Project	Chetwynd Grove, Wrexham	**Author**	Shaun Greatrix MIHE MIET	CIVIA Consulting Civil Engineers
Reference	3337	**Approved By**	Shaun Greatrix MIHE MIET	
Subject	Percolation Tests for Drainage Field	**Date**	26/08/2025	
Client	Base Architecture	**Sheet**	**1 of 1**	

Test	Dimensions				Elapsed Time	Calculations					
	Depth of Water Percolated (m)	Depth of Soakaway (m)	Length of Soakaway (m)	Width of Soakaway (m)	Seconds (s)	Volume of Water Percolated (m3)	Area of Soakaway (m2)	Percolation Rate (m/s)	Percolation Rate (m/hr)	Average Percolation Rate (m/hr)	Average Percolation Rate (s/mm) [Vp]
Pit FW-A-1	0.5	1	1	0.5	64800	0.25	0.5	0.000008	**0.028**	**0.028**	**130**
Pit FW-A-2	0.5	1	1	0.5	64800	0.25	0.5	0.000008	**0.028**		
Pit FW-A-3	0.5	1	1	0.5	64800	0.25	0.5	0.000008	**0.028**		
	A	*B*	*C*	*D*	*E1*	*F = (A * C * D)*	*G = (C * D)*	*H = [F/(G*E)]*	*I = (H * 3600)*		**FAIL**
											Part H2: s1.38
											Vp to be between 12-100

Calculation Method

P = Percolation Rate (m/hr)
Vw = Volume of Water Percolated
Va = Area of Soakaway
T = Elapsed Time in Seconds

$$P = \frac{V_w}{(V_a * T)} * 3600$$