

**BRE Digest 365 – Percolation Test Results Site Location: Swinley, Pylands Lane, Bursledon,
SO31 1BH**

Description of ground: Clay / Sand

Date test carried out: Test 1 26/09/2024

Test 2 27/09/2024

Test 3 28/09/2024

Name of person carrying out the test: Mr M Duddridge (Brockbuild Ltd)

Percolation test conducted to the standards of BRE Digest 365 using the following reference guide: <http://suds-solutions.co.uk/wp-content/uploads/2017/12/How-to-carry-out-a-percolation-test.pdf>

Method: 1. The tests were carried out within the proposed infiltration area at least 5m away from the intended building and at least 5m away from any intended boundary.

2. Two percolation holes were excavated 7m apart, each with a footprint of 0.3m x 1m wide, to a depth of 1m.

3. In preparation for timed testing, the test pits were completely filled to 100% depth and allowed to drain for 24hrs prior to testing. This was important to saturate the soil surrounding the test hole to simulate day to day conditions in an operational drainage field.

4. Weather conditions at time of testing were fair to good.

5. The following day, the test holes were refilled and the time (T) in seconds observed for the water to seep away from 75% to 25% full level. Distance from 75% to 25% was 0.5m.

6. Replication - Three tests were completed in each of the two holes.

7. In evaluating test results it is known that the average value of Vp must be between 15 and 100 to represent a favourable preliminary site assessment to use for drainage field disposal

Results:

Trial Hole	Test Repeat	Depth of Water	Time Taken between 75% and 25% full (seconds) (T)	Percolation Value $V_p = T/500$ (Vp) (500mm = distance from 75% to 25% depth)
1	1	1000mm	17650	35.3
	2	1000mm	17850	35.7
	3	1000mm	17930	35.86
2	1	1000mm	16380	32.76
	2	1000mm	16765	33.53
	3	1000mm	17120	34.24
			Average (Vp)	34.565

Hole dug and filled with water 25/9/2024

Test 1. 26/9/2024

Test 2. 27/9/2024

Test 3. 28/9/2024

Conclusion: - Soakaways and filtration within acceptable limits.

