

PARTICLE SIZE DISTRIBUTION TEST

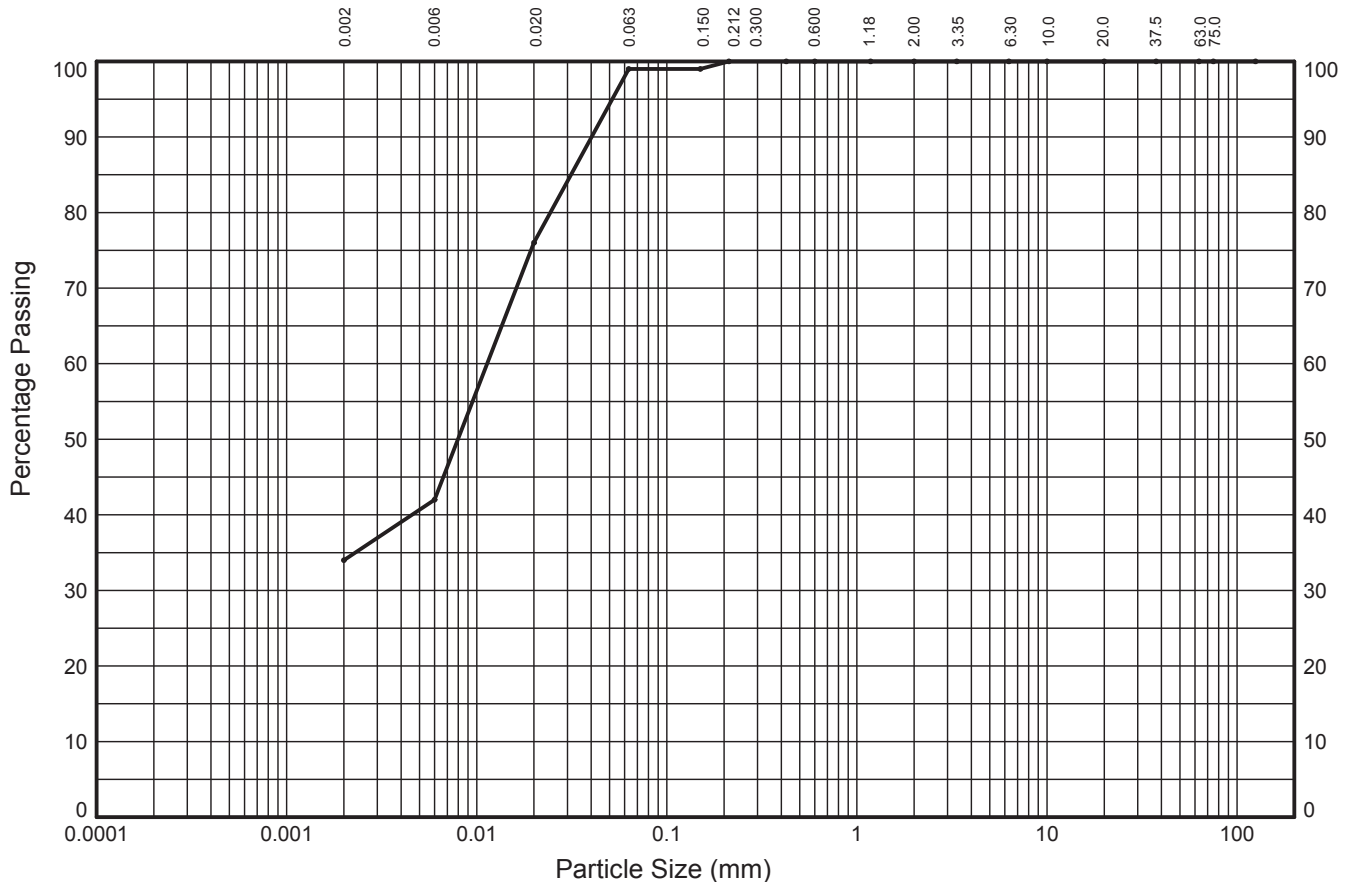
In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Trial Pit: **TP108**

Sample Ref: **3**

Sample Type: **B**

Depth (m): **0.20**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	9%	33%	23%	1%	0%	0%	0%	0%	0%	
	SILT			SAND			GRAVEL			
34%	65%			1%			0%			0%

Test Sieve (mm)	Percent Passing (%)	Particle Diameter (mm)	Percent Passing (%)	Coefficients	
125.0	100	0.02	76	D ₁₀ (mm)	NA
75.0	100			D ₁₅ (mm)	NA
63.0	100			D ₃₀ (mm)	NA
37.5	100	0.006	42	D ₅₀ (mm)	0.008
20.0	100			D ₆₀ (mm)	0.011
10.0	100			D ₈₅ (mm)	0.031
6.30	100	0.002	34	D ₉₀ (mm)	0.040
3.35	100			C _U	NA
2.00	100			C _C	NA
1.18	100	Sedimentation sample was not pre-treated			
0.600	100	Soil Description: Brown mottled orange and grey slightly sandy clayey SILT			
0.425	100				
0.212	100				
0.150	99				
0.063	99				

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



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Anerley Court
Half Moon Lane
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Date

SHARON CAIRNS

23/06/19

Contract

Contract Ref:

**HE Northern Arc, Burgess Hill -
Freeks Farm GI**

562943



PARTICLE SIZE DISTRIBUTION TEST

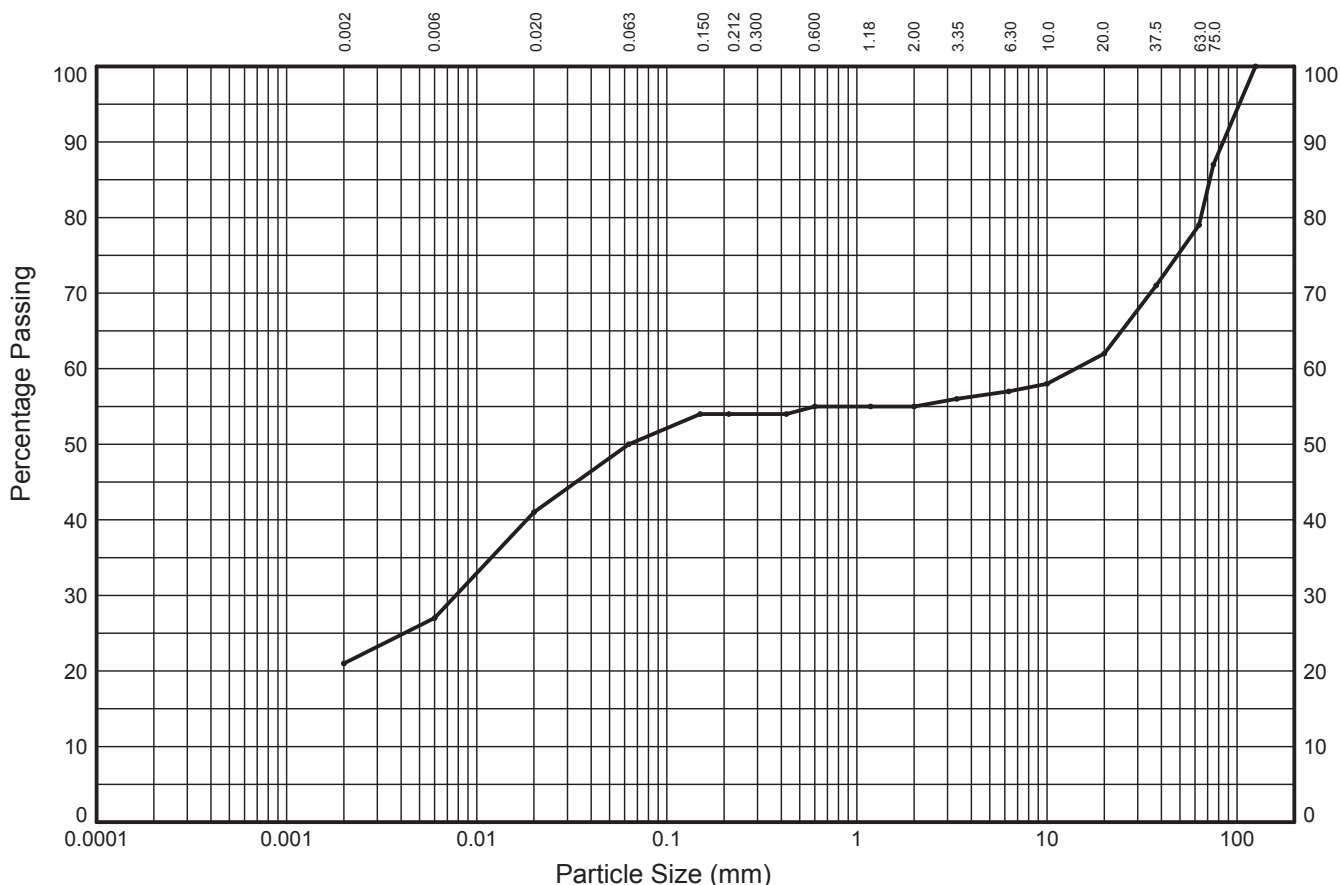
In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Trial Pit: **TP110**

Sample Ref: **8**

Sample Type: **D**

Depth (m): **1.00**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	6%	14%	9%	4%	1%	0%	2%	5%	17%	
	SILT			SAND			GRAVEL			
21%	29%			5%			24%			21%

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	87
63.0	79
37.5	71
20.0	62
10.0	58
6.30	57
3.35	56
2.00	55
1.18	55
0.600	55
0.425	54
0.212	54
0.150	54
0.063	50

Particle Diameter (mm)	Percent Passing (%)
0.02	41
0.006	27
0.002	21
Sedimentation sample was not pre-treated	

Coefficients	
D ₁₀ (mm)	NA
D ₁₅ (mm)	NA
D ₃₀ (mm)	0.008
D ₅₀ (mm)	0.063
D ₆₀ (mm)	14.142
D ₈₅ (mm)	71.801
D ₉₀ (mm)	84.383
C _U	NA
C _C	NA

Soil Description:

Orangish brown mottled grey slightly sandy slightly gravelly clayey SILT with a high cobble content

