

# WAS-G-DEF-05

End-of-Waste for Recycled Aggregates

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## Introduction

This guidance provides advice on the end-of-waste criteria for recycled aggregates produced from waste.

## End-of-Waste Criteria

When sold and dispatched from the site to the end-user for a certain use, aggregates meeting the following criteria will cease to be waste:

* Aggregates are produced from waste types listed in Annex 1 only.
* Aggregates are produced under Factory Production Control as required by the relevant standards and specifications for aggregate manufacture.
* Aggregates confirm to the requirements of the relevant specification in Annex 2.
* Aggregates require no further processing, including size reduction, prior to use.

## Waste Acceptance Criteria

Only the waste types listed in Annex 1 can be used to manufacture recycled aggregate.

The producer must develop ‘waste acceptance criteria’ to ensure that only the waste types in Annex 1 are accepted for processing, and in line with the Registration or Permit conditions.

## Standards and Specifications

The producer must comply with all the requirements of the standards and specifications appropriate for the aggregate use.

Producers must set up and produce the aggregate under a system for factory production control as set out in the relevant standard and specification. The requirements for evaluation of conformity from the relevant standard and specification apply in all cases.

Annex 2 details the main standards and specifications relating to aggregates.

For the avoidance of doubt, SEPA expects finished recycled aggregates to contain less than 1% w/w of cohesive materials (e.g. clay and soil), metals, wood, plastic, rubber and gypsum plaster, in line with the limits set within the aggregate standards.

Where SEPA becomes aware of aggregate with contamination greater than 1% being used without the appropriate authorisation, we may take enforcement action. Further, deliberately mixing aggregate with contamination such as metal, wood, plastic, gypsum or trommel fines from mixed waste up to the 1% w/w limit is considered disposal and would not be authorised.

## Milled asphalt planings

Asphalt road planings (no coal tar) which are milled as part of the removal process will generally comply with the relevant specifications as it is produced. In such cases, milled asphalt road planings can be supplied directly from the place of production for a certain use, for example it can be:

* used in-situ in the production of a new road surface at the same site.
* supplied to farms and estates for road or hardstanding construction or repair.
* supplied to third party roadstone coating plants for use in asphalt production.

## Record Keeping

Producers must retain records of all testing and of each sale of aggregate. This should include the following:

* date of supply;
* customer’s name, contact details and nature of business;
* quantity supplied by weight/volume;
* the specification with which the aggregate complies;
* a statement that the aggregate was produced in compliance with this guidance.

## Loss of product status

Aggregates meeting these end-of-waste criteria will become waste again if at any stage:

* it is discarded, or the holder intends to or is required to discard it
* it is stored indefinitely with little prospect of being used

This applies to anyone holding stores of aggregate, not just producers.

## Annex 1 – Wastes acceptable to produce recycled aggregate

| **EWC Code** | **Description** |
| --- | --- |
| 01 04 08 | Waste gravel and crushed rock other than those mentioned in 01 04 07 |
| 01 04 09 | Waste sand and clays  |
| 15 01 07 | Glass packaging |
| 02 02 02 | Shellfish shells form which the soft tissue or flesh has been removed |
| 10 11 12 | Clean glass other than those mentioned in 10 11 11  |
| 10 12 08 | Ceramics, bricks, tiles and construction products |
| 10 13 14 | Concrete |
| 15 01 07 | Clean glass packaging |
| 17 01 01 | Concrete – except concrete slurry |
| 17 01 02 | Bricks |
| 17 01 03 | Tiles and ceramics |
| 17 01 07 | Mixtures of bricks, tiles, and ceramics other than those in 17 01 06 |
| 17 02 02 | Clean glass |
| 17 03 02 | Bituminous mixtures other than those mentioned in 17 03 01 (no coal tar) |
| 17 05 04 | Soil and stones other than those mentioned in 17 05 03 |
| 17 05 08 | Track ballast other than those mentioned in 17 05 07 |
| 19 08 02 | Washed sewage grit (waste from desanding) free from sewage contamination |
| 19 08 99 | Stone filter media free from sewage contamination |
| 19 12 05 | Clean glass |
| 19 02 09 | Minerals (e.g. sand, stones)  |
| 20 01 02 | Clean glass |
| 20 02 02 | Soil and stones |

## Annex 2 – Standards and Specifications

| **Product**  | **Standard** | **Specification** |
| --- | --- | --- |
| Unbound recycled aggregate: Pipe bedding Drainage | BS EN 13242: Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction | [Specification for Highway Works: Series 500](https://www.standardsforhighways.co.uk/search/d979f80c-d69b-4a50-896f-50d7c27dcdc7) |
| Unbound recycled aggregate: Granular fill General fill Capping (e.g. 6F5) | BS EN 13242: Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction | [Specification for Highway Works: Series 600](https://www.standardsforhighways.co.uk/search/471049cb-7dd8-452a-81e6-fc8af7d31b91)BS EN 13285: Unbound mixtures: Specifications |
| Unbound recycled aggregate: subbase (e.g. Type 1) | BS EN 13242: Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction | [Specification for Highway Works: Series 800](https://www.standardsforhighways.co.uk/search/c7f58300-b868-43ae-819a-7b600e764000)BS EN 13285: Unbound mixtures: Specifications |
| Recycled aggregate for concrete (e.g. washed sand) | BS EN 12620: Aggregates for concrete | [Specification for Highway Works: Series 1000](https://www.standardsforhighways.co.uk/search/ec575049-e7c8-48d1-a507-e65906706a16) BS 8500-2: Concrete |
| Recycled aggregate for asphalt | BS EN 13043: Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas | [Specification for Highway Works: Series 900](https://www.standardsforhighways.co.uk/search/ec575049-e7c8-48d1-a507-e65906706a16) |
| Recycled aggregate for hydraulically bound mixtures | BS EN 13242: Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road | [Specification for Highway Works: Series 800](https://www.standardsforhighways.co.uk/search/ec575049-e7c8-48d1-a507-e65906706a16) BS EN 14227-1 to 5 Hydraulically Bound Mixtures: Specifications |
| Reclaimed asphalt for use in bituminous mixtures | BS EN 13108-8 Bituminous mixtures Material specifications Part 8: Reclaim | [Specification for Highway Works: Series 900](https://www.standardsforhighways.co.uk/search/c7c905c3-bfac-4ad5-8f7d-8891ab7ca4b4)BS EN 13108 -1 to 5 Bituminous Mixtures – Material Specifications |

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