DIN EN 17736:2023-02 (E)

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

Contents

Page

European foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 6

4 List of significant hazards 7

5 Engineering 9
5.1 General 9
5.2 Design 9
5.3 Analysis 9
5.3.1 General 9
5.3.2 Load assumptions 9
5.4 Engineering documentation 10

6 Manufacture 10
6.1 General 10
6.2 Materials 10
6.2.1 General 10
6.2.2 Fire behaviour 10
6.2.3 Surface condition 11
6.3 Welding 11
6.4 Inspection 11
6.5 Identification 11
6.6 Manufacturing documentation 11

7 Additional design requirements for stairs, ramps and guardrails 11
7.1 Stairs 11
7.2 Ramps 12
7.3 Guardrails 12
7.3.1 General 12
7.3.2 Guardrails for stages 12
7.3.3 Guardrails for areas with public access 13
7.4 Alignment of stage decks 13

8 Ancillary items 13

9 Test requirements and procedures 13
9.1 General 13
9.2 Preperation of the test 14
9.3 Vertical test loads 14
9.3.1 Uniformly distributed load (UDL) 14
9.3.2 Point load 14
9.4 Horizontal test load 14
9.5 Verification of test results 14
9.6 Documentation of test results 14

10 User documentation and technical data sheet 15
10.1 User documentation 15
10.2 Technical data sheet 15

Annex A (informative) Technical data sheet example 16

Annex B (informative) Example of test setups for testing aluminium stage decks and frames 18

B.1 General 18
B.2 Application of test loads 18

Annex C (informative) Test report examples 20

C.1 Example of test report for stage decks or frames 20
C.2 Example of test report for guardrails 21

Annex D (informative) Inspection report example 23

Bibliography 24