



SITE-SPECIFIC LOAD TEST REPORT

REPORT PRODUCED BY:
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05/12/2025



Introduction and communication

This site-specific report has been prepared as record of the findings from The Great British Ground Screw Company's (GBGS) site visit and load testing by request of our client.

GBGS will share the findings of this testing only with our client unless otherwise instructed by the client. Any sharing of this document with third parties by GBGS will need to be authorised by our client in written format i.e. email request.

Once the client is in receipt of this report, they are free to share it with whomever they see fit, however, it must be understood that the testing referenced herein has been conducted exclusively for the purpose of demonstrating compliance with applicable Building Regulations. The validity of these test results is strictly conditional upon the installation being carried out by GBGS in accordance with their approved methods and specifications. Any deviation from this—whether through use of an alternative installer or installation methodology—shall render the test results invalid and of no effect for regulatory or certification purposes.

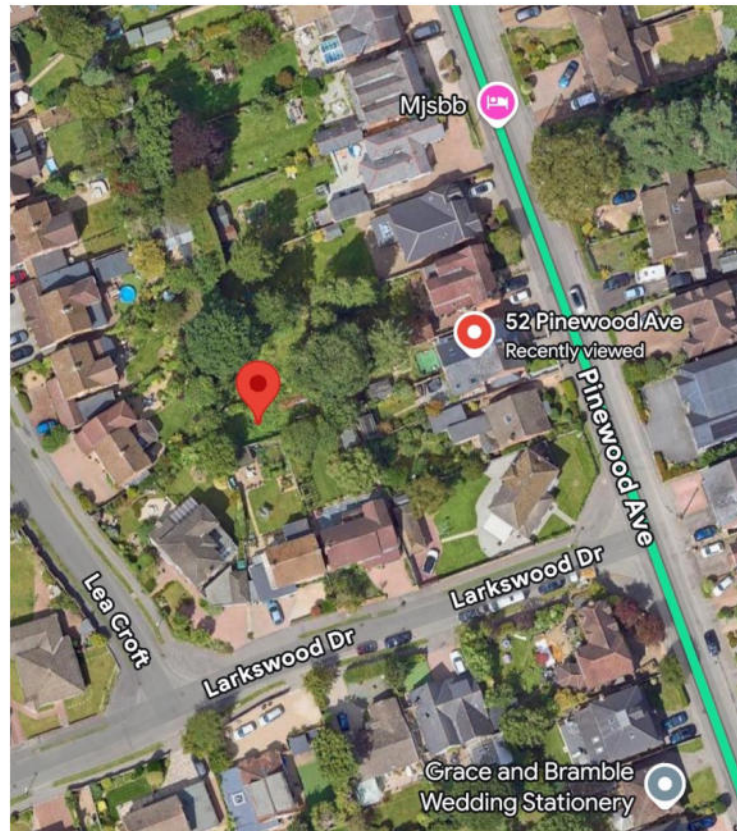
All ground screws (GS) were tested to failure, classified as perceptible movement of 10% of the diameter of the tested GS shaft. All screws were tested approximately 50mm above ground level.

It should be noted that GBGS apply a Factor Of Safety (FOS) of 2 to generate their suggested Safe Working Loads (SWLs) as is good working practice for this style of foundation however, should the client wish to increase/decrease the FOS applied, GBGS should be notified for consultation.

General Information

Report Reference:	SSLTR.11149.LCFS – RG45 6RP
Date of works:	02/12/2025
Test performed by:	P Aquila & D Hedley
Client:	Luke Thompson
Principal Contractor (PC):	Log Cabins For Sale UK
Site Address:	52 Pinewood Avenue Crowthorne RG45 6RP

Work Area Location



Test Results

Test results are presented below in the following fashion:

"Test:XX" – This cell denotes the test number which is then referable to the mapping in the "Test Locations" section of the report.

"Screw Type: GS XXXXmm (XXmm)" – This cell denotes the ground screw type by showing the length first and the diameter second, both in millimetres. The box will also be colour coded to aid with differentiating between the various types tested.

"Uplift Fail Force" – This row denotes the force recorded at which the GS failed by uplifting at 10% of its diameter. i.e. 76mm diameter GS moving 7.6mm. The results are recorded in both kilograms (kg) and kilonewtons (kN).

"Uplift Safe Working Capacity" - This row denotes GBGS' recommended uplift capacity which is the fail force with an FOS of 2 applied. The results are recorded in both kilograms (kg) and kilonewtons (kN).

"Compressive Fail Load" – This row denotes the load at which the GS will fail by moving 10% of its diameter. i.e. 76mm diameter GS moving 7.6mm, under a compressive load. The results are recorded in both kilograms (kg) and kilonewtons (kN).

"Compressive Safe Working Load" - This row denotes GBGS' recommended compressive load which is the fail load with an FOS of 2 applied. The results are recorded in both kilograms (kg) and kilonewtons (kN).

Test Results

Test: 1	Screw Type:	RF 1250mm (76mm)
Units:	Kg (Kilograms)	kN (Kilo Newtons)
Uplift Fail Force:	1258	12.3367657
Uplift Safe Working Capacity:	629	6.16838285
Compressive Fail Load:	1509.6	14.80411884
Compressive Safe Working Load:	754.8	7.40205942

Test: 2	Screw Type:	RF 1550mm (76mm)
Units:	Kg (Kilograms)	kN (Kilo Newtons)
Uplift Fail Force:	1920	18.828768
Uplift Safe Working Capacity:	960	9.414384
Compressive Fail Load:	2304	22.5945216
Compressive Safe Working Load:	1152	11.2972608

Test: 3	Screw Type:	RF 1550mm (76mm)
Units:	Kg (Kilograms)	kN (Kilo Newtons)
Uplift Fail Force:	1836	18.0050094
Uplift Safe Working Capacity:	918	9.0025047
Compressive Fail Load:	2203.2	21.60601128
Compressive Safe Working Load:	1101.6	10.80300564

Test: 4	Screw Type:	RF 1550mm (76mm)
Units:	Kg (Kilograms)	kN (Kilo Newtons)
Uplift Fail Force:	1932	18.9464478
Uplift Safe Working Capacity:	966	9.4732239
Compressive Fail Load:	2318.4	22.73573736
Compressive Safe Working Load:	1159.2	11.36786868

Test Results

1.



2.



3.



4.



Test Locations



Site Information and Installers Notes

Ground conditions:	The work area is a partially cleared space with some minor materials to be cleared. The ground beneath was noted as a soft soil top layer into a firmer strata below.
Fall/Gradient:	Approx. 200mm
Hazards and underground utilities/services:	Client stated they are some surface water drains in the area but are redundant, however, this must be confirmed prior to a full installation going ahead.
Access restrictions:	Side of house access.
Time taken per GS:	7 – 8 minutes
Summary:	Minimum bearing of 1550mm recommended with PC to advise on any depth stipulations prior to install, if applicable. Maximum drilling depth of 2500mm recorded with handheld machinery. Drains must be confirmed as redundant prior to the full installation. Due to gradient on site use of longer length GS will be required. Report submitted for review and response.