



TOPPING ENGINEERS

CONSULTING CIVIL &
STRUCTURAL ENGINEERS

DRAINAGE CALCULATIONS

LOCATION:

The Hawthorns
Rimington Lane
Rimington

CLIENT:

Mr and Mrs Holmes

DOCUMENT REF:

23379-Calcs-C- 001

REVISION/DATE:

Nov 2023

Topping Engineers Ltd				Page 1																																																																																																																																																																																																																			
Aire House 12 Victoria Avenue Harrogate, HG1 1ED		The Hawthorns Rimington Lane																																																																																																																																																																																																																					
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Summary of Results for 100 year Return Period (+40%) Half Drain Time : 1022 minutes. <table><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr><tr><td>15 min Summer</td><td>149.331</td><td>0.231</td><td>0.4</td><td>14.8</td><td>O K</td></tr><tr><td>30 min Summer</td><td>149.428</td><td>0.328</td><td>0.4</td><td>21.0</td><td>O K</td></tr><tr><td>60 min Summer</td><td>149.542</td><td>0.442</td><td>0.4</td><td>28.3</td><td>O K</td></tr><tr><td>120 min Summer</td><td>149.667</td><td>0.567</td><td>0.4</td><td>36.3</td><td>O K</td></tr><tr><td>180 min Summer</td><td>149.736</td><td>0.636</td><td>0.4</td><td>40.8</td><td>O K</td></tr><tr><td>240 min Summer</td><td>149.782</td><td>0.682</td><td>0.5</td><td>43.7</td><td>O K</td></tr><tr><td>360 min Summer</td><td>149.843</td><td>0.743</td><td>0.5</td><td>47.6</td><td>O K</td></tr><tr><td>480 min Summer</td><td>149.880</td><td>0.780</td><td>0.5</td><td>50.0</td><td>O K</td></tr><tr><td>600 min Summer</td><td>149.902</td><td>0.802</td><td>0.5</td><td>51.5</td><td>O K</td></tr><tr><td>720 min Summer</td><td>149.919</td><td>0.819</td><td>0.5</td><td>52.3</td><td>O K</td></tr><tr><td>960 min Summer</td><td>149.937</td><td>0.837</td><td>0.5</td><td>52.9</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>149.937</td><td>0.837</td><td>0.5</td><td>52.9</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>149.906</td><td>0.806</td><td>0.5</td><td>51.6</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>149.881</td><td>0.781</td><td>0.5</td><td>50.1</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>149.829</td><td>0.729</td><td>0.5</td><td>46.8</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>149.777</td><td>0.677</td><td>0.5</td><td>43.4</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>149.725</td><td>0.625</td><td>0.4</td><td>40.1</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>149.677</td><td>0.577</td><td>0.4</td><td>37.0</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>149.631</td><td>0.531</td><td>0.4</td><td>34.0</td><td>O K</td></tr><tr><td>15 min Winter</td><td>149.331</td><td>0.231</td><td>0.4</td><td>14.8</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>106.934</td><td>0.0</td><td>26</td></tr><tr><td>30 min Summer</td><td>76.143</td><td>0.0</td><td>41</td></tr><tr><td>60 min Summer</td><td>52.002</td><td>0.0</td><td>70</td></tr><tr><td>120 min Summer</td><td>34.189</td><td>0.0</td><td>130</td></tr><tr><td>180 min Summer</td><td>26.194</td><td>0.0</td><td>188</td></tr><tr><td>240 min Summer</td><td>21.515</td><td>0.0</td><td>248</td></tr><tr><td>360 min Summer</td><td>16.307</td><td>0.0</td><td>366</td></tr><tr><td>480 min Summer</td><td>13.364</td><td>0.0</td><td>484</td></tr><tr><td>600 min Summer</td><td>11.437</td><td>0.0</td><td>602</td></tr><tr><td>720 min Summer</td><td>10.062</td><td>0.0</td><td>720</td></tr><tr><td>960 