

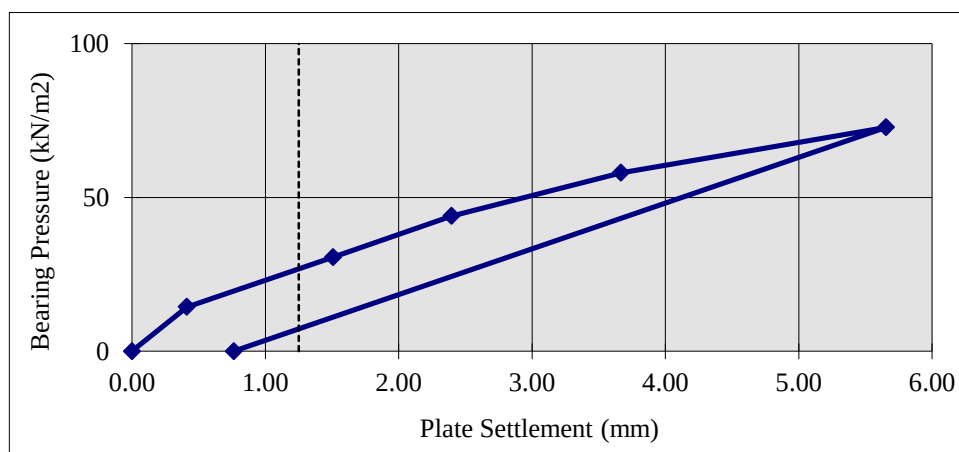


TESTCONSULT LIMITED
 Ruby House, 40A Hardwick Grange, Warrington WA1 4RF
 Tel. (01925) 286880 Fax. (01925) 286881
LABORATORY TEST REPORT
DETERMINATION OF PLATE BEARING CAPACITY

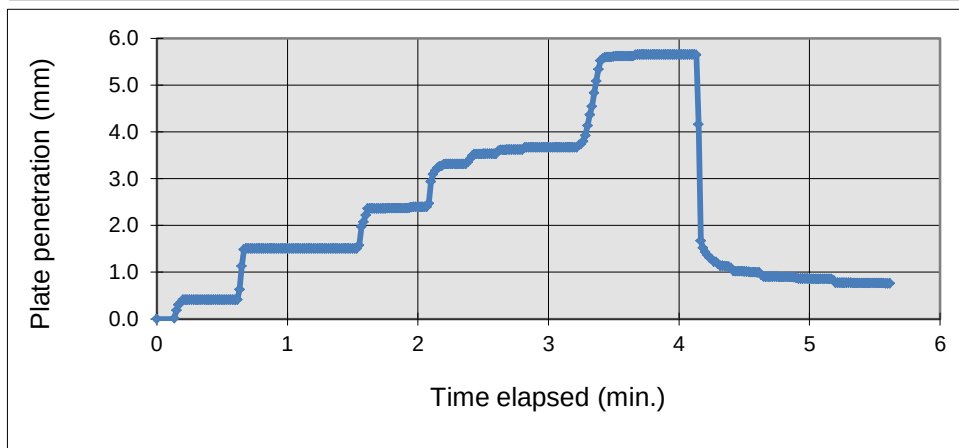


Project :	Keepmoat, Glan Gores, Wrexham	Job No.	L2156
Client :	ADM Regeneration Ltd	Lab Ref No	SA16701/01
	Warrington Lane	Date Tested	02/07/2014
	Lymm	Date Reported	03/07/2014
	WA13 0SA	Weather Conditions:	Sunny
Originator :	John Rogers		

Location : Test 1



Material Type	Capping
Plate Diameter (mm)	600
Technician	P Stewart
Depth	Not Stated
Type of Reaction Load	Site plant



Bearing Pressure (kN/m²)	Plate Settlement (mm)
0.0	0.00
14.4	0.41
30.6	1.51
44.0	2.40
58.0	3.67
72.8	5.65
0.0	0.76

Maximum Applied Pressure (kPa) : 73

Maximum deformation (mm) : 5.65

Modulus of subgrade reaction K (MN/m³) : 21

K₇₆₂ (MN/m³) : 17

Estimated CBR (%) : 1.3

Moisture Content (%) : NR

Plate Load - Tested in accordance with BS 1377 : Part 9 Cl. 4.1: 1990

Moisture Content - Tested in accordance with BS 1377: Part 2 : 1990, oven drying method

Values K₇₆₂, K and CBR(%) calculated in accordance with Interim Advice Note 73/06 (Draft HD25)

Approved Signature

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■ Philip Thorp, Operations Manager

