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STANDARDS ASSOCIATION OF AUSTRALIA
Australian Standard
METHODS FOR SAMPLING AND TESTING AGGREGATES

AS 1141.3
SAMPLING OF AGGREGATES AND ROCK

1 SCOPE. This standard defines principles and specifies methods for taking samples of aggregates and sands, spalls, drill core, gabion rock spalls and boulders packing and forwarding them for examination and testing.

2 REFERENCED DOCUMENTS. The following standards are referred to in this standard:

- AS 1141 Methods for Sampling and Testing Aggregates
- 1141, Sect.2 Testing Equipment*
 - 1141, Sect.4 Unit Mass*
 - 1141, Sect.5 Bulk Density and Water Absorption of Fine Aggregate*
 - 1141, Sect.6 Bulk Density and Water Absorption of Coarse Aggregate*
 - 1141.11 Particle Size Distribution by Dry Sieving
 - 1141, Sect.12 Material Finer than 75 μm in Aggregate (by washing)
 - 1141, Sect.14 Particle Shape, by Proportional Calliper
 - 1141.22 Wet/dry Strength Variation

AS 1152 Test Sieves

3 DEFINITIONS. For the purpose of this standard, the following definitions apply:

3.1 Boulder—a rounded or sub-angular stone or piece of rock, usually larger than 200 mm diameter.

NOTE: In ISO standards, the size of boulders is larger than 256 mm diameter.

3.2 Bulk sample—for aggregates and sands, a set of at least five sample-increments, mixed thoroughly until uniform throughout.

NOTE: A bulk sample may also be as specified in a particular clause.

3.3 Gabion rock—a rock generally in the range of nominal sizes from 100 mm to 300 mm.

3.4 Nominal size—a designation of an aggregate which gives an indication of the largest size particle present.

NOTE: The concept of nominal size aggregate is for convenience of reference and of ordering. The nominal size is expressed as a whole number above the sieve size through which nearly all of the aggregate passes.

3.5 Sample—the material to be forwarded for examination and/or testing, and derived from each bulk sample by sample division (see Clause 6.1.4).

3.6 Sample-increment—for aggregates and sands, the amount of the material taken directly from the conveyor, bin, truck or section of a stockpile (see Table 1).

NOTE: A sample-increment may also be as specified in the particular clause.

3.7 Section—one part of the main body of material, the main body being regarded as divided into sections of about equal volume.

3.8 Stockpile—a heap or stack of material held in stock for future use.

3.9 Test portion—the material derived from a sample by further division and used for a particular test.

4 APPARATUS. The following apparatus is required. It shall comply with the relevant requirements of AS 1141, Sect. 2, appropriate to the material being sampled.

- (a) Balances and masses.
- (b) Sample divider (riffle splitter).

* In course of revision and to be retitled as follows, as appropriate:

- (a) AS 1141.2 Basic Testing Equipment
- (b) AS 1141.4 Bulk Density
- (c) AS 1141.5 Particle Density and Water Absorption of Fine Aggregate
- (d) AS 1141.6 Particle Density and Water Absorption of Coarse Aggregate.