

AS 1141.3.2:2021



Methods for sampling and testing aggregates — Sampling

Method 3.2: Rock spalls and boulders



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- ARRB (Australian Road Research Board)
- Ash Development Association of Australia
- Australasian (Iron & Steel) Slag Association
- Australasian Procurement and Construction Council
- Australian Flexible Pavement Association
- Australian Geomechanics Society
- Austrroads
- Cement Concrete & Aggregates Australia — Aggregates
- Cement Concrete & Aggregates Australia — Cement
- Cement Concrete & Aggregates Australia — Concrete
- National Association of Testing Authorities Australia
- University of Technology Sydney

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Preface

This Standard was prepared by the Standards Australia Committee CE-012, Aggregates and Rock for Engineering Purposes, to supersede AS 1141.3.2:2012.

The objective of this document is to define procedures for collection of samples or rock pieces from operating quarries or from site investigations where potential sources exceed 75 mm nominal size. These procedures address common situations faced by the sampler when obtaining samples in the field.

The major changes in this edition are as follows:

- (a) Addition of this Preface.
- (b) Additional terms and definitions, see [Clause 3](#).
- (c) Inclusion of information on the effect of laboratory crushing material before testing, see [Clause 4.4](#).

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NOTES

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1 Scope

This document specifies requirements and methods for taking samples of aggregate that are larger than 75 mm nominal size. This includes gabion rock spalls, boulders and spalls taken for quarry assessment, and preparation of reference specimens. This document includes requirements for packing and forwarding samples for examination and testing.

Most materials sampled in accordance with this document require to be reduced in size by laboratory crushing into suitable aggregate sizes for testing.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

NOTE Documents referenced for informative purposes are listed in the Bibliography.

AS 1141.1, *Methods for sampling and testing aggregates, Part 1: Definitions*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in AS 1141.1 and the following apply.

3.1

body of material

material source from which a representative sample is to be obtained

Note 1 to entry: The body of material includes, but is not restricted to, tockpiles, rock piles, banks, rills, rock faces or outcrop.

3.2

competent person

person suitably trained, qualified and experienced in geological and engineering geological principles as applied to rock identification and the use of rock products in engineering applications

3.3

lot

discrete and defined quantity of material produced by a consistent process

Note 1 to entry: The lot is the fundamental division of a body of aggregate for which material properties are determined. A lot consists of a homogeneous product and may be further defined by the length of the production run or by mass.

3.4

may

indicates the existence of an option

3.5

sampling scheme

set of documented instructions that, as a minimum, establishes the following for each sample:

- (a) Material to be sampled and the size of sample required.
- (b) Purpose for obtaining the sample.