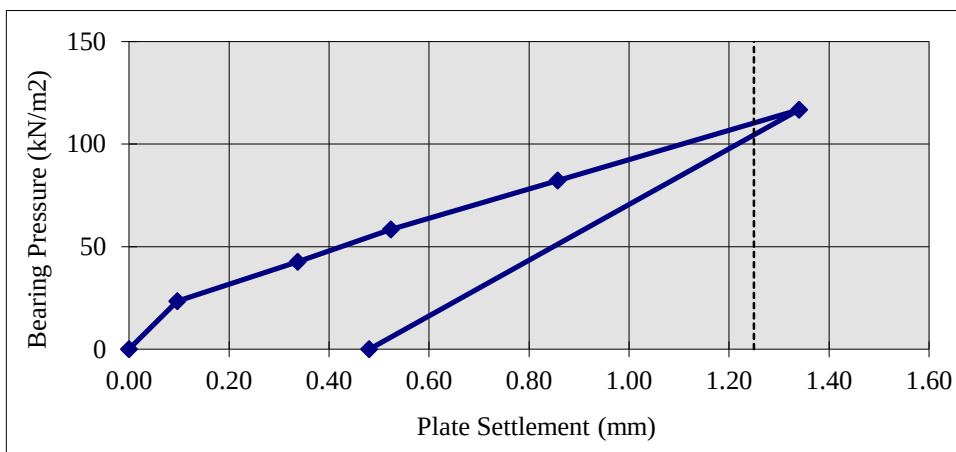


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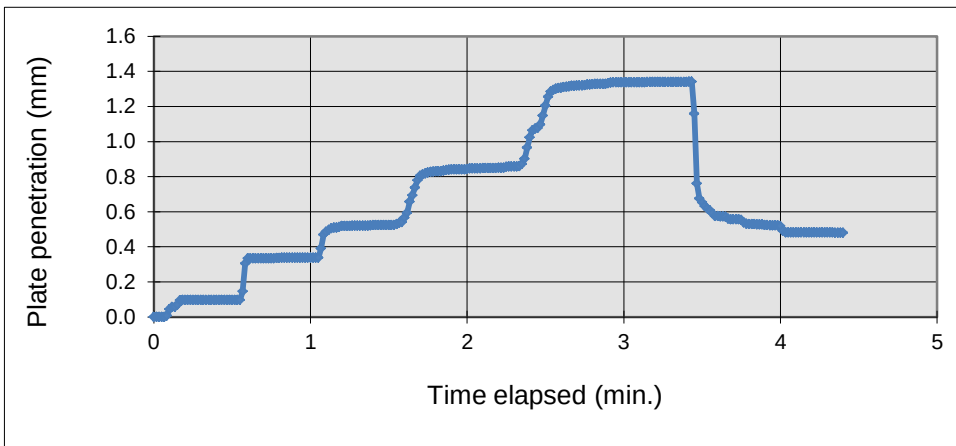


Project :	Keepmoat, Glan Gores, Wrexham	Job No.	L2156
Client :	ADM Regeneration Ltd	Lab Ref No	SA16701/02
	Warrington Lane	Date Tested	02/07/2014
	Lymm	Date Reported	03/07/2014
	WA13 0SA	Weather Conditions:	Sunny
Originator :	John Rogers		

Location : Test 1



Material Type	Capping
Plate Diameter (mm)	600
Technician	P Stewart
Depth	Not Stated
Type of Reaction Load	Site plant



Bearing Pressure (kN/m ²)	Plate Settlement (mm)
0.0	0.00
23.5	0.10
42.6	0.34
58.4	0.52
82.2	0.86
116.7	1.34
0.0	0.48

Maximum Applied Pressure (kPa) : 117

Maximum deformation (mm) : 1.34

Modulus of subgrade reaction K (MN/m³) : 88

K₇₆₂ (MN/m³) : 71

Estimated CBR (%) : 16

Moisture Content (%) : NR

Plate Load - Tested in accordance with BS 1377 : Part 9 Cl. 4.1: 1990

Moisture Content - Tested in accordance with BS 1377: Part 2 : 1990, oven drying method

Values K₇₆₂, K and CBR(%) calculated in accordance with Interim Advice Note 73/06 (Draft HD25)

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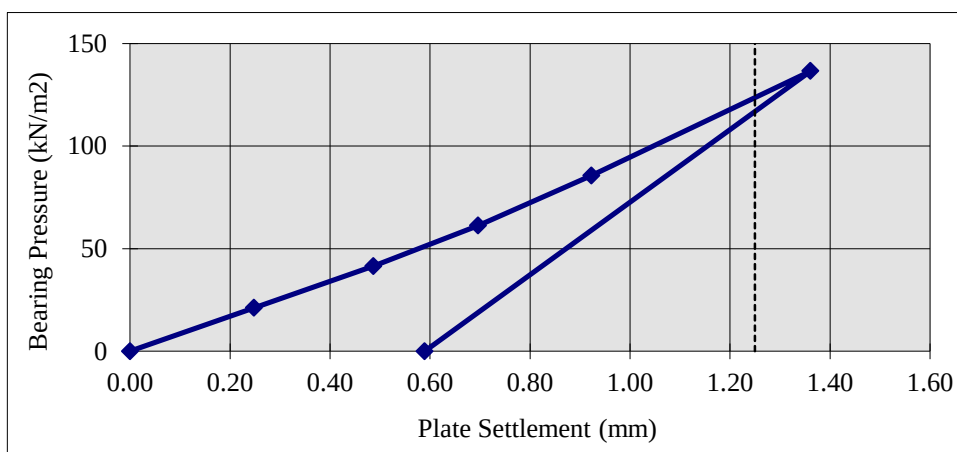


