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BS 7533-10:2010



BSI Standards Publication

Pavements constructed with clay, natural stone or concrete pavers –

Part 10: Guide for the structural design of trafficked pavements constructed of natural stone setts and bound construction with concrete paving blocks

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ISBN 978 0 580 67168 5

ICS 93.080.20

The following BSI references relate to the work on this standard:

Committee reference B/507

Draft for comment 09/30137917 DC

Publication history

First published March 2004

Second (present), edition April 2010

Amendments issued since publication

Date	Text affected
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This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 18, an inside back cover and a back cover.

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Publishing information

This part of BS 7533 is published by BSI and came into effect on 30 April 2010. It was prepared by Technical Committee B/507, *Paving units, kerbs, screeds and in-situ floorings*. A list of organizations represented on this committee can be obtained on request to its secretary.

Supersession

This part of BS 7533 supersedes BS 7533-10:2004, which is withdrawn.

Relationship with other publications

BS 7533 consists of 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 6: Code of practice for laying natural stone, precast concrete and clay kerb units;*
- *Part 7: Code of practice for the construction of pavements of natural stone paving units and cobbles, and rigid construction with concrete block paving;*
- *Part 8: Guide for the structural design of lightly trafficked pavements of precast concrete flags and natural stone flags;*
- *Part 9: Code of practice for the construction of rigid pavements of clay pavers;*
- *Part 10: Guide for the structural design of trafficked pavements constructed of natural stone setts and bound construction with concrete paving blocks;*
- *Part 11: Code of practice for the opening, maintenance and reinstatement of pavements of concrete, clay and natural stone;*
- *Part 12: Guide to the structural design of trafficked pavements constructed on a bound base using concrete paving flags and natural stone slabs;*
- *Part 13: Guide for the design of permeable pavements constructed with concrete paving blocks and flags, natural stone slabs and setts and clay pavers.*

Information about this document

This is a full revision of the standard, which has been updated to include guidance for the structural design of trafficked pavements constructed of concrete paving blocks in a bound surface course.

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The word "should" is used to express recommendations of this standard. The word "may" is used in the text to express permissibility, e.g. as an alternative to the primary recommendation of the Clause. The word "can" is used to express possibility, e.g. a consequence of an action or an event.

Notes and commentaries are provided throughout the text of this standard. Notes give references and additional information that are important but do not form part of the recommendations. Commentaries give background information.

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

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This part of BS 7533 provides guidance on the design of pavements surfaced with paving units of:

- a) natural stone setts manufactured in accordance with BS EN 1342 and laid in accordance with BS 7533-7; and
- b) concrete paving blocks conforming to BS EN 1338 and laid in a bound surface course in accordance with BS 7533-7.

It applies to all pavements including those subjected to commercial vehicular traffic, e.g. delivery vehicles.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS 6100-3, *Building and civil engineering - Vocabulary – Part 3: Civil engineering – General*

BS 7533-1, *Pavements constructed with clay, natural stone or concrete pavers – Part 1: Guide for the structural design of heavy duty pavements constructed of clay pavers or precast concrete paving blocks*

BS 7533-2, *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*

BS 7533-4:2006, *Pavements constructed with clay, natural stone or concrete pavers – Part 4: Code of practice for the construction of pavements of precast concrete flags or natural stone slabs*

BS 7533-7:2010, *Pavements constructed with clay, natural stone or concrete pavers – Part 7: Code of practice for the construction of pavements of natural stone paving units and cobbles, and rigid construction with concrete block paving*

BS EN 13108-1, *Bituminous mixtures – Material specifications – Part 1: Asphalt concrete*

BS EN 1342:2001, *Setts of natural stone for external paving – Requirements and test methods*

BS EN 13877-1, *Concrete pavements – Part 1: Materials*

[1] HIGHWAYS AGENCY. *Manual of Contract Documents for Highway Works, Volume 1: Specification for Highway Works*, London: The Stationery Office.

3 Terms and definitions

For the purposes of this part of BS 7533, the terms and definitions given in BS 6100-3 and the following apply.

3.1 base

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

[BS 7533-1:2001, definition 3.6]

NOTE 1 Figure 1 illustrates a typical cross-section of a pavement.