

STANDARDS AUSTRALIA

Amendment No. 1
to
AS 1141.2:2015
Methods for sampling and testing aggregates
Method 2: Basic testing equipment

REVISED TEXT

The 2015 edition of AS 1141.2 is amended as follows; the amendment(s) should be inserted in the appropriate place(s).

SUMMARY: This Amendment applies to the Preface and Clauses 2 and 5.3.

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AMDT
No. 1
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Preface (new)

Add the following Preface before Clause 1:

PREFACE

To provide general information on the requirements of standard pieces of equipment used throughout the AS 1141 series for the testing of aggregate and rock for engineering purposes.

The purpose of Amendment 1:2018 is to shift conformance requirements for test sieves in AS 1141 series test methods from withdrawn Standard AS 1152, *Specification for test sieves*, to ISO 3310-1, *Test sieves — Technical requirements and testing*, Part 1: *Test sieves with metal wire cloth*, and ISO 3310-2, *Test sieves — Technical requirements and testing*, Part 2: *Test sieves of perforated metal plate*. This will be achieved by amending AS 1141 series test methods to refer to this Standard (Part 2) rather than AS 1152. Amendment 1:2018 makes reference to the ISO standards. The aperture provisions of this Standard have not altered from those required in AS 1152. Provisions relating to continuing calibrations and other matters explicit AS 1152 have been added as requirements.

Clause 2

- 1 *Delete* AS 1152 from the list of referenced documents.
- 2 *Add* the following ISO Standards to the list of referenced documents.

ISO

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| 3310 | Test sieves — Technical requirements and testing |
| 3310-1 | Part 1: Test sieves of metal wire cloth |
| 3310-2 | Part 2: Test sieves of perforated metal plate |
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AMDT
No. 1
DEC
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No. 1
DEC
2018

Clause 5.3

Delete the clause text and *replace* with the following:

Test sieves of woven wire cloth shall conform to the requirements of ISO 3310, Part 1. Test sieves of perforated plate shall conform to the requirements of ISO 3310, Part 2. All sieves shall conform with the following as relevant:

- (a) Woven wire sieves shall only be used in nominal aperture sizes between 16 mm and 75 µm inclusive.
- (b) All woven wire sieves shall be of simple weave. Twilled weave sieves shall not be used for tests in the AS 1141 series.
- (c) Perforated metal plate sieves may be used for all nominal apertures greater than 4.0 mm.
- (d) Perforated plate sieves shall have square apertures. Round aperture perforated plate sieves shall not be used.
- (e) All woven wire sieves of diameter 300 mm or 450 mm (these are not standard in ISO 3310-1) shall be manufactured of sufficient height to retain the full load of particles expected to be used on the sieve without loss of material during the sieving operation.
- (f) All woven wire sieves of diameter 300 mm or 450 mm and with a mesh of 600 µm or finer shall have a support mesh (known as a spider) of coarser aperture below the sieving media, strong enough to prevent distortion of the sieving media when fully loaded with the test material.
- (g) The results of test sample(s) tested on working sieves or sieve sets shall be compared against the same sample(s) tested on calibrated sieves or sieve sets retained and used only for the purpose of checking (known as master sieves). The frequency of this testing, checking for the continued compliance of the sieves or sieve sets, shall be dependent on the amount of use of the working sieves. The basis of rejection or continued use of the sieves shall be to ensure reasonable concurrence between the results.

NOTE: Criteria to determine concurrence and the frequency of checking should be decided by the users of the sieves usually in discussion with relevant authorities.

- (h) All sieves used in AS 1141 methods shall be calibrated in accordance with ISO 3310-1 or ISO 3310-2 and the users of the sieves shall retain original calibration documents and records of all checking of working sieves against master sieves.
 - (i) Sieves shall be discarded when damage to the sieve frame or the seal between sieves in a nested set could lead to loss of sample.
 - (j) Sieves shall be discarded when there is any visible damage to the woven wire mesh or the edges of the perforated plate apertures.
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