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



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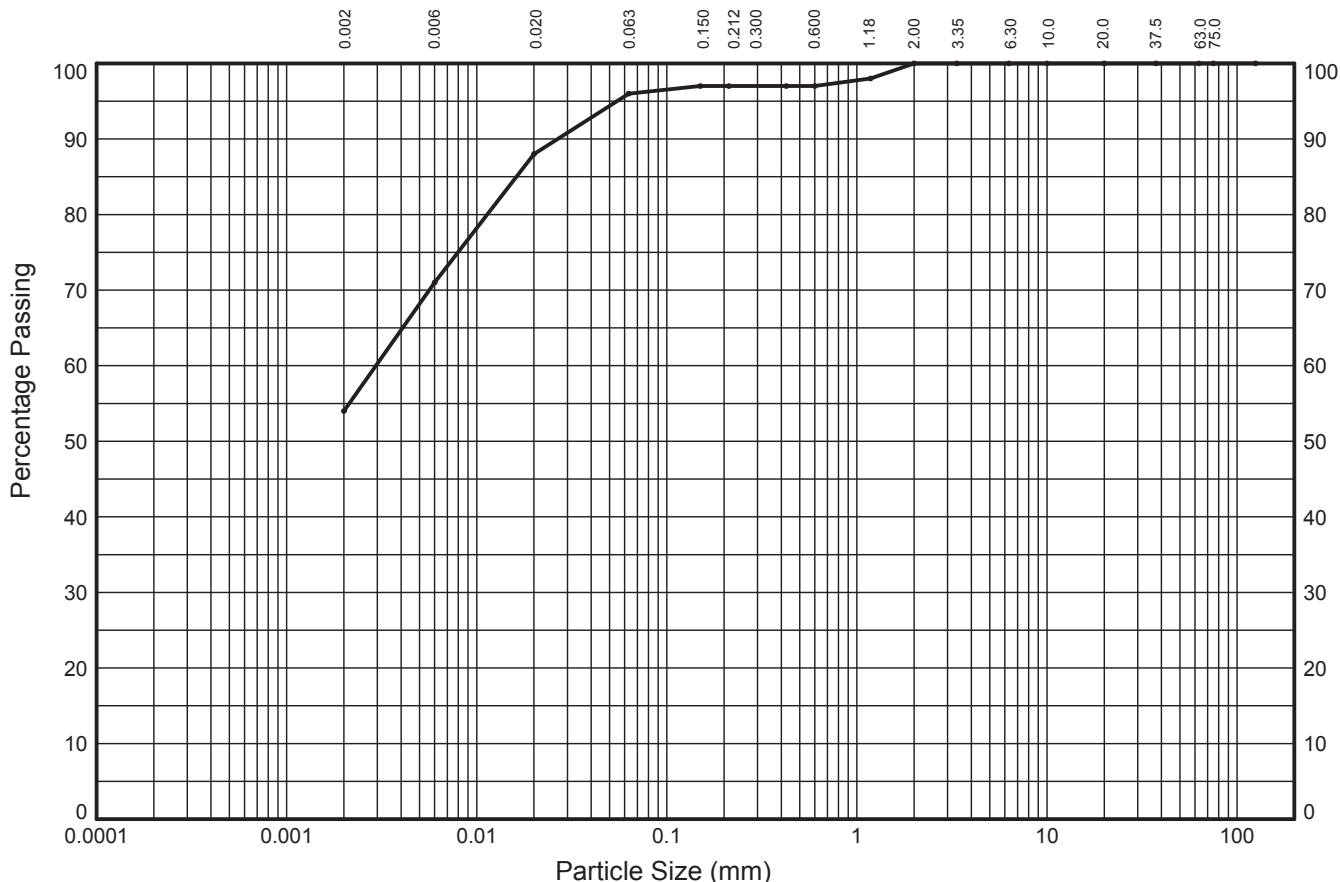
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PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Trial Pit: **TP112** Sample Ref: **7** Sample Type: **B** Depth (m): **0.70**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	17%	17%	8%	1%	0%	3%	0%	0%	0%	
	SILT			SAND			GRAVEL			
54%	42%			4%			0%			0%

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	100
2.00	100
1.18	98
0.600	97
0.425	97
0.212	97
0.150	97
0.063	96

Particle Diameter (mm)	Percent Passing (%)
0.02	88
0.006	71
0.002	54
Sedimentation sample was not pre-treated	

Coefficients	
D ₁₀ (mm)	NA
D ₁₅ (mm)	NA
D ₃₀ (mm)	NA
D ₅₀ (mm)	NA
D ₆₀ (mm)	0.003
D ₈₅ (mm)	0.016
D ₉₀ (mm)	0.027
C _U	NA
C _C	NA

Soil Description:

Brown mottled grey slightly sandy silty CLAY

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



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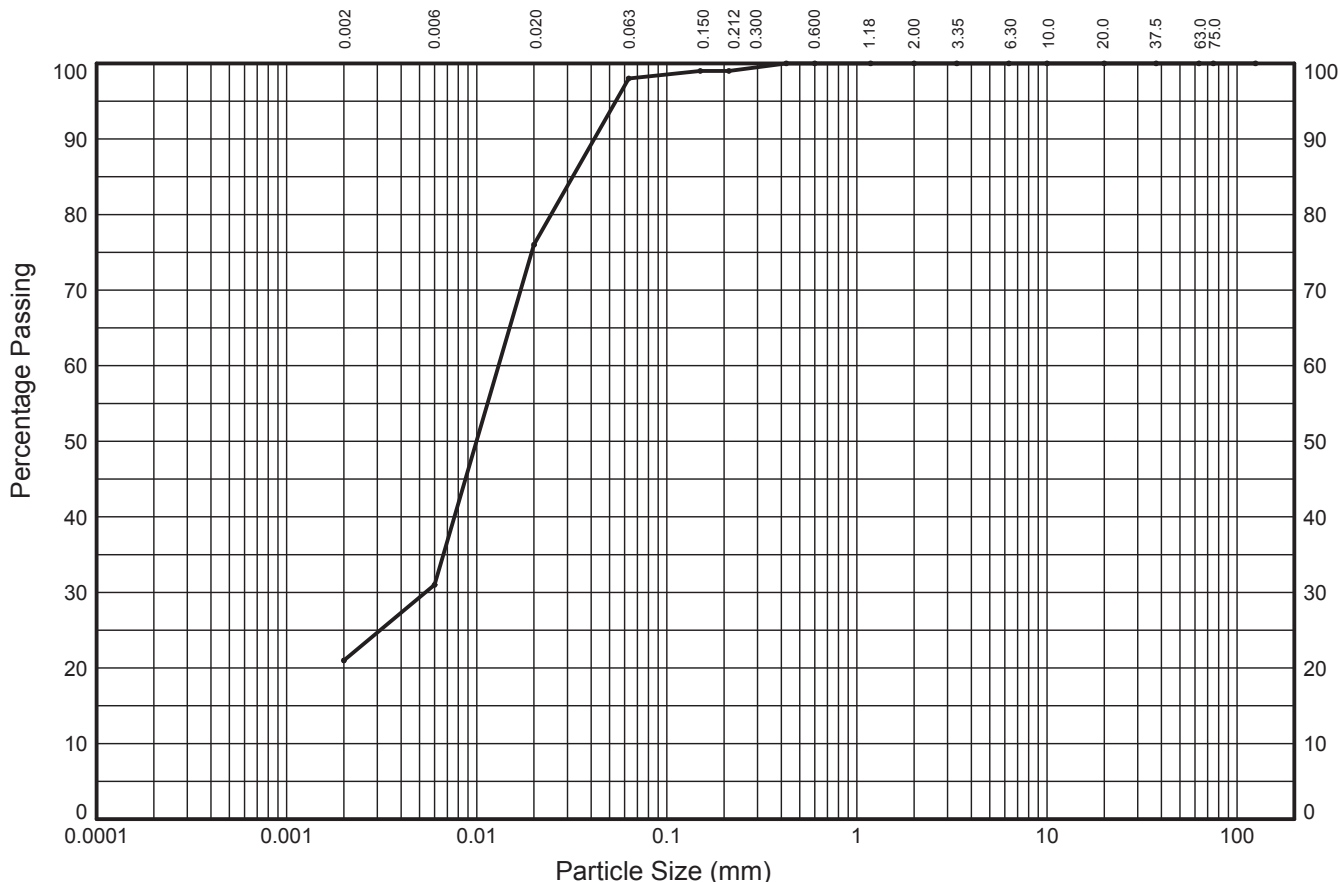
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PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Trial Pit: **TP115** Sample Ref: **4** Sample Type: **B** Depth (m): **0.45**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	11%	44%	22%	1%	1%	0%	0%	0%	0%	
	SILT			SAND			GRAVEL			
21%	77%			2%			0%			0%

Test Sieve (mm)	Percent Passing (%)	Particle Diameter (mm)	Percent Passing (%)	Coefficients	
125.0	100	0.02	76	D ₁₀ (mm)	NA
75.0	100			D ₁₅ (mm)	NA
63.0	100			D ₃₀ (mm)	0.005
37.5	100	0.006	31	D ₅₀ (mm)	0.010
20.0	100			D ₆₀ (mm)	0.013
10.0	100			D ₈₅ (mm)	0.032
6.30	100	0.002	21	D ₉₀ (mm)	0.042
3.35	100			C _U	NA
2.00	100			C _C	NA
1.18	100	Sedimentation sample was not pre-treated			
0.600	100				
0.425	100				
0.212	99				
0.150	99				
0.063	98	Soil Description: Orangish brown slightly sandy clayey SILT			

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



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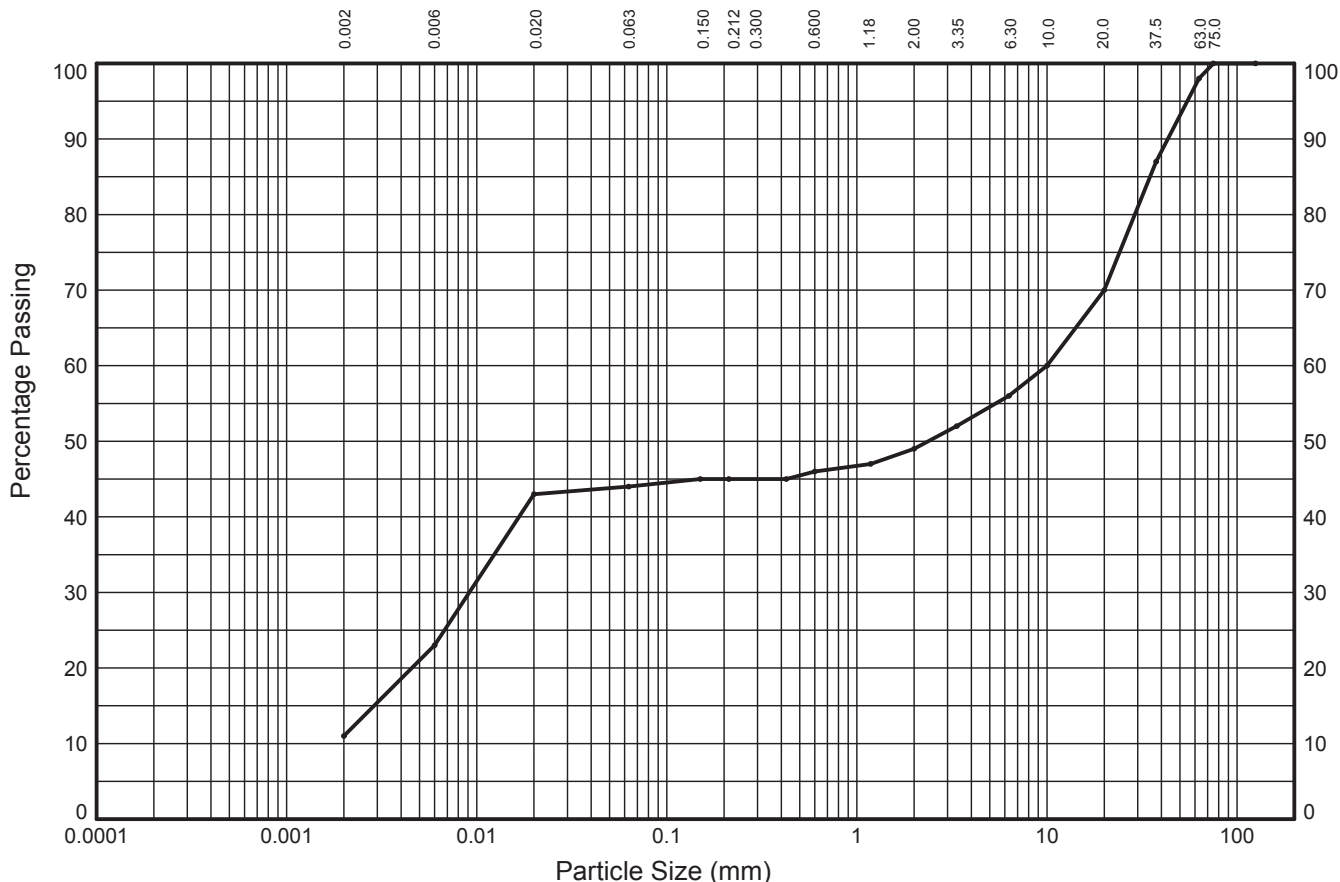
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PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Trial Pit: **TP116** Sample Ref: **8** Sample Type: **B** Depth (m): **1.10**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	12%	20%	1%	1%	1%	3%	7%	14%	28%	
	SILT			SAND			GRAVEL			
11%	33%			5%			49%			2%

