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CALCIUM SILICATE BUILDING BRICKS



STANDARDS ASSOCIATION OF AUSTRALIA
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This Australian standard was prepared by Committee BD/22, Sand-lime Bricks. It was approved on behalf of the Council of the Standards Association of Australia on 16 August 1985 and published on 2 December 1985.

The following interests are represented on Committee BD/22:

Association of Consulting Engineers of Australia
Australian Institute of Building Surveyors
Australian Uniform Building Regulations Coordinating Council
Calcium Silicate Brick Manufacturers
CSIRO, Division of Building Research
Master Builders Federation of Australia
National Building Technology Centre
Royal Australian Institute of Architects

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CALCIUM SILICATE BUILDING BRICKS

AS 1653—1985

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PREFACE

This standard was prepared by the Association's Committee on Sand-lime Bricks to supersede AS 1653—1974, Calcium Silicate Bricks.

During the preparation of this standard, the committee kept in mind the need to ensure that it was technically compatible with other standards in the masonry group, particularly in view of the fact that the Association intends to prepare a single set of test methods for all masonry units.

This standard differs from the previous edition in the following respects:

- (a) *Larger units.* In recognition of the trend in recent years towards increasingly larger units, the standard now includes them. The terms 'unit' and 'masonry unit' are introduced as generic terms for both 'bricks' and 'blocks'. No agreement about the distinction between the latter has been achieved in the industry.
- (b) *Provision for hollow units.* Minimum face-shell and web thicknesses are included.
- (c) *Compressive strength.* This is now specified as the characteristic unconfined compressive strength.
- (d) *Additional test methods:*
 - (i) Potential to effloresce.
 - (ii) Lateral modulus of rupture.
 - (iii) Permeability to water.

No limits are given for these properties, but the test methods for the determination of these characteristics are given.

In preparing this standard, the committee took account of the practice of calling up Australian standards in building regulations. In such cases, the optional advisory and purchasing clauses not specific to the basic physical requirements of materials are not deemed to be acceptable in regulations. For this reason, advice on ordering, inspection and supply procedures and the liability of units to rejection have been presented as an appendix.

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