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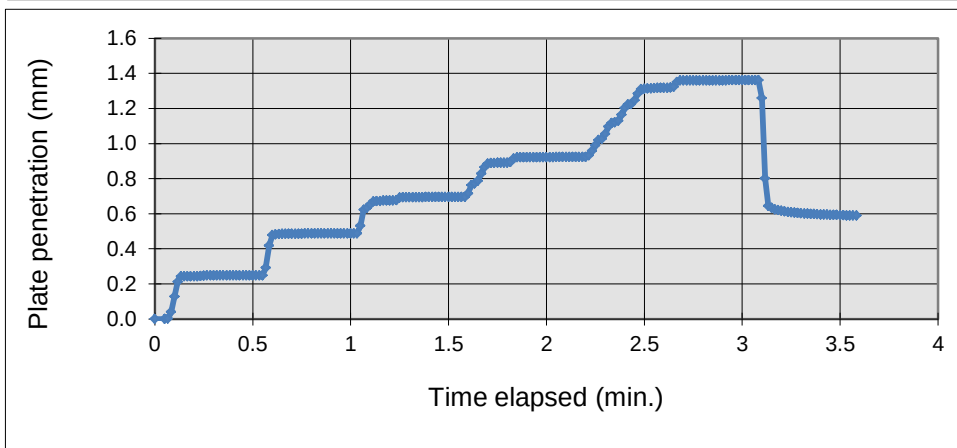


Project :	Keepmoat, Glan Gores, Wrexham	Job No.	L2156
Client :	ADM Regeneration Ltd	Lab Ref No	SA16701/03
	Warrington Lane	Date Tested	02/07/2014
	Lymm	Date Reported	03/07/2014
	WA13 0SA	Weather Conditions:	Sunny
Originator :	John Rogers		

Location : Test 3



Material Type	Capping
Plate Diameter (mm)	600
Technician	P Stewart
Depth	Not Stated
Type of Reaction Load	Site plant



Bearing Pressure (kN/m²)	Plate Settlement (mm)
0.0	0.00
21.1	0.25
41.5	0.49
61.2	0.70
85.6	0.92
136.6	1.36
0.0	0.59

Maximum Applied Pressure (kPa) : 137

Maximum deformation (mm) : 1.36

Modulus of subgrade reaction K (MN/m³) : 99

K₇₆₂ (MN/m³) : 80

Estimated CBR (%) : 19

Moisture Content (%) : NR

Plate Load - Tested in accordance with BS 1377 : Part 9 Cl. 4.1: 1990

Moisture Content - Tested in accordance with BS 1377: Part 2 : 1990, oven drying method

Values K₇₆₂, K and CBR(%) calculated in accordance with Interim Advice Note 73/06 (Draft HD25)

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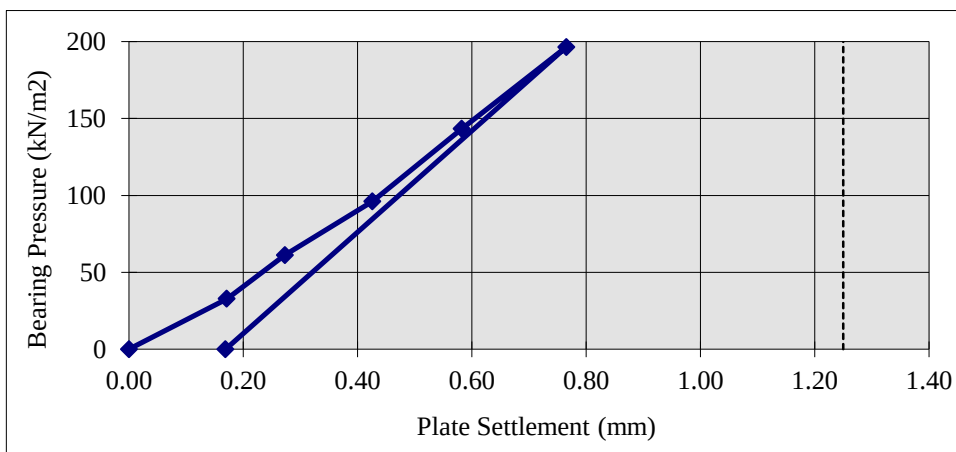


