



TONKIN MATERIALS TESTING LIMITED

The Materials Laboratory
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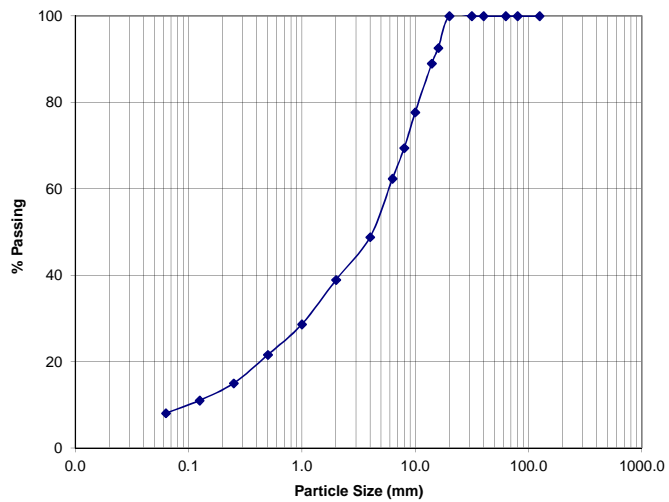
TEST CERTIFICATE

Determination of particle size distribution - sieving method in accordance with BS EN 933-1:2012 (washing and sieving method) and Testing for constituent materials in recycled aggregate in accordance with BS EN 933-11:2009

Client: Dre	Contract Ref: 19/106
Contract: Challonsleigh Farm Recycling Facility, Lee Mill	Report No: 19/106/RAC/001
Location: Stockpile designated: 0/20 all-in aggregate.	Sample No: 19/106/A/001
Material: 0/20 All-in aggregate for pipe bedding, haunching and surrounding material	Date sampled: 26/09/2019
Specification: SHW Series 500 Clause 503 Table 5/4 (Clause 4.3.3) All-in aggregate	Date received: 26/09/2019
Aggregate Product Specification: BS EN 13242:2002+A1:2007	Dates tested: 27/09/2019
Aggregate category: Table 2 0/20 G _A 90 G _T A _{NR} Table 8 f ₁₁	to 07/10/2019
Supplier: Recycled by Client	Sampled by: A Meecham
Source: Recycled - various unknown sources	Sample Cert: Available

BS EN 933-2 Test sieve (mm)	Passing (%)	Specification
125	100	
80	100	
63	100	
40	100	100 - 100
31,5	100	98 - 100
20	*100*	90 - 99
16	93	
14	89	
10	78	50 - 90
8	69	
6,3	62	
4	49	
2	39	20 - 60
1	29	
0,5	22	
0,25	15	
0,125	11	
0,063	8.0	0 - 11

Particle Size Distribution Chart



Determination of water content by drying in a ventilated oven - BS EN 1097-5:2008 13.5

- The sample tested complies with the above grading requirements.
- The percentage passing the D (20 mm) sieve is greater than 99%. However this is permitted in BS EN 13242:2002+A1:2007 Table 2 Note d but the grading must be declared.

Report to: Damien Pemberton
 Dre
 Falcon Business Centre
 Falcon House
 Eagle Road
 Langage
 Plymouth
 PL7 5JY

Authorised Signatory:
 A Meecham - Materials Technician

Signed:

Date of issue: 07 October 2019



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Drying temperature (°C)		105		
Dry mass of sample (g)		4347		
Corrected mass of test portion (after material > 63mm and < 4mm removed) (g):		2226		
Class	Material	Percentage present	Category (*)	Specification
Rc	Concrete, concrete products, mortar, concrete masonry units	83	RC ₇₀	RC _{NR}
Rc + Ru + Rg	Rc + Ru (Unbound Aggregate, natural stone, hydraulically bound mixtures) + Rg	93	RCu ₉₀	RCu _{NR}
Ru	Unbound Aggregate, natural stone, hydraulically bound mixtures	10	Not defined	RCu _{NR}
Rb	Clay masonry units, calcium silicate masonry units, aerated non floating concrete masonry	5	Rb ₁₀	Rb _{NR}
Ra	Bituminous Materials	2	Ra ₁	Ra _{NR}
Rg	Glass	0	Rg ₂	Rg _{NR}
X	Other: Cohesive (ie. Clay and soil), metals, non floating wood, plastic, rubber, gypsum plaster	0	X ₁	Max X ₁
FL	Floating material present (cm ³ /kg)	0.0	FL ₅	FL _{NR}

Description of Category X Material found:	None present
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- Remarks: 1. Categorisation on Ru is not defined in Table 12 of BS EN 13242:2002+A1:2007.
2. The above testing is carried out as specified in SHW Clause 710.
3. BS EN 13242:2013 (withdrawn) Annex A, source codes P and A4.

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