

WAVIN Stormwater Management

AquaCell Soakaway designed in accordance with BRE 365

Project & Site Details

Project Number	S26304	Produced by	Harry Wrobel
Client	Pope Stevens Architecture	Checked by	
Site Name	Ilex Way, Worthing		
Location	West Sussex, BN12 4UY	Date	01/04/2026

Drainage Details

Area	125 m ²	Climate Change	45 %
Catchment Type	Roof	Effective Area	181 m ²
Area Reduction Factor	1	Additional Inflow	0.00 l/s

Discharge Parameters

Infiltration Rate	1.00E-05	Soil Type	
Factor of Safety	2	Source	
Effective Infiltration Rate	5.00E-06		
Additional Outflow*	0.00 l/s	Depth to Groundwater (m)	

*flat rate from pump only

Rainfall Data

R value					0.35	Storm Return Period				1 in 100 years
M5-60					19	Country				England and Wales
Time	Z1 Value	y mm	Z2 Value	p mm	Inflow	Outflow	Storage	Minimum Length	Time To Half -Empty	
5min	0.36	6.84	1.81	12.38	2.24	0.03	2.211	0.195	5.05	
10min	0.51	9.69	1.89	18.31	3.32	0.07	3.253	0.288	7.39	
15min	0.61	11.59	1.91	22.14	4.01	0.10	3.913	0.347	8.85	
30min	0.78	14.82	1.91	28.31	5.13	0.20	4.932	0.440	11.13	
1hr	1.00	19.00	1.99	37.81	6.85	0.40	6.457	0.581	14.49	
2hr	1.21	22.99	2.03	46.67	8.46	0.79	7.667	0.701	17.30	
4hr	1.53	29.07	2.01	58.43	10.59	1.58	9.007	0.847	20.60	
6hr	1.71	32.49	1.97	64.01	11.60	2.38	9.225	0.894	21.65	
10hr	2.00	38.00	1.97	74.86	13.57	3.96	9.608	0.982	23.60	
24hr	2.55	48.45	1.89	91.57	16.60	9.50	7.093	0.958	23.06	
48hr	3.00	57.00	1.81	103.17	18.70	19.01	-0.308	0.670	16.57	

Soakaway Parameters

Length	1.0 m	Width	10.0 m
Depth	1.2 m	Void	95 %

Results

Critical storm duration (hrs)	10hr
Minimum Required Length (m)	0.982
Half Time Empty (hrs)	23.60

PASS

AquaCell Modular Units

No. Units Long	1	No. Units Wide	20
No. Units Deep	3		
Total Number of Units	60	Unit Type	



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