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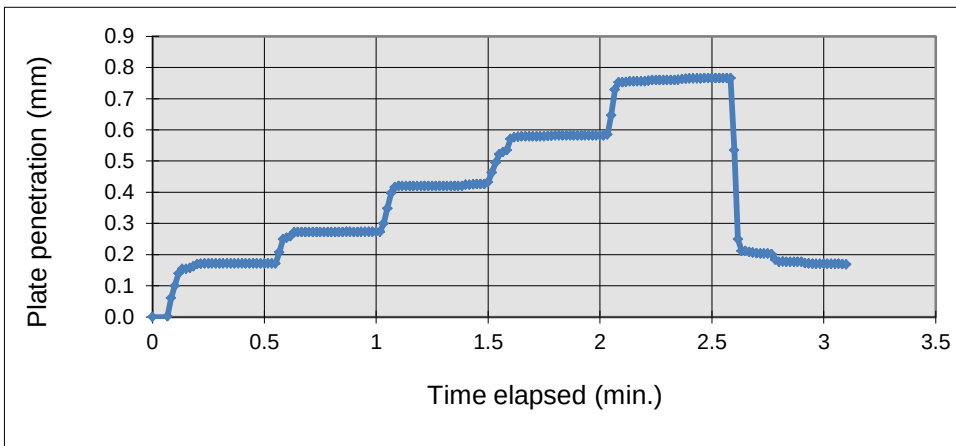


Project :	Keepmoat, Glan Gores, Wrexham	Job No.	L2156
Client :	ADM Regeneration Ltd	Lab Ref No	SA16701/04
	Warrington Lane	Date Tested	02/07/2014
	Lymm	Date Reported	03/07/2014
	WA13 0SA	Weather Conditions:	Sunny
Originator :	John Rogers		

Location : Test 4



Material Type
Capping
Plate Diameter (mm)
600
Technician
P Stewart
Depth
Not Stated
Type of Reaction Load
Site plant



Bearing Pressure (kN/m²)	Plate Settlement (mm)
0.0	0.00
32.8	0.17
61.2	0.27
96.1	0.43
143.2	0.58
196.3	0.77
0.0	0.17

Maximum Applied Pressure (kPa) : 196

Maximum deformation (mm) : 0.77

Modulus of subgrade reaction K (MN/m³) : 255

K₇₆₂ (MN/m³) : 205

Estimated CBR (%) : 98

Moisture Content (%) : NR

Plate Load - Tested in accordance with BS 1377 : Part 9 Cl. 4.1: 1990

Moisture Content - Tested in accordance with BS 1377: Part 2 : 1990, oven drying method

Values K₇₆₂, K and CBR(%) calculated in accordance with Interim Advice Note 73/06 (Draft HD25)

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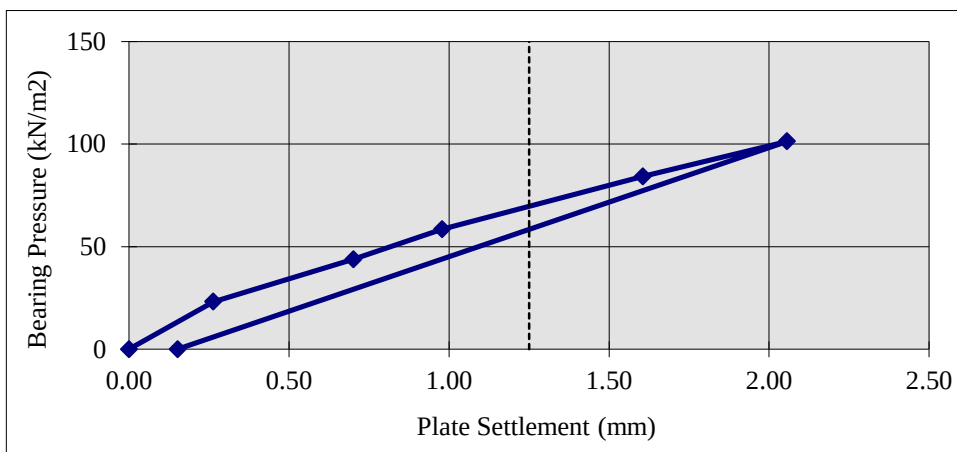


