

Irish Standard I.S. EN 1570-2:2016

Safety requirements for lifting tables - Part 2: Lifting tables serving more than 2 fixed landings of a building, for lifting goods with a vertical travel speed not exceeding 0,15 m/s

© CEN 2016 No copying without NSAI permission except as permitted by copyright law.

I.S. EN 1570-2:2016

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 1570-2:2016 2016-11-16

This document was published ICS number:

under the authority of the NSAI and comes into effect on: 53.020.99

2016-12-04

NSAI

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

T +353 1 807 3800

Údarás um Chaighdeáin Náisiúnta na hÉireann

NOTE: If blank see CEN/CENELEC cover page

Sales:

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

National Foreword

I.S. EN 1570-2:2016 is the adopted Irish version of the European Document EN 1570-2:2016, Safety requirements for lifting tables - Part 2: Lifting tables serving more than 2 fixed landings of a building, for lifting goods with a vertical travel speed not exceeding 0,15 m/s

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

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

EUROPEAN STANDARD

EN 1570-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2016

ICS 53.020.99

English Version

Safety requirements for lifting tables - Part 2: Lifting tables serving more than 2 fixed landings of a building, for lifting goods with a vertical travel speed not exceeding 0,15 m/s

Prescriptions de sécurité des tables élévatrices - Partie 2 : Tables élévatrices desservant plus de deux paliers fixes d'un bâtiment utilisées pour transporter des marchandises et dont la vitesse ne dépasse pas 0,15 m/s

Sicherheitsanforderungen an Hubtische - Teil 2: Hubtische zum Heben von Gütern, die mehr als 2 Haltestellen eines Gebäudes anfahren und deren Hubgeschwindigkeit 0,15 m/s nicht überschreitet

This European Standard was approved by CEN on 27 August 2016.

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, 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

Cont	ents	Page
Europ	ean foreword	4
Introd	luction	5
1	Scope	<i>6</i>
)	Normative references	
3	Terms and definitions	
4	List of hazards	
5	Safety requirements and/or protective measures	
5.1	General	
5.2 5.2.1	CalculationsStresses	
	1 — Load factors for lifting tablesPlatform deflection	
	e 1 — Deflection of platform	
5.2.3 5.2.4	Strength of the load-bearing structure Stability	
5.2.4 5.3	General requirements	
5.3.1	Safety distances	
5.3.2	High temperatures	
5.3.3	Speed	13
5.4	Protection for the travel zone and for the platform	
5.4.1	General requirements	
5.4.2	Protection of the travel zone	
5.4.3 5.4.4	Protection for the area underneath the platformProtection for the platform	
5.4.4 5.4.5	Guard-rails	
J	e 2a — Horizontal guard-rail	
	e 2b — Clear space between two guard-rail segments	
5.4.6	Gates	17
Figure	e 3 — Performance level depending on the fall risk	18
5.4.7	Flexible guards	20
5.4.8	Screens	
5.5	Design of the platform	
5.6 5.7	Levels and clearances of fixed landings	
5.7.1	Driving system Mechanical chains driving system	
5.7.1 5.7.2	Hydraulic system	
1 abie 5.8	2 — Hydraulic pipe rupture protection device Controls	
5.0 5.9	Electrical system	
5.9.1	General requirements	
5.9.2	Protection rating	26
5.10	Safety devices	26

5.10.1	General requirements	26
	Trip devices	
Figure	e 5 — Configuration of a trip device	27
	Safety devices for maintenance	
6	Verification of the safety requirements and/or measures	27
6.1	General requirements	27
Table	3 — Means of verification of the safety requirements and measures	28
6.2	Design check	29
6.3	Manufacturing check	
6.4	Visual inspection	
6.5	Electrical tests	
6.6	Individual final verification before putting into service (fitness for purpose)	29
7	Marking	29
8	Instructions for the user	30
8.1	General requirements	
8.2	Instructions for use	31
8.3	Instructions for installation	32
8.4	Instructions for maintenance and inspection	32
Annex	A (normative) Test procedures	34
Annex	B (informative) Safety signs	36
Annex	c C (informative) Table with the list of hazards	38
Table	C.1 — List of hazards	38
Annev	ZA (informative) Relationship between this European Standard and the Essential	
IIIIICA	Requirements of EU Directive 2006/42/EC	41
Biblio	graphy	42
	O F /	

