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Entertainment technology - Specifications for design and manufacture of aluminium stage decks and frames



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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| Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 16.11.2022. | Date of Availability of the European standard is 16.11.2022. |
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English Version

Entertainment technology - Specifications for design and manufacture of aluminium stage decks and frames

Technologies du spectacle - Spécifications pour la conception et la fabrication de praticables de scène en aluminium

Veranstaltungstechnik - Anforderungen an die Bemessung und Herstellung von Podesten und Zargen aus Aluminium

This European Standard was approved by CEN on 12 September 2022.

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European foreword

This document (EN 17736:2022) has been prepared by Technical Committee CEN/TC 433 “Entertainment Technology - Machinery, equipment and installations”, the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by May 2023, and conflicting national standards shall be withdrawn at the latest by May 2023.

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

This is a type C standard as specified in EN ISO 12100.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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Introduction

The object of this document is to achieve a minimum level of quality in the design and manufacture of aluminium stage decks and frames in the entertainment industry.

Entertainment technology is an interdisciplinary field with specific technology and unique safety requirements. Entertainment technology is used in places of assembly, staging and production areas for events and theatrical productions. Such locations include but are not limited to theatres, multi-purpose halls, exhibition halls, film-, television-, photography- and radio-studios as well as facilities in concert halls, museums, schools, bars, discotheques, open-air stages and other places for shows and events. In some cases, atypical non-performance places are also used.

This document has been developed based on the previous requirements of DIN 15921:2015-09.

This document has been drawn up according to past experience and risk analysis.

1 Scope

This document specifies the requirements for the design and manufacture of aluminium decks and frames used in the entertainment industry.

This document does not apply to scaffolding used as substructures in stage and studio environments in accordance with the EN 12810 series and the EN 12811 series or fairground rides in accordance with EN 13814-1.

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, *Eurocode - Basis of structural design*

EN 1991 (all parts), *Eurocode 1: Actions on structures*

EN 1993 (all parts), *Eurocode 3: Design of steel structures*

EN 1995 (all parts), *Eurocode 5: Design of timber structures*

EN 1999 (all parts), *Eurocode 9 - Design of aluminium structures*

EN 10204, *Metallic products - Types of inspection documents*

EN 17115, *Entertainment technology - Specifications for design and manufacture of aluminium and steel trusses*

EN 17206, *Entertainment technology - Machinery for stages and other production areas - Safety requirements and inspections*

EN ISO 3834 (all parts), *Quality requirements for fusion welding of metallic materials (ISO 3834 (all parts))*

EN ISO 9606-1, *Qualification testing of welders - Fusion welding - Part 1: Steels (ISO 9606-1)*

EN ISO 9606-2, *Qualification test of welders - Fusion welding - Part 2: Aluminium and aluminium alloys (ISO 9606-2)*

EN IEC/IEEE 82079-1, *Preparation of information for use (instructions for use) of products - Part 1: Principles and general requirements*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 17115 and EN 17206 and the following apply.

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

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>