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	98
37.5	87
20.0	70
10.0	60
6.30	56
3.35	52
2.00	49
1.18	47
0.600	46
0.425	45
0.212	45
0.150	45
0.063	44

Particle Diameter (mm)	Percent Passing (%)
0.02	43
0.006	23
0.002	11
Sedimentation sample was not pre-treated	

Coefficients	
D ₁₀ (mm)	NA
D ₁₅ (mm)	0.003
D ₃₀ (mm)	0.009
D ₅₀ (mm)	2.375
D ₆₀ (mm)	10.000
D ₈₅ (mm)	34.827
D ₉₀ (mm)	43.200
C _U	NA
C _C	NA

Soil Description:

Brown mottled orange and grey sandy very silty GRAVEL with a low cobble content

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



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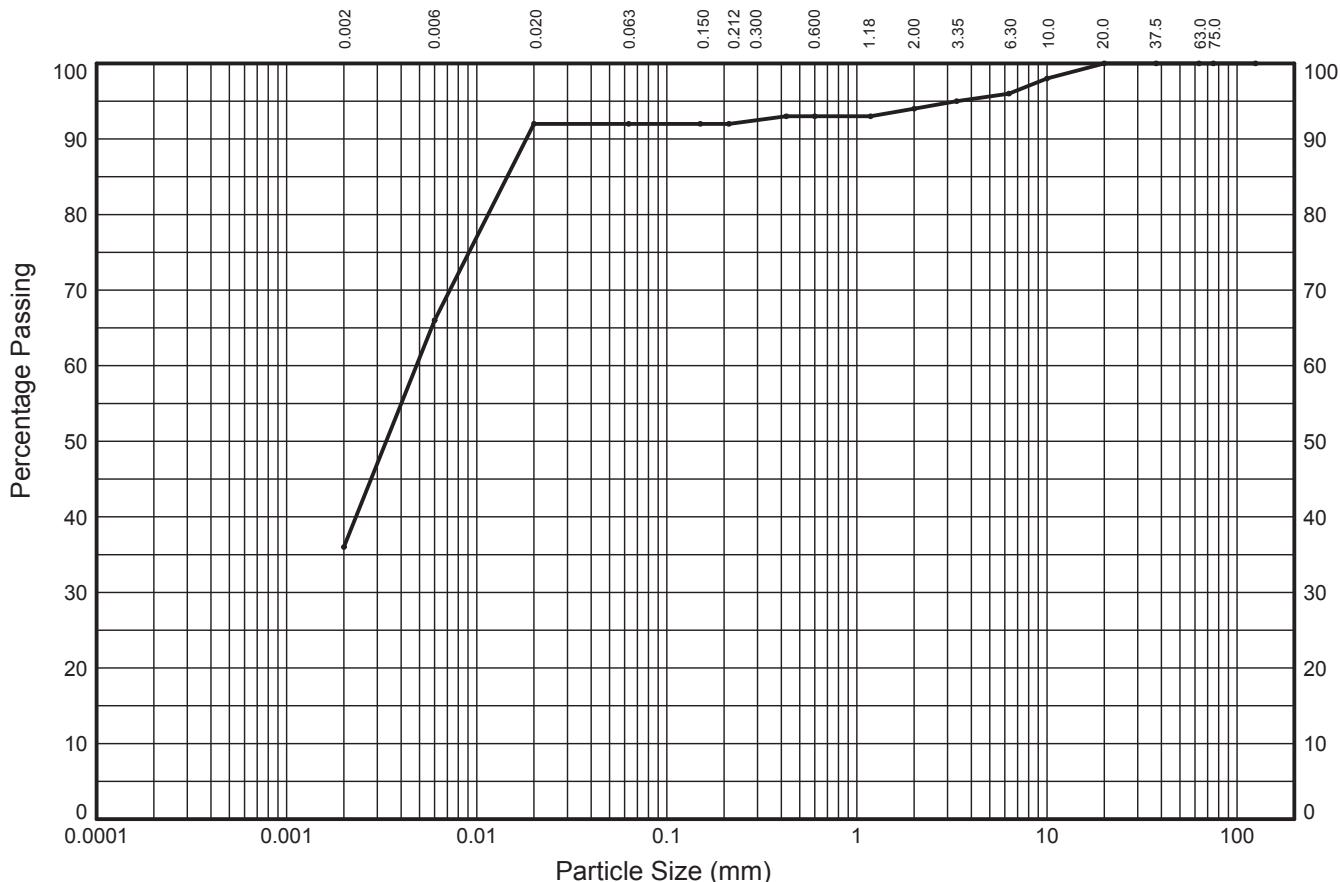
In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Window Sample: **WS103**

Sample Ref: **7**

Sample Type: **D**

Depth (m): **0.90**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	31%	25%	0%	0%	1%	1%	2%	4%	0%	
	SILT			SAND			GRAVEL			
36%	56%			2%			6%			0%

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	98
6.30	96
3.35	95
2.00	94
1.18	93
0.600	93
0.425	93
0.212	92
0.150	92
0.063	92

Particle Diameter (mm)	Percent Passing (%)
0.02	92
0.006	66
0.002	36
Sedimentation sample was not pre-treated	

Coefficients	
D ₁₀ (mm)	NA
D ₁₅ (mm)	NA
D ₃₀ (mm)	NA
D ₅₀ (mm)	0.003
D ₆₀ (mm)	0.005
D ₈₅ (mm)	0.014
D ₉₀ (mm)	0.018
C _U	NA
C _C	NA

Soil Description:

Brown mottled orange and grey slightly sandy slightly gravelly clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



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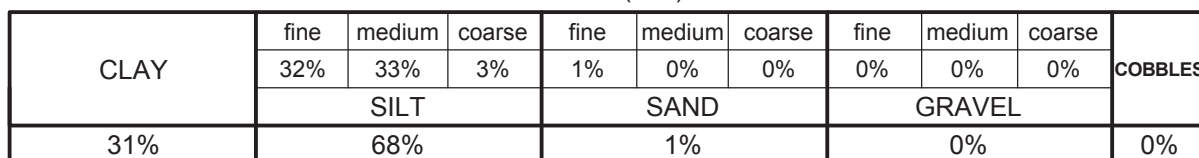
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In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Depth (m): **0.40**

Particle Diameter (mm)	Percent Passing (%)
0.02	96
0.006	62
0.002	31
Sedimentation sample was not pre-treated	

Coefficients	
D ₁₀ (mm)	NA
D ₁₅ (mm)	NA
D ₃₀ (mm)	NA
D ₅₀ (mm)	0.004
D ₆₀ (mm)	0.006
D ₈₅ (mm)	0.014
D ₉₀ (mm)	0.016
C _u	NA
C _c	NA

Brown mottled orange and grey slightly sandy clayey SILT



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23/06/19

Contract Ref:

562943



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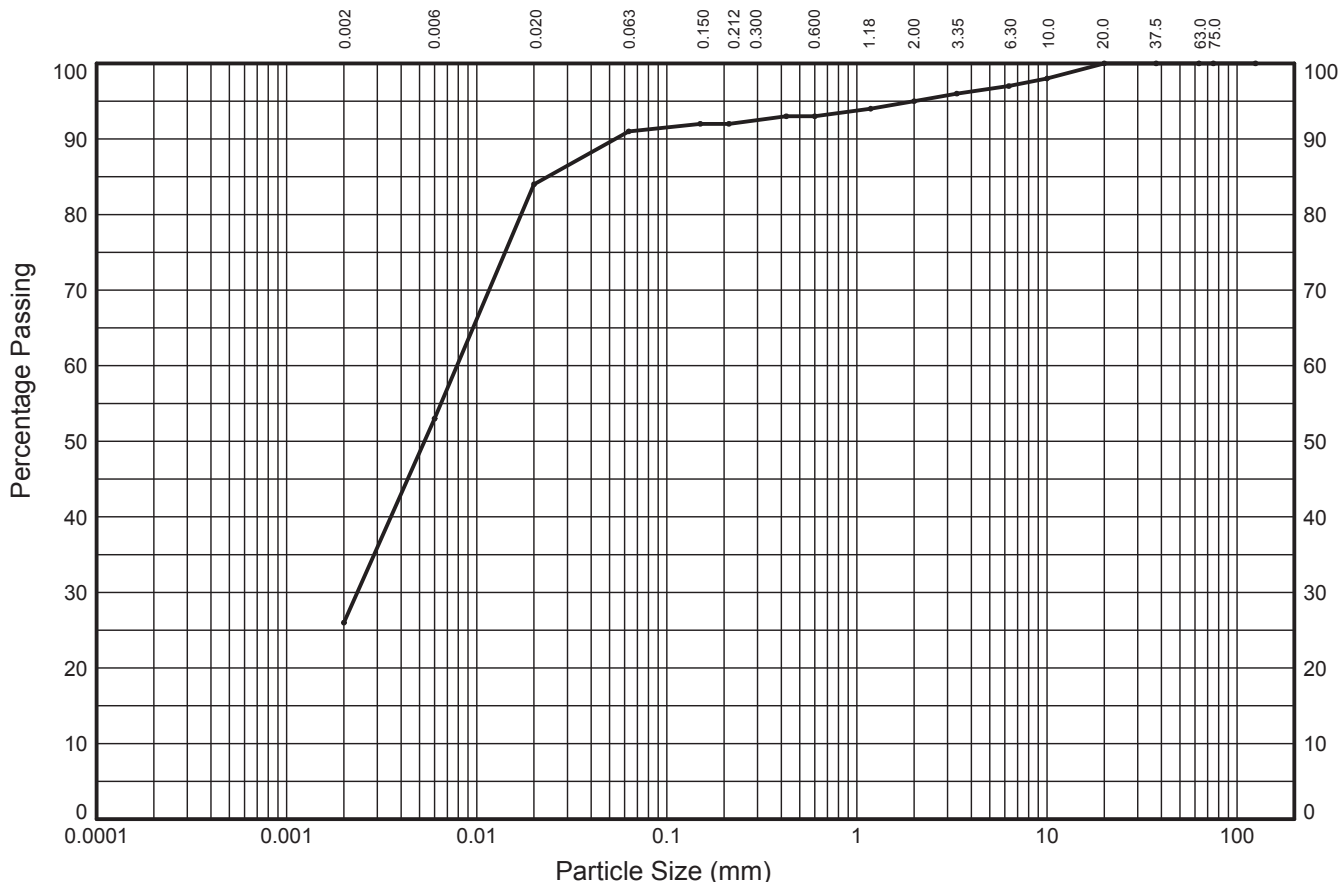
In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Window Sample: **WS106**

Sample Ref: **12**

Sample Type: **D**

Depth (m): **1.40**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	28%	30%	7%	1%	1%	2%	2%	3%	0%	
	SILT			SAND			GRAVEL			
26%	65%			4%			5%			0%

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	98
6.30	97
3.35	96
2.00	95
1.18	94
0.600	93
0.425	93
0.212	92
0.150	92
0.063	91

Particle Diameter (mm)	Percent Passing (%)
0.02	84
0.006	53
0.002	26
Sedimentation sample was not pre-treated	