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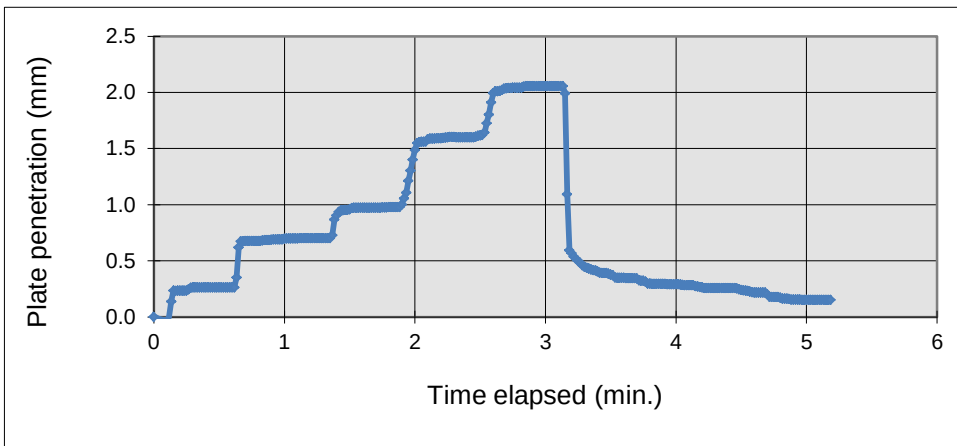


Project :	Keepmoat, Glan Gores, Wrexham	Job No.	L2156
Client :	ADM Regeneration Ltd	Lab Ref No	SA16701/05
	Warrington Lane	Date Tested	02/07/2014
	Lymm	Date Reported	03/07/2014
	WA13 0SA	Weather Conditions:	Sunny
Originator :	John Rogers		

Location : Test 5



Material Type	Capping
Plate Diameter (mm)	600
Technician	P Stewart
Depth	Not Stated
Type of Reaction Load	Site plant



Bearing Pressure (kN/m²)	Plate Settlement (mm)
0.0	0.00
23.2	0.26
43.8	0.70
58.5	0.98
84.3	1.61
101.3	2.06
0.0	0.15

Maximum Applied Pressure (kPa) : 101

Maximum deformation (mm) : 2.06

Modulus of subgrade reaction K (MN/m³) : 56

K₇₆₂ (MN/m³) : 45

Estimated CBR (%) : 7.0

Moisture Content (%) : NR

Plate Load - Tested in accordance with BS 1377 : Part 9 Cl. 4.1: 1990

Moisture Content - Tested in accordance with BS 1377: Part 2 : 1990, oven drying method

Values K₇₆₂, K and CBR(%) calculated in accordance with Interim Advice Note 73/06 (Draft HD25)

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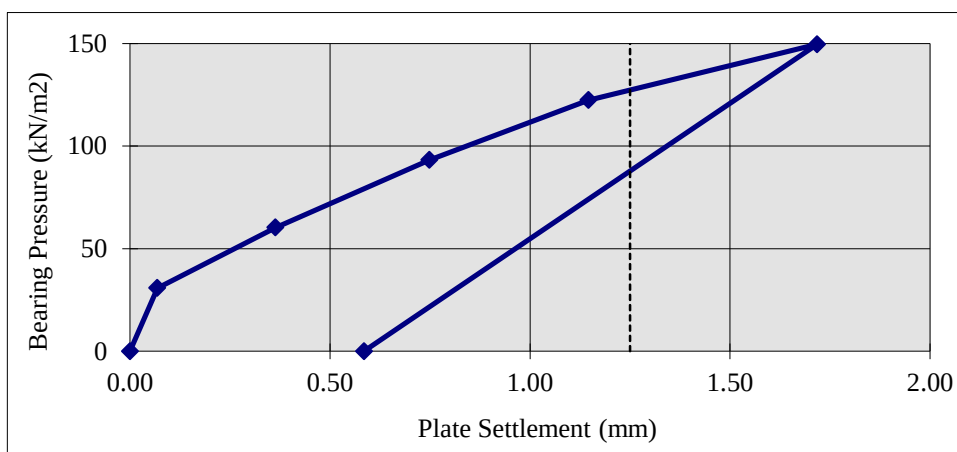


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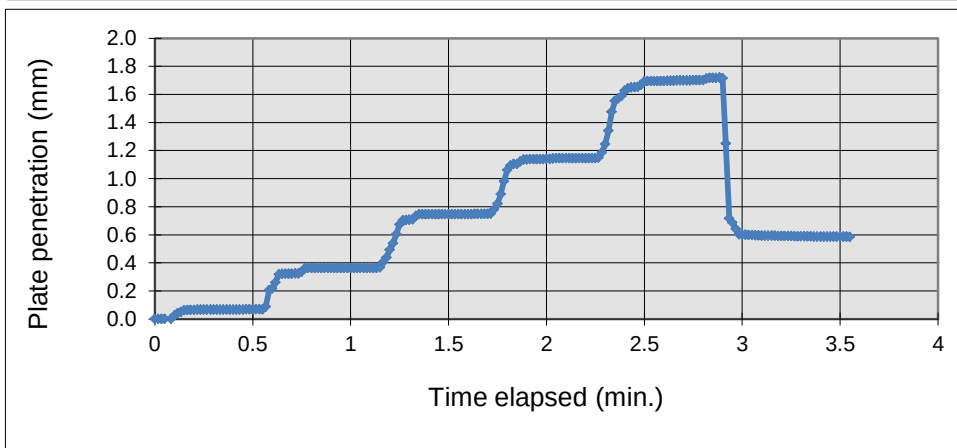


