

**CERTIFICATE OF TEST - DETERMINATION OF FROST HEAVE**  
**TESTED IN ACCORDANCE WITH BS 812 : PART 124 : 2009 (ANNEX B)**  
**AND SHW : CLAUSE 801.8 : 2009**

Laboratory reference no(s) :	19-53250 - 462614	Head Office Certificate No :	462614-19-53250-A22
Client :	Day Group Limited		
Certificate address :	Transport Avenue, Brentford Middlesex TW8 9HF		
Contract :	Avonmouth		
Source of material (as indicated by client) :	Avonmouth		
Client reference/data :	May-2019-Type1 ECO GA		
Location of sample on site :	Stockpile		
Date sampled :	17/05/2019		
Sampled by :	TH/SD		
Date received :	20/05/2019		
Material description :	0/50mm Ecoblend GA (SHW 803 Type1)		
Total mass received :	214.25 kg		
Method of preparation :	BS EN 932-2, BS EN 933-1, BS 812-124		
Variation from test procedure :	None		
Sampling certificate :	Yes		
Client's indicated specification(s) :	SHW:Series 800:Sub-base Type1		

**Particle Size Distribution ( Wet Sieving Analysis )**

Sieve Size	Percentage By Dry Weight Passing Sieve Size			
	As Received Sample	Stable Trial Specimen	Specification Limits	
			Lower	Upper
63.0mm	100	100	100	100
40.0mm	100	100	-	-
31.5mm	95	97	75	99
16.0mm	72	81	43	81
8.00mm	44	52	23	66
4.00mm	29	37	12	53
2.00mm	21	32	6	42
1.00mm	15	25	3	32
250µm	9	13	-	-
63µm	5.6	5.8	0	9

**Compaction Characteristics And Water Contents**

Property	Determined By :	Actual Achieved
	BS EN 13286 - 4 : 2003	Stable Trial Sample / Test Samples
Maximum Dry Density (Mg/m <sup>3</sup> )	1.95	1.95
Water Content (%)	12.5	12.5

**Report Of Frost Testing Results**

	Specimen 1	Specimen 2	Specimen 3	Range	Mean
Heave of Sample After 96 Hours (mm)	3.5	4.5	4.0	1.0	4.0
Heave of Reference Sample After 96 Hours (mm)	11.0	10.5	10.5	0.5	10.7

Mean Frost Heave (to nearest 0.1mm) : 4.0 mm

Remarks : SHW : CLAUSE 801.8 : 2009 states "Material shall be classified as non-frost-susceptible if the mean heave is 15 mm or less, when tested in accordance with BS 812-124.

Tested by : JY/PJC Date tested : 12/06/2019 - 21/06/2019 Approved :  Date : 26/06/2019

Daniel Paris Senior Technician

Bulk samples will be retained for a minimum of 21 days from date of receipt unless a written instruction is received within 14 days of receipt requesting sample retention

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