



TONKIN MATERIALS TESTING LIMITED

The Materials Laboratory
 25A New North Road, Exmouth, Devon. EX8 1RU
 Tel/Fax: 01395 222460 Mobile: 07860 835099



TEST CERTIFICATE

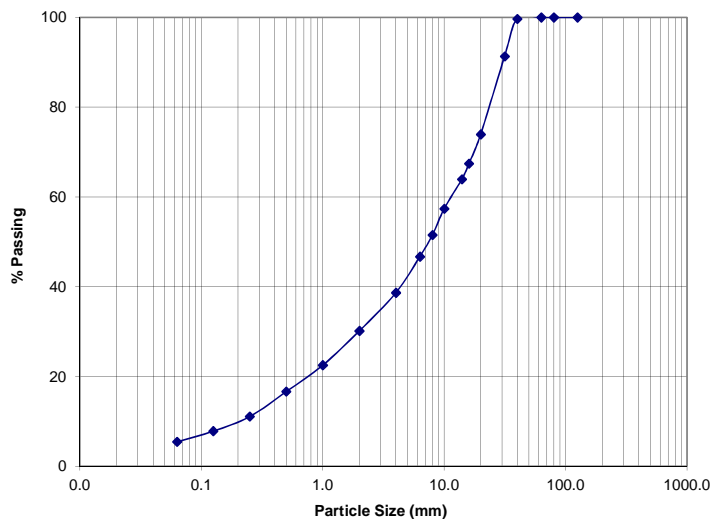
Determination of particle size distribution - sieving method in accordance with BS EN 933-1:2012 (washing and sieving method) and Testing for constituent materials in recycled aggregate in accordance with BS EN 933-11:2009

Client: Dre
 Contract: Challonsleigh Farm Recycling Facility, Lee Mill
 Location: Stockpile designated: 803 Type 1 Granular Sub-base
 Material: Type 1 Granular sub-base
 Specification: SHW Series 800 clause 803 Type 1 unbound mixture
 Supplier: Recycled by client
 Source: Recycled - various unknown sources

Contract Ref: 19/106
 Report No: 19/106/RAC/002
 Sample No: 19/106/A/002
 Date sampled: 26/09/2019
 Date received: 26/09/2019
 Dates tested: 27/09/2019
 to 07/10/2019
 Sampled by: A Meecham
 Sample Cert: Available

BS EN 933-2 Test sieve (mm)	Passing (%)	Specification
125.0	100	
80.0	100	
63.0	100	100 - 100
40.0	100	
31.5	91	75 - 99
20.0	74	
16.0	67	43 - 81
14.0	64	
10.0	57	
8.0	52	23 - 66
6.3	47	
4.0	39	12 - 53
2.00	30	6 - 42
1.00	23	3 - 32
0.500	17	
0.250	11	
0.125	8	
0.063	5.4	0 - 9

Particle Size Distribution Chart



	Percentage by mass	Specification
Material Retained on 8 mm sieve passing through 16 mm sieve	15	7 - 30
Material Retained on 4 mm sieve passing through 8 mm sieve	13	7 - 30
Determination of water content by drying in a ventilated oven - BS EN 1097-5:2008		10.8

Remarks: 1. The sample tested complies with the above specified requirements

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)		15923		
Corrected mass of test portion (after material > 63mm and < 4mm removed) (g):		9770		
Class	Material	Percentage present	Category	Specification
Rc	Concrete, concrete products, mortar, concrete masonry units	91	Rc ₉₀	Rc _{NR}
Rc + Ru + Rg	Rc + Ru (Unbound Aggregate, natural stone, hydraulically bound mixtures) + Rg	97	Rcu ₉₀	Rcu _{NR}
Ru	Unbound Aggregate, natural stone, hydraulically bound mixtures	7	Not defined	Rcu _{NR}
Rb	Clay masonry units, calcium silicate masonry units, aerated non floating concrete masonry	2	Rb ₁₀₋	Rb _{NR}
Ra	Bituminous Materials	1	Ra ₁₋	Max Ra ₅₀
Rg	Glass	0	Rg ₂₋	Max Rg ₂₅
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

- 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 code A4 and P.

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