



TONKIN MATERIALS TESTING LIMITED

The Materials Laboratory
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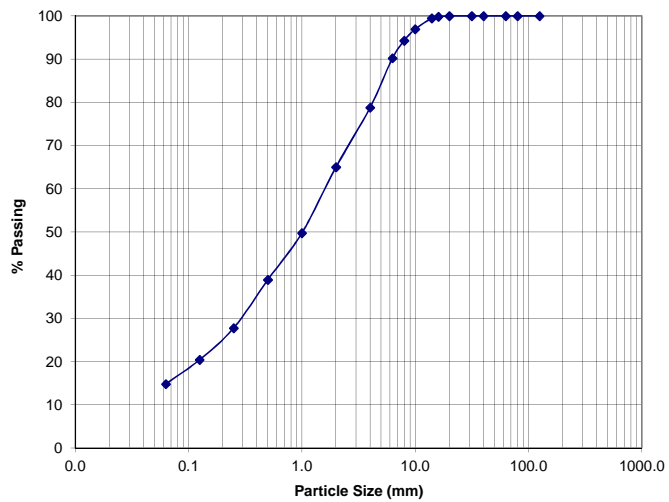
TEST CERTIFICATE

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/005 |
| Location: Stockpile designated: Fines | Sample No: 19/106/A/005 |
| Material: 0/10 All-in aggregate for pipe bedding, haunching and surrounding material | Date sampled: 10/10/2019 |
| Specification: SHW Series 500 Clause 503 Table 5/4 (Clause 4.3.3) All-in aggregate | Date received: 10/10/2019 |
| Aggregate Product Specification: BS EN 13242:2002+A1:2007 | Dates tested: 10/10/2019 |
| Aggregate category: Table 2 0/20 G_A80 GT_ANR Table 8 f_{15} | to 15/10/2019 |
| Supplier: Recycled by Client | Sampled by: Client |
| Source: Recycled - various unknown sources | Sample Cert: Not available |

| BS EN 933-2 Test sieve (mm) | Passing (%) | Specification |
|--------------------------------|-------------|---------------|
| 125 | 100 | |
| 80 | 100 | |
| 63 | 100 | |
| 40 | 100 | |
| 31,5 | 100 | |
| 20 | 100 | 100 - 100 |
| 16 | 100 | |
| 14 | 99 | 98 - 100 |
| 10 | 97 | 80 - 99 |
| 8 | 94 | |
| 6,3 | 90 | |
| 4 | 79 | |
| 2 | 65 | |
| 1 | 50 | |
| 0,5 | 39 | |
| 0,25 | 28 | |
| 0,125 | 20 | |
| 0,063 | 14.8 | 0 - 15 |

Particle Size Distribution Chart



Determination of water content by drying in a ventilated oven - BS EN 1097-5:2008 20.0

1. The sample tested complies with the above grading 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: 15 October 2019



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| Material: See Page 1 | Date sampled: 10/10/2019 |
| Specification: See Page 1 | Date received: 10/10/2019 |
| Aggregate Product Specification: BS EN 13242:2002+A1:2007 | Dates tested: 10/10/2019 |
| Aggregate category: Table 2 0/20 G _A 80 G _T A _{NR} Table 8 f ₁₅ | to 15/10/2019 |
| Supplier: Recycled by Client | Sampled by: Client |
| Source: Recycled - various unknown sources | Sample Cert: Not available |

| Drying temperature (°C) | | 105 | | |
|---|---|--------------------|-------------------|---------------------|
| Dry mass of sample (g) | | 1481 | | |
| Corrected mass of test portion (after material > 63mm and < 4mm removed) (g): | | 314 | | |
| Class | Material | Percentage present | Category (*) | Specification |
| Rc | Concrete, concrete products, mortar, concrete masonry units | 64 | Rc ₅₀ | Rc _{NR} |
| Rc + Ru + Rg | Rc + Ru (Unbound Aggregate, natural stone, hydraulically bound mixtures) + Rg | 85 | Rcu ₇₀ | Rcu _{NR} |
| Ru | Unbound Aggregate, natural stone, hydraulically bound mixtures | 21 | Not defined | Rcu _{NR} |
| Rb | Clay masonry units, calcium silicate masonry units, aerated non floating concrete masonry | 8 | Rb ₁₀₋ | Rb _{NR} |
| Ra | Bituminous Materials | 6 | Ra ₁₀₋ | 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: | Timber |
|---|--------|

- 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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