

SOIL PERCOLATION TEST

Sheet 1 of 2

Date of Test: 16/05/2025

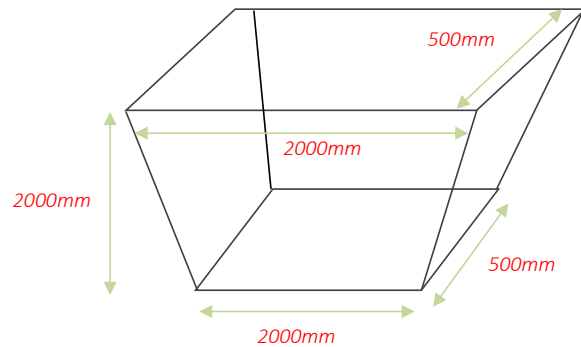
POSITION: SuDS2
TEST 3

Weather: Sunny, clear

Engineer: A. Turnbull

Checked: L. Harrison

Trial Pit Measurements



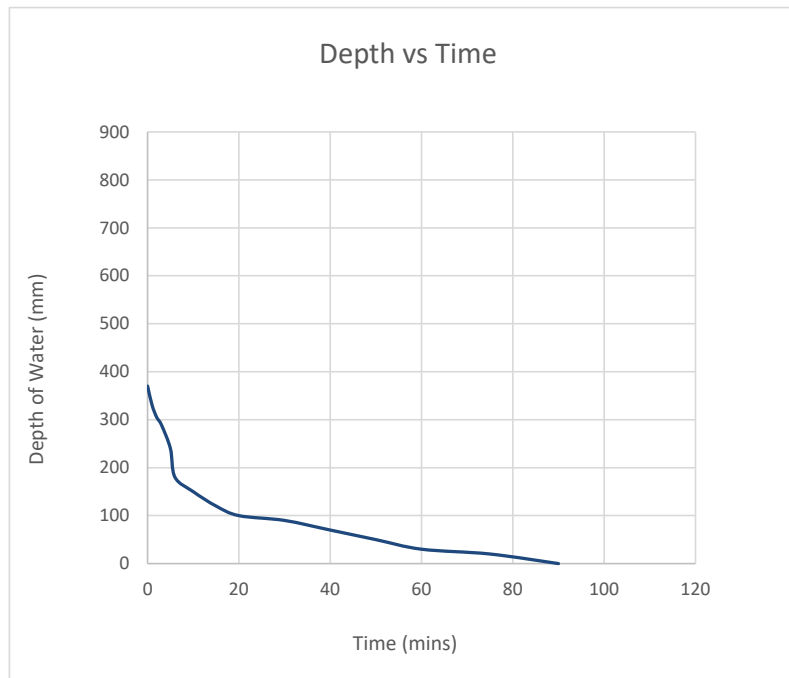
Pit Depth (mm):	2000
Pit Details:	Open with no stone filling
Groundwater Level:	NGW

Test Data

Time Elapsed (mins)	Depth to Water Level (mm)
0	1630
1	1670
2	1695
3	1710
5	1760
6	1820
10	1850
15	1880
20	1900
30	1910
40	1930
50	1950
60	1970
75	1980
90	2000
0	
0	

SOIL PERCOLATION TEST

POSITION: SuDS2
TEST 3



Volume of Pit (m ³)	2
Void Ratio of Infill	1
Volume of Infill (m ³)	N/A
Volume of Water in Pit (m ³)	0.37

Compliance Check:

Water Level at 75% effective depth (mm)	277.5
Water Level at 25% effective depth (mm)	92.5

Compliant with BRE 365

Soil Infiltration Rate Calculation

Water Level 1	277.5
Water Level 2	92.5
Time to Drain from Level 1 to Level 2 (mins)	25
Volume of water discharged (m ³)	0.185

Discharge Area (m ²)	1.925
----------------------------------	-------

Soil Infiltration Rate (m/min)	0.003844156
--------------------------------	-------------

