

Australian Standard™

**Dimensions and preferred sizes for
refractory bricks**

This Australian Standard was prepared by Committee MN-007, Refractories and Refractory Materials. It was approved on behalf of the Council of Standards Australia on 14 March 2003 and published on 25 March 2003.

The following are represented on Committee MN-007:

Australasian Ceramic Society
Australasian Institute of Mining and Metallurgy
Australian Aluminium Council
Bureau of Steel Manufacturers of Australia
CSIRO—Manufacturing and Infrastructure Technology
Institute of Refractories Engineers
Refractories Manufacturers Association of Australia

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Dimensions and preferred sizes for refractory bricks

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PREFACE

This Standard was prepared by Standards Australia Committee MN-007, Refractories and Refractory Materials to supersede AS 1618—1993.

It is emphasized that certain AQL values are assigned in this Standard to provide guidance on the quality of refractory bricks. Users are entitled to specify other AQL values appropriate to the end use of the brick, but any corresponding adjustments to the physical requirements must be in accordance with the quality specified for the particular brick.

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

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STANDARDS AUSTRALIA

Australian Standard
Dimensions and preferred sizes for refractory bricks

1 SCOPE

This Standard specifies a range of preferred nominal sizes for refractory bricks.

NOTE: Equations for arch calculation and radial brick selection are given in Appendix A.

Methods for determining the dimensions of refractory bricks are given in Appendix B.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1003 Engineers' straightedges (metric units)

2497 Procedures for acceptance testing of refractory products

2497.1 Part 1: Batch procedure

2780 Refractories and refractory materials—Glossary of terms

ISO

5022 Shaped refractory products—Sampling and acceptance testing

3 DEFINITIONS

For the purpose of this Standard, the definitions given in AS 2780 apply.

4 IDENTIFICATION MARKING

A code should be impressed on each brick, to indicate the basic dimensions and shape of brick, and amount of taper (if any), in accordance with the recommendations listed in Tables 1 to 3.

Example:

A rectangular brick measuring 230 mm × 115 mm × 75 mm would be coded '135'. A side arch tapered brick of the same size, having a 3 mm taper, would be coded '135 A1'.

NOTE: For circle bricks, the internal diameter is included in the code, after the dimension and shape designation (see Table 8).

5 PREFERRED SIZES

The preferred nominal sizes of refractory bricks are given in Tables 4 to 10.