

Precast concrete masonry units —

Part 2: Method for specifying precast concrete masonry units

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- Stone Federation

The organizations marked with an asterisk in the above list, together with the following, were directly represented on the Technical Committee entrusted with the preparation of this British Standard:

- Aggregate Concrete Block Association
- Association of Lightweight Aggregate Manufacturers
- British Ceramic Research Association
- British Concrete Masonry Association
- Chartered Institution of Building Services
- Concrete Brick Manufacturers Association
- Consumer Standards Advisory Committee of BSI
- Electricity Supply Industry in England and Wales
- Modular Society Limited

This British Standard, having been prepared under the direction of the Cement, Gypsum, Aggregates and Quarry Products Standards Committee, was published under the authority of the Executive Board and comes into effect on 31 July 1981

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Foreword

This British Standard has been prepared under the direction of the Cement, Gypsum, Aggregates and Quarry Products Standards Committee.

This Part of BS 6073 is a method for specifying precast concrete masonry units, intended to be read in conjunction with BS 6073-1, which is a specification for precast concrete masonry units.

When revising BS 2028, BS 1364:1968, the committee carried out a survey of block sizes in common use. It was found that no particular thicknesses predominated and hence there was no possibility of specifying a standard range. Furthermore, forthcoming changes in legislation relating to energy conservation made it probable that new sizes of blocks would be developed in the near future. Similarly, no one strength was in general use. It also became clear that similar minimum performance criteria were also applicable to concrete bricks so the opportunity was taken to extend this revision to replace BS 1180:1972.

The committee therefore decided to produce the revised standard in two Parts. Part 1 is a conventional specification giving the minimum levels of performance applicable to all concrete masonry units whilst this Part gives a method of specifying masonry units of different sizes and strengths and also masonry units having properties not covered by Part 1.

Appendix A lists the essential information which should be given to the manufacturer for an enquiry or order to be fully understood.

Appendix B describes a rapid method of checking compressive strengths of blocks which may be used by manufacturers for routine quality control.

Appendix C gives a method of measuring block density and concrete density, which may be used when checking conformity with recommendations of other British Standards, such as BS 5628-1.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 8, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope

This Part gives a method for specifying precast concrete masonry units complying with the requirements of BS 6073-1 and describes the compliance procedure for the special category of manufacturing control.

2 References

The titles of the standards publications referred to in this standard are listed on the inside back cover.

3 Definitions

For the purposes of this Part, the definitions given in BS 6073-1 apply.

4 General

The purchaser shall specify masonry units in accordance with clause 5, which gives basic requirements, and clause 6, which gives additional and optional requirements.

5 Basic requirements

5.1 General. The purchaser shall specify that the masonry unit is to comply with all the requirements of BS 6073-1 and shall further specify:

- a) the size required (see 5.2);
- b) compressive strength, where this is greater than the minimum compressive strength given in BS 6073-1, i.e. 2.8 N/mm^2 for blocks and 7.0 N/mm^2 for bricks (see 5.3).

5.2 Sizes. The purchaser shall specify the work size, that is the face dimensions and thickness of the masonry unit. Table 1 gives work sizes of blocks. Table 2 gives work sizes of bricks.

NOTE 1 To obtain the co-ordinating size of a masonry unit, add the nominal joint width, which is normally 10 mm, to the length and height of the unit given in Table 1 or Table 2. (The thickness remains unchanged.)

NOTE 2 Other work sizes are available and in use. No single manufacturer necessarily produces the complete range of work sizes shown.

Table 1 — Work sizes of blocks

Thickness mm		60	75	90	100	115	125	140	150	175	190	200	215	220	225	250
Length	Height															
mm	mm															
390	190	x	x	x	x	x		x	x		x	x				
440	140	x	x	x	x			x	x		x	x			x	
440	190	x	x	x	x			x	x		x		x	x		
440	215	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
440	290	x	x	x	x			x	x		x	x	x			
590	140		x	x	x			x	x		x	x	x			
590	190		x	x	x			x	x		x	x	x			
590	215		x	x	x		x	x	x	x		x	x		x	x