

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) : **17-79909 - 315681** Head Office Certificate No : **315681-17-79909-A22**

Contract : **Royal Edward Dock - Avonmouth**
Source of material (as indicated by client) : **IBAA: Tarmac Durnsford Blend**
Client reference/data : **DAT 800**
Location of sample on site : **Stockpile**
Date sampled : **20/01/2017**
Sampled by : **CW**
Date received : **20/01/2017**
Material description : **Type 1 EcoBlend AS**
Total mass received : **493.74 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 Type 1**

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	97	98	75	99
16.0mm	90	75	43	81
8.00mm	64	53	23	66
4.00mm	42	35	12	53
2.00mm	31	26	6	42
1.00mm	24	20	3	32
250µm	15	12	-	-
63µm	8.6	7.2	0	9

Compaction Characteristics And Water Contents


Property	Determined By : BS EN 13286 - 4 : 2003	Actual Achieved Stable Trial Sample / Test Samples
Maximum Dry Density (Mg/m ³)	1.89	1.89
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)	7.5	6.0	6.5	1.5	6.7
Heave of Reference Sample After 96 Hours (mm)	10.5	11.0	13.0	2.5	11.5

Mean Frost Heave (to nearest 0.1mm) : **6.7 mm**

Remarks : **This sample of material is deemed to be Non-Frost Susceptible**

Tested by : **SDC/PJ** Date tested : **22/02/2017 - 03/03/2017** Approved :  **Andy Bates Laboratory Manager** Date : **07/03/2017**

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

Any statement of compliance with a given specification relates only to the test covered by this certificate.

Opinions and interpretations, if stated, are not within the scope of our UKAS accreditation

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