Coefficients	
D ₁₀ (mm)	NA
D ₁₅ (mm)	NA
D ₃₀ (mm)	0.002
D ₅₀ (mm)	0.005
D ₆₀ (mm)	0.008
D ₈₅ (mm)	0.024
D ₉₀ (mm)	0.053
C _U	NA
C _C	NA

Soil Description:

Brown mottled orange and grey slightly sandy slightly gravelly clayey SILT. Gravel is siltstone

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



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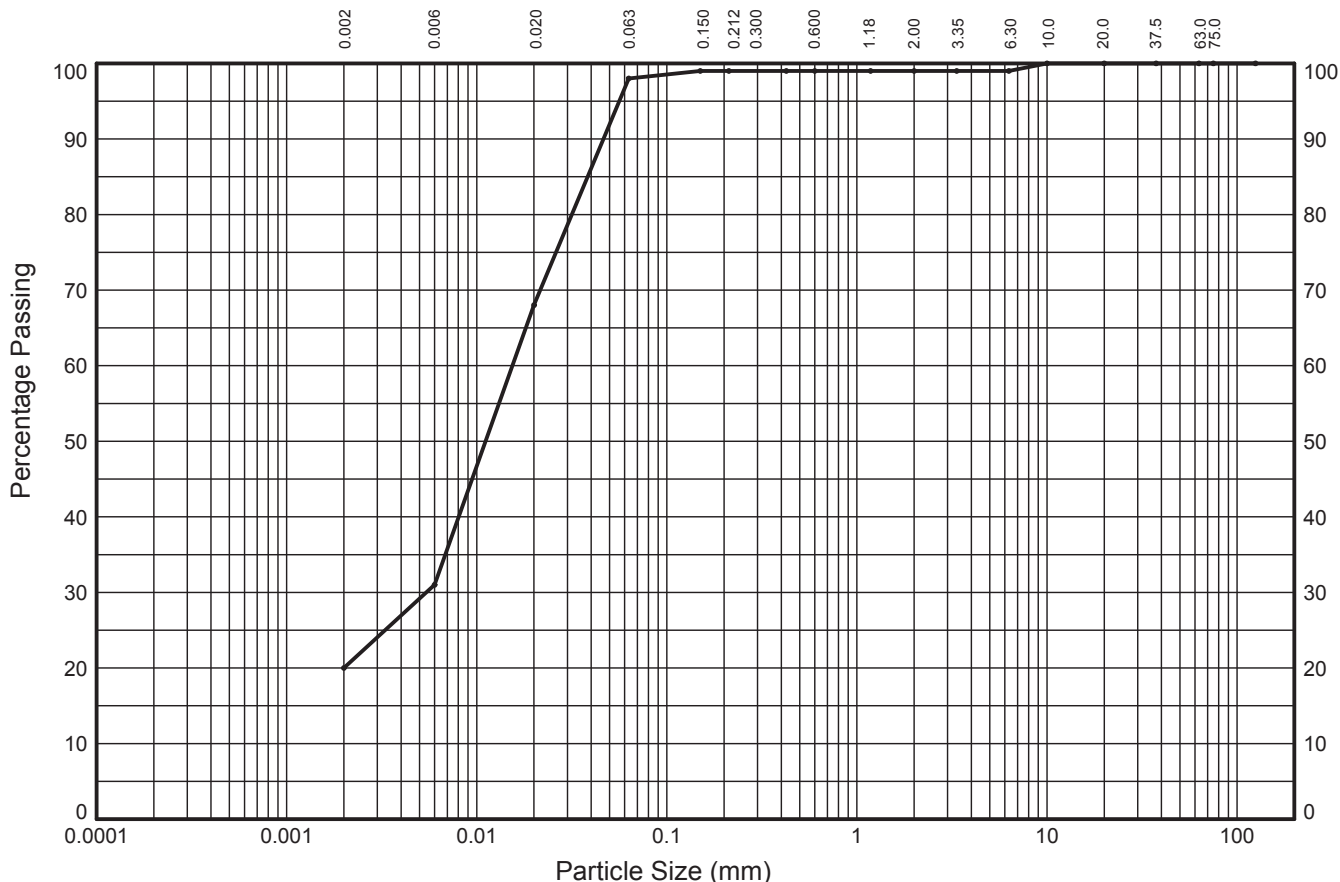
In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Window Sample: **WS107**

Sample Ref: **4**

Sample Type: **B**

Depth (m): **0.40**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	12%	36%	30%	1%	0%	0%	0%	1%	0%	
	SILT			SAND			GRAVEL			
20%	78%			1%			1%			0%

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.3	99
3.35	99
2.0	99
1.18	99
0.600	99
0.425	99
0.212	99
0.150	99
0.063	98

Particle Diameter (mm)	Percent Passing (%)
0.02	68
0.006	31
0.002	20
Sedimentation sample was not pre-treated	

Coefficients	
D ₁₀ (mm)	NA
D ₁₅ (mm)	NA
D ₃₀ (mm)	0.005
D ₅₀ (mm)	0.011
D ₆₀ (mm)	0.015
D ₈₅ (mm)	0.038
D ₉₀ (mm)	0.046
C _U	NA
C _C	NA

Soil Description:

Brown mottled orange and grey slightly sandy slightly gravelly clayey SILT. Gravel is siltstone

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



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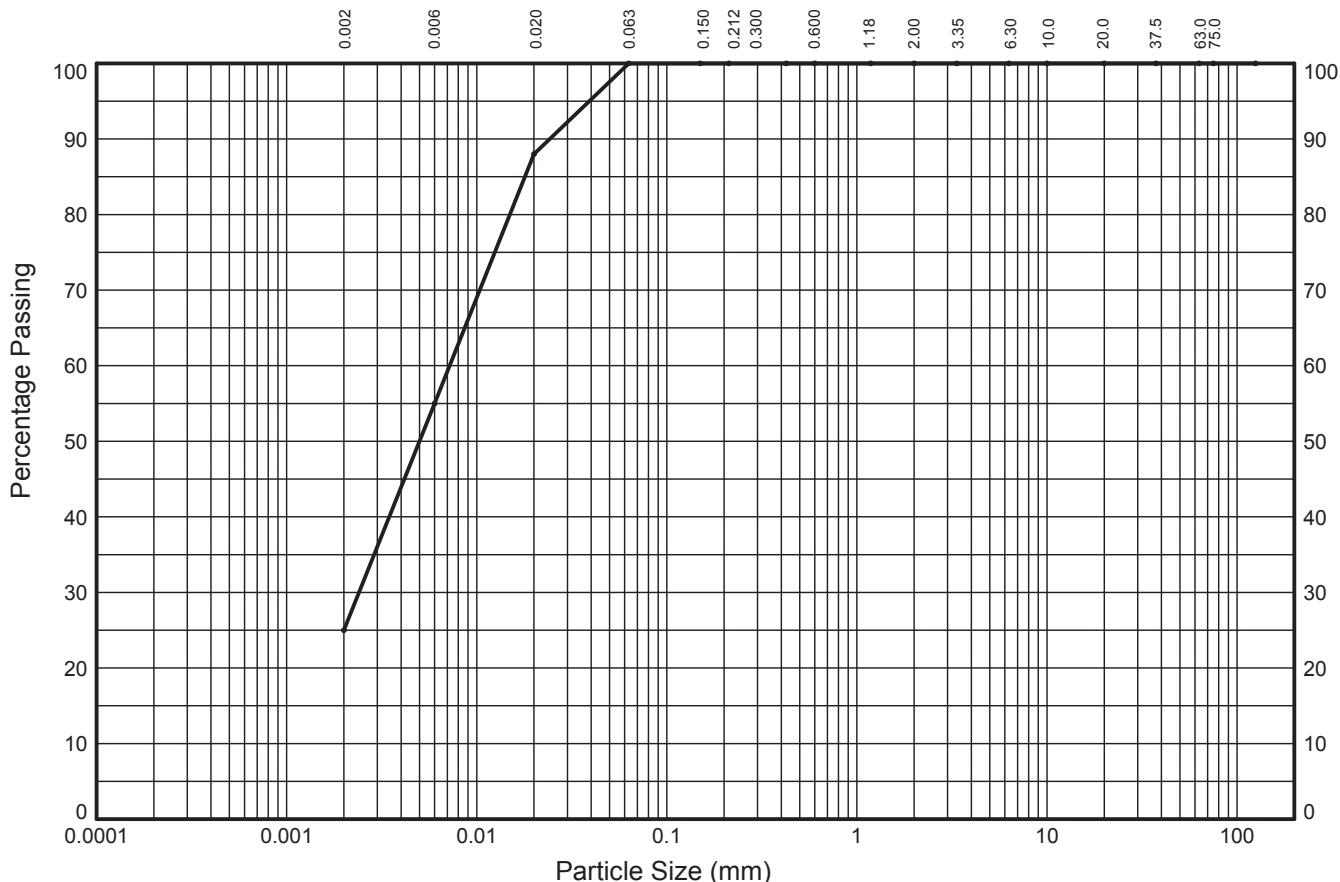
In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Window Sample: **WS108**

Sample Ref: **8**

Sample Type: **B**

Depth (m): **0.90**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	31%	32%	12%	0%	0%	0%	0%	0%	0%	
	SILT			SAND			GRAVEL			
25%	75%			0%			0%			0%

Test Sieve (mm)	Percent Passing (%)	Particle Diameter (mm)	Percent Passing (%)	Coefficients	
125.0	100	0.02	88	D ₁₀ (mm)	NA
75.0	100			D ₁₅ (mm)	NA
63.0	100			D ₃₀ (mm)	0.002
37.5	100	0.006	55	D ₅₀ (mm)	0.005
20.0	100			D ₆₀ (mm)	0.007
10.0	100			D ₈₅ (mm)	0.018
6.30	100	0.002	25	D ₉₀ (mm)	0.024
3.35	100			C _U	NA
2.00	100			C _C	NA
1.18	100	Sedimentation sample was not pre-treated			
0.600	100				
0.425	100				
0.212	100				
0.150	100				
0.063	100	Soil Description: Orangish brown mottled grey silty CLAY			

