

BRITISH STANDARD 4729 : 1971

UDC 658.32 (083)

METRIC AND IMPERIAL UNITS

**SPECIFICATION FOR
SHAPES AND DIMENSIONS OF
SPECIAL BRICKS**

BRITISH STANDARDS INSTITUTION



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SPECIFICATION FOR SHAPES AND DIMENSIONS OF SPECIAL BRICKS

BS 4729 : 1971

Incorporating amendment issued January 1978 (AMD 2452)

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THIS BRITISH STANDARD, having been approved by the Building Industry Standards Committee, was published under the authority of the Executive Board on 31 March, 1971.

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SBN : 580 06389 5.

The Institution desires to call attention to the fact that this British Standard does not purport to include all the necessary provisions of a contract.

In order to keep abreast of progress in the industries concerned, British Standards are subject to periodical review. Suggestions for improvements will be recorded and in due course brought to the notice of the committees charged with the revision of the standards to which they refer.

A complete list of British Standards, numbering over 9,000, fully indexed and with a note of the contents of each, will be found in the BSI Catalogue which may be purchased from BSI Sales Department. The Catalogue may be consulted in many public libraries and similar institutions.

This standard makes reference to the following British Standards:

- BS 187. Calcium silicate (sandlime and flintlime) bricks.
Part 2. Metric units.
- BS 1180. Concrete bricks and fixing bricks.
- BS 3798. Coping units (of clayware, unreinforced cast concrete, unreinforced cast stone, natural stone and slate).
- BS 3921. Bricks and blocks of fired brickearth, clay or shale.
Part 2. Metric units.

British Standards are revised, when necessary, by the issue either of amendment slips or of revised editions. It is important that users of British Standards should ascertain that they are in possession of the latest amendments or editions.

The following BSI references relate to the work on this standard:
Committee Reference B/102/1 Draft for comment 68/4699

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CO-OPERATING ORGANIZATIONS

The sub-committee responsible for the preparation of these recommendations consists of representatives from the following Government departments and scientific and industrial organizations:

Brick Development Association
British Ceramic Research Association
Cement and Concrete Association
Clay Block Association
Clay Products Technical Bureau of Great Britain
Department of the Environment
Department of the Environment—Building
Research Station
Federation of Building Block Manufacturers
Greater London Council
Institution of Civil Engineers
Institution of Municipal Engineers
Institution of Structural Engineers
Modular Society
National Federation of Building Trades Employers
National Federation of Clay Industries
Pressed Brick Makers' Association
Royal Institute of British Architects
Sandlime Brick Manufacturers' Association
Welwyn Hall Research Association

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BRITISH STANDARD SPECIFICATION FOR SHAPES AND DIMENSIONS OF SPECIAL BRICKS

FOREWORD

This British Standard was prepared under the authority of the Building Divisional Council to meet the requirements of the industries concerned. The standard is for shapes and dimensions only, to provide a range from which the user can specify his requirements in any of the brick types. No dimensional tolerances or quality requirements are included in this standard, since these are dependent upon the type of material.

A questionnaire was circulated to industry to establish which of the existing range of special bricks were in considerable and frequent demand and, after analysis of the replies, the committee was able to reduce the variety of bricks of special shapes and sizes to a considerably smaller number than the range which has been in use. It was not found necessary to introduce into the standard any shapes or sizes new to the industry or, except in a few instances, to make alterations to existing shapes and sizes. The suggested sizes take into account the recommendations of BS 3798*. Although illustrated with frogs indicating pressed bricks, they can of course be made either by pressing or by any other process, with or without frogs. When no frogs are present alternative 'hands' may not be needed.

The dimensions of all bricks are given both in metric and imperial units. The metric dimensions are based on the standard brick format of 225 mm × 112.5 mm × 75 mm from which the work sizes for a standard brick are derived by deducting 5 mm all round (to give a 10 mm mortar joint) giving a work size of 215 mm × 102.5 mm × 65 mm for bricks of fired brickearth, clay or shale to BS 3921, Part 2†, and a work size of 215 mm × 103 mm × 65 mm for calcium silicate bricks to BS 187, Part 2‡, and concrete bricks to BS 1180§. In this standard, the width has been rounded off to 103 mm.

The imperial dimensions are related to the standard imperial brick dimensions of 8½ in × 4½ in × 2½ in. The committee realise that imperial sized bricks may be phased out and that work is proceeding for a dimensionally co-ordinated brick. In both cases an amendment or revision will be required.

Appendix A to this standard shows the relationship between the sizes of the special bricks and the brick format which includes an allowance for joints.

This standard replaces BS 3921, Part 1, which will now be withdrawn. BS 3921, Part 2†, does not contain any information on special bricks which is now covered by this standard.

* BS 3798, 'Coping units (of clayware, unreinforced cast concrete, unreinforced cast stone, natural stone and slate)'.

† BS 3921, 'Bricks and blocks of fired brickearth, clay or shale', Part 2, 'Metric units'.

‡ BS 187, 'Calcium silicate (sandlime and flintlime) bricks', Part 2, 'Metric units'.

§ BS 1180, 'Concrete bricks and fixing bricks'. (In course of revision with metric sizes).

SPECIFICATION

1. GENERAL

1.1 SCOPE

This British Standard specifies the shape and dimensions in metric and imperial units of special bricks likely to be required for brickwork construction. The dimensions of standard bricks and manufacturing requirements are covered by BS 187, Part 2*, BS 1180† and BS 3921, Part 2‡.

NOTE. Where possible right hand and left hand has been based on the brick being viewed frog up and indicated by R.H. and L.H.

1.2 INFORMATION TO BE SUPPLIED BY THE PURCHASER WHEN ORDERING TO THIS BRITISH STANDARD

The purchaser shall provide with his enquiry and order the following information:

- (1) Nature of material, quality and colour quoting appropriate British Standard where applicable.
- (2) Group designation.
- (3) Type and sub-type where relevant.
- (4) Type title.
- (5) Metric or imperial sizes.
- (6) Right or left hand where relevant.
- (7) Top or bottom where relevant.
- (8) For Group 6, whether single or double taper is required.

Example 2.3.3.2 (left hand) indicates a left handed single bullnose stop end with the following dimensions:

	A	B	C	D	R
Metric	215 mm	103 mm§	65 mm	25 mm	53 mm
Imperial	8 5/8 in	4 1/8 in	2 5/8 in	1 in	2 1/16 in

1.3 REQUIREMENTS

The standard shapes and dimensions of bricks shall be as given in Section 2 of this standard.

* BS 187, 'Calcium silicate (sandlime and flintlime) bricks', Part 2, 'Metric units.'

† BS 1180, 'Concrete bricks and fixing bricks'.

‡ BS 3921, 'Bricks and blocks of fired brickearth, clay or shale', Part 2, 'Metric units'.

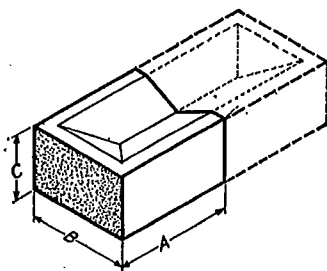
§ 103 mm for bricks to BS 187, 'Calcium silicate (sandlime and flintlime) bricks', Part 2, 'Metric units', and BS 1180, 'Concrete bricks and fixing bricks', when revised with metric sizes 102.5 mm for bricks to BS 3921, 'Bricks and blocks of fired brickearth, clay or shale', Part 2, 'Metric units'.

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2. STANDARD SHAPES AND DIMENSIONS

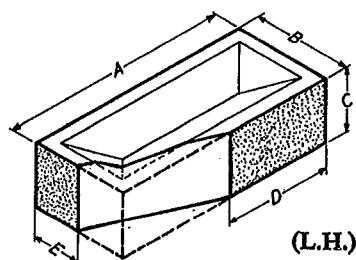
2.1 GROUP 1

2.1.1 Snapheader



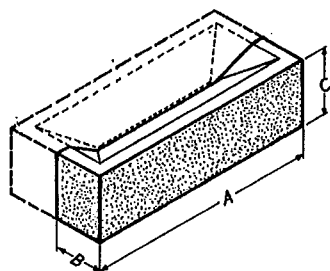
Type	A	B	C
2.1.1	mm 103	mm 103	mm 65
2.1.1	in 4 $\frac{1}{8}$	in 4 $\frac{1}{8}$	in 2 $\frac{5}{8}$

2.1.2 King closer (left and right hand)



Type	A	B	C	D	E
2.1.2	mm 215	mm 103	mm 65	mm 103	mm 46
2.1.2	in 8 $\frac{5}{8}$	in 4 $\frac{1}{8}$	in 2 $\frac{5}{8}$	in 4 $\frac{1}{8}$	in 1 $\frac{7}{8}$

2.1.3 Queen closer



Type	A	B	C
2.1.3	mm 215	mm 46	mm 65
2.1.3	in 8 $\frac{5}{8}$	in 1 $\frac{7}{8}$	in 2 $\frac{5}{8}$