

Tridax Ltd		Page 1
Honeywood House Whitfield Kent CT16 3EH	423 Dover Road, Deal	
Date 03/01/2023 12:22 File T-2022-115 SA1.SRCX	Designed by prl Checked by	
XP Solutions	Source Control 2020.1.3	



Summary of Results for 100 year Return Period (+40%)

Half Drain Time : 68 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	8.741	0.741	0.9	4.9	O K
30 min Summer	8.894	0.894	1.0	5.9	O K
60 min Summer	8.952	0.952	1.0	6.3	O K
120 min Summer	8.921	0.921	1.0	6.1	O K
180 min Summer	8.866	0.866	1.0	5.8	O K
240 min Summer	8.812	0.812	1.0	5.4	O K
360 min Summer	8.714	0.714	0.9	4.8	O K
480 min Summer	8.630	0.630	0.8	4.2	O K
600 min Summer	8.557	0.557	0.8	3.7	O K
720 min Summer	8.493	0.493	0.7	3.3	O K
960 min Summer	8.387	0.387	0.7	2.6	O K
1440 min Summer	8.237	0.237	0.6	1.6	O K
15 min Winter	8.838	0.838	1.0	5.6	O K
30 min Winter	9.018	1.018	1.1	6.8	O K
60 min Winter	9.090	1.090	1.1	7.3	O K
120 min Winter	9.048	1.048	1.1	7.0	O K
180 min Winter	8.971	0.971	1.1	6.5	O K
240 min Winter	8.891	0.891	1.0	5.9	O K
360 min Winter	8.750	0.750	0.9	5.0	O K
480 min Winter	8.632	0.632	0.8	4.2	O K
600 min Winter	8.533	0.533	0.8	3.5	O K
720 min Winter	8.449	0.449	0.7	3.0	O K
960 min Winter	8.314	0.314	0.6	2.1	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	185.630	0.0	17
30 min Summer	120.567	0.0	31
60 min Summer	73.889	0.0	52
120 min Summer	43.472	0.0	84
180 min Summer	31.706	0.0	120
240 min Summer	25.287	0.0	154
360 min Summer	18.336	0.0	222
480 min Summer	14.573	0.0	288
600 min Summer	12.186	0.0	350
720 min Summer	10.523	0.0	414
960 min Summer	8.342	0.0	540
1440 min Summer	6.003	0.0	780
15 min Winter	185.630	0.0	17
30 min Winter	120.567	0.0	31
60 min Winter	73.889	0.0	56
120 min Winter	43.472	0.0	90
180 min Winter	31.706	0.0	128
240 min Winter	25.287	0.0	166
360 min Winter	18.336	0.0	236
480 min Winter	14.573	0.0	304
600 min Winter	12.186	0.0	370
720 min Winter	10.523	0.0	434
960 min Winter	8.342	0.0	560

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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
1440 min Winter	8.137	0.137	0.5	0.9	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
1440 min Winter	6.003	0.0	794

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	26.250	Shortest Storm (mins)	15
Ratio R	0.400	Longest Storm (mins)	1440
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.016

Time (mins)	Area
From:	To: (ha)
0	4 0.016

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Model Details

Storage is Online Cover Level (m) 10.000

Cellular Storage Structure

Invert Level (m) 8.000 Safety Factor 2.0
 Infiltration Coefficient Base (m/hr) 0.43000 Porosity 0.95
 Infiltration Coefficient Side (m/hr) 0.43000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	7.0	7.0	1.200	7.0	20.2	1.201	0.0	20.2