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2

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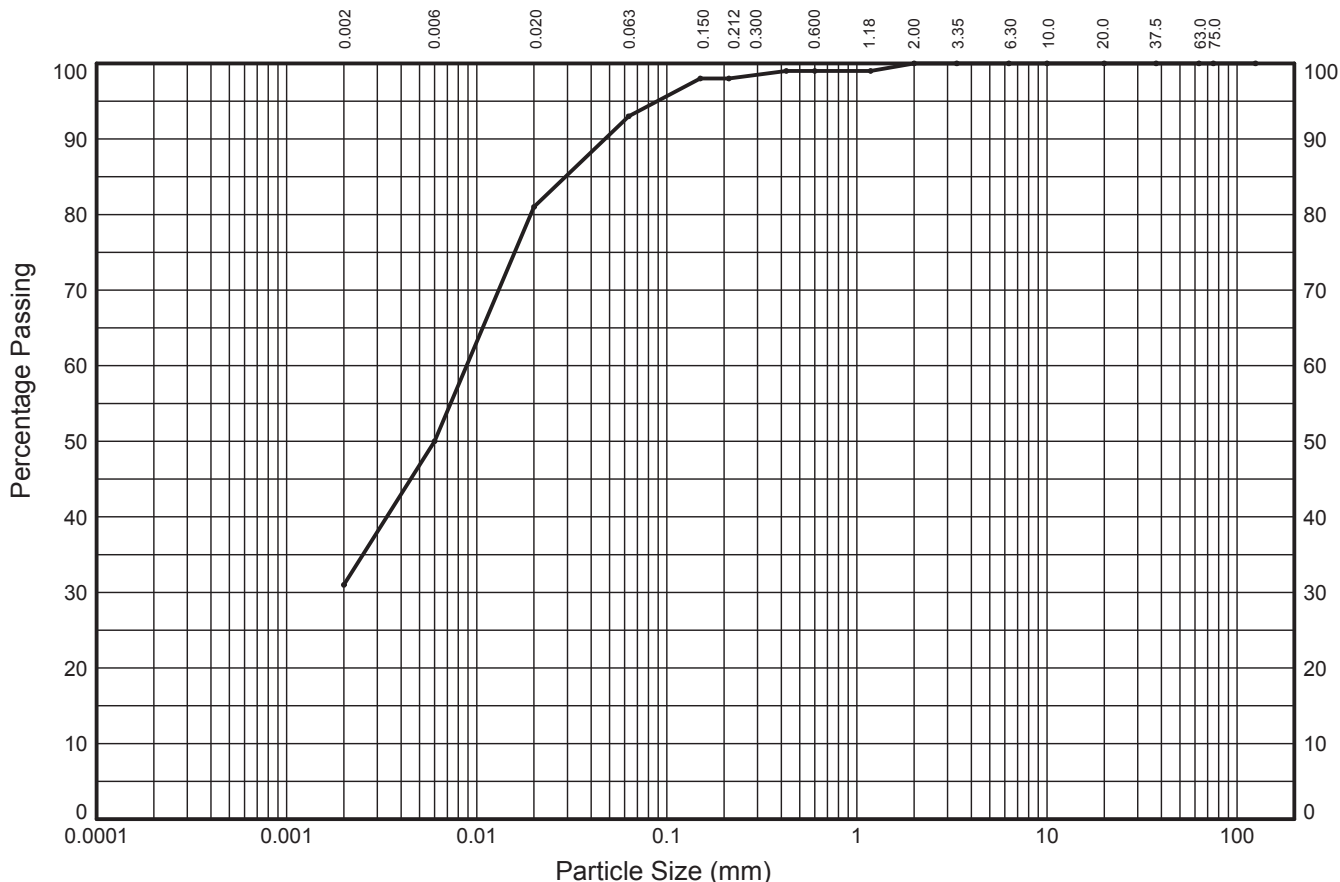
In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Window Sample: **WS111**

Sample Ref: **4**

Sample Type: **B**

Depth (m): **0.40**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	20%	30%	12%	5%	1%	1%	0%	0%	0%	
	SILT			SAND			GRAVEL			
31%	62%			7%			0%			0%

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	100
2.00	100
1.18	99
0.600	99
0.425	99
0.212	98
0.150	98
0.063	93

Particle Diameter (mm)	Percent Passing (%)
0.02	81
0.006	50
0.002	31
Sedimentation sample was not pre-treated	

Coefficients	
D ₁₀ (mm)	NA
D ₁₅ (mm)	NA
D ₃₀ (mm)	NA
D ₅₀ (mm)	0.006
D ₆₀ (mm)	0.009
D ₈₅ (mm)	0.029
D ₉₀ (mm)	0.047
C _U	NA
C _C	NA

Soil Description:

Brown mottled orange and grey slightly sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



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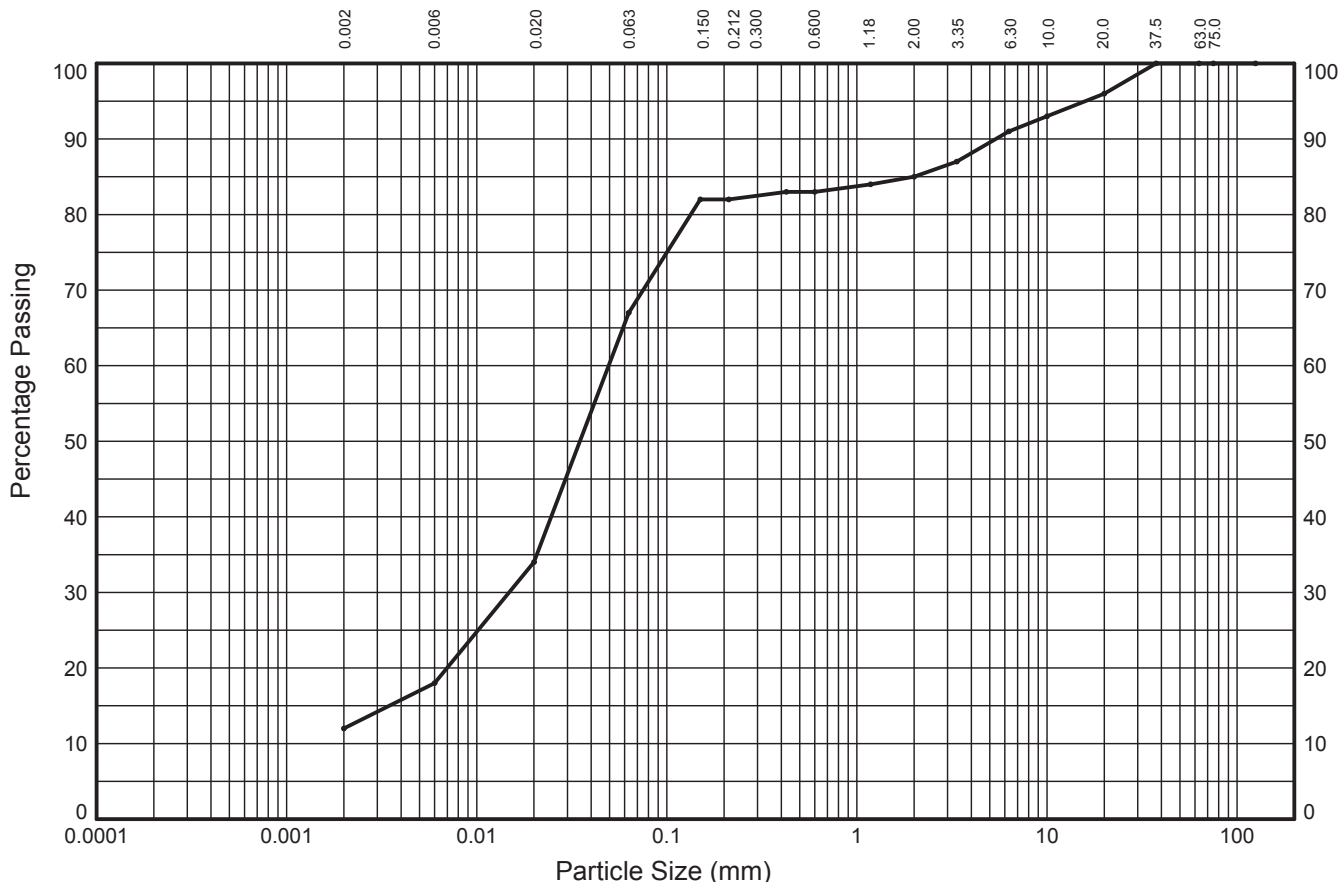
In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Window Sample: **WS112**

Sample Ref: **9**

Sample Type: **D**

Depth (m): **1.40**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	6%	16%	33%	15%	1%	2%	6%	5%	4%	
	SILT			SAND			GRAVEL			
12%	55%			18%			15%			0%

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	96
10.0	93
6.30	91
3.35	87
2.00	85
1.18	84
0.600	83
0.425	83
0.212	82
0.150	82
0.063	67

Particle Diameter (mm)	Percent Passing (%)
0.02	34
0.006	18
0.002	12
Sedimentation sample was not pre-treated	

Coefficients	
D ₁₀ (mm)	NA
D ₁₅ (mm)	0.003
D ₃₀ (mm)	0.015
D ₅₀ (mm)	0.035
D ₆₀ (mm)	0.049
D ₈₅ (mm)	2.000
D ₉₀ (mm)	5.380
C _U	NA
C _C	NA

Soil Description:

Orangish brown mottled grey slightly sandy slightly gravelly clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



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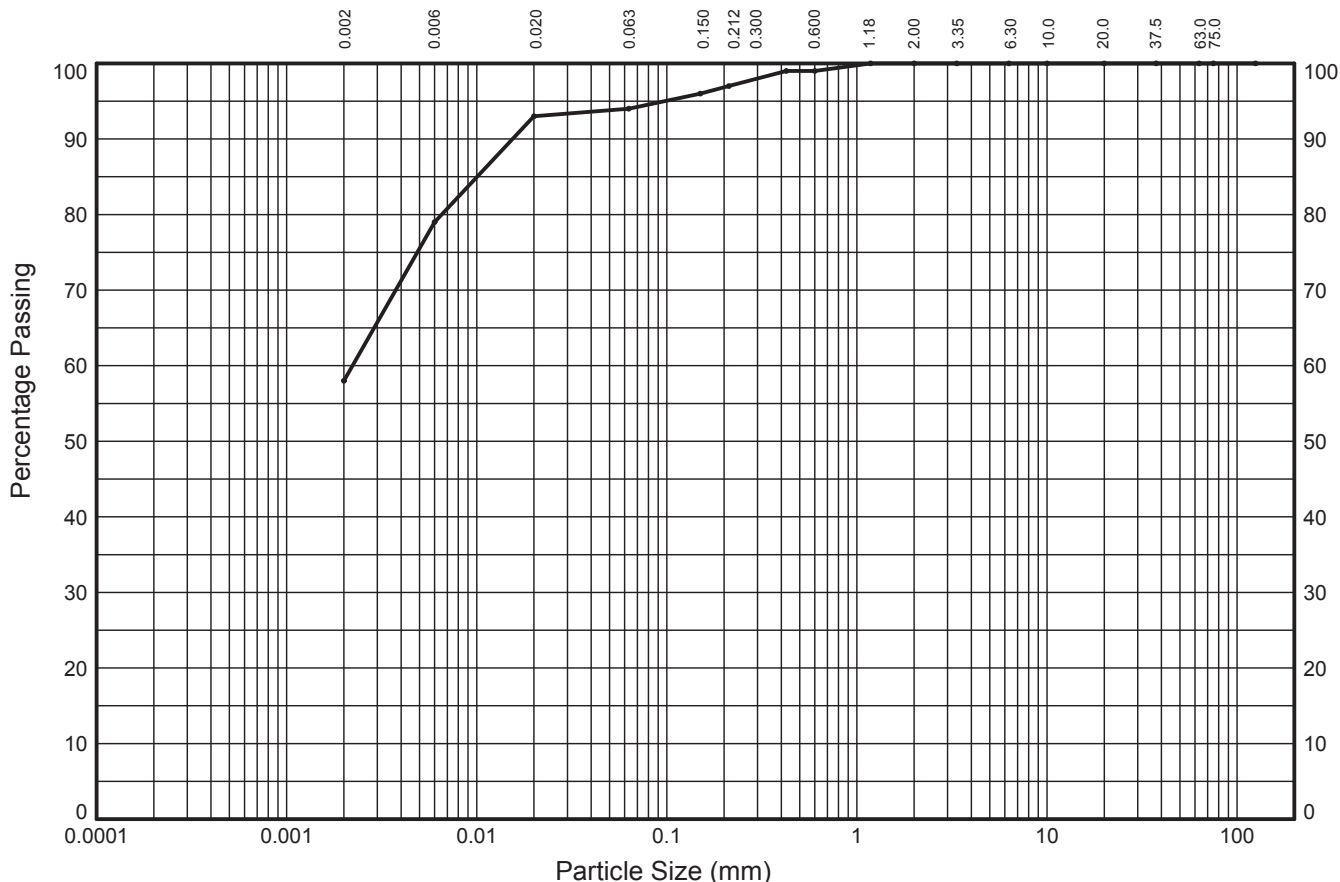
In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Window Sample: **WS114**

