

Tarmac Services Limited
Cornelly Quarry
Stormy Down
Hoel-Y-Splott
Bridgend
CF33 4RD
Contract: Cornelly Quarry

Date: 02 June 2023
Test Report Ref: TR 941892

Order No: Kevin Cox

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LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S109056
Client Ref. No:	Corn 1430 Type 1, 6F4, 6i & 6N; 28/2/23
Date and Time of Sampling:	28/02/2023
Date of Receipt at Lab:	07/03/2023
Date of Start of Test:	23/05/2023
Sampling Location:	Unknown
Name of Source:	Cornelly Quarry
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MW
Material Description:	Type 1/6F4/6i & 6N
Target Specification	SHW Series 800: clause 801.15

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Comparator Specimen - Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	12.0	(nearest 0.5mm)
Comparator Specimen 2	12.5	(nearest 0.5mm)
Comparator Specimen 3	12.0	(nearest 0.5mm)
Mean	12.2	(nearest 0.1mm) (limits: 13.6 +/- 4mm)
Test Specimen - Maximum Heave Observed in 96 hours (mm)		
Test Specimen 1	6.5	(nearest 0.5mm)
Test Specimen 2	7.0	(nearest 0.5mm)
Test Specimen 3	8.0	(nearest 0.5mm)
Range of Test Specimens Maximum Heave	1.5	(should not exceed 6mm)
Mean Frost Heave	7.2	(nearest 0.1mm)

In accordance with SHW Series 800: clause 801.15 the sample is classified as being
Non Frost Susceptible (mean frost heave ≤ 15mm)

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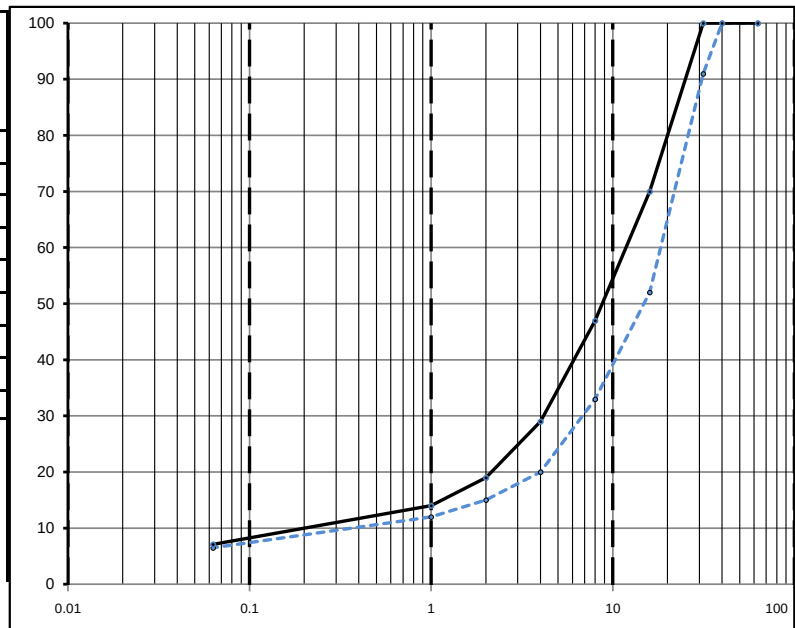
RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	2.15 Mg/m3
Optimum Water Content	4 %
Actual Dry Density	2.15 Mg/m3
Actual Water Content	4 %

Particle Size Distribution Test Result

BS Test Sieve Nominal Aperture	As Received Test Portion % Passing	Stable Test Portion % Passing
63.0 mm	100	100
40.0 mm	100	100
31.5 mm	91	100
16.0 mm	52	70
8.0 mm	33	47
4.0 mm	20	29
2.0 mm	15	19
1.0 mm	12	14
0.063 mm	6.5	7.1



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These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Iwan Jones

Iwan Jones

Aggregate Team Coordinator