

Polypipe Civils					Page 1																																																																																																																																																																																																																			
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<u>Summary of Results for 10 year Return Period (+40%)</u> Half Drain Time : 335 minutes. <table><thead><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></thead><tbody><tr><td>15 min Summer</td><td>98.743</td><td>0.143</td><td>0.1</td><td>1.9</td><td>O K</td></tr><tr><td>30 min Summer</td><td>98.786</td><td>0.186</td><td>0.1</td><td>2.5</td><td>O K</td></tr><tr><td>60 min Summer</td><td>98.828</td><td>0.228</td><td>0.1</td><td>3.0</td><td>O K</td></tr><tr><td>120 min Summer</td><td>98.866</td><td>0.266</td><td>0.1</td><td>3.5</td><td>O K</td></tr><tr><td>180 min Summer</td><td>98.881</td><td>0.281</td><td>0.1</td><td>3.7</td><td>O K</td></tr><tr><td>240 min Summer</td><td>98.887</td><td>0.287</td><td>0.1</td><td>3.8</td><td>O K</td></tr><tr><td>360 min Summer</td><td>98.890</td><td>0.290</td><td>0.1</td><td>3.9</td><td>O K</td></tr><tr><td>480 min 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Summer	98.786	0.186	0.1	2.5	O K	60 min Summer	98.828	0.228	0.1	3.0	O K	120 min Summer	98.866	0.266	0.1	3.5	O K	180 min Summer	98.881	0.281	0.1	3.7	O K	240 min Summer	98.887	0.287	0.1	3.8	O K	360 min Summer	98.890	0.290	0.1	3.9	O K	480 min Summer	98.889	0.289	0.1	3.8	O K	600 min Summer	98.886	0.286	0.1	3.8	O K	720 min Summer	98.882	0.282	0.1	3.8	O K	960 min Summer	98.871	0.271	0.1	3.6	O K	1440 min Summer	98.848	0.248	0.1	3.3	O K	2160 min Summer	98.813	0.213	0.1	2.8	O K	2880 min Summer	98.781	0.181	0.1	2.4	O K	4320 min Summer	98.728	0.128	0.1	1.7	O K	5760 min Summer	98.690	0.090	0.1	1.2	O K	7200 min Summer	98.664	0.064	0.1	0.9	O K	8640 min Summer	98.651	0.051	0.1	0.7	O K	10080 min Summer	98.646	0.046	0.1	0.6	O K	15 min Winter	98.760	0.160	0.1	2.1	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	76.214	0.0	25	30 min Summer	50.290	0.0	39	60 min Summer	31.908	0.0	68	120 min Summer	19.755	0.0	124	180 min Summer	14.804	0.0	182	240 min Summer	12.028	0.0	240	360 min Summer	8.957	0.0	298	480 min Summer	7.262	0.0	362	600 min Summer	6.168	0.0	428	720 min Summer	5.396	0.0	498	960 min Summer	4.369	0.0	636	1440 min Summer	3.241	0.0	912	2160 min Summer	2.402	0.0	1304	2880 min Summer	1.942	0.0	1700	4320 min Summer	1.437	0.0	2424	5760 min Summer	1.161	0.0	3120	7200 min Summer	0.983	0.0	3760	8640 min Summer	0.859	0.0	4416	10080 min Summer	0.766	0.0	5144	15 min Winter	76.214	0.0	25
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Charnwood Business Park		44977				
Loughborough		7 Middleton Road, Felpham				
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Date 29/09/2020		Designed by KCJ				
File T-MD-44977-KCJ-MD2.SRCX		Checked by				
Micro Drainage		Source Control 2016.1				
Summary of Results for 10 year Return Period (+40%)						
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	
30 min Winter	98.809	0.209	0.1	2.8	O K	
60 min Winter	98.858	0.258	0.1	3.4	O K	
120 min Winter	98.902	0.302	0.1	4.0	O K	
180 min Winter	98.922	0.322	0.1	4.3	O K	
240 min Winter	98.931	0.331	0.1	4.4	O K	
360 min Winter	98.934	0.334	0.1	4.4	O K	
480 min Winter	98.932	0.332	0.1	4.4	O K	
600 min Winter	98.927	0.327	0.1	4.4	O K	
720 min Winter	98.921	0.321	0.1	4.3	O K	
960 min Winter	98.904	0.304	0.1	4.0	O K	
1440 min Winter	98.866	0.266	0.1	3.5	O K	
2160 min Winter	98.812	0.212	0.1	2.8	O K	
2880 min Winter	98.764	0.164	0.1	2.2	O K	
4320 min Winter	98.691	0.091	0.1	1.2	O K	
5760 min Winter	98.651	0.051	0.1	0.7	O K	
7200 min Winter	98.643	0.043	0.1	0.6	O K	
8640 min Winter	98.638	0.038	0.1	0.5	O K	
10080 min Winter	98.634	0.034	0.1	0.4	O K	
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)			
30 min Winter	50.290	0.0	39			
60 min Winter	31.908	0.0	68			
120 min Winter	19.755	0.0	124			
180 min Winter	14.804	0.0	180			
240 min Winter	12.028	0.0	236			
360 min Winter	8.957	0.0	338			
480 min Winter	7.262	0.0	384			
600 min Winter	6.168	0.0	460			
720 min Winter	5.396	0.0	538			
960 min Winter	4.369	0.0	692			
1440 min Winter	3.241	0.0	984			
2160 min Winter	2.402	0.0	1396			
2880 min Winter	1.942	0.0	1788			
4320 min Winter	1.437	0.0	2476			
5760 min Winter	1.161	0.0	3000			
7200 min Winter	0.983	0.0	3720			
8640 min Winter	0.859	0.0	4416			
10080 min Winter	0.766	0.0	5144			
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<u>Model Details</u> Storage is Online Cover Level (m) 100.000 <u>Cellular Storage Structure</u> Invert Level (m) 98.600 Safety Factor 2.0 Infiltration Coefficient Base (m/hr) 0.04560 Porosity 0.95 Infiltration Coefficient Side (m/hr) 0.04560 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> </tr> </thead> <tbody> <tr> <td>0.000</td> <td>14.0</td> <td>14.0</td> <td>0.500</td> <td>0.0</td> <td>20.0</td> </tr> <tr> <td>0.400</td> <td>14.0</td> <td>20.0</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	0.000	14.0	14.0	0.500	0.0	20.0	0.400	14.0	20.0			
Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)															
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