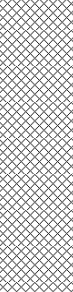
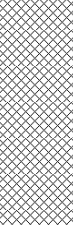
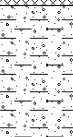


	Contract Name: Ash Road, Wrexham			Client: Proserve			Trial Pit ID: SA01													
	Contract Number: 41969	Date: 23/09/2016	Logged By: DD	Checked By: TD	Status: DRAFT	Sheet 1 of 1														
Trial Pit Log	Easting:	Northing:	Ground Level:	Plant Used: JCB 3CX	Date Printed: 26/09/2016	Scale: 1:40														
	Weather:		Hole Termination:			Stability:														
Samples & In Situ Testing			Strata Details					Water												
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description														
0.00 - 1.00	B1			(1.60)		MADE GROUND: Stiff, brown, sandy, gravelly CLAY. Gravel is angular to subangular, fine to coarse including brick and concrete, with high cobble content of concrete, iron beam and brick.		1												
0.50	D2																			
1.00	ES3																			
1.00 - 1.60	B5																			
1.50	D4																			
1.60 - 2.00	B6			1.60		Stiff, brown, slightly sandy, occasionally gravelly CLAY. Gravel is subangular to subrounded, fine to coarse including mudstone and sandstone.		2												
1.70	ES7																			
1.75	D8																			
	D8																			
						End of Trial Pit at 2.00m		6												
Dimensions:					General Remarks:															
Final Depth: 2.00m					Trial pit remained dry and stable during excavation.															
← Length (m) → 2.90m ↑ Width (m) ↓ 0.80m Orientation: ° ←																				
					<table><tr><th colspan="4">Water Strikes</th></tr><tr><th>Strike (m)</th><th>Time (mins)</th><th>Rose to (m)</th><th>Remarks</th></tr><tr><td></td><td></td><td></td><td></td></tr></table>				Water Strikes				Strike (m)	Time (mins)	Rose to (m)	Remarks				
Water Strikes																				
Strike (m)	Time (mins)	Rose to (m)	Remarks																	
HBSI TP Template					Issue Number: 2 Issue Date: 27/04/16															

	Contract Name: Ash Road, Wrexham		Client: Proserve			Trial Pit ID: SA02			
	Contract Number: 41969	Date: 22/09/2016	Logged By: DD	Checked By: TD	Status: DRAFT	Sheet 1 of 1			
Trial Pit Log	Easting:	Northing:	Ground Level:	Plant Used: JCB 3CX	Date Printed: 26/09/2016	Scale: 1:40			
	Weather:		Hole Termination:		Stability:				
Samples & In Situ Testing			Strata Details					Water	
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description			
0.00 - 1.00	B1					MADE GROUND: Brown, stiff, sandy, gravelly CLAY. Gravel is angular to subangular, fine to coarse including mudstone, brick and concrete. With low cobble content of angular brick and concrete. Low boulder content of angular concrete.		1	
0.50	D2			(1.30)					
0.75	ES3								
1.30 - 2.00	B4			1.30		Firm, brown, mottled grey, slightly sandy, occasionally gravelly CLAY. Gravel is subangular to subrounded, fine to coarse including mudstone and sandstone.		2	
1.50	D5			(0.70)					
1.50	ES6			2.00					
						End of Trial Pit at 2.00m		3	
								4	
								5	
								6	
Dimensions:						General Remarks:			
Final Depth: 2.00m						Trial pit remained dry and stable during excavation.			
← Length (m) → 3.00m ↑ Width (m) 0.80m Orientation: ° ←									
						Water Strikes			
						Strike (m)	Time (mins)	Rose to (m)	Remarks
						HBSI TP Template Issue Number: 2 Issue Date: 27/04/16			

CALCULATION OF INFILTRATION RATE IN ACCORDANCE WITH BRE DG 365: 2016

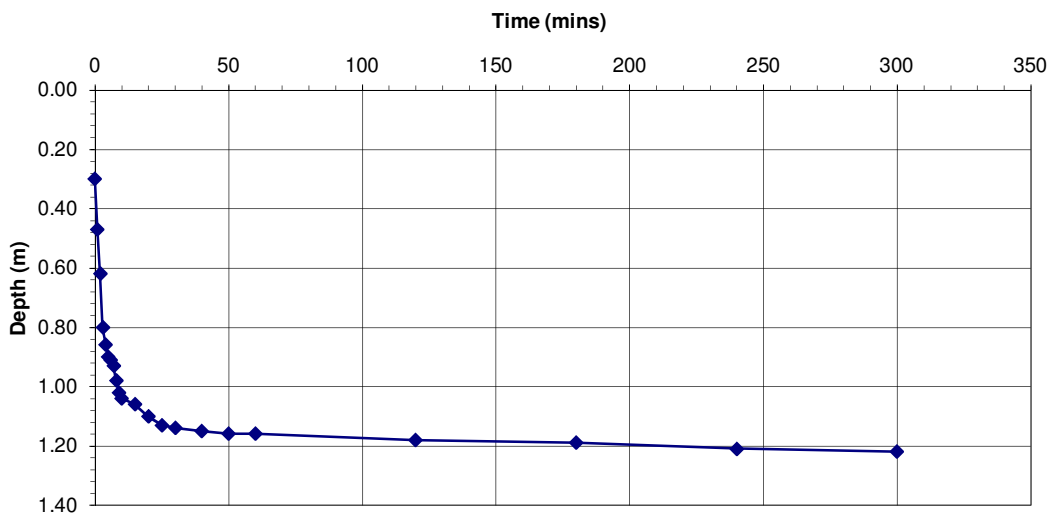
Client:	Proserve		
Site:	Ash Rd, Wrexham		
Job No:	41969	Test No:	SA02
Date	23/09/2016	Weather:	

INPUT DATA AND CALCULATION

Time (min)	Depth (m)	Size of Trial Pit	Length (m) =	3.00
0	0.30		Width (m) =	0.80
1	0.47		Depth (m) =	2.00
2	0.62			
3	0.80	Depth to water at start of test (m) = 0.30		
4	0.86	Depth to water at end of test (m) = 1.22		
5	0.90	Depth to water at 75% level (m) = 0.73		
6	0.91	Depth to water at 50% level (m) = 1.15		
7	0.93	Depth to water at 25% level (m) = 1.58		
8	0.98			
9	1.02	Base area of pit (m ²) = 2.40		
10	1.04	Effective area of loss a _{s50} (m ²) = 8.86		
15	1.06	V _{P75} - V _{P25} (m ³) = 2.04		
20	1.10			
25	1.13			
30	1.14	From the graph:		
40	1.15	t _{p75} (min) = 2.5		
50	1.16	t _{p25} (min) =		
60	1.16			
120	1.18			
180	1.19	Soil infiltration rate, f, (m/s) =		normal test
240	1.21			
300	1.22	Tested by:	DD	Date: 23.09.16
		Checked by:	TD	Date: 26.09.16

From the graph:

t _{p75} (min) =	2.5
t _{p25} (min) =	


Notes

Insufficient fall in water level to calculate infiltration rate. V25% not achieved.