

WAVIN Stormwater Management

AquaCell Soakaway designed in accordance with CIRIA 156

Project & Site Details

Project Number	S19988	Produced by	Mark Henly
Client	Tim Murray	Checked by	
Site Name	8 West Drive, Middleton-on-Sea		
Location	PO22 7TS	Date	03/02/2021

Drainage Details

Area	65 m ²	Climate Change	40 %
Catchment Type	Roof	Effective Area	82 m ²
Area Reduction Factor	0.9	Additional Inflow	0.00 l/s

Discharge Parameters

Infiltration Rate	1.90E-05	Soil Type	Unknown
Factor of Safety	3	Source	Unknown
Effective Infiltration Rate	6.33E-06		
Additional Outflow*	0.00 l/s	Depth to Groundwater (m)	Unknown

*flat rate from pump only

Rainfall Data

Rainfall Data					Storm Return Period			1 in 100 years	
R value		0.35			Country			England and Wales	
M5-60		18							
Time	Z1 Value	y mm	Z2 Value	p mm	Value i	a	b	Storage Height	Time To Half-Empty
5min	0.36	6.48	1.81	11.73	0.14	-38.12	0.031	0.099	1.88
10min	0.51	9.18	1.89	17.35	0.10	-28.00	0.031	0.145	2.65
15min	0.61	10.98	1.91	20.97	0.08	-22.41	0.031	0.174	3.10
30min	0.78	14.04	1.91	26.82	0.05	-14.05	0.031	0.217	3.74
1hr	1.00	18.00	1.99	35.82	0.04	-9.13	0.031	0.280	4.60
2hr	1.21	21.78	2.03	44.21	0.02	-5.34	0.031	0.323	5.13
4hr	1.53	27.54	2.01	55.36	0.01	-3.05	0.031	0.358	5.55
6hr	1.71	30.78	1.97	60.64	0.01	-2.02	0.031	0.345	5.40
10hr	2.00	36.00	1.97	70.92	0.01	-1.19	0.031	0.319	5.08
24hr	2.55	45.90	1.89	86.75	0.00	-0.23	0.031	0.121	2.26
48hr	3.00	54.00	1.81	97.74	0.00	0.21	0.031	-0.160	-3.97

Soakaway Parameters

Length	4.0 m	Width	2.5 m
Depth	0.4 m	Void	95 %

Results

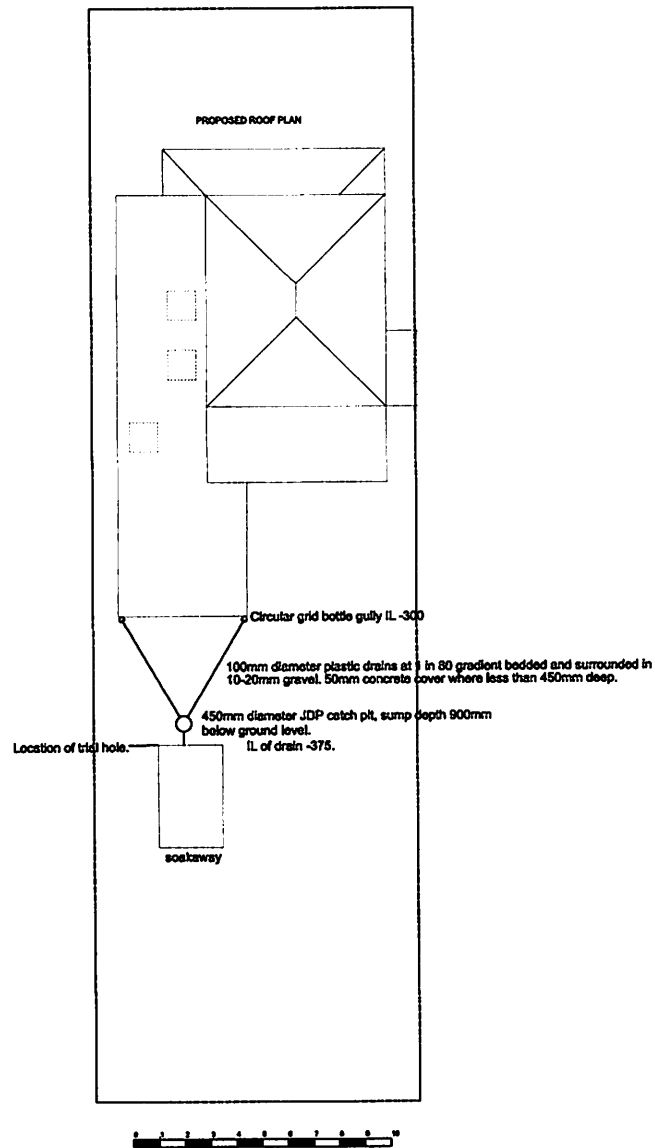
Critical storm duration (hrs)	4hr	
Required Storage Height (m)	0.358	PASS
Half Time Empty (hrs)	5.55	PASS

AquaCell Modular Units

No. Units Long	4	No. Units Wide	5
No. Units Deep	1		
Total Number of Units	20	Unit Type	Unknown



CONNECT TO BETTER



REVISIONS	
NOTES 1. All work to be completed in accordance with the provisions of the Building Regulations 2010 and the Building Regulations 2010 (Amendment) Regulations 2011. 2. All work to be completed in accordance with the provisions of the Building Regulations 2010 and the Building Regulations 2010 (Amendment) Regulations 2011. 3. All work to be completed in accordance with the provisions of the Building Regulations 2010 and the Building Regulations 2010 (Amendment) Regulations 2011. 4. All work to be completed in accordance with the provisions of the Building Regulations 2010 and the Building Regulations 2010 (Amendment) Regulations 2011. 5. All work to be completed in accordance with the provisions of the Building Regulations 2010 and the Building Regulations 2010 (Amendment) Regulations 2011. 6. All work to be completed in accordance with the provisions of the Building Regulations 2010 and the Building Regulations 2010 (Amendment) Regulations 2011. 7. All work to be completed in accordance with the provisions of the Building Regulations 2010 and the Building Regulations 2010 (Amendment) Regulations 2011. 8. All work to be completed in accordance with the provisions of the Building Regulations 2010 and the Building Regulations 2010 (Amendment) Regulations 2011. 9. All work to be completed in accordance with the provisions of the Building Regulations 2010 and the Building Regulations 2010 (Amendment) Regulations 2011. 10. All work to be completed in accordance with the provisions of the Building Regulations 2010 and the Building Regulations 2010 (Amendment) Regulations 2011.	
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PROJECT DATA 8 WEST OURN, MILLBROOK ON SEA WEST SUSSEX, PO22 7TB	
EXTENSION FOR: GARY LONCHURST	
DRAWING DATE: AUGUST 2014 DRAWN: T. Murray	SCALE 1/100 REVISIONS