Soil Infiltration Rate (m/sec)	6.41E-05
--------------------------------	----------

SOIL PERCOLATION TEST

Sheet 1 of 2

Date of Test: 16/05/2025

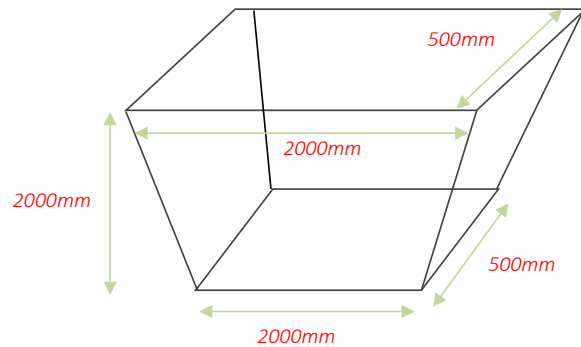
POSITION: SuDS2
TEST 2

Weather: Sunny, clear

Engineer: A. Turnbull

Checked: L. Harrison

Trial Pit Measurements



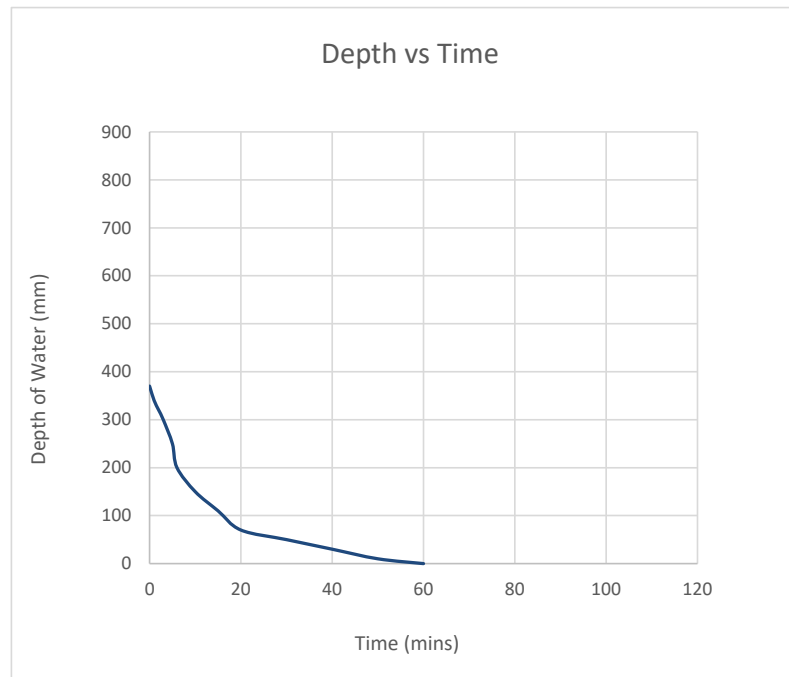
Pit Depth (mm):	2000
Pit Details:	Open with no stone filling
Groundwater Level:	NGW

Test Data

Time Elapsed (mins)	Depth to Water Level (mm)
0	1630
1	1660
2	1680
3	1700
5	1750
6	1800
10	1850
15	1890
20	1930
30	1950
40	1970
50	1990
60	2000
0	
0	
0	
0	

SOIL PERCOLATION TEST

POSITION: SuDS2
TEST 2



Volume of Pit (m ³)	2
Void Ratio of Infill	1
Volume of Infill (m ³)	N/A
Volume of Water in Pit (m ³)	0.37

Compliance Check:

Water Level at 75% effective depth (mm)	277.5
Water Level at 25% effective depth (mm)	92.5

Compliant with BRE 365

Soil Infiltration Rate Calculation

Water Level 1	277.5
Water Level 2	92.5
Time to Drain from Level 1 to Level 2 (mins)	13
Volume of water discharged (m ³)	0.185

