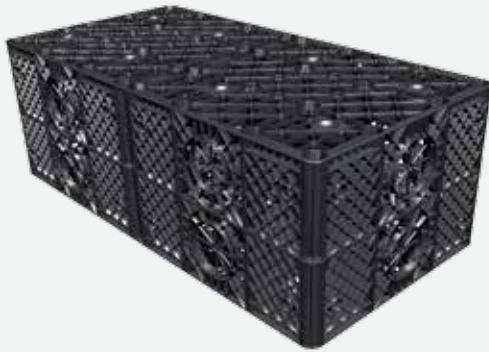




## Stormwater Attenuation Range

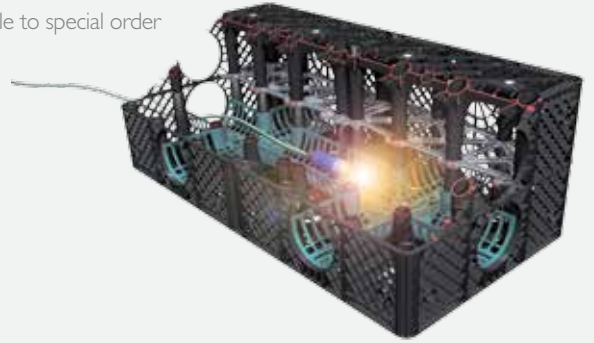
### STORMCRATES

Code BRRB33



### INSPECT CRATES

Available to special order



### GEOTEXTILES / MEMBRANES

It is recommended that StormCrates are installed with a 300g/m<sup>2</sup> geotextile or a 1.0mm LLDPE membrane. Available to special order



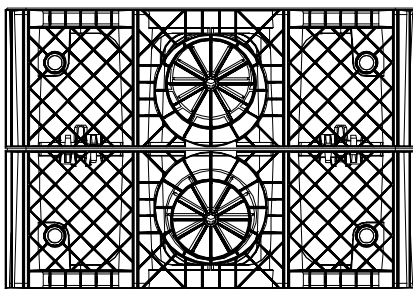
### SPARE CONNECTOR

Code BRRBjI  
(4 included with each crate)



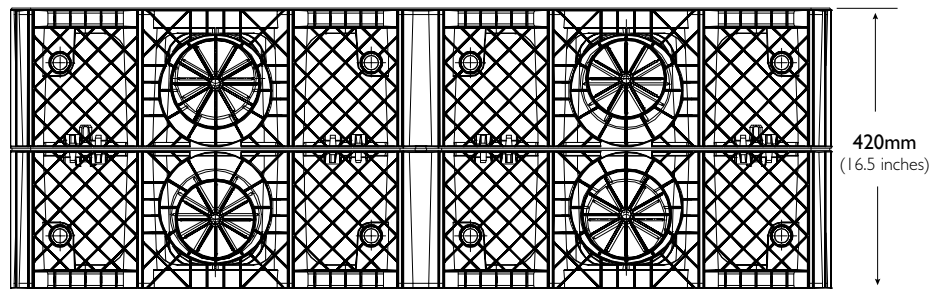
## StormCrate Product Illustration

FRONT VIEW



600mm (23.6 inches)

SIDE VIEW



1200mm (47.2 inches)

420mm  
(16.5 inches)

### STORMCRATE SPECIFICATION

Volume (ltrs)	Length (mm)	Width (mm)	Height (mm)	Weight	Colour	Material
300 (net 285)	1200	600	420	18kg	Black	100% Polypropylene



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# StormCrate Traffic Load

Site specific loading calculations are provided on request.

TRANSPORTATION LOADS		STORMCRATE
Short duration		Max. 10,0 t/m <sup>2</sup>
Long duration		Max. 5,0 t/m <sup>2</sup>
Light traffic (and without traffic loads)	max. Earth covering*	2750mm
	max. Installation depth*	5000mm
	max. Number of layers	10 layers
	min. Earth covering	250mm
HGV12 (12t)	max. Earth covering*	2750mm
	max. Installation depth*	5000mm
	max. Number of layers	10 layers
	min. Earth covering	500mm
SLW30 (30t)	max. Earth covering*	2500mm
	max. Installation depth*	5000mm
	max. Number of layers	10 layers
	min. Earth covering	500mm
SLW40 (40t)	max. Earth covering*	2250mm
	max. Installation depth*	5000mm
	max. Number of layers	10 layers
	min. Earth covering	500mm
SLW60 (60t)	max. Earth covering*	2000mm
	max. Installation depth*	5000mm
	max. Number of layers	10 layers
	min. Earth covering	500mm

The maximum installation depth or earth covering\* is related to the ground substance with an inside angle of friction from  $\phi = 50,0^\circ$





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