Sample Ref: **12**

Sample Type: **D**

Depth (m): **1.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	21%	14%	1%	3%	2%	1%	0%	0%	0%	
	SILT			SAND			GRAVEL			
58%	36%			6%			0%			0%

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.3	100
3.35	100
2.0	100
1.18	100
0.600	99
0.425	99
0.212	97
0.150	96
0.063	94

Particle Diameter (mm)	Percent Passing (%)
0.02	93
0.006	79
0.002	58
Sedimentation sample was not pre-treated	

Coefficients	
D ₁₀ (mm)	NA
D ₁₅ (mm)	NA
D ₃₀ (mm)	NA
D ₅₀ (mm)	NA
D ₆₀ (mm)	0.002
D ₈₅ (mm)	0.010
D ₉₀ (mm)	0.015
C _U	NA
C _C	NA

Soil Description:

Grey mottled orangish brown and red slightly sandy silty CLAY

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



STRUCTURAL SOILS
Anerley Court
Half Moon Lane
Hildenborough
Tonbridge TN11 9HU

Compiled By

SHARON CAIRNS

Date

23/06/19

Contract

**HE Northern Arc, Burgess Hill -
Freeks Farm GI**

Contract Ref:

562943



PARTICLE SIZE DISTRIBUTION TEST

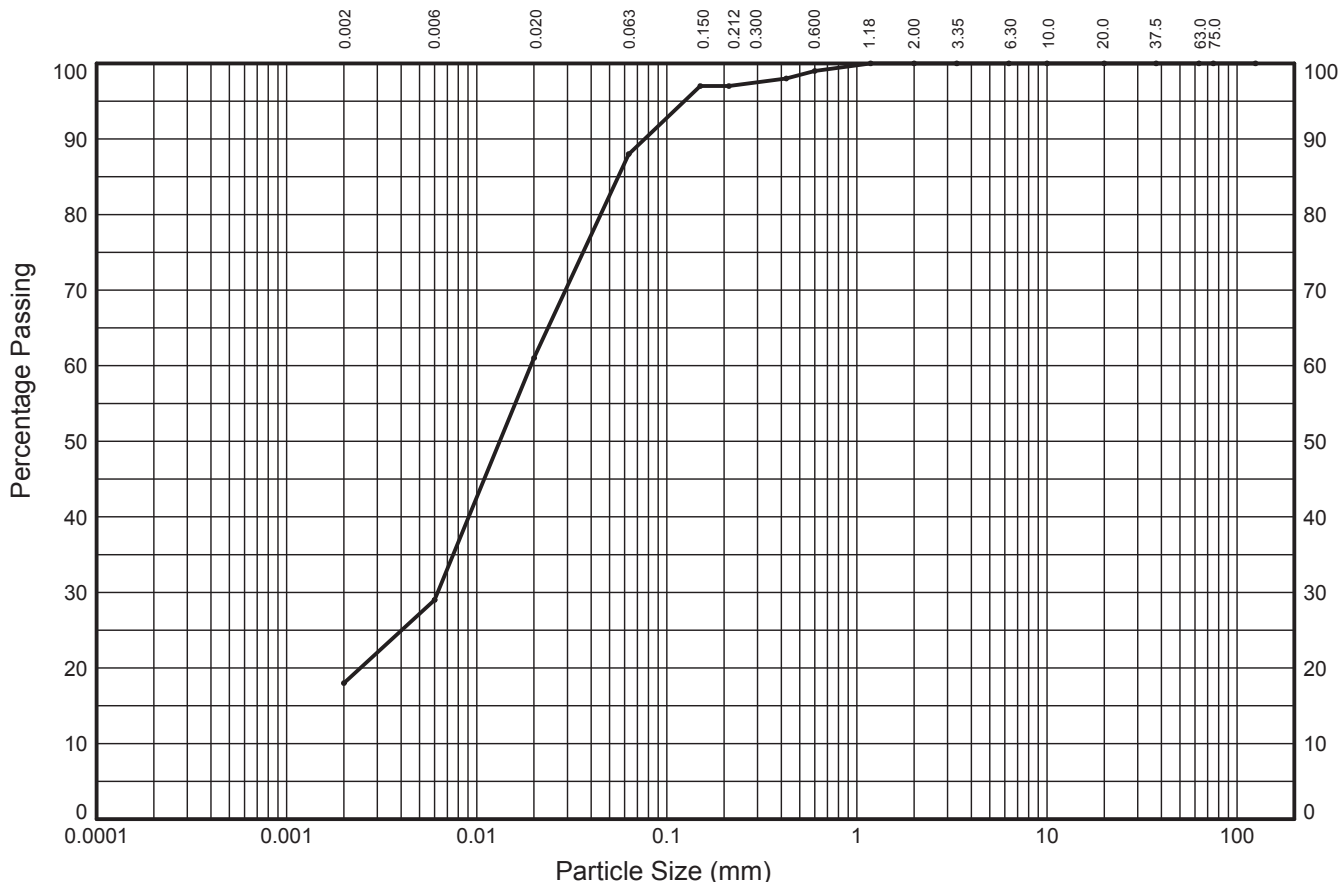
In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Window Sample: **WS117**

Sample Ref: **4**

Sample Type: **B**

Depth (m): **0.40**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	12%	31%	27%	9%	2%	1%	0%	0%	0%	
	SILT			SAND			GRAVEL			
18%	70%			12%			0%			0%

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	100
2.00	100
1.18	100
0.600	99
0.425	98
0.212	97
0.150	97
0.063	88

Particle Diameter (mm)	Percent Passing (%)
0.02	61
0.006	29
0.002	18
Sedimentation sample was not pre-treated	

Coefficients	
D ₁₀ (mm)	NA
D ₁₅ (mm)	NA
D ₃₀ (mm)	0.006
D ₅₀ (mm)	0.013
D ₆₀ (mm)	0.019
D ₈₅ (mm)	0.055
D ₉₀ (mm)	0.076
C _U	NA
C _C	NA

Soil Description:

Brown occasionally mottled sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



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PARTICLE SIZE DISTRIBUTION TEST

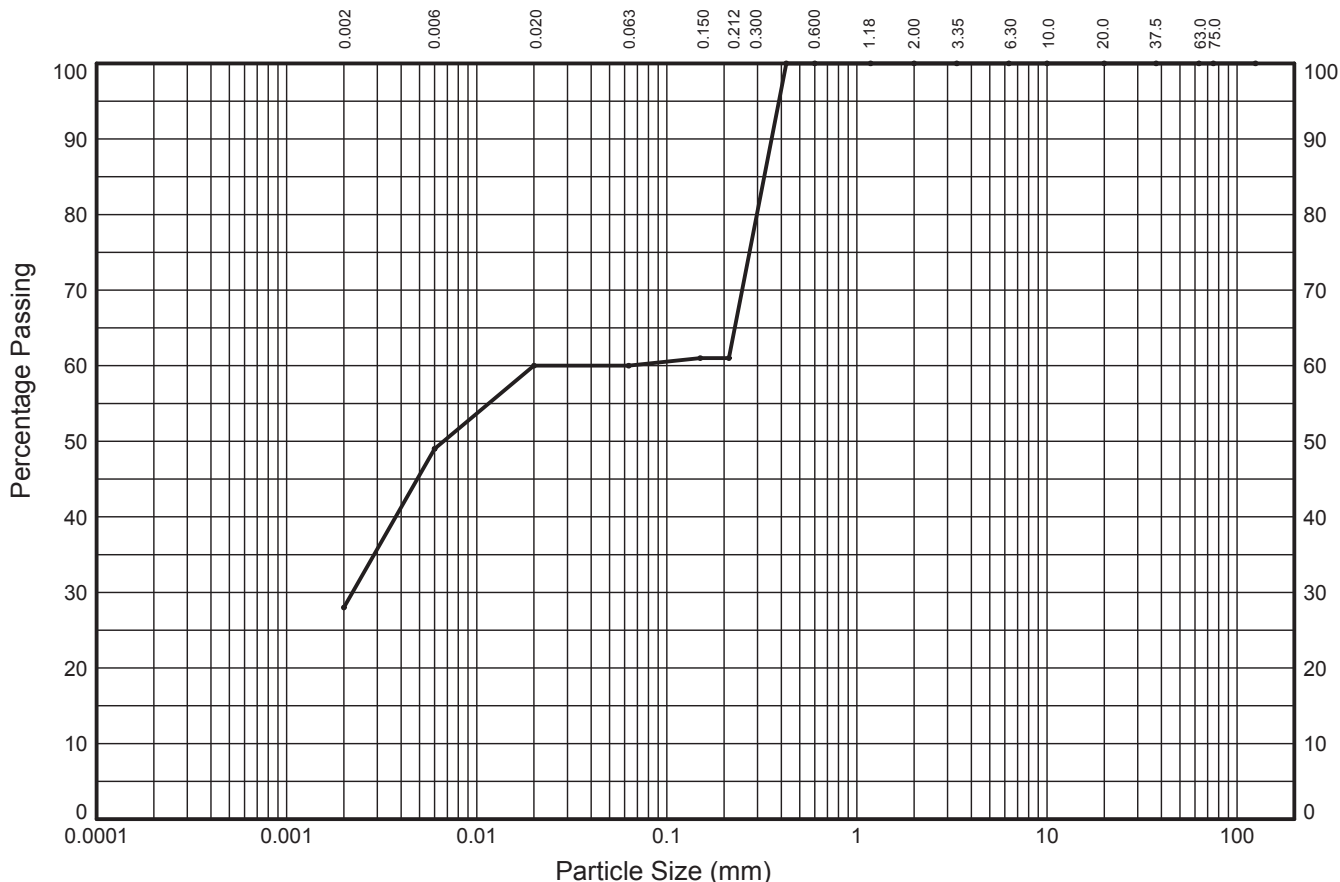
In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Window Sample: **WS120**

Sample Ref: **4**

Sample Type: **B**

Depth (m): **0.40**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	21%	11%	0%	1%	39%	0%	0%	0%	0%	
	SILT			SAND			GRAVEL			
28%	32%			40%			0%			0%

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	100
2.00	100
1.18	100
0.600	100
0.425	100
0.212	61
0.150	61
0.063	60

Particle Diameter (mm)	Percent Passing (%)
0.02	60
0.006	49
0.002	28
Sedimentation sample was not pre-treated	

Coefficients	
D ₁₀ (mm)	NA
D ₁₅ (mm)	NA
D ₃₀ (mm)	0.002
D ₅₀ (mm)	0.007
D ₆₀ (mm)	0.020
D ₈₅ (mm)	0.325
D ₉₀ (mm)	0.356
C _U	NA
C _C	NA

Soil Description:

Grey mottled orangish brown very sandy clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



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PARTICLE SIZE DISTRIBUTION TEST

