

D.S. Jones & Co.

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PERCOLATION TEST RESULTS AND DRAINAGE FIELD CALCULATION.

Proposed development at Bryn Yr Eos Chapel, Whitehurst, Chirk, LL14 5AS.

D.S. Jones & Co. on behalf of Ms L. Wrigley, carried out percolation tests in accordance with the guidance provided in PPG 4 (2006) Appendix A.

Two Percolation Tests were carried out in a pit of dimensions 300mm x 300mm x 300mm at an overall depth of 1 metre below existing ground level.

The results of the Percolation Tests are set out below.

Two tests undertaken, results taken three times each, worst case used.

Time in seconds	Actual time	Depth	Vp
0.00		300mm	
1320 (25%)		225mm	
3960 (75%)		75mm	
5280		0mm	
2640		/ 150	17.6 Seconds

Time taken to fall from 75% to 25% = 2,640 seconds, Percolation Value = 17.6s.

Using this averaged Vp figure in the following formula – $P \times Vp \times 0.2 = \text{size in m}^2$

$8 \text{ Persons} \times 17.6 \text{ Vp} \times 0.2 = 28.16 \text{ square metres Drainage Field.}$

Steve Jones

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For and on behalf of Ms L. Wrigley.

Practice Affiliated to the Chartered Institute of Architectural Technologists.