SIMTEC
CONSTRUCTION MATERIALS TESTING
A PHENNA GROUP COMPANY

**TEST REPORT**

## Determination of Load vs Settlement (Incremental Loading)

In accordance with BS 1377: Part 9: 1990: Clause 4.1 and in-house TPSM014

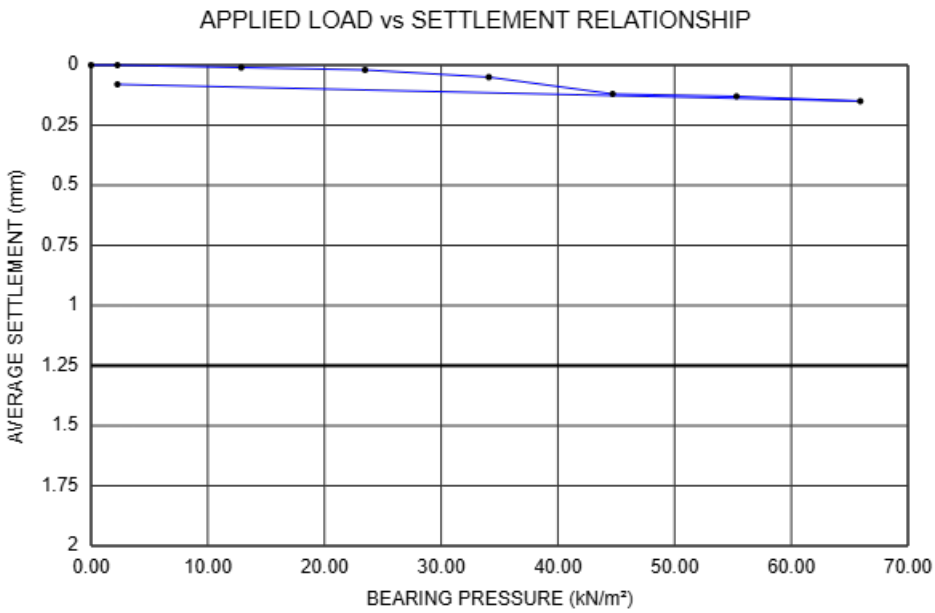
| | | | |
|---|---|---|---|
| REPORT NUMBER: | C4006539 / 31977.4.1.4 | | |
| CLIENT REF: | 4006539 | CLIENT: | Hewitt Sportsturf Limited |
| DATE COMPLETED: | 16/07/2025 | ADDRESS: | 45 Cambridge Rd, Cosby, Leicester LE9 1SJ, LE9 1SJ |
| TESTED BY: | Phil Woolley | SITE: | Manchester City Training Ground |
| LOCATION: | Test 4 boneyard | LAT / LNG: | N/A |
| GROUND CONDITIONS: | Dry | MATERIAL: | TARMAC approx 200mm |
| DISTANCE FROM EDGE OF PLATE TO WALL: | Na | ENVIRONMENTAL CONDITIONS: | Overcast |
| TEST DEPTH: | 0mm | SUPPLIER: | Site won |
| AIR TEMPERATURE: | 14°C | SOURCE: | Site won |
| SAMPLING PLAN: | Client Specification | TEST METHOD: | Incremental Plate Loading |
| | | SAMPLE TAKEN: | No |

**Equipment Details**

| | |
|---|---|
| Type of Kentledge: | 21 Tonne excavator |
| Plate Diameter: | 600 mm |
| Plate Area: | 0.282743 $m^2$ |
| Plate Correction: | 0.80 |

**Results**

| | |
|---|---|
| Max applied pressure: | 66 $kN/m^2$ |
| Max settlement: | 0.15 mm |
| Avg Bearing Pressure (P) at 1.25mm penetration: | > 66 $kN/m^2$ |
| Modulus of subgrade K762: | > 42 $kN/m^2/mm$ |
| Equivalent C.B.R Value at 1.25mm penetration: | > 6.4% |
| Plate recovery: | 46% |




**Equivalent C.B.R Value: > 6.4 %**

Remarks:
Test results reported relate only to the items tested.
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Report Format: LOS/STPS8/Rep Issue 1 Rev 0 11/22

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**TEST RESULTS**

| LOAD APPLIED TO PLATE | AVERAGE BEARING PRESSURE | GAUGE READING | | | GAUGE SETTLEMENT | | | AVERAGE SETTLEMENT |
|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 1 | 2 | 3 | |
| kN | $kN/m^2$ | mm | | | mm | | | mm |
| 0.6 | 2.3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3.6 | 12.9 | -0.02 | -0.01 | -0.01 | 0.02 | 0.01 | 0.01 | 0.01 |
| 6.6 | 23.5 | -0.04 | -0.02 | -0.01 | 0.04 | 0.02 | 0.01 | 0.02 |
| 9.6 | 34.1 | -0.06 | -0.04 | -0.05 | 0.06 | 0.04 | 0.05 | 0.05 |
| 12.6 | 44.7 | -0.10 | -0.10 | -0.15 | 0.10 | 0.10 | 0.15 | 0.12 |
| 15.6 | 55.3 | -0.12 | -0.12 | -0.15 | 0.12 | 0.12 | 0.15 | 0.13 |
| 18.6 | 65.9 | -0.15 | -0.15 | -0.16 | 0.15 | 0.15 | 0.16 | 0.15 |
| 0.6 | 2.3 | -0.05 | -0.09 | -0.11 | 0.05 | 0.09 | 0.11 | 0.08 |

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For and on behalf of Simtec
Nick Thompson - Reporting Co-ordinator

Approved Signatory
Report date 17-Jul-25

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END OF REPORT