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BSI Standards Publication

Safety of amusement rides and amusement devices

Part 2: Operation and use

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National foreword

This British Standard is the UK implementation of ISO 17842-2:2022. It supersedes BS ISO 17842-2:2015, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee MCE/3/4, Fairground and amusement park machinery and structures - Safety.

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 2022

ISBN 978 0 539 06599 2

ICS 97.200.40

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 August 2022.

Amendments/corrigenda issued since publication

Date	Text affected
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Second edition
2022-04-05

Safety of amusement rides and amusement devices —

Part 2: Operation and use

*Sécurité des manèges et des dispositifs de divertissement —
Partie 2: Fonctionnement et utilisation*



Reference number
ISO 17842-2:2022(E)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 254, *Safety of amusement rides and amusement devices*.

This second edition cancels and replaces the first edition (ISO 17842-2:2015), which has been technically revised.

The main changes are as follows:

- references to ISO/TS 17929 have been removed;
- the list of terms in [Clause 3](#) has been updated;
- [4.2](#), Standard documentation has been updated;
- [4.3.3.3.1](#), General has been added;
- [4.3.4.1](#), General has been added;
- [4.3.4.4.3](#), Operating control equipment has been updated;
- [4.3.4.4.4](#), Control equipment operated by passengers has been updated;
- [4.3.5.2](#), Daily check and trial run has been updated;
- [4.3.6.1](#), During operating cycle has been updated;
- [4.3.8.3](#), Repairs has been updated;
- [4.3.8.4](#), Modification has been updated;
- [4.6.1.2](#), Inspection process and [4.6.2](#), Reports have been added;
- [Table A.1](#) was updated;

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- [Annex B](#) has been added;
- Bibliography was updated.

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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Safety of amusement rides and amusement devices —

Part 2: Operation and use

1 Scope

This document specifies the minimum requirements necessary to ensure the safe maintenance, operation, inspection and testing of amusement rides and amusement devices which are intended to be installed both repeatedly without degradation or loss of integrity, and temporarily or permanently in fairgrounds and amusement parks or any other locations, and is concerned with the installing, assembly and disassembly, operating, handling, maintaining, repairing, modifying and inspecting of amusement devices, and is addressed to controllers, operators, attendants and inspection bodies.

The following are not covered by this document (this list is not exhaustive):

- grandstands;
- construction site installations;
- scaffolding;
- removable agricultural structures;
- simple coin-operated children's amusement devices;
- carrying up to three children, and recreational devices like waterslides or summer toboggan runs;
- playground equipment;
- rope courses;
- climbing walls;
- inflatable trampolines and swimming pool equipment.

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 2307, *Fibre ropes — Determination of certain physical and mechanical properties*

ISO 9554, *Fibre ropes — General specifications*

ISO 7165, *Fire fighting — Portable fire extinguishers — Performance and construction*

ISO 13857, *Safety of machinery — Safety distances to prevent hazard zones being reached by upper and lower limbs*

ISO/IEC 17020, *Conformity assessment — Requirements for the operation of various types of bodies performing inspection*

ISO 17842-1, *Safety of amusement rides and amusement devices — Design and manufacture*