

## Wavin AquaCell

## System Data Sheet



### System description

Manufactured from polypropylene, Wavin's AquaCell stormwater management system comprises individual infiltration units. These can be assembled together to form an underground structure which can be used for temporary stormwater storage to limit the outflow or as an alternative for domestic drains to let the stormwater infiltrate into the surrounding ground.



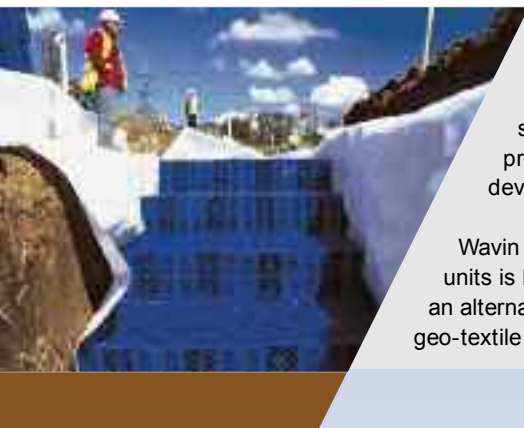
### System benefits

- Reduced peak load of sewer systems and natural drains  
Controlled and reduced volume discharge into existing main sewer systems and water streams.
- Significantly reduced risk of flooding  
Minimising the impact of flood damage to properties.
- Infiltration of rainwater into the ground  
Prevents dehydrations and recharges the local groundwater.
- High strength and rigidity  
Allowing the system to be located underneath traffic areas such as car parks.
- Sustainable, cost effective management of the water environment  
Protecting sensitive environmental areas and promoting re-use of rainwater.
- Modular  
Lightweight (only 9kg per unit) and versatile.
- 95% void ratio  
Capacity of 190 litres of water per unit ensuring fast drainage.
- Safe  
Safer option than open or above ground storage structures.
- Ease of installation  
Easy to install and handle. Flexibility in construction.
- Stability  
Allows cross stacking assembly for extra stability. Proven clip and peg system to secure units.
- Full range of ancillaries  
Including silt traps, separators and adaptors.

### Documentation

The following documentation on the Wavin AquaCell system is also available

## RAINWATER INFILTRATION UNITS



### Applications

Wavin's AquaCell system may be used independently or linked to other systems like siphonic roof drainage, road gullies, channel drainage and total sewer systems. In that way it provides a tailor-made solution to meet specific water management needs of individual housing developments, civil infrastructure and for establishing an optimal local environment.

Wavin AquaCell units can be used for temporary water storage where the underground structure of units is being wrapped with an impermeable geo-membrane. Also, Wavin AquaCell can be used as an alternative for domestic drains to let the rainwater infiltrate into the ground. For this a permeable geo-textile wrap is required.

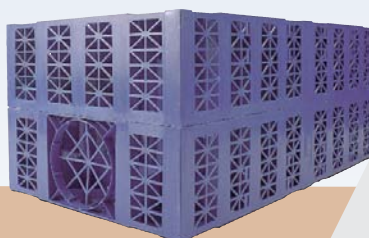
<b>Raw material</b>	Polypropylene (PP)	
<b>Dimensions</b>	1.0 m x 0.5 m x 0.4 m	
<b>Capacity</b>	Water containing capacity 190 litres	
<b>Storage capacity</b>	Gross volume 200 litres (> 95% porosity)	
<b>Connections</b>	DN 160 (pre-formed socket) and other adapters are available for both PP and PVC geo-membrane.	
<b>Proven vertical loading capacity</b>	56 tonnes/m <sup>2</sup> . Higher loads possible but require specific advice from Wavin.	
<b>Proven lateral loading capacity</b>	7.75 tonnes/m <sup>2</sup> . Higher loads possible but require specific advice from Wavin.	
<b>Cover depth MINIMUM</b>	Landscaped / non-trafficked areas	0.5 m
	Car parks, vehicle up to 2500kg* gross mass:	
	- up to 3 AquaCell units wide in trench	0.6 m
	- more than 3 AquaCell units wide	0.75 m
	Maximum depth base of unit	4.1 m**
<b>Colour</b>	Distinctive blue colour for easy identification	

\* For specific advice on cover depths for heavier loadings, please contact Wavin.

\*\* Allowable maximum depth to base of bottom layer of units is dependent on soil type, angle of shearing resistance, loadings, and groundwater level. In poor ground conditions a shallower depth may apply.

The Wavin AquaCell system can be connected to various Wavin systems to complete a rainwater management solution:

- Wavin QuickStream siphonic roof drainage
- Wavin Channel Drainage and Road Gullies
- Wavin X-Stream sewer pipes and fittings
- Wavin Tegra inspection chambers and manholes



### Quality requirements

The Wavin AquaCell system is BBA (British Board of Agrément) approved and can meet technical requirements of NHBC (National House-Building Council) in the United Kingdom, where the Wavin AquaCell system has been developed. In The Netherlands it fulfils the KOMO requirements BRL 52250.

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