



**Micro
Drainage®**

Designed by m.hayes

Checked by

Source Control 2013.1.1

Half Drain Time : 13 minutes.

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Discharge Volume (m ³)	Time-Peak (mins)
15 min Summer	106.828	0.0	105.7	13
30 min Summer	71.819	0.0	142.1	21
60 min Summer	46.096	0.0	182.4	38
120 min Summer	28.574	0.0	226.2	68
180 min Summer	21.285	0.0	252.8	100
240 min Summer	17.148	0.0	271.5	130
360 min Summer	12.605	0.0	299.4	190
480 min Summer	10.130	0.0	320.8	250
600 min Summer	8.542	0.0	338.2	310
720 min Summer	7.427	0.0	352.8	370
960 min Summer	5.951	0.0	377.0	492
1440 min Summer	4.347	0.0	413.0	736
2160 min Summer	3.168	0.0	451.5	1100
2880 min Summer	2.528	0.0	480.4	1468
4320 min Summer	1.836	0.0	523.3	2196
5760 min Summer	1.461	0.0	555.3	2936
7200 min Summer	1.223	0.0	581.1	3656
8640 min Summer	1.059	0.0	603.6	4344
10080 min Summer	0.937	0.0	623.4	5032



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Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control Σ (l/s)	Max Outflow (l/s)	Max Volume (m ³)	Status
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Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
15 min Winter	106.828	0.0	118.3	14
30 min Winter	71.819	0.0	159.2	23
60 min Winter	46.096	0.0	204.3	40
120 min Winter	28.574	0.0	253.4	72
180 min Winter	21.285	0.0	283.1	102
240 min Winter	17.148	0.0	304.1	132
360 min Winter	12.605	0.0	335.3	194
480 min Winter	10.130	0.0	359.3	254
600 min Winter	8.542	0.0	378.8	314
720 min Winter	7.427	0.0	395.2	374
960 min Winter	5.951	0.0	422.2	494
1440 min Winter	4.347	0.0	462.6	736
2160 min Winter	3.168	0.0	505.7	1100
2880 min Winter	2.528	0.0	538.1	1468
4320 min Winter	1.836	0.0	586.1	2204
5760 min Winter	1.461	0.0	622.0	2920
7200 min Winter	1.223	0.0	650.8	3672
8640 min Winter	1.059	0.0	676.0	4368
10080 min Winter	0.937	0.0	698.2	5136

Gary Gabriel Associates		Page 3
Kingston House Blackbrook Park Avenue Taunton Somerset TA1...		
Date 22/05/2013 09:08 File ROOF TANK 5280M	Designed by m.hayes Checked by	
Micro Drainage	Source Control 2013.1.1	

Model Details

Storage is Online Cover Level (m) 36.030

Cellular Storage Structure

Invert Level (m) 35.530 Safety Factor 10.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	220.0	0.0	1.300	0.0	0.0
0.100	220.0	0.0	1.400	0.0	0.0
0.200	220.0	0.0	1.500	0.0	0.0
0.300	220.0	0.0	1.600	0.0	0.0
0.400	220.0	0.0	1.700	0.0	0.0
0.500	220.0	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 Md5 SW Only Invert Level (m) 35.530
Design Flow (l/s) 108.0 Diameter (mm) 396

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	14.3	1.200	122.1	3.000	163.6	7.000	249.7
0.200	39.5	1.400	123.3	3.500	176.6	7.500	258.5
0.300	66.8	1.600	126.4	4.000	188.8	8.000	266.9
0.400	90.8	1.800	130.8	4.500	200.2	8.500	275.2
0.500	107.5	2.000	136.0	5.000	211.0	9.000	283.1
0.600	116.7	2.200	141.5	5.500	221.3	9.500	290.9
0.800	123.7	2.400	147.1	6.000	231.2		
1.000	123.0	2.600	152.7	6.500	240.6		