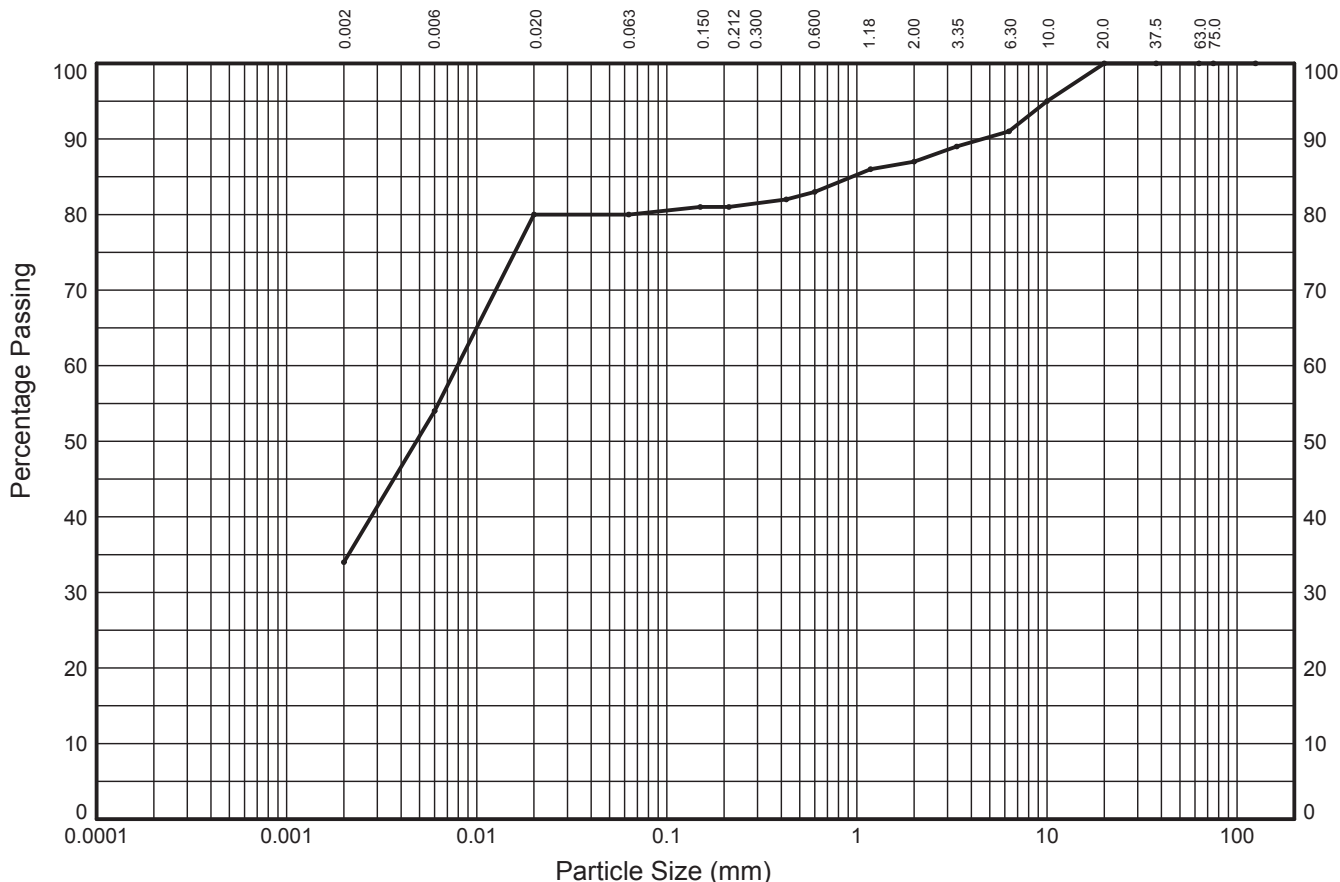
In accordance with clauses 9.2, 9.4 of BS1377:Part 2:1990

Window Sample: **WS121**

Sample Ref: **4**

Sample Type: **B**

Depth (m): **0.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	21%	25%	0%	1%	2%	4%	4%	9%	0%	
	SILT			SAND			GRAVEL			
34%	46%			7%			13%			0%

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	95
6.30	91
3.35	89
2.00	87
1.18	86
0.600	83
0.425	82
0.212	81
0.150	81
0.063	80

Particle Diameter (mm)	Percent Passing (%)
0.02	80
0.006	54
0.002	34
Sedimentation sample was not pre-treated	

Coefficients	
D ₁₀ (mm)	NA
D ₁₅ (mm)	NA
D ₃₀ (mm)	NA
D ₅₀ (mm)	0.005
D ₆₀ (mm)	0.008
D ₈₅ (mm)	0.942
D ₉₀ (mm)	4.594
C _U	NA
C _C	NA

Soil Description:

Grey mottled orangish brown slightly sandy slightly gravelly clayey SILT

Key: C_U = Uniformity coefficient. C_C = Coefficient of curvature as defined in BS EN ISO 14688-2



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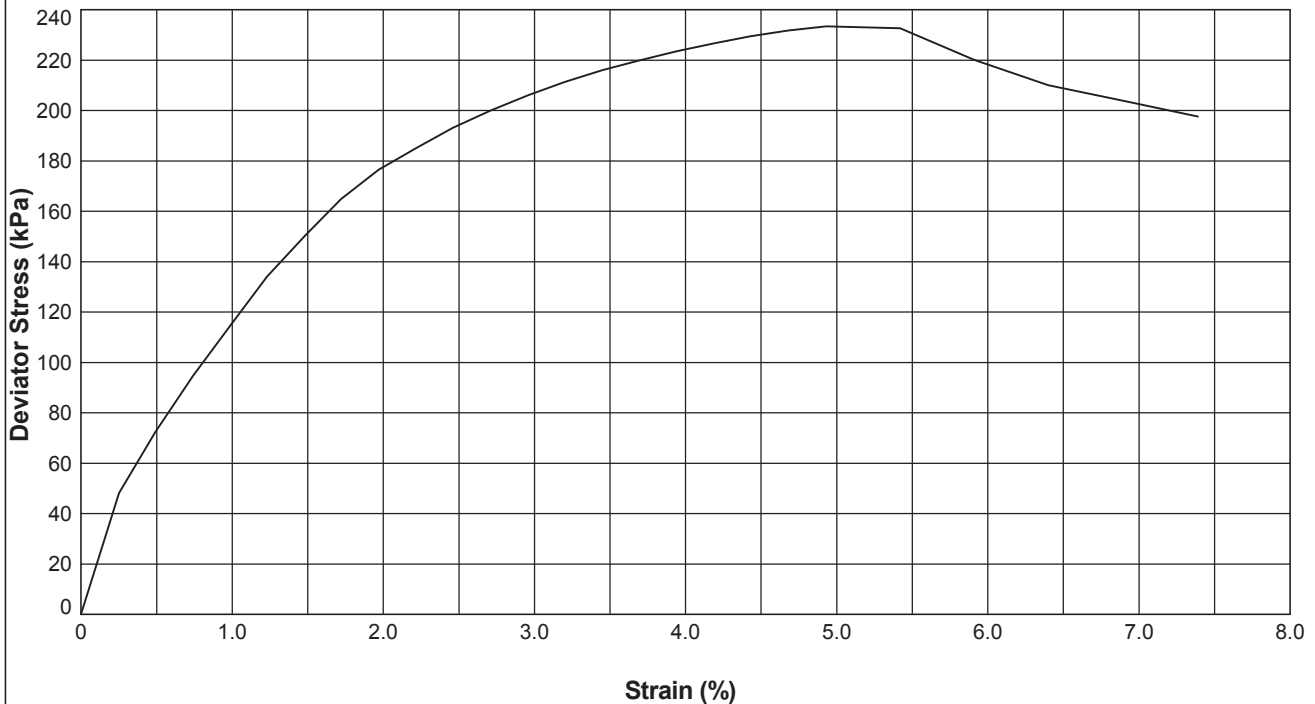
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAXIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole: **BH103** Sample Ref: **4** Sample Type: **UT** Depth (m): **1.28**

Description : **Orangish brown mottled grey slightly sandy silty CLAY**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	102.73		
	Height (mm)	203.00		
	Moisture Content (%)	20		
	Bulk Density (Mg/m ³)	2.11		
	Dry Density (Mg/m ³)	1.75		
TEST DETAILS	Membrane Thickness (mm)	0.37		
	Rate of Axial Displacement (%/min)	1.23		
	Cell Pressure (kPa)	30		
	Membrane Correction (kPa)	0.48		
	Corrected Deviator Stress (kPa)	234		
	Undrained Shear Strength (kPa)	117		
	Strain at Failure (%)	4.9		
	Mode of Failure	Brittle		



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Bristol
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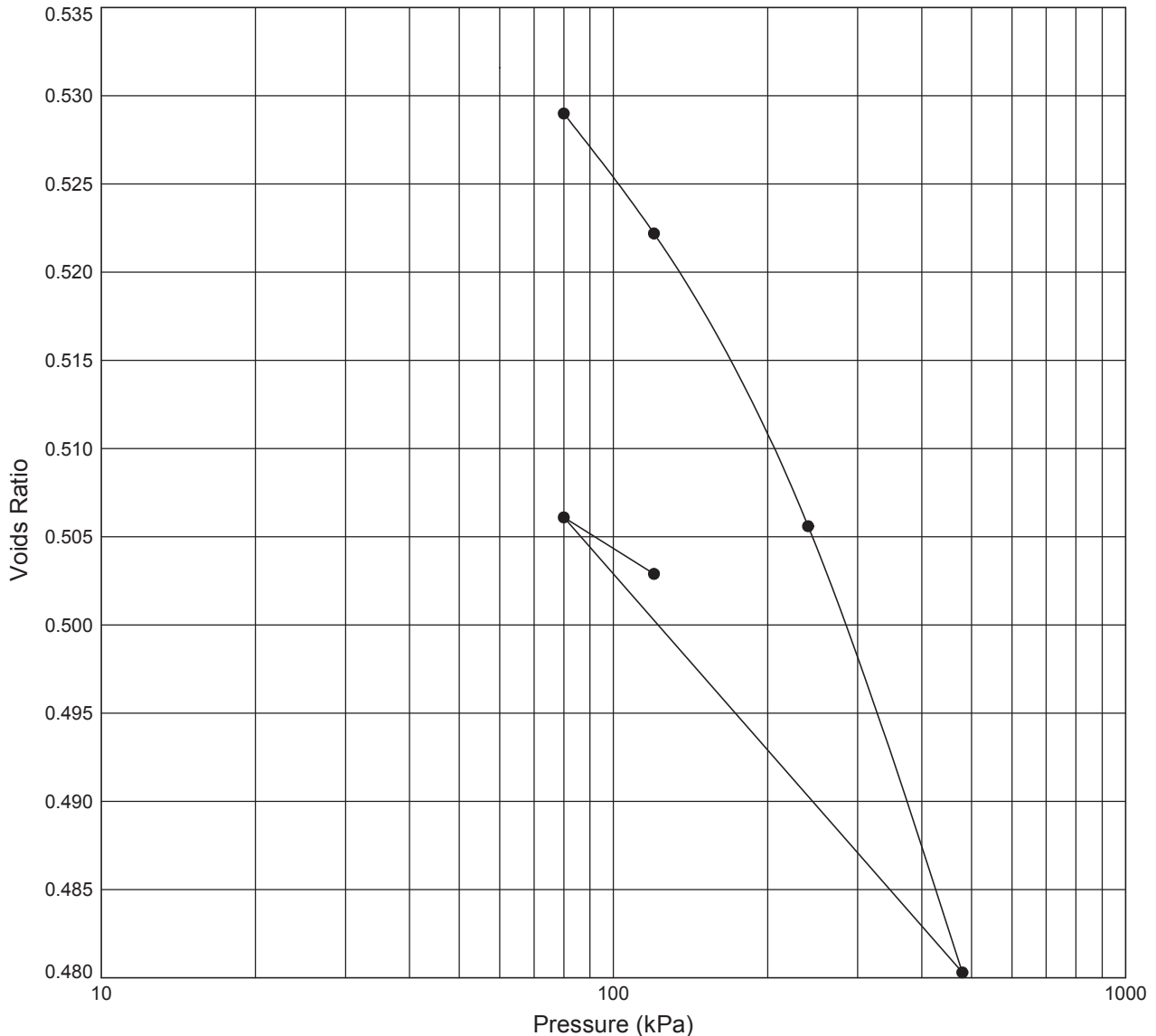
562943