min Summer</td><td>8.208</td><td>0.0</td><td>880</td></tr><tr><td>1440 min Summer</td><td>6.140</td><td>0.0</td><td>1126</td></tr><tr><td>2160 min Summer</td><td>4.576</td><td>0.0</td><td>1520</td></tr><tr><td>2880 min Summer</td><td>3.711</td><td>0.0</td><td>1936</td></tr><tr><td>4320 min Summer</td><td>2.769</td><td>0.0</td><td>2768</td></tr><tr><td>5760 min Summer</td><td>2.252</td><td>0.0</td><td>3584</td></tr><tr><td>7200 min Summer</td><td>1.920</td><td>0.0</td><td>4400</td></tr><tr><td>8640 min Summer</td><td>1.688</td><td>0.0</td><td>5192</td></tr><tr><td>10080 min Summer</td><td>1.515</td><td>0.0</td><td>5952</td></tr><tr><td>15 min Winter</td><td>106.934</td><td>0.0</td><td>26</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	149.331	0.231	0.4	14.8	O K	30 min Summer	149.428	0.328	0.4	21.0	O K	60 min Summer	149.542	0.442	0.4	28.3	O K	120 min Summer	149.667	0.567	0.4	36.3	O K	180 min Summer	149.736	0.636	0.4	40.8	O K	240 min Summer	149.782	0.682	0.5	43.7	O K	360 min Summer	149.843	0.743	0.5	47.6	O K	480 min Summer	149.880	0.780	0.5	50.0	O K	600 min Summer	149.902	0.802	0.5	51.5	O K	720 min Summer	149.919	0.819	0.5	52.3	O K	960 min Summer	149.937	0.837	0.5	52.9	O K	1440 min Summer	149.937	0.837	0.5	52.9	O K	2160 min Summer	149.906	0.806	0.5	51.6	O K	2880 min Summer	149.881	0.781	0.5	50.1	O K	4320 min Summer	149.829	0.729	0.5	46.8	O K	5760 min Summer	149.777	0.677	0.5	43.4	O K	7200 min Summer	149.725	0.625	0.4	40.1	O K	8640 min Summer	149.677	0.577	0.4	37.0	O K	10080 min Summer	149.631	0.531	0.4	34.0	O K	15 min Winter	149.331	0.231	0.4	14.8	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	106.934	0.0	26	30 min Summer	76.143	0.0	41	60 min Summer	52.002	0.0	70	120 min Summer	34.189	0.0	130	180 min 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Date 27/11/2023 14:25 File Soakaway.SRCX			Designed by PB Checked by			
Innovyze			Source Control 2019.1			
Summary of Results for 100 year Return Period (+40%)						
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	
30 min Winter	149.428	0.328		0.4 21.0	O K	
60 min Winter	149.542	0.442		0.4 28.3	O K	
120 min Winter	149.668	0.568		0.4 36.4	O K	
180 min Winter	149.738	0.638		0.4 40.9	O K	
240 min Winter	149.784	0.684		0.5 43.9	O K	
360 min Winter	149.847	0.747		0.5 47.9	O K	
480 min Winter	149.885	0.785		0.5 50.3	O K	
600 min Winter	149.910	0.810		0.5 51.9	O K	
720 min Winter	149.933	0.833		0.5 52.8	O K	
960 min Winter	150.127	1.027		0.5 53.6	O K	
1440 min Winter	149.943	0.843		0.5 53.0	O K	
2160 min Winter	149.897	0.797		0.5 51.1	O K	
2880 min Winter	149.857	0.757		0.5 48.5	O K	
4320 min Winter	149.771	0.671		0.5 43.1	O K	
5760 min Winter	149.687	0.587		0.4 37.6	O K	
7200 min Winter	149.608	0.508		0.4 32.6	O K	
8640 min Winter	149.536	0.436		0.4 27.9	O K	
10080 min Winter	149.470	0.370		0.4 23.7	O K	
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)			
30 min Winter	76.143	0.0	40			
60 min Winter	52.002	0.0	70			
120 min Winter	34.189	0.0	126			
180 min Winter	26.194	0.0	184			
240 min Winter	21.515	0.0	242			
360 min Winter	16.307	0.0	358			
480 min Winter	13.364	0.0	472			
600 min Winter	11.437	0.0	586			
720 min Winter	10.062	0.0	698			
960 min Winter	8.208	0.0	912			
1440 min Winter	6.140	0.0	1152			
2160 min Winter	4.576	0.0	1608			
2880 min Winter	3.711	0.0	2076			
4320 min Winter	2.769	0.0	2952			
5760 min Winter	2.252	0.0	3808			
7200 min Winter	1.920	0.0	4624			
8640 min Winter	1.688	0.0	5448			
10080 min Winter	1.515	0.0	6248			
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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	18.400	Shortest Storm (mins)	15
Ratio R	0.250	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.057

