



Aggregates and rock for engineering purposes

Part 4: Aggregate for gabion baskets and wire mattresses



This Australian Standard® was prepared by Committee CE-012, Aggregates and Rock for Engineering Purposes. It was approved on behalf of the Council of Standards Australia on 19 January 2017.

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The following are represented on Committee CE-012:

- ARRB Group (Australian Road Research Board)
 - Australasian (iron & steel) Slag Association
 - Australasian Procurement and Construction Council
 - Australian Asphalt Pavement Association
 - Australian Geomechanics Society
 - Austroads
 - Cement Concrete and Aggregates Australia—Aggregates
 - Cement Concrete and Aggregates Australia—Cement
 - Cement Concrete and Aggregates Australia—Concrete
 - Engineering and Construction Laboratories Association
 - National Association of Testing Authorities Australia
 - Rail Industry Safety and Standards Board
 - The Institute of Quarrying Australia
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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Australian Standard®

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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 2758.4—2000.

This Standard is part of a series which covers specification of aggregates and rock. The other Parts are as follows:

- Part 0: Definitions and classification
- Part 1: Concrete aggregates
- Part 2: Aggregate for sprayed bituminous surfacing
- Part 5: Coarse asphalt aggregates
- Part 6: Guidelines for the specification of armourstone
- Part 7: Railway ballast

Part 3 of the series was never developed or published.

The objective of this Standard is to provide users and specifiers of aggregate with a basis for specifying requirements for aggregates intended for use in gabion wire baskets and wire mattresses.

This Standard covers regional differences in environment, materials and practice and provision has been made to allow, in the works specification, for changes to some limits and procedures. There are materials, particularly softer rocks, that do not comply with this Standard but have proven to be satisfactory in some service conditions. Such materials should be supplied under a works specification only, without reference to this Standard.

This revision of AS 2758.4 has introduced the following changes to the 2000 edition:

- (a) Changes to the application clause to ensure that the document conforms to the requirements of a 'product specification' as defined by SG-006, *Rules for the structure and drafting of Australian Standards*.
- (b) Removal of Appendix A and Appendix B of the 2000 edition as these topics are now covered in AS 2758.0.

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STANDARDS AUSTRALIA

Australian Standard

Aggregates and rock for engineering purposes

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1 SCOPE

This Standard provides a basis for specifying requirements for aggregates intended for use in gabion baskets and wire mattresses. The requirements relate to quality of rock and other properties of coarse aggregate. A coarse aggregate may be produced from rock, gravel, metallurgical slag, recycled material or suitable synthetic materials.

2 APPLICATION

This Standard is intended to be used in combination with a works specification for contract purposes. While a number of the basic requirements are not negotiable, the specifier may select from the options available in this Standard, or use alternative test methods and limits (which may be from Australian Standards or other appropriate Standards) for incorporation into the works specification.

The basic requirements for all aggregates intended for gabion basket or wire mattress fill are prescribed in Clauses 7 to 9. Alternatives are presented for the assessment of durability in Clause 8. However, not more than one of these alternatives should be specified for routine supply from a known aggregate source.

The selection of test procedures and test limits, where alternatives are provided, and the frequency at which individual tests are required, is a subject of the individual supply agreement.

The works specification should specify all the tests appropriate to the source rock or the tender samples, or both, but the whole range of tests is not necessarily applied to control acceptance of the product during the performance of a contract.

For contractual purposes it is the works specification that is binding. However, the case may arise where a contract document uses phrases such as ‘material complying with AS 2758.4’ without providing a supply agreement. In this event, the supplier needs to obtain further details from the purchaser. In the continued absence of a supply agreement, material will be deemed to comply with this Standard if the supplier can show that the material to be supplied—

- (a) fulfils the requirements for the aggregate as specified in Clauses 7 and 9; and
- (b) complies with one of the durability requirements included in Clause 8.

3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1141	Methods for sampling and testing aggregates
1141.3.2	Method 3.2: Sampling—Rocks spalls and boulders
1141.22	Method 22: Wet/dry strength variation
1141.23	Method 23: Los Angeles value
1141.30	Method 30: Coarse aggregate quality by visual comparison