

Australian Standard™

**Dimensions and preferred sizes for
refractory bricks**

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This Standard was issued in draft form for comment as DR 02475.

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**Dimensions and preferred sizes for
refractory bricks**

Formulated as part of AS R29—1965 and AS R30—1965.
Previous edition AS 1618—1993.
Third edition 2003.

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Published by Standards Australia International Ltd
GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 5143 1

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.