

Australian/New Zealand Standard™

**Masonry units, pavers, flags and
segmental retaining wall units**

Part 1: Masonry units



AS/NZS 4455.1:2008

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee BD-026, Masonry Units, Pavers, Flags and Segmental Retaining Wall Units. It was approved on behalf of the Council of Standards Australia on 21 May 2008 and on behalf of the Council of Standards New Zealand on 18 June 2008. This Standard was published on 30 June 2008.

The following are represented on Committee BD-026:

Association of Consulting Engineers Australia
Australian Institute of Building Surveyors
CSIRO, Manufacturing and Materials Technology
Clay Brick and Paver Institute
Concrete Masonry Association of Australia
Engineering and Consultation Laboratories Association
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee BD-026, Masonry Units, Pavers, Flags and Segmental Retaining Wall Units, to supersede, in part, AS/NZS 4455:1997, *Masonry units and segmental pavers*.

The objective of this Standard is to provide users and specifiers with a specification for all masonry units, except unfired earth units, to facilitate design and purchasing.

This Standard addresses—

- (a) the essential properties common to all units covered by the scope of the Standard;
- (b) more stringent requirements that might need to be complied with, such as strength, precision, colour and texture, that would best be specified by the prospective purchaser as needed; and
- (c) test methods consistent with Items (a) and (b).

This Standard is intended to provide the minimum requirements for masonry units covered by the scope. More stringent requirements may be imposed as contractual requirements.

Statements expressed in mandatory terms in notes to tables and figures are deemed to be requirements of this Standard.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for masonry units for walling built in accordance with AS 3700 and NZS 4230.

The masonry units covered by this Standard include those made of the following materials:

- (a) Autoclaved aerated concrete.
- (b) Calcium silicate (sand-lime).
- (c) Concrete (dense or lightweight).
- (d) Dimension stone (cut or dressed).
- (e) Fired clay (with or without shale).

Dimension stone has a wide variety of characteristics. These are not fully covered by the requirements of this Standard.

Tiles, or similar, that are intended to be rigidly fixed or suspended are not within the scope of this Standard.

This Standard does not specify requirements for masonry units other than requirements for the verification of their nominated characteristic values.

NOTES:

- 1 Guidance on means for demonstrating compliance with this Standard is given in Appendix B.
- 2 Guidance on the determination of characteristic value is given in Appendix C.
- 3 Guidance on the content of a purchasing agreement is given in Appendix D.
- 4 Guidance on optional testing is given in Appendix E.
- 5 Some non-rectilinear shapes for walling units are not illustrated in this Standard; however, this Standard may be used, but not all test methods mentioned may be applicable to such shapes.

1.2 APPLICATION

Testing to Section 2, which references AS/NZS 4456.3, AS/NZS 4456.4 and AS/NZS 4456.10 is required for compliance with the Standard.