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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 20049-2025

Replacing GB/T 20049-2006

Ride identification number

游乐设施代号

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Table of Contents

Foreword

This document was drafted in accordance with the provisions of GB/T 1.1-2020 "Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents".

This document replaces GB/T 20049-2006 "Amusement devices code name".

Compared to GB/T 20049-2006, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- MODIFY the scope (see Clause 1 of this document, Clause 1 of the 2006 edition);

- DELETE "Amusement devices code name", "Code name descriptions" and "Code name examples" (see Clauses 2, 3 and 4 of the 2006 edition);

- ADD the terms and definitions (see Clause 3 of this document);

- ADD the content and composition of ride identification number (see Clause 4 of this document);

- ADD the marking location of ride identification number (see Clause 5 of this document);

- ADD the marking method and requirements for ride identification number (see Clause 6 of this document).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. The issuing authority of this document shall not be held responsible for identifying any or all such patent rights.

This document was proposed by and shall be under the jurisdiction of National Technical Committee on Ropeways and Amusement Rides of Standardization Administration of China (SAC/TC 250).

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1 Scope

This document specifies the content and composition, marking location, marking method and requirements for ride identification number.

This document applies to passenger-carrying amusement rides, including large-scale amusement rides, small-scale amusement rides, inflatable amusement rides and glass water slides.

2 Normative references

GB 8408

GB/T 20306

GB/T 28622

3 Terms and definitions

For the purpose of this document, the terms and definitions defined in GB 8408, GB/T 20306 and GB/T 28622, as well as the following, apply.

3.1 ride identification number; RIN

A code assigned by the amusement ride manufacturer to identify a particular amusement ride.

3.2 ride property code; RPC

The first part of the ride identification number (RIN), used to describe the general properties of the amusement ride.

3.3 ride feature code; RFC

The second part of the ride identification number (RIN), used to describes the structural and motion characteristics of the amusement ride.

3.4 manufacture identification number; MIN

The third part of the ride identification number (RIN), which is the unique manufacturer identifier of the amusement ride.

4.1 Basic composition of ride identification number

The ride identification number (RIN) consists of three parts. the ride property code (RPC), the ride feature code (RFC) and the manufacture identification number (MIN), as shown in Figure 1.

4.2 Ride property code (RPC)

The ride property code (RPC) is the first part of the ride identification number, consisting of two fields.

The first field indicates whether it is a special equipment, consisting of a single letter.

Those falling within the scope of special equipment supervision are indicated by T, while others are indicated by F.

The second field indicates the device's design acceleration zone, consisting of a single digit. The device's design acceleration zone is determined according to GB 8408.

Devices with design acceleration zones of Zone 1, Zone 2, Zone 3, Zone 4 and Zone 5 are indicated by 1, 2, 3, 4 and 5, respectively.

4.3 Ride feature code (RFC)

The ride feature code (RFC) is the second part of the ride identification number, consisting of three fields.

The first field indicates the primary motion form, consisting of a single letter. Slide is indicated by H, rotation is indicated by X, lift is indicated by S, combination is indicated by

Z, and others are indicated by Q.

The second field indicates the device type with structural and motion characteristics, consisting of two Arabic numerals. Table 1 lists the device category and type code.

The third field indicates the device's main parameter, consisting of letters and corresponding technical parameter values. Table 1 lists the main parameters corresponding to the device category and type code. Device height is indicated by S, in meters (m); number of passengers per cabin is indicated by X, in persons; dip angle is indicated by Q, in degrees (°); swing diameter is indicated by D, in meters (m); running height is indicated by H, in meters (m); number of passengers is indicated by N, in persons; running speed is indicated by V, in meters per second (m/s); orbit height is indicated by G, in meters (m); number of passengers per vehicle (train) is indicated by Y, in persons; slide length is indicated by L, in meters (m). Technical parameter values are integers or decimals with one decimal place. The third field does not apply to devices of type codes 46 to 52. .....