ONE DIMENSIONAL CONSOLIDATION TEST

In accordance with BS1377:Part 5:1990

Borehole: **BH103** Sample Ref: **4** Sample Type: **UT** Depth (m): **1.24**



Initial Specimen Condition		Final Specimen Condition		Test Results			
Moisture Content (%)	: 20	Moisture Content (%)	: 20	Pressure Range (kPa)	Mv (m ² /MN)	Cv (m ² /yr)	Voids Ratio
Bulk Density (Mg/m ³)	: 2.06	Bulk Density (Mg/m ³)	: 2.12	0 - 60	Sample	Swelling	0.5316
Dry Density (Mg/m ³)	: 1.72	Dry Density (Mg/m ³)	: 1.77	60 - 80	0.086	32	0.5290
Void Ratio	: 0.5420	Void Ratio	: 0.5029	80 - 120	0.11	9.6	0.5222
Specimen Details				120 - 240	0.091	29	0.5056
Description Orangish brown mottled grey slightly sandy silty CLAY	Height (mm)	: 18.82		240 - 480	0.070	18	0.4803
	Diameter (mm)	: 74.83		480 - 80	NA	NA	0.5061
	Particle Density (Mg/m ³)	: 2.65		80 - 120	0.053	7.2	0.5029
	(assumed)						
	Swelling Pressure (kPa)	: NA					

Notes: Method of time-setting used: **T90**. Temperature range during test (degC): **19.8 - 22**.

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	Contract		23/06/19
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SUMMARY OF WATER CONTENT TESTS

RT08 Water Content of Rock (in accordance with ISRM 2007)

Exploratory Position ID	Sample Ref	Depth (m)	Sample Type	Water Content (%)	Lab	
BH101	10	7.70	D	11.8	B	
BH101	2	10.00	C	12.5	B	
BH101	4	14.70	C	9.3	B	
BH101	5	17.55	C	8.9	B	
BH101	6	18.35	C	10.4	B	
BH102	2	6.45	C	12.2	B	
BH102	4	7.90	C	11.3	B	
BH102	6	12.50	C	9.0	B	
BH102	8	16.15	C	8.1	B	
BH102	11	18.75	C	11.9	B	
BH103	204	3.40	C	13.7	B	
BH103	206	5.80	C	13.0	B	
BH103	209	9.63	C	11.4	B	
BH103	211	12.58	C	10.1	B	
BH105		5.80	C	12.2	B	
BH105		7.00	C	10.3	B	
BH105		9.35	C	12.5	B	
BH105		11.55	D	11.7	B	
BH105		12.60	C	9.9	B	
BH106		3.60	C	12.5	B	
BH106		5.70	C	16.8	B	
BH106		7.20	C	13.4	B	
BH106		10.00	C	11.8	B	
BH106		12.15	C	12.9	B	

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



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Contract:		Contract Ref:
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In accordance with ISRM 1974-2006

[illegible]

562943 02 (00) 39 of 105

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[illegible]

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



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[illegible]

562943 02 (00) 41 of 105

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[illegible]

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



In accordance with ISRM 1974-2006

[illegible]

562943 02 (00) 43 of 105

DETERMINATION OF POINT LOAD STRENGTH

In accordance with ISRM 1974-2006

[illegible]
$$I_s(50) \text{ Mean Axial tests} = 0.24 \text{ MN/m}^2$$

Unable to calculate $I_a(50)$ Strength Anisotropy Index from this dataset.

Note: Size Correction Factor (F) calculated using $F = (D_e/50)^{0.45}$ (where D_e is equivalent core diameter).

Key

Type of Test column:, A = Axial, D = Diametral, I = Irregular, B = Block, L = Parallel, P = Perpendicular, (NS) denotes Non-standard Test.

Point Load Index column: (✓) = included in mean calculations, (✗) = excluded from mean calculations

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



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In accordance with ISRM 1974-2006

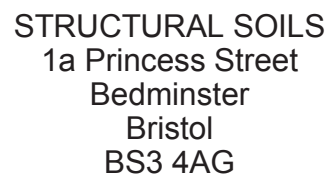
[illegible]

Unable to calculate $I_a(50)$ Strength Anisotropy Index from this dataset.
Note: Size Correction Factor (F) calculated using $F = (D_p/50)^{0.45}$ (where D_p is equivalent core diameter).

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Point Load Index column: (✓) = included in mean calculations, (✗) = excluded from mean calculations
Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



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23.06.19

HE Northern Arc, Burgess Hill - Freaks Farm GI

562943



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[illegible]

562943 02 (00) 46 of 105

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[illegible]

562943 02 (00) 47 of 105

In accordance with ISRM 1974-2006

[illegible]

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)

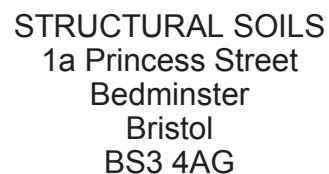


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[illegible]

Note:Size Correction Factor (F) calculated using $F = (D_e/50)^{0.45}$ (where D_e is equivalent core diameter).

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



In accordance with ISRM 1974-2006

[illegible]

562943 02 (00) 50 of 105

DETERMINATION OF POINT LOAD STRENGTH

In accordance with ISRM 1974-2006

[illegible]
$$I_c(50) \text{ Mean Axial tests} = 0.28 \text{ MN/m}^2$$

$I_s(50)$ Mean Diametral tests = **0.22** MN/m²

$I_a(50)$ Strength Anisotropy Index = **1.24** (calculated from highest and lowest diametral and axial $I_s(50)$ ratio)

Note: Size Correction Factor (F) calculated using $F = (D_p/50)^{0.45}$ (where D_p is equivalent core diameter).

Key

Type of Test column:, A = Axial, D = Diametral, I = Irregular, B = Block, L = Parallel, P = Perpendicular, (NS) denotes Non-standard Test.

Point Load Index column: (✓) = included in mean calculations, (✗) = excluded from mean calculations

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



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DETERMINATION OF POINT LOAD STRENGTH

In accordance with ISRM 1974-2006

[illegible]
$$I_s(50) \text{ Mean Axial tests} = 0.59 \text{ MN/m}^2$$

Unable to calculate $I_a(50)$ Strength Anisotropy Index from this dataset.

Note: Size Correction Factor (F) calculated using $F = (D_e/50)^{0.45}$ (where D_e is equivalent core diameter).

Key

Type of Test column:, A = Axial, D = Diametral, I = Irregular, B = Block, L = Parallel, P = Perpendicular, (NS) denotes Non-standard Test.

Point Load Index column: (✓) = included in mean calculations, (✗) = excluded from mean calculations

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



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[illegible]

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



In accordance with ISRM 1974-2006

[illegible]

562943 02 (00) 54 of 105

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Note: Size Correction Factor (F) calculated using $F = (D_e/50)^{0.45}$ (where D_e is equivalent core diameter).

1 = Irreg

Point Load Index column: (✓) = included in mean calculations, (✗) = excluded from mean calculations

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T =

[illegible]

STRUCTURAL SOILS
1a Princess Street
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[illegible]

In accordance with ISRM 1974-2006

[illegible]

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



In accordance with ISRM 1974-2006

[illegible]

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



In accordance with ISRM 1974-2006

[illegible]

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



In accordance with ISRM 1974-2006

[illegible]

562943 02 (00) 59 of 105

In accordance with ISRM 1974-2006

[illegible]

562943 02 (00) 60 of 105

In accordance with ISRM 1974-2006

[illegible]

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)

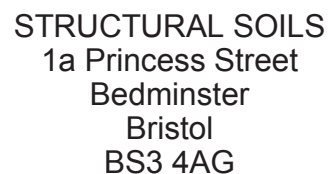


In accordance with ISRM 1974-2006

[illegible]

Note: Size Correction Factor (F) calculated using $F = (D_e/50)^{0.45}$ (where D_e is equivalent core diameter).

Point Load Index column: (✓) = included in mean calculations, (✗) = excluded from mean calculations
Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



AGS

DETERMINATION OF POINT LOAD STRENGTH

In accordance with ISRM 1974-2006

[illegible]
$$I_c(50) \text{ Mean Axial tests} = 0.05 \text{ MN/m}^2$$

$I_s(50)$ Mean Diametral tests = **0.04** MN/m²

$I_a(50)$ Strength Anisotropy Index = **1.18** (calculated from highest and lowest diametral and axial $I_s(50)$ ratio)

Note: Size Correction Factor (F) calculated using $F = (D_p/50)^{0.45}$ (where D_p is equivalent core diameter).

Key

Type of Test column:, A = Axial, D = Diametral, I = Irregular, B = Block, L = Parallel, P = Perpendicular, (NS) denotes Non-standard Test.

Point Load Index column: (✓) = included in mean calculations, (✗) = excluded from mean calculations

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



STRUCTURAL SOILS
1a Princess Street
Bedminster
Bristol
BS3 4AG

Compiled By

Date _____

Contract Ref:

DAISY RICHARDS

23.06.19

Contract:

HE Northern Arc, Burgess Hill - Freaks Farm GI

562943



In accordance with ISRM 1974-2006

[illegible]

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



In accordance with ISRM 1974-2006

[illegible]

562943 02 (00) 65 of 105

DETERMINATION OF POINT LOAD STRENGTH

In accordance with ISRM 1974-2006

[illegible]

Results

Unable to calculate $I_a(50)$ Strength Anisotropy Index from this dataset.

Note: Size Correction Factor (F) calculated using $F = (D_p/50)^{0.45}$ (where D_p is equivalent core diameter).

Key

Type of Test column:, A = Axial, D = Diametral, I = Irregular, B = Block, L = Parallel, P = Perpendicular, (NS) denotes Non-standard Test.

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Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



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DETERMINATION OF POINT LOAD STRENGTH

In accordance with ISRM 1974-2006

[illegible]
$$I_s(50) \text{ Mean Axial tests} = 0.09 \text{ MN/m}^2$$

Unable to calculate $I_a(50)$ Strength Anisotropy Index from this dataset.

Note: Size Correction Factor (F) calculated using $F = (D_e/50)^{0.45}$ (where D_e is equivalent core diameter).

Key

Type of Test column:, A = Axial, D = Diametral, I = Irregular, B = Block, L = Parallel, P = Perpendicular, (NS) denotes Non-standard Test.

Point Load Index column: (✓) = included in mean calculations, (✗) = excluded from mean calculations

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



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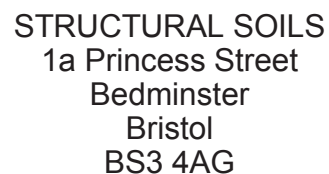
[illegible]

Unable to calculate $I_a(50)$ Strength Anisotropy Index from this dataset.
Note: Size Correction Factor (F) calculated using $F = (D_p/50)^{0.45}$ (where D_p is equivalent core diameter).

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Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



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23.06.19

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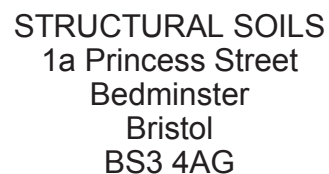


In accordance with ISRM 1974-2006

[illegible]

Note: Size Correction Factor (F) calculated using $F = (D_e/50)^{0.45}$ (where D_e is equivalent core diameter).

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