Discharge Area (m ²)	1.925
----------------------------------	-------

Soil Infiltration Rate (m/min)	0.007392607
--------------------------------	-------------

Soil Infiltration Rate (m/sec)	1.23E-04
--------------------------------	----------

SOIL PERCOLATION TEST



Sheet 1 of 2

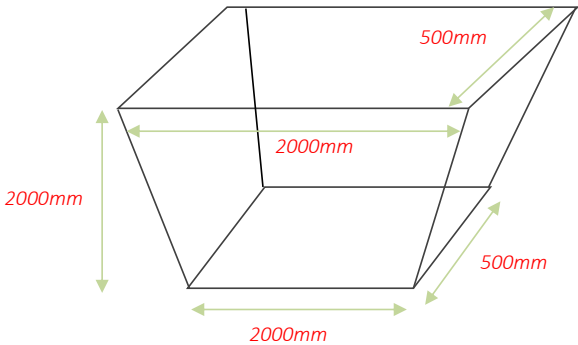
Date of Test: 16/05/2025

POSITION: SuDS2
TEST 1

Weather: Sunny, clear

Engineer: A. Turnbull
Checked: L. Harrison

Trial Pit Measurements



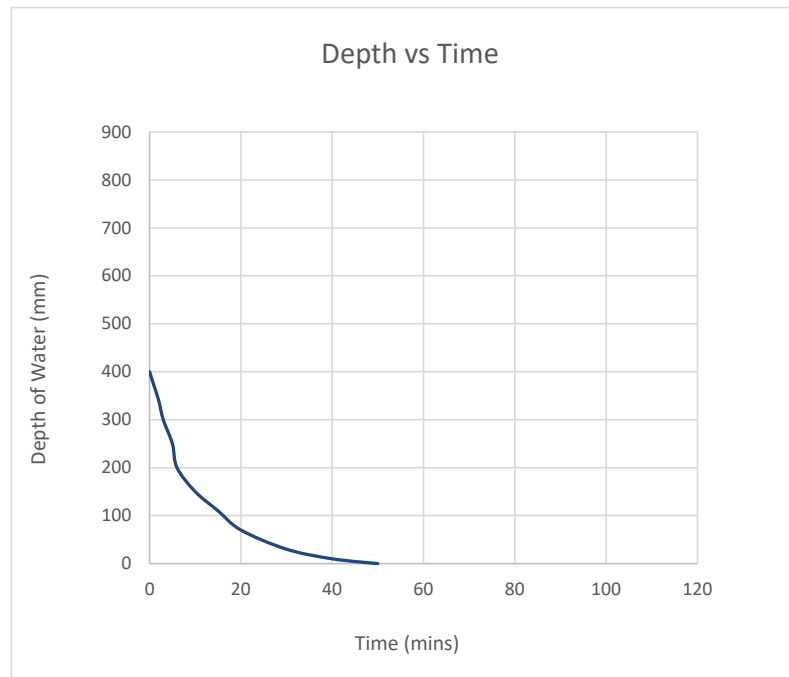
Pit Depth (mm):	2000
Pit Details:	Open with no stone filling
Groundwater Level:	NGW

Test Data

Time Elapsed (mins)	Depth to Water Level (mm)
0	1600
1	1630
2	1660
3	1700
5	1750
6	1800
10	1850
15	1890
20	1930
30	1970
40	1990
50	2000
0	
0	
0	
0	
0	

SOIL PERCOLATION TEST

POSITION: SuDS2
TEST 1



Volume of Pit (m ³)	2
Void Ratio of Infill	1
Volume of Infill (m ³)	N/A
Volume of Water in Pit (m ³)	0.4

Compliance Check:

Water Level at 75% effective depth (mm)	300
Water Level at 25% effective depth (mm)	100

Compliant with BRE 365

Soil Infiltration Rate Calculation

Water Level 1	300
Water Level 2	100
Time to Drain from Level 1 to Level 2 (mins)	13
Volume of water discharged (m ³)	0.2

Discharge Area (m ²)	2
----------------------------------	---

Soil Infiltration Rate (m/min)	0.007692308
--------------------------------	-------------

Soil Infiltration Rate (m/sec)	1.28E-04
--------------------------------	----------

SOIL PERCOLATION TEST

Sheet 1 of 2

Date of Test: 16/05/2025

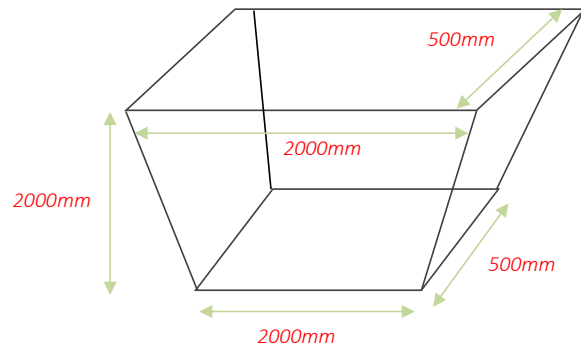
POSITION: SuDS1
TEST 1

Weather: Sunny, clear

Engineer: A. Turnbull

Checked: L. Harrison

Trial Pit Measurements



Pit Depth (mm):	2000
Pit Details:	Open with no stone filling
Groundwater Level:	NGW

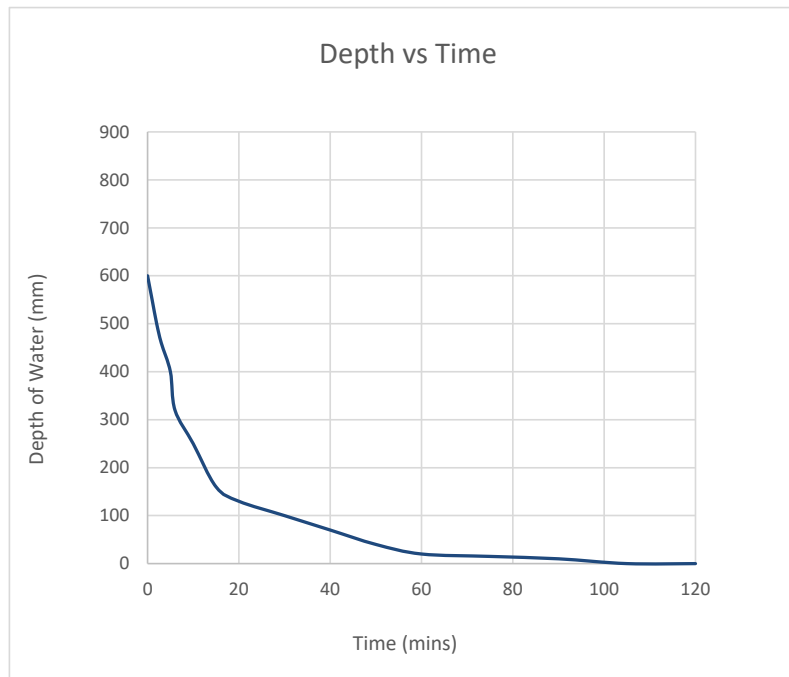
Test Data

Time Elapsed (mins)	Depth to Water Level (mm)
0	1400
1	1450
2	1500
3	1540
5	1600
6	1680
10	1750
15	1840
20	1850
30	1900
40	1930
50	1960
60	1980
75	1985
90	1990
105	2000
120	2000

SOIL PERCOLATION TEST



POSITION: SuDS1
TEST 1



Volume of Pit (m ³)	2
Void Ratio of Infill	1
Volume of Infill (m ³)	N/A
Volume of Water in Pit (m ³)	0.6

Compliance Check:

Water Level at 75% effective depth (mm)	450
Water Level at 25% effective depth (mm)	150

