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Entertainment technology - Specifications for design and manufacture of aluminium and steel trusses

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

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English Version

## Entertainment technology - Specifications for design and manufacture of aluminium and steel trusses

Technologies du spectacle - Spécifications relatives à la  
conception et à la fabrication de poutres en aluminium  
et en acier

Veranstaltungstechnik - Anforderungen an die  
Bemessung und Herstellung von Aluminium- und  
Stahltraversen

This European Standard was approved by CEN on 23 April 2018.

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.

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

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**EN 17115:2018 (E)**

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## European foreword

This document (EN 17115:2018) 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of an identical text or by endorsement, at the latest by February 2019, and conflicting national standards shall be withdrawn at the latest by February 2019.

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 document supersedes CWA 15902-2:2008.

In comparison with CWA 15902-2:2008, the following modifications have been made:

- a) the document has been evaluated and revised according to new European Standards, directives and regulations;
- b) terms and definitions in Clause 3 have been revised, e.g. “frequent use factor” added;
- c) a list with examples of significant hazards has been added as Clause 4;
- d) subclause 5.3.2 “Frequent use factor” has been added;
- e) an updated example of a technical datasheet has been added as informative Annex A, without the examples of possible truss orientation;
- f) an example of an inspection report has been added as informative Annex B;
- g) the document has been revised editorially.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

**EN 17115:2018 (E)****Introduction**

The object of this European Standard is to achieve a minimum level of quality in the design and manufacture of aluminium and steel trusses 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.

A first attempt for European standardization work was realized in CWA 15902-2.

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

## 1 Scope

This document defines the requirements for the design and manufacture of aluminium and steel trusses used in the entertainment industry.

This document does not cover individual, separate rigging hardware like shackles, wire ropes, slings and other lifting accessories.

## 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 1090-2, *Execution of steel structures and aluminium structures - Part 2: Technical requirements for steel structures*

EN 1090-3, *Execution of steel structures and aluminium structures - Part 3: Technical requirements for 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 1999 (all parts), *Eurocode 9: Design of aluminium structures*

EN 82079-1, *Preparation of instructions for use - Structuring, content and presentation - Part 1: General principles and detailed requirements*

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

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)*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**