

Pavements constructed with clay, natural stone or concrete pavers —

**Part 2: Guide for the structural design
of lightly trafficked pavements
constructed of clay pavers or precast
concrete paving blocks**

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee B/507, Paving units and kerbs, upon which the following bodies were represented:

- Brick Development Association
- British Cement Association
- British Ceramic Research Ltd.
- British Precast Concrete Federation Ltd.
- Concrete Society
- County Surveyors' Society
- Department of the Environment, Transport and the Regions (Highways Agency)
- Institution of Civil Engineers
- Interlay (Association of Block Paving)
- Interpave (Concrete Block Paving Association)
- Landscape Institute
- Society of Chemical Industry
- Stone Federation
- Transport Research Laboratory

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Amendments issued since publication

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13217	June 2001	Correction of error in title

The following BSI references relate to the work on this standard:
Committee reference B/507

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Foreword

This part of BS 7533 has been prepared by Technical Committee B/507. It supersedes BS 6677-2:1986, which is withdrawn.

BS 7533 will be published in the following parts:

- *Part 1: Guide for the structural design of heavy duty pavements constructed of clay pavers or precast concrete paving blocks;*
- *Part 2: Guide for the structural design of lightly trafficked pavements constructed of clay pavers or precast concrete paving blocks;*
- *Part 3: Code of practice for laying precast concrete paving blocks and clay pavers for flexible pavements;*
- *Part 4: Code of practice for the construction of pavements of precast concrete flags or natural stone slabs;*
- *Part 5¹⁾: Guide for the design of pavements (other structural aspects);*
- *Part 6: Code of practice for laying natural stone, precast concrete and clay kerb units;*
- *Part 7¹⁾: Code of practice for the construction of pavements of natural stone setts;*
- *Part 8¹⁾: Guide for the structural design of lightly trafficked pavements of precast concrete flags and natural stone slabs;*
- *Part 9¹⁾: Code of practice for laying clay pavers.*

Annex A is informative.

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.

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¹⁾ In preparation.

1 Scope

This British Standard provides guidance on the design of lightly trafficked pavements surfaced with clay or concrete block pavers manufactured in accordance with BS 6677-1 or BS 6717-1 respectively and laid in accordance with BS 7533-3. It applies to all paved areas subjected to the usual road spectrum of axle loads up to 11 000 kg and trafficked by up to 0.5 million cumulative standard axles (msa), e.g. culs-de-sac, driveways, car parks, precincts, lightly trafficked roads and paved areas.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of this British Standard. For dated references, subsequent amendments to, or revisions of any of these publications do not apply. For undated references, the latest edition of the publication referred to applies.

BS 4987-1, *Coated macadam (asphalt concrete) for roads and other paved areas — Part 1: Specification for constituent materials and for mixtures*.

BS 6677-1, *Clay and calcium silicate pavers for flexible pavements — Part 1: Specification for pavers*.

BS 6717-1, *Precast concrete paving blocks — Part 1: Specification for paving blocks*.

BS 7533-1, *Pavements constructed with clay, natural stone or concrete pavers — Part 1: Guide for structural design of pavements constructed of clay or concrete block pavers*.

BS 7533-3, *Pavements constructed with clay, natural stone or concrete pavers — Part 3: Code of practice for laying precast concrete paving blocks and clay pavers for flexible pavements*.

3 Terms and definitions

For the purposes of this part of BS 7533 the following terms and definitions apply.

3.1

paver

either a clay paver or a concrete block paver

3.2

laying course

layer of material on which pavers are bedded

3.3

subgrade

upper part of the soil, natural or constructed, that supports the loads transmitted by the overlaying road structure (see Figure 1)

3.4

pavement

any paved area subject to pedestrian and/or vehicular traffic

3.5

sub-base

one or more layers of material placed immediately above the subgrade (see Figure 1)

3.6

roadbase

one or more layers of material placed above the sub-base that constitute the main structural element of a pavement

NOTE The roadbase can be a bituminous material and/or cement bound material.

3.7

cement bound material (CBM)

granular material to which cement has been added