Project :	Keepmoat, Glan Gores, Wrexham	Job No.	L2156
Client :	ADM Regeneration Ltd	Lab Ref No	SA16701/06
	Warrington Lane	Date Tested	02/07/2014
	Lymm	Date Reported	03/07/2014
	WA13 0SA	Weather Conditions:	Sunny
Originator :	John Rogers		

Location : Test 5 RT



Material Type	Capping
Plate Diameter (mm)	600
Technician	P Stewart
Depth	Not Stated
Type of Reaction Load	Site plant



Bearing Pressure (kN/m²)	Plate Settlement (mm)
0.0	0.00
30.8	0.07
60.3	0.36
93.2	0.75
122.4	1.15
149.6	1.72
0.0	0.59

Maximum Applied Pressure (kPa) : 150

Maximum deformation (mm) : 1.72

Modulus of subgrade reaction K (MN/m³) : 102

K₇₆₂ (MN/m³) : 82

Estimated CBR (%) : 20

Moisture Content (%) : NR

Plate Load - Tested in accordance with BS 1377 : Part 9 Cl. 4.1: 1990

Moisture Content - Tested in accordance with BS 1377: Part 2 : 1990, oven drying method

Values K₇₆₂, K and CBR(%) calculated in accordance with Interim Advice Note 73/06 (Draft HD25)

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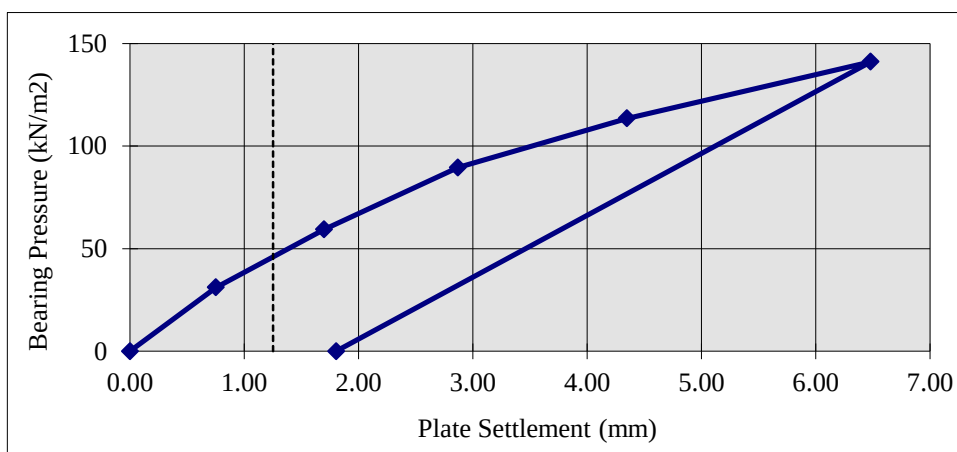


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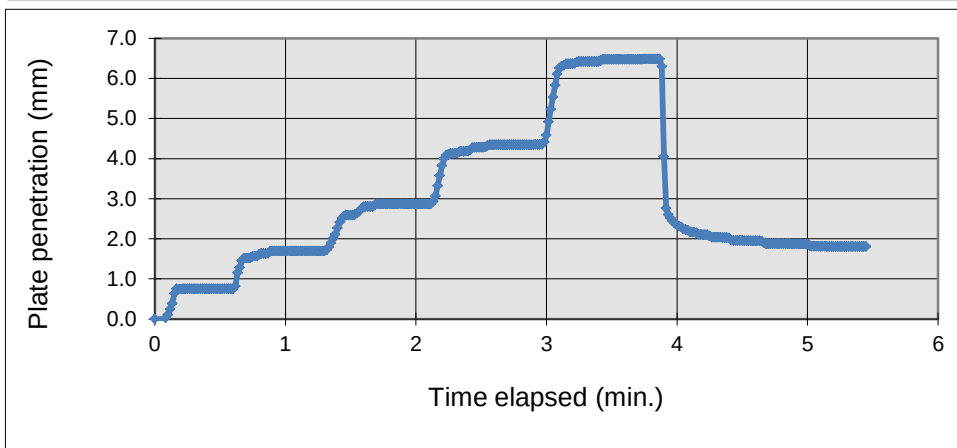


