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Event structures - Safety requirements

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English Version

Event structures - Safety requirements

Structures événementielles - Exigences de sécurité

Event-Strukturen - Sicherheit

This European Standard was approved by CEN on 27 November 2023.

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European foreword

This document (EN 17879:2023) has been prepared by Technical Committee CEN/TC 152 "Fairground and amusement park machinery and structures – Safety", the secretariat of which is held by UNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2024, and conflicting national standards shall be withdrawn at the latest by June 2024.

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Introduction

The object of this document is to provide safety requirements for event structures. Examples of event structures covered by this standard are, but not limited to, stage roofs, stage walls, stage platforms, support structures for entertainment technology equipment, technical accommodations, raised platforms for public and bespoke structures. These safety requirements are aimed to safe-guard persons and objects against damage caused by design, manufacturing and operation of these structures.

These safety requirements have been drawn up according to past experience and risk analysis. Existing national rules concerning health and safety of workers remain untouched.

Attentions is drawn to the fact that in certain countries additional/different requirements may be applicable due to existing national regulations or equivalent.

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1 Scope

This document specifies the minimum requirements necessary to ensure the safe design, calculation, manufacture, assembly, operation, disassembly, inspection and maintenance of the following, but not limited to:

- structures e.g. stage roofs, stage floors, follow spot towers, PA towers,
- LED support structures,
- one-off event structures,
- hospitality structures,
- temporary spectator facilities.

The above hereafter called event structures are structures intended to be installed and dismantled specifically for an event.

This document does not cover:

- Spectator facilities EN 13200-series,
- Temporary structure Tents safety by EN 13782,
- Fairground and amusement park machinery and structures as per EN 13814 series,
- Temporary works equipment covered by CEN/TC 53,
- Inflatable play equipment-safety requirements and test methods as per EN 14960,
- Entertainment Technology as described by CEN TC 433.

NOTE This document is not applicable to event structures which are designed, manufactured, placed on the market or put in service before the date of publication of this document by CEN.

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.

EN 1090, (all parts) Execution of steel structures and aluminium structures

EN 1990:2023, Eurocode - Basis of structural and geotechnical design

EN 1991-1-3, Eurocode 1 - Actions on structures - Part 1-3: General actions - Snow loads

EN 1991-1-4, Eurocode 1: Actions on structures - Part 1-4: General actions - Wind actions

EN 1993-1-1:2022, Eurocode 3 - Design of steel structures - Part 1-1: General rules and rules for buildings

EN 1993-1-8, Eurocode 3: Design of steel structures - Part 1-8: Design of joints

EN 1995-1-1, Eurocode 5: Design of timber structures - Part 1-1: General - Common rules and rules for buildings

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EN 1997-1,¹ Eurocode 7: Geotechnical design – Part 1: General rules

EN 1999-1-1:2023, Eurocode 9 - Design of aluminium structures - Part 1-1: General rules

EN 13200-6, Spectator facilities - Part 6: Demountable stands

EN 13501-1, Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire test

EN 13782, Temporary structure - Tents - Safety

EN 15619, Rubber or plastic coated fabrics - Safety of temporary structures (tents) - Specification for coated fabrics intended for tents and related structures

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

¹ Under preparation. Stage at the time of publication prEN 1997-1.