Compliant with BRE 365

Soil Infiltration Rate Calculation

Water Level 1	450
Water Level 2	150
Time to Drain from Level 1 to Level 2 (mins)	17
Volume of water discharged (m ³)	0.3

Discharge Area (m ²)	2.5
----------------------------------	-----

Soil Infiltration Rate (m/min)	0.007058824
--------------------------------	-------------

Soil Infiltration Rate (m/sec)	1.18E-04
--------------------------------	----------

SOIL PERCOLATION TEST

Sheet 1 of 2

Date of Test: 16/05/2025

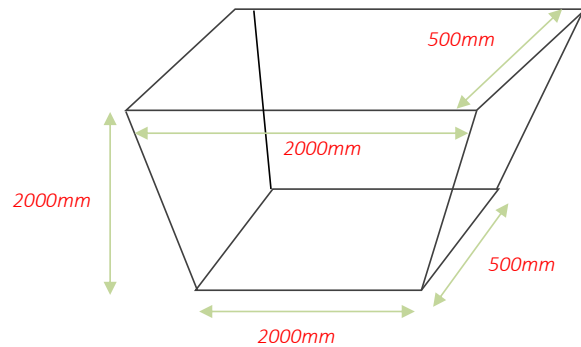
POSITION: SuDS1
TEST 2

Weather: Sunny, clear

Engineer: A. Turnbull

Checked: L. Harrison

Trial Pit Measurements



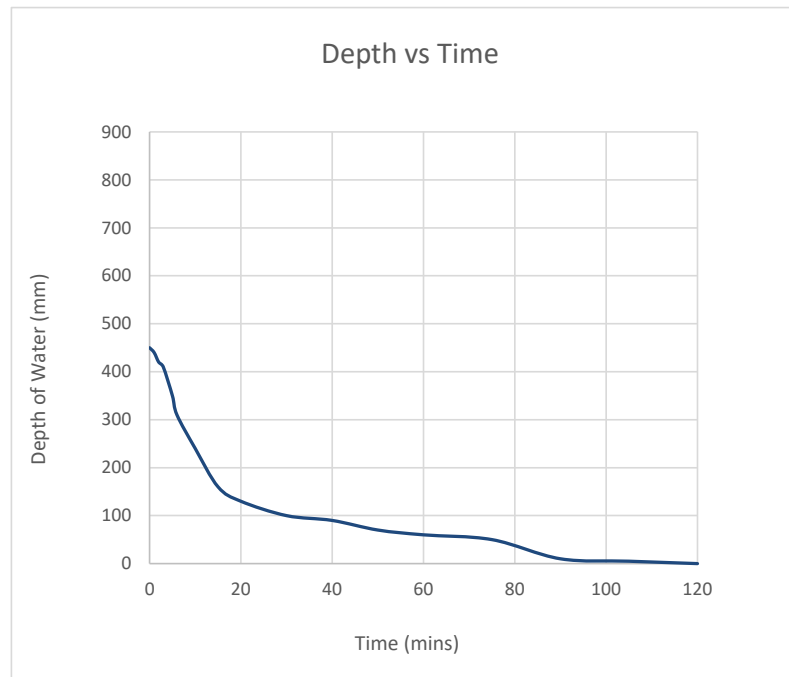
Pit Depth (mm):	2000
Pit Details:	Open with no stone filling
Groundwater Level:	NGW

Test Data

Time Elapsed (mins)	Depth to Water Level (mm)
0	1550
1	1560
2	1580
3	1590
5	1650
6	1690
10	1760
15	1840
20	1880
30	1900
40	1910
50	1930
60	1940
75	1950
90	1990
105	1995
120	2000

SOIL PERCOLATION TEST

POSITION: SuDS1
TEST 2



Volume of Pit (m ³)	2
Void Ratio of Infill	1
Volume of Infill (m ³)	N/A
Volume of Water in Pit (m ³)	0.45

Compliance Check:

Water Level at 75% effective depth (mm)	337.5
Water Level at 25% effective depth (mm)	112.5

