

Soakaway Design Calculations to BRE365 (DG 365 Revised 2016)

Test Reference:	Test 2
Site:	Howle Caple
Client:	JCPC Ltd
Test Date:	03/09/2021
Results logged by:	Client

Calculations By:	MBD
Calculation Date:	17/09/2021
Length (m) =	1.00
Width (m) =	0.60
Depth (m) =	1.00



File ref:	4612-HOWC-13-001-BRE365 Test 2.xlsx
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First Fill	
Time [Mins]	Test 1 Depth [m]
0.00	0.36
2.00	0.37
4.00	0.38
6.00	0.39
10.00	0.41
16.00	0.44
26.00	0.48
36.00	0.53
46.00	0.57
56.00	0.62
66.00	0.66
76.00	0.70
86.00	0.73

Second Fill	
Time [Mins]	Test 2 Depth [m]
0.00	0.36
10.00	0.43
20.00	0.50
35.00	0.56
45.00	0.60
55.00	0.66
65.00	0.70
75.00	0.75
85.00	0.80
95.00	0.85
105.00	0.88
115.00	0.90
125.00	0.93

[illegible]

RESULTS

Volume V _{p75 - 25} [m ³]	0.13860
Area [m ²]= A _{p50}	1.9088
Time t _{p75-25} [s] =	3230
Surface Water Soil infiltration rate [m/s]	2.248E-05
Treated Effluent Soil infiltration rate (V _p) [s/mm]	13.98
Surface Water Soil infiltration rate [m/hr]	0.081

RESULTS

Volume V _{p75} - 25 [m ³]	0.17100
Area [m ²]= A _{p50}	1.7360
Time t _{p75} [s] =	3626
Surface Water Soil infiltration rate [m/s]	2.716E-05
Treated Effluent Soil infiltration rate (V _p) [s/mm]	12.72
Surface Water Soil infiltration rate [m/hr]	0.098

RESULTS

Volume Vp75 - 25 [m³]	0.00000
Area [m²]= A _{p50}	3.8000
Time 25 [s] = t _{p75}	#DIV/0!
Surface Water Soil infiltration rate [m/s]	#DIV/0!
Treated Effluent Soil infiltration rate (V _p) [s/mm]	#DIV/0!
Surface Water Soil infiltration rate [m/hr]	#DIV/0!

Slowest Soil Infiltration Rate [m/s] = 2.248E-05