European foreword

This document (EN 1570-2:2016) has been prepared by Technical Committee CEN/TC 10 "Lilts, escalators and moving walks", 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 May 2017, and conflicting national standards shall be withdrawn at the latest by May 2017.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports the essential requirements of 2006/42/EU.

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.

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

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

This European Standard document was drafted as a design guidance manual to provide a means of achieving conformance to the essential safety requirements stipulated under Machinery Directive 2006/42/EC.

The machines concerned and the extent to which hazards, hazardous situations and hazardous incidents are covered are indicated in the scope of this European Standard. In addition, the machines should be designed according to the principles of EN ISO 12100 for relevant but non significant hazards, which are not dealt with in this standard.

As lifting tables are used in a wide range of applications, it is equally necessary to perform individual risk assessments in accordance with EN ISO 12100 for the actual operating conditions.

Products sold indirectly to end-users should be built to cover all the risks related to the use and all conditions foreseeable by the manufacturer, as described in the instruction manual.

Where the text gives an example of a safety measure for the purposes of greater clarity, this should not be considered as the only possible solution. Any other solution leading to the same risk reduction is permissible if an equivalent or increased level of safety is achieved.

While drafting this European Standard document, it was assumed that:

- the lifting tables are only operated by persons trained in using the equipment in accordance with the manufacturer's instructions, and that the working area is adequately lit;
- the lifting tables are installed on hard-standing, even, appropriately prepared surfaces.
- where there are special requirements on low noise levels, such as for hospital applications and theatres etc., the customer should specify these requirements and the manufacturer should then take all appropriate measures.

When provisions of this type C standard are different from those which are stated in type A or B standards, the provisions of this type C standard take precedence over the provisions of the other standards, for machines that have been designed and built according to the provisions of this type C standard.

1 Scope

- **1.1** This European Standard specifies the safety requirements applicable to lifting tables presenting the following characteristics:
- serving more than two fixed landings of a construction;
- able to pass landings;
- designed exclusively for lifting or lowering goods and not persons;
- only accessible to persons during the loading/unloading phases;
- with a travel speed of no more than 0,15 m/s;
- permanently installed.
- **1.2** This European Standard deals with all significant hazards pertinent, with the exception of noise, to lifting tables when used as intended and under the conditions foreseen by the manufacturer (see Clause 4). This European Standard specifies the appropriate technical measures for eliminating and reducing the risks arising from the significant hazards.
- **1.3** This European Standard does not apply to the following equipment:
- permanently installed lifting tables, serving specific levels of a construction, with a vertical travel speed exceeding 0,15 m/s (EN 81-31);
- lifting tables serving not more than two fixed landings of a construction (EN 1570-1);
- lifting tables, serving more than 2 fixed landings of a construction for lifting operators, with a vertical travel speed not exceeding 0,15 m/s;
- lifting tables carrying operators and installed in enclosures with a vertical travel speed not exceeding 0.15 m/s;
- lifting tables used on ships;
- lifting tables designed for artists and stage set features during artistic performances;
- lifting tables driven by pusher chains.
- **1.4** This European Standard does not establish the additional requirements for:
- electromagnetic compatibility;
- operation in severe conditions (e.g. extreme climates, freezer applications, strong magnetic fields);
- operation subject to special rules (e.g. potentially explosive atmospheres, mines);
- handling of loads, the nature of which could lead to dangerous situations (e.g. molten metal, acids, radiating materials, particularly brittle loads, loose loads (gravel, tubes));
- hazards occurring during construction, transportation and disposal;



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

Product Page

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation