This is a free page sample. Access the full version online.

NSAI Standards

Irish Standard
I.S. EN 13796-3:2017

Safety requirements for cableway installations designed to carry persons - Carriers - Part 3: Fatigue testing

© CEN 2017 No copying without NSAI permission except as permitted by copyright law.

This is a free page sample. Access the full version online.

I.S. EN 13796-3:2017

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:	*Published:*
EN 13796-3:2017	2017-03-01

This document was published under the authority of the NSAI and comes into effect on:	ICS number:
2017-03-24	45.100
	NOTE: If blank see CEN/CENELEC cover page

NSAI	T +353 1 807 3800	Sales:
1 Swift Square,	F +353 1 807 3838	T +353 1 857 6730
Northwood, Santry	E standards@nsai.ie	F +353 1 857 6729
Dublin 9	W NSAI.ie	W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online.

National Foreword

I.S. EN 13796-3:2017 is the adopted Irish version of the European Document EN 13796-3:2017, Safety requirements for cableway installations designed to carry persons - Carriers - Part 3: Fatigue testing

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

For relationships with other publications refer to the NSAI web store.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This is a free page sample. Access the full version online.

This page is intentionally left blank

This is a free page sample. Access the full version online.

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 13796-3

March 2017

ICS 45.100

Supersedes EN 13796-3:2005

English Version

Safety requirements for cableway installations designed to carry persons - Carriers - Part 3: Fatigue testing

Prescriptions de sécurité pour les installations à câbles transportant des personnes - Véhicules - Partie 3 : Essais de fatigue

Sicherheitsanforderungen an Seilbahnen für den Personenverkehr - Fahrzeuge - Teil 3: Ermüdungsversuche

This European Standard was approved by CEN on 1 December 2014.

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, 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 United Kingdom.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

© 2017 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Ref. No. EN 13796-3:2017 E

This is a free page sample. Access the full version online.

Contents

Page

European Foreword 3

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 Symbols and abbreviations 5

5 General 6

6 Parts to be tested 6

7 Information to be supplied by the manufacturer 6

8 Examination prior to test 7

9 Test requirements 7

10 Test parameters 8
10.1 Test parameters for unidirectional aerial ropeways with fixed grips 8
10.2 Test parameters for unidirectional aerial ropeways with detachable grips 9

11 Conclusion of the test 10
11.1 Inspection of test pieces after the test 10
11.2 Evaluation of the test results 10
11.3 Test report 10

Annex ZA (informative) **Relationship between this European Standard and the Essential Requirements of EU Directive 2000/9/EC relating to cableway installations designed to carry persons** 11

This is a free page sample. Access the full version online.

European Foreword

This document (EN 13796-3:2017) has been prepared by Technical Committee CEN/TC 242 “safety requirements for cableway installations designed to carry persons”, the secretariat of which is held by AFNOR.

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 September 2017, and conflicting national standards shall be withdrawn at the latest by September 2017.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights or similar rights. CEN and/or CENELEC shall not be held responsible for identifying all or some of these patent rights.

This document replaces EN 13796-3:2005.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of the EU Directive(s) 2000/9/EC.

For relationship with the EU Directive 2000/9/EC, see informative Annex ZA, which is an integral part of this document.

EN 13796 comprises the following parts under the general title *Safety requirements for cableway installations designed to carry persons – Carriers:*

— *Part 1: Grips, carrier trucks, on-board brakes, cabins, chairs, carriages, maintenance carrier, tow-hangers*

— *Part 2: Slipping resistance test for grips*

— *Part 3: Fatigue testing*

The most significant changes compared to the previous edition of EN 13796-3 are as follows:

- in Clause 7, 6th indent, the manufacturing tests pursuant to EN 13796-1 and the results thereof are added to the documents requested to the testing laboratory manufacturer by replacing the testing procedure stipulated in Subclause 11.1;
- in Subclause 11.1, the methods for inspecting test specimens following the test are amended.

This document forms part of the standards programme approved by the CEN Technical Board on safety requirements for cableway installations designed to carry persons. This programme comprises the following standards:

— EN 1907, *Safety requirements for cableway installations designed to carry persons — Terminology*

— EN 12929 (all parts), *Safety requirements for cableway installations designed to carry persons — General requirements*

— EN 12930, *Safety requirements for cableway installations designed to carry persons — Calculations;*

— EN 12927 (all parts), *Safety requirements for cableway installations designed to carry persons — Ropes;*

— EN 1908, *Safety requirements for cableway installations designed to carry persons — Tensioning devices*

This is a free page sample. Access the full version online.

— EN 13223 *Safety requirements for cableway installations designed to carry persons — Drive systems and other mechanical equipment*

— EN 13796 (all parts), *Safety requirements for cableway installations designed to carry persons — Carriers*

— EN 13243, *Safety requirements for cableway installations designed to carry persons — Electrical equipment other than for drive systems*

— EN 13107, *Safety requirements for cableway installations designed to carry persons — Civil engineering work*

— EN 1709, *Safety requirements for cableway installations designed to carry persons — Pre-commissioning inspection, maintenance and operational inspection and checks*

— EN 1909, *Safety requirements for cableway installations designed to carry persons — Recovery and evacuation*

— EN 12397, *Safety requirements for cableway installations designed to carry persons — Operation*

— EN 12408, *Safety requirements for cableway installations designed to carry persons — Quality assurance*

Together these form a series of standards regarding design, manufacture, construction, maintenance and operation of all cableway installations designed to carry persons.

According to the CEN/CENELEC internal regulations, the national standards organizations 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 Serbia, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, The Former Yugoslav Republic of Macedonia, Turkey and the United Kingdom.

This is a free page sample. Access the full version online.

1 Scope

This European Standard specifies the safety requirements applicable to carriers for cableway installations for passenger transportation. This standard is applicable to the various types of installations and takes into account their environment.

This European Standard sets out the requirements to be met for fatigue tests for carriers of unidirectional monocable aerial ropeways of capacity not greater than 16 persons according to EN 13796-1.

This standard does not apply to installations for the transportation of goods nor to lifts.

2 Normative references

The following referenced documents, in whole or in part, are referenced in the normal manner for this document and are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document applies (including any amendments).

EN 1907, *Safety requirements for cableway installations designed to carry persons – Terminology*

EN 13796-1, *Safety requirements for cableway installations designed to carry persons – Carriers – Part 1: Grips, carrier trucks, on-board brakes, cabins, chairs, carriages, maintenance carriers, tow-hangers*

EN ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025)*

3 Terms and definitions

For the purposes of this document, the terms and definitions provided in EN 1907 and EN 13796-1 apply.

4 Symbols and abbreviations

$\Delta\varepsilon$	Range of elongation	(μm/m)
ε_m	Mean elongation	(μm/m)
ε_u	Lower limit of elongation	(μm/m)
ε_{stat}	Elongation due to static loading ($G + Q$)	(μm/m)
ΔF	Range of load	(kN)
F_m	Mean load	(kN)
F_u	Minimum load	(kN)
G	Self-weight of carrier	(kN)
N	Number of cycles	(-)
Q	Useful load	(kN)

SAI GLOBAL

This is a free preview. Purchase the entire publication at the link below:

Product Page

Looking for additional Standards? Visit Intertek Inform Infostore

Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation