



Micro Drainage®

Designed by m.hayes

Checked by

Source Control 2013.1.1

Half Drain Time : 8 minutes.

Storm Event		Rain (mm/hr)	Flooded Volume (m ³)	Discharge Volume (m ³)	Time-Peak (mins)
15 min	Summer	106.828	0.0	35.2	13
30 min	Summer	71.819	0.0	47.4	21
60 min	Summer	46.096	0.0	60.8	36
120 min	Summer	28.574	0.0	75.4	68
180 min	Summer	21.285	0.0	84.3	98
240 min	Summer	17.148	0.0	90.5	128
360 min	Summer	12.605	0.0	99.8	188
480 min	Summer	10.130	0.0	106.9	248
600 min	Summer	8.542	0.0	112.7	308
720 min	Summer	7.427	0.0	117.6	368
960 min	Summer	5.951	0.0	125.7	490
1440 min	Summer	4.347	0.0	137.7	734
2160 min	Summer	3.168	0.0	150.5	1100
2880 min	Summer	2.528	0.0	160.1	1464
4320 min	Summer	1.836	0.0	174.4	2200
5760 min	Summer	1.461	0.0	185.1	2928
7200 min	Summer	1.223	0.0	193.7	3656
8640 min	Summer	1.059	0.0	201.2	4352
10080 min	Summer	0.937	0.0	207.8	5136



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Form element	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Σ Outflow (l/s)	Max Volume (m ³)	Status
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Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Discharge Volume (m ³)	Time-Peak (mins)
15 min Winter	106.828	0.0	39.5	13
30 min Winter	71.819	0.0	53.1	22
60 min Winter	46.096	0.0	68.1	38
120 min Winter	28.574	0.0	84.5	68
180 min Winter	21.285	0.0	94.4	98
240 min Winter	17.148	0.0	101.4	128
360 min Winter	12.605	0.0	111.8	188
480 min Winter	10.130	0.0	119.8	248
600 min Winter	8.542	0.0	126.3	310
720 min Winter	7.427	0.0	131.7	370
960 min Winter	5.951	0.0	140.7	488
1440 min Winter	4.347	0.0	154.2	734
2160 min Winter	3.168	0.0	168.6	1088
2880 min Winter	2.528	0.0	179.4	1468
4320 min Winter	1.836	0.0	195.4	2188
5760 min Winter	1.461	0.0	207.3	2856
7200 min Winter	1.223	0.0	217.0	3576
8640 min Winter	1.059	0.0	225.3	4376
10080 min Winter	0.937	0.0	232.7	5152

Gary Gabriel Associates		Page 3
Kingston House Blackbrook Park Avenue Taunton Somerset TA1...		
Date 22/05/2013 09:19 File ROOF TANK 1760M	Designed by m.hayes Checked by	
Micro Drainage Source Control 2013.1.1		

Model Details

Storage is Offline Dividing Weir Level (m) 35.775
Cover Level (m) 36.275

Cellular Storage Structure

Invert Level (m) 35.775 Safety Factor 10.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	60.0	0.0	1.300	0.0	0.0
0.100	60.0	0.0	1.400	0.0	0.0
0.200	60.0	0.0	1.500	0.0	0.0
0.300	60.0	0.0	1.600	0.0	0.0
0.400	60.0	0.0	1.700	0.0	0.0
0.500	60.0	0.0	1.800	0.0	0.0
0.600	0.0	0.0	1.900	0.0	0.0
0.700	0.0	0.0	2.000	0.0	0.0
0.800	0.0	0.0	2.100	0.0	0.0
0.900	0.0	0.0	2.200	0.0	0.0
1.000	0.0	0.0	2.300	0.0	0.0
1.100	0.0	0.0	2.400	0.0	0.0
1.200	0.0	0.0	2.500	0.0	0.0

Hydro-Brake® Outflow Control

Design Head (m) 0.500 Hydro-Brake® Type Md6 SW Only Invert Level (m) 35.775
Design Flow (l/s) 36.0 Diameter (mm) 224

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	7.4	1.200	33.6	3.000	49.6	7.000	75.7
0.200	19.9	1.400	35.0	3.500	53.6	7.500	78.4
0.300	30.5	1.600	36.8	4.000	57.3	8.000	81.0
0.400	35.1	1.800	38.7	4.500	60.7	8.500	83.5
0.500	35.8	2.000	40.6	5.000	64.0	9.000	85.9
0.600	35.4	2.200	42.5	5.500	67.1	9.500	88.2
0.800	33.6	2.400	44.4	6.000	70.1		
1.000	32.9	2.600	46.2	6.500	73.0		

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