

Australian/New Zealand Standard™

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

Part 2: Pavers and flags



AS/NZS 4455.2:2010

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 10 June 2010 and on behalf of the Council of Standards New Zealand on 13 August 2010.

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The following are represented on Committee BD-026:

Association of Consulting Structural Engineers of NSW
Australian Institute of Building Surveyors
CSIRO, Manufacturing and Infrastructure Technology
Concrete Masonry Association of Australia
Engineering and Construction Laboratories Association
Institute of Public Works Engineering Australia
National Association of Testing Authorities Australia
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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 specify the requirements for pavers and flags in order to facilitate design and purchasing of segmental pavements and other applications.

This revision addresses—

- (a) the need for a basic Standard that specifies 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 and precision) which would best be specified by the prospective purchaser as needed; and
- (c) test methods consistent with Items (a) and (b).

Statements expressed in mandatory terms in notes to tables 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 minimum requirements for pavers and flags for use in pavements carrying road traffic and pedestrians only.

The pavers and flags covered by this Standard include those made of concrete and fired clay (with or without shale).

NOTES:

- 1 For New Zealand pavements, the design of segmental pavements is set out in NZS 3116.
- 2 Means for demonstrating compliance with the requirements for strength are given in Appendix A.
- 3 Guidance on means for demonstrating compliance with this Standard is given in Appendix B.
- 4 Guidance on determination of characteristic value is given in Appendix C.
- 5 Purchasing guidelines are given in Appendix D.
- 6 Guidance on optional additional testing is given in Appendix E.
- 7 There are non-rectilinear shapes for paving that are not illustrated in this Standard. Nevertheless, these are covered by this Standard with the provision that not all test methods mentioned may be applicable to such shapes.

1.2 APPLICATION

This Standard shall be used in conjunction with the testing requirements specified in AS/NZS 4456.3, AS/NZS 4456.5, AS/NZS 4456.9 and AS/NZS 4456.10.

1.3 NORMATIVE REFERENCES

The following are the normative documents referenced in this Standard:

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

AS

3942 Quality control—Variables charts—Guide

AS/NZS

4456 Masonry units, segmental pavers and flags—Methods of test
 4456.1 Method 1: Sampling for test
 4456.2 Method 2: Assessment of mean and standard deviation
 4456.3 Method 3: Determining dimensions
 4456.5 Method 5: Determining the breaking load of segmental pavers and flags
 4456.9 Method 9: Determining abrasion resistance
 4456.10 Method 10: Determining resistance to salt attack
 4456.19 Method 19: Determination of bow