

Torriad Farms Ltd
Bowling Bank
Wrexham
LL13 9RT

Date: 17 July 2024
Test Report Ref: TR 1044207

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Contract: Torrad Farm Wrexham

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Coefficient of Permeability under constant head conditions in a flexible wall permeameter in accordance with
BS EN ISO 17892-11: 2019

SAMPLE DETAILS:

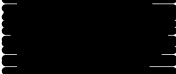
Certificate of sampling received:	No
Laboratory Ref. No:	S122264
Client Ref. No:	Toriad Farm Clay
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	13/06/2024
Date of Start of Test:	25/06/2024
Sampling Location:	Unknown
Name of Source:	Toriad Farm
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	CH
Material Description:	Brown sandy silty CLAY
Target Specification:	$<1.0 \times 10^{-9}$ m/s
Average Laboratory temperature (°C)	21
Source of the permeant water:	De-aired tap water

RESULTS:

See attached

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments: Complies with specification requirements.	Report checked and approved by:  Euros Jones Technical Manager
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TEST RESULTS

Sample condition: Remoulded

Method of Remoulding (If applicable): 2.5kg rammer

Specimen Details:	Initial:	Final:
Diameter:	101.8 mm	N/A
Height:	98.2 mm	N/A
Water Content:	19 %	22 %
Bulk density:	2.03 Mg/m ³	2.23 Mg/m ³
Dry density:	1.71 Mg/m ³	1.84 Mg/m ³

Saturation stage: Saturation by increments of both cell and back pressure with open drainage

Initial pore pressure coefficient,B:	0.20
Final pore pressure coefficient,B:	1.00
Duration of stage:	4 days

Consolidation stage:

Effective pressure:	100 kPa
Duration of stage:	3 days

Permeability stage:

Pressure difference across specimen:	20 kPa
Mean effective stress:	90 kPa
Duration of stage	2 days
Coefficient of Permeability (k_v) at 20°C =	6.1×10^{-11} m/s