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
From:	To:	From:	To:	From:	To:
0	4	4	8	8	12
	0.019		0.019		0.019

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Model Details

Storage is Online Cover Level (m) 150.500

Cellular Storage Structure

Invert Level (m) 149.100 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.03636 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.03636

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	67.5	67.5	0.900	0.0	93.9
0.800	67.5	93.9			

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Summary of Results for 100 year Return Period (+40%)					
Half Drain Time : 76 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	150.139	0.069	0.9	3.4	O K
30 min Summer	150.167	0.097	0.9	4.9	O K
60 min Summer	150.194	0.124	0.9	6.4	O K
120 min Summer	150.213	0.143	0.9	7.4	Flood Risk
180 min Summer	150.218	0.148	0.9	7.7	Flood Risk
240 min Summer	150.216	0.146	0.9	7.6	Flood Risk
360 min Summer	150.209	0.139	0.9	7.2	Flood Risk
480 min Summer	150.199	0.129	0.9	6.7	O K
600 min Summer	150.188	0.118	0.9	6.1	O K
720 min Summer	150.178	0.108	0.9	5.5	O K
960 min Summer	150.158	0.088	0.9	4.4	O K
1440 min Summer	150.130	0.060	0.9	2.9	O K
2160 min Summer	150.114	0.044	0.8	2.0	O K
2880 min Summer	150.107	0.037	0.7	1.6	O K
4320 min Summer	150.098	0.028	0.5	1.2	O K
5760 min Summer	150.093	0.023	0.4	0.9	O K
7200 min Summer	150.090	0.020	0.4	0.7	O K
8640 min Summer	150.088	0.018	0.3	0.6	O K
10080 min Summer	150.086	0.016	0.3	0.5	O K
15 min Winter	150.139	0.069	0.9	3.4	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	106.934	0.0	17		
30 min Summer	76.143	0.0	31		
60 min Summer	52.002	0.0	58		
120 min Summer	34.189	0.0	92		
180 min Summer	26.194	0.0	126		
240 min Summer	21.515	0.0	160		
360 min Summer	16.307	0.0	230		
480 min Summer	13.364	0.0	296		
600 min Summer	11.437	0.0	362		
720 min Summer	10.062	0.0	426		
960 min Summer	8.208	0.0	548		
1440 min Summer	6.140	0.0	768		
2160 min Summer	4.576	0.0	1108		
2880 min Summer	3.711	0.0	1472		
4320 min Summer	2.769	0.0	2204		
5760 min Summer	2.252	0.0	2936		
7200 min Summer	1.920	0.0	3664		
8640 min Summer	1.688	0.0	4376		
10080 min Summer	1.515	0.0	5136		
15 min Winter	106.934	0.0	17		
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Innovyze Source Control 2019.1

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

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	150.167	0.097	0.9	4.9	O K
60 min Winter	150.193	0.123	0.9	6.4	O K
120 min Winter	150.210	0.140	0.9	7.3	Flood Risk
180 min Winter	150.212	0.142	0.9	7.4	Flood Risk
240 min Winter	150.207	0.137	0.9	7.1	Flood Risk
360 min Winter	150.193	0.123	0.9	6.3	O K
480 min Winter	150.176	0.106	0.9	5.4	O K
600 min Winter	150.159	0.089	0.9	4.5	O K
720 min Winter	150.145	0.075	0.9	3.7	O K
960 min Winter	150.123	0.053	0.9	2.5	O K
1440 min Winter	150.110	0.040	0.7	1.8	O K
2160 min Winter	150.101	0.031	0.6	1.3	O K
2880 min Winter	150.095	0.025	0.5	1.0	O K
4320 min Winter	150.089	0.019	0.3	0.6	O K
5760 min Winter	150.085	0.015	0.3	0.4	O K
7200 min Winter	150.084	0.014	0.2	0.4	O K
8640 min Winter	150.083	0.013	0.2	0.3	O K
10080 min Winter	150.082	0.012	0.2	0.3	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	76.143	0.0	31
60 min Winter	52.002	0.0	58
120 min Winter	34.189	0.0	94
180 min Winter	26.194	0.0	134
240 min Winter	21.515	0.0	172
360 min Winter	16.307	0.0	244
480 min Winter	13.364	0.0	312
600 min Winter	11.437	0.0	374
720 min Winter	10.062	0.0	434
960 min Winter	8.208	0.0	532
1440 min Winter	6.140	0.0	764
2160 min Winter	4.576	0.0	1124
2880 min Winter	3.711	0.0	1496
4320 min Winter	2.769	0.0	2180
5760 min Winter	2.252	0.0	2888
7200 min Winter	1.920	0.0	3696
8640 min Winter	1.688	0.0	4264
10080 min Winter	1.515	0.0	5136

Topping Engineers Ltd		Page 3																														
Aire House 12 Victoria Avenue Harrogate, HG1 1ED	The Hawthorns Rimington Lane																															
Date 27/11/2023 14:44 File POROUS PAVING.SRCX	Designed by PB Checked by																															
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