BSI Standards Publication

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

bsi.

National foreword

This British Standard is the UK implementation of EN 17736:2022.

The UK participation in its preparation was entrusted to Technical Committee MHE/3/13, Lifting equipment for performance, broadcast and similar applications.

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

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

Published by BSI Standards Limited 2022

ISBN 978 0 539 18238 5

ICS 97.200.10

Compliance with a British Standard cannot confer immunity from legal obligations.

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

Amendments/corrigenda issued since publication

Date	Text affected

EUROPEAN STANDARD **EN 17736**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2022

ICS 97.200.10

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.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. EN 17736:2022 E

Contents

Page

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.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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