Project :	Keepmoat, Glan Gores, Wrexham	Job No.	L2156
Client :	ADM Regeneration Ltd	Lab Ref No	SA16701/07
	Warrington Lane	Date Tested	02/07/2014
	Lymm	Date Reported	03/07/2014
	WA13 0SA	Weather Conditions:	Sunny
Originator :	John Rogers		

Location : Test 6



Material Type	Capping
Plate Diameter (mm)	600
Technician	P Stewart
Depth	Not Stated
Type of Reaction Load	Site plant



Bearing Pressure (kN/m²)	Plate Settlement (mm)
0.0	0.00
31.2	0.75
59.4	1.70
89.6	2.87
113.5	4.35
141.1	6.48
0.0	1.80

Maximum Applied Pressure (kPa) : 141

Maximum deformation (mm) : 6.48

Modulus of subgrade reaction K (MN/m³) : 37

K₇₆₂ (MN/m³) : 30

Estimated CBR (%) : 3.4

Moisture Content (%) : NR

Plate Load - Tested in accordance with BS 1377 : Part 9 Cl. 4.1: 1990

Moisture Content - Tested in accordance with BS 1377: Part 2 : 1990, oven drying method

Values K₇₆₂, K and CBR(%) calculated in accordance with Interim Advice Note 73/06 (Draft HD25)

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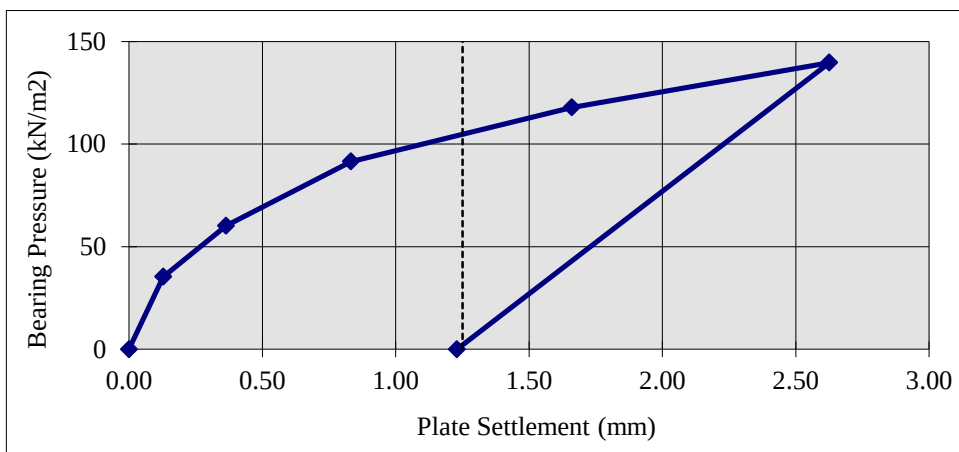


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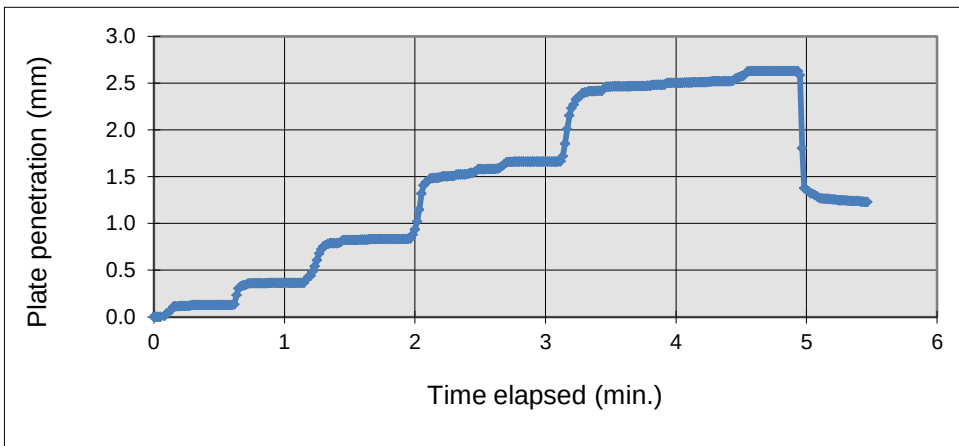


Project :	Keepmoat, Glan Gores, Wrexham	Job No.	L2156
Client :	ADM Regeneration Ltd	Lab Ref No	SA16701/08
	Warrington Lane	Date Tested	02/07/2014
	Lymm	Date Reported	03/07/2014
	WA13 0SA	Weather Conditions:	Sunny
Originator :	John Rogers		

Location : Test 6RT



Material Type
Capping
Plate Diameter (mm)
600
Technician
P Stewart
Depth
Not Stated
Type of Reaction Load
Site plant



Bearing Pressure (kN/m²)	Plate Settlement (mm)
0.0	0.00
35.4	0.13
60.3	0.36
91.5	0.83
117.9	1.66
139.7	2.63
0.0	1.23

