

Polypipe Civils			Page 1																																																																																																																																																																																																																			
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Summary of Results for 100 year Return Period (+40%) Half Drain Time : 527 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>98.735</td><td>0.135</td><td>0.1</td><td>2.0</td><td>O K</td></tr><tr><td>30 min Summer</td><td>98.779</td><td>0.179</td><td>0.1</td><td>2.7</td><td>O K</td></tr><tr><td>60 min Summer</td><td>98.824</td><td>0.224</td><td>0.1</td><td>3.4</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>4.0</td><td>O K</td></tr><tr><td>180 min Summer</td><td>98.885</td><td>0.285</td><td>0.1</td><td>4.3</td><td>O K</td></tr><tr><td>240 min Summer</td><td>98.894</td><td>0.294</td><td>0.1</td><td>4.5</td><td>O K</td></tr><tr><td>360 min Summer</td><td>98.899</td><td>0.299</td><td>0.1</td><td>4.5</td><td>O K</td></tr><tr><td>480 min Summer</td><td>98.898</td><td>0.298</td><td>0.1</td><td>4.5</td><td>O K</td></tr><tr><td>600 min Summer</td><td>98.896</td><td>0.296</td><td>0.1</td><td>4.5</td><td>O K</td></tr><tr><td>720 min Summer</td><td>98.893</td><td>0.293</td><td>0.1</td><td>4.4</td><td>O K</td></tr><tr><td>960 min Summer</td><td>98.885</td><td>0.285</td><td>0.1</td><td>4.3</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>98.865</td><td>0.265</td><td>0.1</td><td>4.0</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>98.836</td><td>0.236</td><td>0.1</td><td>3.6</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>98.808</td><td>0.208</td><td>0.1</td><td>3.2</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>98.759</td><td>0.159</td><td>0.1</td><td>2.4</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>98.721</td><td>0.121</td><td>0.1</td><td>1.8</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>98.691</td><td>0.091</td><td>0.1</td><td>1.4</td><td>O K</td></tr><tr><td>8640 min 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Summer	98.779	0.179	0.1	2.7	O K	60 min Summer	98.824	0.224	0.1	3.4	O K	120 min Summer	98.866	0.266	0.1	4.0	O K	180 min Summer	98.885	0.285	0.1	4.3	O K	240 min Summer	98.894	0.294	0.1	4.5	O K	360 min Summer	98.899	0.299	0.1	4.5	O K	480 min Summer	98.898	0.298	0.1	4.5	O K	600 min Summer	98.896	0.296	0.1	4.5	O K	720 min Summer	98.893	0.293	0.1	4.4	O K	960 min Summer	98.885	0.285	0.1	4.3	O K	1440 min Summer	98.865	0.265	0.1	4.0	O K	2160 min Summer	98.836	0.236	0.1	3.6	O K	2880 min Summer	98.808	0.208	0.1	3.2	O K	4320 min Summer	98.759	0.159	0.1	2.4	O K	5760 min Summer	98.721	0.121	0.1	1.8	O K	7200 min Summer	98.691	0.091	0.1	1.4	O K	8640 min Summer	98.670	0.070	0.1	1.1	O K	10080 min Summer	98.655	0.055	0.1	0.8	O K	15 min Winter	98.751	0.151	0.1	2.3	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	124.633	0.0	19	30 min Summer	83.789	0.0	33	60 min Summer	53.779	0.0	62	120 min Summer	33.337	0.0	122	180 min Summer	24.832	0.0	182	240 min Summer	20.006	0.0	242	360 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Loughborough	Middleton Road, Felpham				
Leicestershire LE11 1LE	4m x 4m x 0.4m				
Date 01/12/20	Designed by TR				
File T-MD-44977_TR_MD7 (92m²...	Checked by				
Micro Drainage	Source Control 2016.1				
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	98.801	0.201	0.1	3.1	O K
60 min Winter	98.853	0.253	0.1	3.8	O K
120 min Winter	98.901	0.301	0.1	4.6	O K
180 min Winter	98.924	0.324	0.1	4.9	O K
240 min Winter	98.935	0.335	0.1	5.1	O K
360 min Winter	98.945	0.345	0.1	5.2	O K
480 min Winter	98.945	0.345	0.1	5.2	O K
600 min Winter	98.941	0.341	0.1	5.2	O K
720 min Winter	98.936	0.336	0.1	5.1	O K
960 min Winter	98.925	0.325	0.1	4.9	O K
1440 min Winter	98.897	0.297	0.1	4.5	O K
2160 min Winter	98.852	0.252	0.1	3.8	O K
2880 min Winter	98.810	0.210	0.1	3.2	O K
4320 min Winter	98.740	0.140	0.1	2.1	O K
5760 min Winter	98.687	0.087	0.1	1.3	O K
7200 min Winter	98.654	0.054	0.1	0.8	O K
8640 min Winter	98.645	0.045	0.1	0.7	O K
10080 min Winter	98.640	0.040	0.1	0.6	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	83.789	0.0	33		
60 min Winter	53.779	0.0	62		
120 min Winter	33.337	0.0	120		
180 min Winter	24.832	0.0	178		
240 min Winter	20.006	0.0	236		
360 min Winter	14.706	0.0	348		
480 min Winter	11.818	0.0	456		
600 min Winter	9.966	0.0	548		
720 min Winter	8.665	0.0	572		
960 min Winter	6.943	0.0	724		
1440 min Winter	5.071	0.0	1026		
2160 min Winter	3.696	0.0	1468		
2880 min Winter	2.949	0.0	1876		
4320 min Winter	2.142	0.0	2640		
5760 min Winter	1.705	0.0	3336		
7200 min Winter	1.427	0.0	3888		
8640 min Winter	1.235	0.0	4496		
10080 min Winter	1.093	0.0	5240		
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Polypipe Civils		Page 3																																	
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Model Details

Storage is Online Cover Level (m) 100.000

Cellular Storage Structure

Invert Level (m) 98.600 Safety Factor 3.0
Infiltration Coefficient Base (m/hr) 0.04561 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.04561

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	16.0	16.0	0.500	0.0	22.4
0.400	16.0	22.4			

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