

Tridax Ltd		Page 1
Honeywood House Whitfield Kent CT16 3EH	423 Dover Road, Deal	
Date 03/01/2023 12:26	Designed by prl	
File T-2022-115 Permeable Pav...	Checked by	
XP Solutions	Source Control 2020.1.3	



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

Half Drain Time : 4 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	9.597	0.047	2.8	0.7	O K
30 min Summer	9.595	0.045	2.7	0.7	O K
60 min Summer	9.585	0.035	2.1	0.5	O K
120 min Summer	9.575	0.025	1.5	0.4	O K
180 min Summer	9.569	0.019	1.2	0.3	O K
240 min Summer	9.566	0.016	1.0	0.2	O K
360 min Summer	9.562	0.012	0.7	0.2	O K
480 min Summer	9.560	0.010	0.6	0.1	O K
600 min Summer	9.558	0.008	0.5	0.1	O K
720 min Summer	9.557	0.007	0.4	0.1	O K
960 min Summer	9.556	0.006	0.3	0.1	O K
1440 min Summer	9.554	0.004	0.3	0.1	O K
15 min Winter	9.600	0.050	3.0	0.8	O K
30 min Winter	9.594	0.044	2.6	0.7	O K
60 min Winter	9.582	0.032	1.9	0.5	O K
120 min Winter	9.570	0.020	1.2	0.3	O K
180 min Winter	9.565	0.015	0.9	0.2	O K
240 min Winter	9.562	0.012	0.7	0.2	O K
360 min Winter	9.559	0.009	0.6	0.1	O K
480 min Winter	9.557	0.007	0.4	0.1	O K
600 min Winter	9.556	0.006	0.4	0.1	O K
720 min Winter	9.555	0.005	0.3	0.1	O K
960 min Winter	9.554	0.004	0.3	0.1	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	185.630	0.0	12
30 min Summer	120.567	0.0	19
60 min Summer	73.889	0.0	34
120 min Summer	43.472	0.0	66
180 min Summer	31.706	0.0	96
240 min Summer	25.287	0.0	124
360 min Summer	18.336	0.0	186
480 min Summer	14.573	0.0	246
600 min Summer	12.186	0.0	306
720 min Summer	10.523	0.0	366
960 min Summer	8.342	0.0	488
1440 min Summer	6.003	0.0	720
15 min Winter	185.630	0.0	12
30 min Winter	120.567	0.0	20
60 min Winter	73.889	0.0	36
120 min Winter	43.472	0.0	66
180 min Winter	31.706	0.0	94
240 min Winter	25.287	0.0	124
360 min Winter	18.336	0.0	184
480 min Winter	14.573	0.0	240
600 min Winter	12.186	0.0	304
720 min Winter	10.523	0.0	362
960 min Winter	8.342	0.0	488


Tridax Ltd		Page 2
Honeywood House Whitfield Kent CT16 3EH	423 Dover Road, Deal	
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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	9.553	0.003	0.2	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
1440 min Winter	6.003	0.0	764

Tridax Ltd		Page 3
Honeywood House Whitfield Kent CT16 3EH	423 Dover Road, Deal	
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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) 0.005

Time (mins)	Area
From: To:	(ha)
0	4 0.005

Tridax Ltd		Page 4
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Model Details

Storage is Online Cover Level (m) 10.000

Porous Car Park Structure

Infiltration Coefficient Base (m/hr)	0.43000		Width (m)	7.1
Membrane Percolation (mm/hr)	1000		Length (m)	7.1
Max Percolation (l/s)	14.0		Slope (1:X)	0.0
Safety Factor	2.0	Depression Storage (mm)		0
Porosity	0.30	Evaporation (mm/day)		0
Invert Level (m)	9.550	Membrane Depth (m)		0