Maximum Applied Pressure (kPa) : 140

Maximum deformation (mm) : 2.63

Modulus of subgrade reaction K (MN/m³) : 84

K₇₆₂ (MN/m³) : 67

Estimated CBR (%) : 14

Moisture Content (%) : NR

Plate Load - Tested in accordance with BS 1377 : Part 9 Cl. 4.1: 1990

Moisture Content - Tested in accordance with BS 1377: Part 2 : 1990, oven drying method

Values K₇₆₂, K and CBR(%) calculated in accordance with Interim Advice Note 73/06 (Draft HD25)

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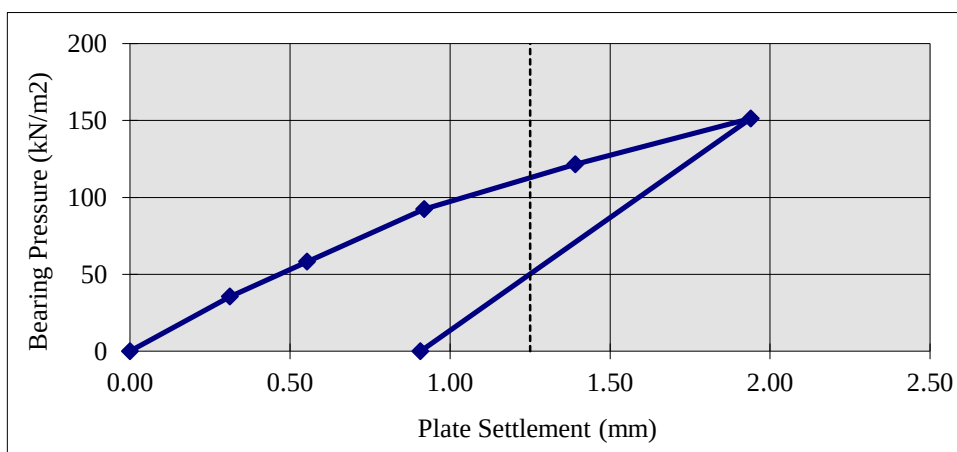


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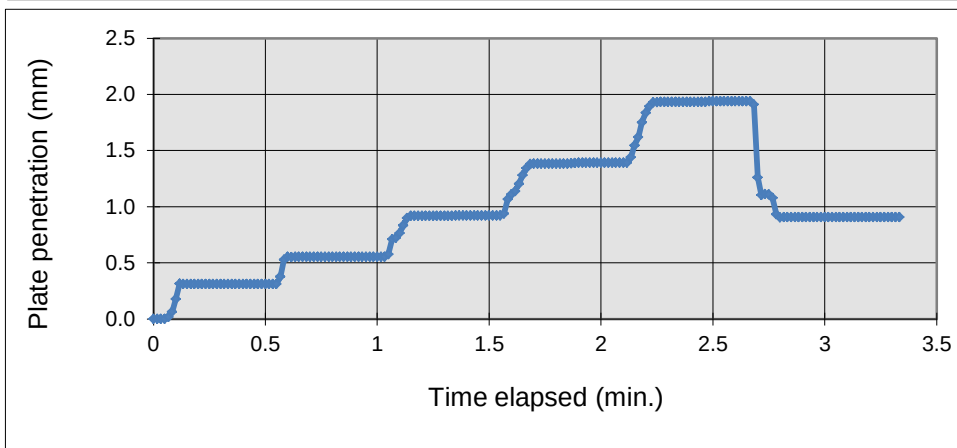


Project :	Keepmoat, Glan Gores, Wrexham	Job No.	L2156
Client :	ADM Regeneration Ltd	Lab Ref No	SA16701/09
	Warrington Lane	Date Tested	02/07/2014
	Lymm	Date Reported	03/07/2014
	WA13 0SA	Weather Conditions:	Sunny
Originator :	John Rogers		

Location : Test 7



Material Type	Capping
Plate Diameter (mm)	600
Technician	P Stewart
Depth	Not Stated
Type of Reaction Load	Site plant



Bearing Pressure (kN/m²)	Plate Settlement (mm)
0.0	0.00
35.5	0.31
58.2	0.55
92.4	0.92
121.5	1.39
151.2	1.94
0.0	0.91

Maximum Applied Pressure (kPa) : 151

Maximum deformation (mm) : 1.94

Modulus of subgrade reaction K (MN/m³) : 90

K₇₆₂ (MN/m³) : 73

Estimated CBR (%) : 16

Moisture Content (%) : NR

Plate Load - Tested in accordance with BS 1377 : Part 9 Cl. 4.1: 1990

Moisture Content - Tested in accordance with BS 1377: Part 2 : 1990, oven drying method

Values K₇₆₂, K and CBR(%) calculated in accordance with Interim Advice Note 73/06 (Draft HD25)

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