



NSAI
Standards

Irish Standard
I.S. EN 16808:2020

Petroleum, petrochemical and natural gas
industries - Safety of machineries -
Manual elevators

I.S. EN 16808:2020

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN 16808:2020 is the adopted Irish version of the European Document EN 16808:2020, Petroleum, petrochemical and natural gas industries - Safety of machineries - Manual elevators

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EUROPEAN STANDARD

EN 16808

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2020

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English Version

Petroleum, petrochemical and natural gas industries - Safety of machineries - Manual elevators

Industries du pétrole, de la pétrochimie et du gaz
naturel - Sécurité des machines - Élévateurs manuels

Erdöl-, petrochemische und Erdgasindustrie -
Sicherheit von Maschinen - Manuelle Elevatoren

This European Standard was approved by CEN on 6 April 2020.

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Contents	Page
European foreword	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	7
4 Abbreviated terms	13
5 List of significant hazards	13
6 Safety requirements and/or protective/risk reduction measures	13
6.1 General requirements for manual elevators	13
6.2 Mechanical strength.....	14
6.3 Safety design of manual elevators	14
6.3.1 General.....	14
6.3.2 Ergonomic design	14
6.3.3 Fastening methods and DROPS prevention of parts	14
6.3.4 Suspension points.....	15
6.3.5 Moving parts, pinch points and guards.....	15
6.4 Other protective measures.....	15
6.4.1 Risks due to surfaces, edges or angles	15
6.4.2 Size and type verification (errors of fitting)	15
6.4.3 Static electricity	15
6.4.4 Loss of stability	15
6.4.5 Explosion prevention	16
6.4.6 Controls	16
6.4.7 Elevator coating.....	16
6.4.8 Noise	16
6.5 Verification of safety requirements and/or protective/risk reduction measures	16
6.5.1 General.....	16
6.5.2 Service life	16
6.5.3 Fatigue life	16
6.5.4 Maintenance	17
7 Functions for preparing the elevator for a safe lift: wrapping, securing, locking and verification	17
7.1 General.....	17
7.2 Black box approach.....	17
7.3 Wrapping	18
7.4 Securing.....	18
7.5 Locking.....	19
7.6 Verification of readiness for safe lift.....	19
8 Closed-ring elevator	20
8.1 Wrapping	20
8.2 Securing and locking.....	20
8.3 Verification.....	20

9	Information for use	20
9.1	General	20
9.2	Instruction handbook	20
10	Marking of manual elevators	23
	Annex A (informative) List of significant hazards and associated requirement	25
	Annex B (normative) Verification tests for elevators	27
	Annex ZA (informative) Relation between this European Standard and the essential requirements of Directive 2006/42/EC aimed to be covered	29
	Bibliography	33

EN 16808:2020 (E)

European foreword

This document (EN 16808:2020) has been prepared by Technical Committee CEN/TC 12 “Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries”, the secretariat of which is held by NEN and CYS.

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 2021, and conflicting national standards shall be withdrawn at the latest by February 2021.

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

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

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Introduction

This document specifies general principles for the design and production of manually operated elevators for the oil and gas industries, in on- and offshore applications. It is intended for use by manufacturers, designers, standards makers and other interested parties.

This document is a type C standard as stated in EN ISO 12100:2010.

This document is of relevance, in particular, for the following stakeholder groups representing the market players with regard to machinery safety:

- machine manufacturers;
- health and safety bodies (regulators, accident prevention organisations, market surveillance etc.).

Others can be affected by the level of machinery safety achieved with the means of the document by the above-mentioned stakeholder groups:

- machine users/employers (small, medium and large enterprises);
- machine users/employees (e.g. trade unions, organisations for people with special needs);
- service providers (e.g. for maintenance of machinery intended for use by customers).

The abovementioned stakeholder groups have been given the possibility to participate at the drafting process of this document.

The machinery concerned and the extent to which hazards, hazardous situations or hazardous events are covered are indicated in the scope of this document.

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

EN 16808:2020 (E)

1 Scope

This document specifies general safety requirements for the design, testing and production of manually operated elevators. The requirements are applicable for on- and off-shore applications of such elevators in the petroleum and petrochemical industries.

This document deals with significant hazards, hazardous situations and events, as listed in Annex A, relevant to elevators when used as intended and under the conditions of misuse foreseeable by the manufacturer.

This document does not cover any other type of elevator. It is not applicable to the following types of products:

- lifting nubbins;
- lifting plugs;
- lifting subs;
- internal gripping devices;
- equipment for lifting tubular from and onto a vessel;
- elevator links or bails.

This document is not applicable to manually operated elevators manufactured before the date of this publication.

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 614-1:2006+A1:2009, *Safety of machinery — Ergonomic design principles — Part 1: Terminology and general principles*

EN 614-2:2000+A1:2008, *Safety of machinery — Ergonomic design principles — Part 2: Interactions between the design of machinery and work tasks*

EN ISO 14120:2015, *Safety of machinery — Guards — General requirements for the design and construction of fixed and movable guards (ISO 14120:2015)*

EN ISO 80079-36:2016, *Explosive atmospheres — Part 36: Non-electrical equipment for explosive atmospheres — Basic method and requirements (ISO 80079-36:2016)*

EN ISO 80079-37:2016, *Explosive atmospheres — Part 37: Non-electrical equipment for explosive atmospheres — Non-electrical type of protection constructional safety “c”, control of ignition sources “b”, liquid immersion “k” (ISO 80079-37:2016)*

EN ISO 12100:2010, *Safety of machinery — General principles for design — Risk assessment and risk reduction (ISO 12100:2010)*

EN ISO 13534:2000, *Petroleum and natural gas industries — Drilling and production equipment — Inspection, maintenance, repair and remanufacture of hoisting equipment (ISO 13534:2000)*

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