Compliant with BRE 365

Soil Infiltration Rate Calculation

Water Level 1	337.5
Water Level 2	112.5
Time to Drain from Level 1 to Level 2 (mins)	21
Volume of water discharged (m ³)	0.225

Discharge Area (m ²)	2.125
----------------------------------	-------

Soil Infiltration Rate (m/min)	0.005042017
--------------------------------	-------------

Soil Infiltration Rate (m/sec)	8.40E-05
--------------------------------	----------

SOIL PERCOLATION TEST

Sheet 1 of 2

Date of Test: 16/05/2025

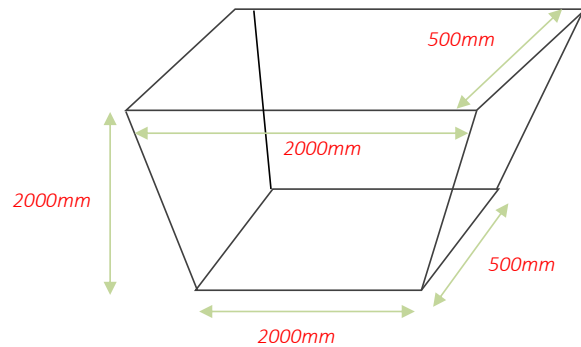
POSITION: SuDS1
TEST 3

Weather: Sunny, clear

Engineer: A. Turnbull

Checked: L. Harrison

Trial Pit Measurements



Pit Depth (mm):	2000
Pit Details:	Open with no stone filling
Groundwater Level:	NGW

Test Data

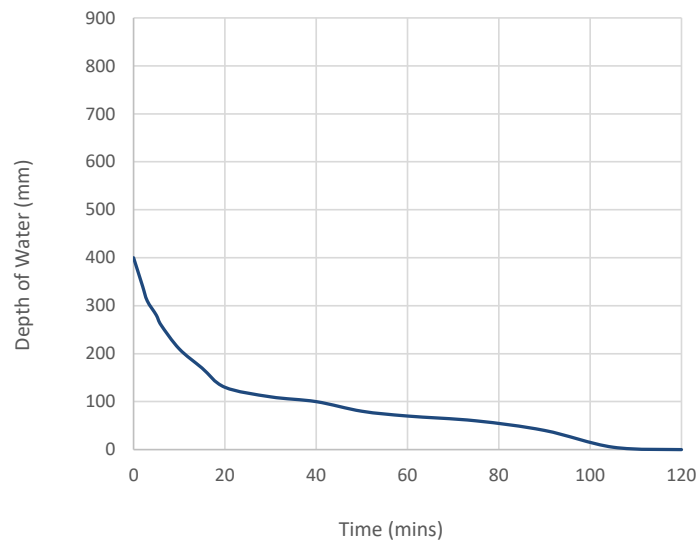
Time Elapsed (mins)	Depth to Water Level (mm)
0	1600
1	1630
2	1660
3	1690
5	1720
6	1740
10	1790
15	1830
20	1850
30	1890
40	1900
50	1920
60	1930
75	1940
90	1960
105	1995
120	2000

SOIL PERCOLATION TEST

POSITION: SuDS1
TEST 3



Depth vs Time



Volume of Pit (m ³)	2
Void Ratio of Infill	1
Volume of Infill (m ³)	N/A
Volume of Water in Pit (m ³)	0.4

Compliance Check:

Water Level at 75% effective depth (mm)	300
Water Level at 25% effective depth (mm)	100

Compliant with BRE 365

Soil Infiltration Rate Calculation

Water Level 1	300
Water Level 2	100
Time to Drain from Level 1 to Level 2 (mins)	27
Volume of water discharged (m ³)	0.2

Discharge Area (m ²)	2
----------------------------------	---

Soil Infiltration Rate (m/min)	0.003703704
--------------------------------	-------------

Soil Infiltration Rate (m/sec)	6.17E-05
--------------------------------	----------