

Specification for wheeled sports facilities

ICS 97.220.10

This Publicly Available
Specification comes into effect
on 30 May 2002

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ISBN 0 580 39654 1

Amendments issued since publication

Amd. No.	Date	Comments

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Foreword

Wheeled sports facilities are being extensively provided throughout Europe.

This Publicly Available Specification (PAS) applies to facilities for unpowered skateboarding, in-line skating, roller skating and BMX riding, installed in unsupervised areas. Where supervision is available or where access is controlled different considerations apply. These facilities generally include manufactured items such as rails, ramps and pipes on which a wheeled device such as a skateboard or other roller sport equipment can be used.

The PAS specifies safety requirements to protect users and third parties from hazards that they may be unable to foresee when using the equipment as intended, or in a manner that can be reasonably anticipated. Requirements are specified for the equipment, and recommendations are given for site location, maintenance, and the management of ancillary items, all of which are necessary to create a safe, yet exciting facility.

The PAS does not apply to competition or commercially operated facilities, though many aspects covered by the document may be relevant to such facilities.

The specification includes requirements relating to materials, dimensions and construction of equipment, but specific designs are not given for ramps as these may vary with type of facility and use.

This specification has been prepared and published by BSI, which retains its ownership and copyright. BSI reserve the right to withdraw or amend this PAS on receipt of authoritative advice that it is appropriate to do so.

This specification is not to be regarded as a British Standard. It will be withdrawn upon publication of its contents in, or as, a British Standard.

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

Compliance with this PAS does not of itself confer immunity from legal obligations. Compliance with this PAS is the responsibility of the site designer, installer or site owner.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 14, an inside back cover and a back cover.

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1 Scope

This PAS specifies requirements for facilities for unpowered skateboarding, in-line skating, roller skating and BMX riding, installed in unsupervised areas. These facilities include manufactured items such as rails, ramps and pipes on which a wheeled device such as a skateboard or other roller sport equipment can be used.

It applies to ramps and general riding surfaces, and to fixed and movable streetcourse equipment.

It does not apply to competition facilities or to commercially operated facilities.

NOTE 1 Annex A, Annex B, Annex C and Annex D give guidance and recommendations concerning the location of the site, materials, ancillary items, and inspection and maintenance.

NOTE 2 Annex E, Annex F, Annex G and Annex H show examples of typical types of equipment referred to in this PAS.

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 2782-10:Method 1001:1977, *Methods of testing plastics — Part 10: Glass reinforced plastics — Method 1001: Measurement of hardness by means of a Barcol impressor.*

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

BS 4987-2, *Coated macadam (asphalt concrete) for roads and other paved areas — Part 2: Specification for transport, laying and compaction.*

BS 5328-2, *Concrete — Part 2: Methods for specifying concrete mixes.*

BS 5328-4, *Concrete — Part 4: Specification for the procedures to be used in sampling, testing and assessing compliance of concrete.*

BS 8110-1:1997, *Structural use of concrete — Part 1: Code of practice for design and construction.*

BS EN 335-2:1992, *Hazard classes of wood and wood-based products against biological attack — Part 2: Guide to the application of hazard classes to solid wood.*

BS EN 350-2:1994, *Durability of wood and wood-based products — Natural durability of solid wood — Part 2: Guide to natural durability and treatability of selected wood species of importance in Europe.*

BS EN 351-1:1996, *Durability of wood and wood-based products — Preservative-treated solid wood — Part 1: Classification of preservative penetration and retention.*

BS EN 636-3, *Plywood — Specifications — Part 3: Requirements for plywood for use in exterior conditions.*

BS EN 1176-1:1998, *Playground equipment — Part 1: General safety requirements and test methods.*

BS EN ISO 5470-1, *Rubber- or plastics-coated fabrics — Determination of abrasion resistance — Part 1: Taber abrader.*

3 Terms and definitions

For the purposes of this PAS, the following definitions apply.

3.1

facility

area dedicated to the use of unpowered skateboards, roller skates or similar roller-sport equipment, and BMX cycles, and which comprises a constructed riding surface including ramps and other structures

3.2

streetcourse equipment

items other than half-pipes which may be used for wheeled sports

3.3

competition facility

facilities which are only accessible to a limited circle of people for the duration of a competition under the supervision of the event organizer

3.4

commercially operated facility

facilities which are constantly supervised by the operator and are not freely accessible

3.5

transition

connection of curved profile between two levels of a riding surface

3.6

riding surface

surface on which wheels are intended to be used

3.7

flat

horizontal part of the riding surface usually between transitions

3.8

coping

circular tube or bar which is firmly attached to the top of a transition

3.9

structure

constructed feature forming a riding surface

3.10

ramp

structure incorporating one or more transitions and/or straight profiles

3.11

platform

flat surface at the top of a ramp

3.12

flat bank

structure incorporating one or more constant riding surfaces and a platform

3.13

jump ramp

ramp without a barrier, guardrail or platform

NOTE Jump ramps are sometimes known as “wedge ramps”.

3.14

spine ramp

ramp incorporating two opposite transitions forming a ridge

3.15

wall ramp

ramp leading to a vertical surface

3.16

quarter pipe

pipe consisting of a single transition surmounted by a platform

3.17

half-pipe

pipe consisting of two platforms separated by two opposite transitions and a lower flat section

3.18

free-fall height

perpendicular distance between one surface and a lower adjacent surface