

AS/NZS 4456.11:2003(Reconfirmed)2023-10-03

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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**RECONFIRMATION**

**OF**

**AS/NZS 4456.11:2003**

**Masonry units, segmental pavers and flags—Methods of test  
Method 11: Determining coefficients of expansion**

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**RECONFIRMATION NOTICE**

Major stakeholders of this publication have reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 23 August 2023.

Approved for reconfirmation in New Zealand on behalf of the New Zealand Standards Approval Board on 01 November 2022.

## Australian/New Zealand Standard™

**Masonry units, segmental pavers and flags—  
Methods of test****Method 11: Determining coefficients of  
expansion**

*This Standard incorporates Amendment No. 1 (August 2004). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.*

**1 SCOPE**

This Standard sets out the methods for determining the coefficients of expansion of masonry units, segmental pavers and flags. The coefficients of expansion estimated by these tests represent the total 15 year expansion of either kiln-fresh or non-kiln-fresh fired clay units. Provision is also included for the estimation of past expansion and of residual expansion to 15 years, of units of any age.

**2 REFERENCED DOCUMENTS**

The following document is referred to in this Standard:

## AS/NZS

4456	Masonry units, segmental pavers and flags—Methods of test
4456.0	Part 0: General introduction and list of methods
4456.1	Method 1: Sampling for testing
4456.2	Method 2: Assessment of mean and standard deviation

**3 DEFINITIONS**

For the purpose of this Standard, the definitions given in AS/NZS 4456.0 apply.

**4 NOTATION**

The following symbols are used in this Standard:

$L$	= overall length of unit, in millimetres
$Z_i$	= initial gauge reading of reference bar (average of two readings), in millimetres = $(Z_1 + Z_2)/2$
$Z_f$	= final gauge reading of reference bar (average of two readings), in millimetres = $(Z_3 + Z_4)/2$
$Y_i$	= initial gauge reading of unit before steaming or refiring, in millimetres
$Y_f$	= final gauge reading of unit after steaming or refiring, in millimetres
$dL$	= change in length of the specimen due to steaming or refiring, in millimetres
$dZ$	= differences between final and initial gauge reading ( $Z_i - Z_f$ ) of the reference bar, in millimetres
$\Delta L$	= percentage change in length of each unit due to steaming or refiring

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