PD ISO/TR 24666:2023



BSI Standards Publication

Sports and recreational facilities — Probes for entrapment/entanglement on playground equipment — Collection of data

bsi.

National foreword

This Published Document is the UK implementation of ISO/TR 24666:2023. It supersedes PD ISO/TR 24666:2022, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee SW/65, Children's playground equipment.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Published by BSI Standards Limited 2023

ISBN 978 0 539 26126 4

ICS 97.200.40

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This Published Document was published under the authority of the Standards Policy and Strategy Committee on 30 September 2023.

Amendments/corrigenda issued since publication

Date	Text affected

PD ISO/TR 24666:2023

TECHNICAL REPORT

ISO/TR 24666

Second edition
2023-09

Sports and recreational facilities — Probes for entrapment/entanglement on playground equipment — Collection of data

Installations sportives et récréatives — Gabarits d'évaluation du coincement/happement sur les équipements d'aires de jeux — Recueil de données

Reference number
ISO/TR 24666:2023(E)

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Published in Switzerland

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Foreword

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This document was prepared by Technical Committee ISO/TC 83, *Sports and other recreational facilities and equipment*.

This second edition cancels and replaces the first edition (ISO/TR 24666:2022), which has been technically revised.

The main changes are as follows:

— amendment of Table 1;

— amendment of Clause 6;

— amendment of Table A.5;

— amendment of Table B.2;

— amendment of Table C.2;

— amendment of Table F.1;

— amendment of Table G.3;

— inclusion of new Annex I;

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

This document summarizes information about different regional and national standards on playground safety in order to provide a reference point for different types of entrapments and probes/gauges.

Some standards apply to entrapment tests universally, regardless of the intended user age group, on the basis that it is very difficult to control users when products are installed in a free access environment. Other standards apply to specific entrapment probe tests related to specific intended user age groups. For cases where user age references are provided in the standard, see Annex A to Annex I.

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Sports and recreational facilities — Probes for entrapment/entanglement on playground equipment — Collection of data

1 Scope

This document compiles a collection of different probes/gauges for assessing common playground equipment safety performance to eliminate known safety hazards such as entrapment and entanglement hazards on playground, playspaces, and associated equipment used in different countries/regions around the world. It also explains some historical content of origins, the purpose and some rationales for the dimensions and shape of each of those probes.

These test probes and gauges, their dimensions and related historic rationale for their existence are applicable to playground equipment manufacturers, designers, installers, assemblers, owners, operators and inspectors alike and are necessary tools to the reduction of serious, life-threatening and debilitating injuries to the public playground intended users.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

ISO/TR 20183, *Sports and other recreational facilities and equipment — Injury and safety definitions and thresholds — Guidelines for their inclusion in standards*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/TR 20183 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

4 Rationale for anthropometrics and scoping of intended user groups in developing safety standards to reduce serious injury

4.1 ASTM F1487-21 (US) standard consumer safety performance specification for playground equipment for public use

4.1.1 Reference document for anthropometry

Reference document for anthropometry – Anthropometry of Infants, Children, and Youths to age 18 for Product Safety Design[12].

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