



Wavin Stormwater Management



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Project Details

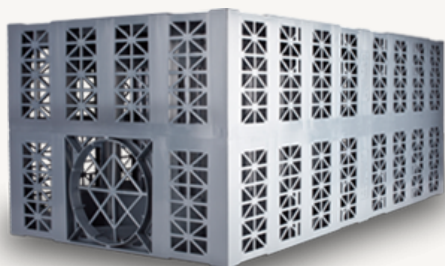
Project Name	Arden House Vets	Produced By	Amanda Hiley
Client Name	Arden House Vets		
Site Address	56 Pembroke Road, HA4 8NF	Date	10/06/2019

Modular Units and Tank Details - tank 1

Length	3m	3 units	Void	95%
Width	1m	2 units	Cover Depth	0.3m
Depth	0.8m	2 units	Installation Depth	1.1m
Total Number of Units		12 units		

Recommended Unit

Wavin recommend using the following unit for your installation.



AquaCell Prime

Product Number: 6LB075

AquaCell Prime is manufactured from specially reformulated, recycled material. It is ideal for use in both shallow and deep applications, subject to either regular traffic loading – such as car parks (for vehicles up to 12 tonnes) – or for landscaped areas.

Other Unit(s)

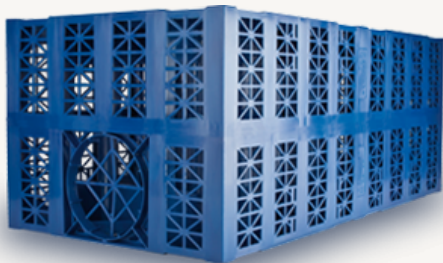
The following unit(s) can also be used with, or in place of the recommended unit.



AquaCell Plus

Product Number: 6LB200

AquaCell Plus has been designed primarily for use in applications where inspectability is required, and is suitable for use in all applications from landscaped areas to heavily trafficked areas (for vehicles up to 44 tonnes). If your tank needs to be inspectable, you can use one row of AquaCell Plus in your tank. If your unit depth is to be greater than 2metres AquaCell plus must be used on the deeper layers.



AquaCell Core

Product Number: 6LB100

AquaCell Core has been designed for use in deep applications, subject to both regular and heavy traffic loadings, such as cars and HGV's (for vehicles up to 44 tonnes).

Drainage Details

Area	260m ²
Catchment Type	Roof + Hardstanding
Area Reduction Factor	0.9
Soil Type	Clay

Allowable Discharge	2.3 ltr/sec
Climate Change	0%
Effective Area	234m ²
Factor of Safety	1

Rainfall Data

R Value	0.40
M5-60	20

Storm Return Period	1 in 30 years
County	Middlesex

Time	Z1 Value	y mm	Z2 Value	p mm	Inflow	Outflow	Storage Volume
5min	0.38	7.6	1.44	10.94	2.56	0.69	1.87
10min	0.52	10.4	1.47	15.29	3.58	1.38	2.2
15min	0.63	12.6	1.47	18.52	4.33	2.07	2.26
30min	0.8	16	1.51	24.16	5.65	4.14	1.51
1hr	1	20	1.52	30.4	7.11	8.28	-1.17
2hr	1.19	23.8	1.52	36.18	8.47	16.56	-8.09
4hr	1.44	28.8	1.51	43.49	10.18	33.12	-22.94
6hr	1.59	31.8	1.49	47.38	11.09	49.68	-38.59
10hr	1.81	36.2	1.49	53.94	12.62	82.8	-70.18
24hr	2.35	47	1.45	68.15	15.95	198.72	-182.77
48hr	2.69	53.8	1.41	75.86	17.75	397.44	-379.69

Critical storm duration (hrs)	15min
Required Storage Height	2.26m
Volume from Dimensions	2.28m ³

If you would like to find out how to purchase AquaCell Units, please contact either your Local or Site Sales Manager

Local Sales Manager

Name	John Nichols
Phone Number	07966 333689

Site Sales Manager

Name	Chris Jones
Phone Number	07876 393893

Aquacell Disclaimer

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- Wavin offers a program of continuous improvement and reserves the right to modify the specification of products without notice.
- All information in this publication is believed to be correct at time of preparation. However, no responsibility can be accepted for any errors or omissions. Final determination of the suitability of information or material for the use contemplated and the manner of the use is the sole responsibility of the user
- Calculations are based upon relevant industry standards in accordance with the Wallingford Procedure, and should be verified by a qualified engineer.