

14th DECEMBER 2021

SBS Lift Webinar

Updates on technical activities

- CEN TC10/WG 13
- Commission Experts Group on Machinery

Tiziano Caresani



CEN TC10/WG13

CEN TC 10 / WG13

prEN 81-42

Safety rules for the construction and installation of lifts — Special lifts for the transport of persons and goods — Part 42: Vertical Lifting Appliance with enclosed carrier intended for use by persons, including persons with disability.

CEN TC 10 / WG13

prEN 81-30

Safety rules for the construction and installation of lifts — Lifts for the transport of goods only — Part 30: Electric and hydraulic service lifts

CEN TC 10 / WG13

prEN 81-31

Safety rules for the construction and installation of lifts — Lifts for the transport of goods only — Part 31: Accessible goods only lifts

CEN TC 10 / WG13



CEN/TC 10/WG 13 N 264

CEN/TC 10/WG 13
Vertical lifting appliance with enclosed carrier

Email of secretary: giovanni.micciche@uni.com
Secretariat: UNI (Italy)

CEN/TC 10/WG 13 doc. N 0264 - Report of the Convenor 2020

Document type: Other committee document

Date of document: 2020-12-21

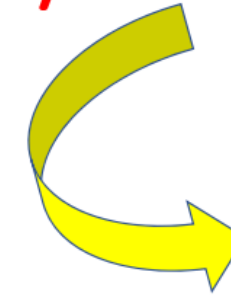
Expected action: INFO

Background:

Committee URL: <https://cen.iso.org/livelink/livelink/open/centc10wg13>

CEN/TC 10/WG 13

Report by Paolo Tattoli
December 2020



- EN 81-30
- EN 81-31
- EN 81-42

CEN TC 10 / WG13

EN 81-42

Next steps/Recommendations

- CEN/TC10/WG13 asked to CEN/TC10 to **open the NWI for the prEN81-42**
- At the beginning of December 2020 was launched the ballot (4 weeks) to get the NWI registered for the circulation of the first WD also to the **HAS Consultant** for the “first assessment”

EN 81-30

EN 81-31

New work for CEN/TC10/WG13

- CEN/TC10/WG13 keep on the revision of the drafts during the last CEN/TC10/WG13 meetings asking his members to provide comments
- Upon internal approval of consolidated comments, CEN/TC10/WG13 is ready to send the “FIRST WORKING DRAFT” of prEN 81-30 and prEN 81-31 to TC 10 asking to **open the NWIs and to send the documents to the HAS Consultant for the “first assessment”**

Last actions

- Updated Annex ZA
- Introduced PL (Performance Level)
- Consolidated comments

Current stage of development



CEN/TC 10/WG 13 N 279

CEN/TC 10/WG 13 "Vertical lifting appliance with enclosed carrier"
WG Secretariat: **UNI**
Convenor: **Tattoli Paolo Mr**



N 0279_Constant_Template for comments prEN 81-42

Document type	Related content	Document date	Expected action
Project / Other		2021-07-30	INFO

Current stage of development



CEN/TC 10/WG 13 N 274

CEN/TC 10/WG 13 "Vertical lifting appliance with enclosed carrier"
WG Secretariat: UNI
Convenor: Tattoli Paolo Mr



N 0274_Consultant_Template for comments prEN 81-30_2021

Document type	Related content	Document date	Expected action
Project / Other		2021-07-30	INFO

Current stage of development



CEN/TC 10/WG 13 N 277

CEN/TC 10/WG 13 "Vertical lifting appliance with enclosed carrier"
WG Secretariat: UNI
Convenor: Tattoli Paolo Mr



N 0277_Consultant_Template for comments EN 81-31

Document type	Related content	Document date	Expected action
Project / Other		2021-07-30	INFO

Meetings

03 September 2021 - Attended

13 September 2021 - Not attended - No invitation received

11 October 2021 - Not attended - No invitation received

15 October 2021 - Not attended - No invitation received

04 November 2021 - Attended

08 November 2021 - Attended

16 November 2021 - Attended

Current stage of development

Template for comments and secretariat observations

Date:2021-06-25 20211116	Document: reference to 1 st WD of prEN81-42 – TC10-N1580	Project: prEN 81-42
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MB/ NC ¹	Line number	Clause/ Subclause	Paragraph/ Figure/Table	Type of comment ²	Comments	Proposed change	Observations of the secretariat
	001	Foreword		ed	to be completed as per CEN template	add reference to mandate M/396 and to Directive 2006/42/EC	agree
	002	0.1	§3	ge	"requirement" should refer to directive or law only in a standard "specification" should be used	check the comment EU-C3 to EN81-20 on doc. TFHAS_74-v1... in case, change everywhere	CEN/TC10 confirms to stay with "requirement"
	003	0.2.3	item c)	ge	"easy" and "easily" are too generic	see a proposal in Annex 2	see Annex 2
	004	0.4.12	§1	ed	The term 'tractions means' is not used in the standard	change to: ...uncontrolled slipping of the traction suspension means on the traction sheave...	agree
	005	0.4.12	item c)	ed	words brake, machine brake and electro-mechanical brake are used in various clauses	change in progress at WG1 see N1971 see Annex 3	see Annex 3
	006	0.4.2	item h)	te	is it a requirement? h) the natural or artificial lighting of the landings in the vicinity of landing doors <u>has</u>	0.4.2 correspond to 81-20, 5.3.7.1 The natural or artificial lighting of the landings in the vicinity of landing doors <u>shall be</u> at least 50 lux at floor level, such	move 0.4.2.h as new 4.3.7.3 change the headline

Current stage of development

prEN 81-42:2017 (E)

Annex H (informative)

Significant hazards

This Annex contains all the significant hazards, hazardous situations and events, as far as they are dealt with in this document, identified by risk assessment as significant for this type of machinery and which require action to eliminate or reduce the risk (see Table 1).

Commentato [CLB255]: See N307, RS3

Table H.1 — List of significant hazards

<u>Group</u>	<u>Significant hazard in accordance with EN ISO 12100:2010</u>	<u>Relevant clauses</u>
1	<u>Mechanical hazards</u>	
	<u>due to machine parts or workpieces, e.g.</u> — <u>by potential energy (falling objects, height from the ground, gravity)</u>	<u>4.2.5.2, 4.2.6.3.3, 4.4.1.3.1</u>
	— <u>by kinetic energy (acceleration, deceleration, moving/rotating elements)</u>	<u>4.2.5.2.1, 4.3.6.2, 4.5.6</u>
1.1		<u>4.3.3.1, 4.3.5.1, 4.3.5.3, 4.4.1.7.2, 4.4.1.7.3, 4.4.1.7.7, 4.5.1, 4.5.2.4, 4.5.2.5, 4.5.7, 4.6.2.1.1.2, 4.6.2.2.17, 4.6.3.3, 4.6.3.4, 4.6.3.7, 4.6.4.1.1, 4.7.2, 4.8.2.1, 4.8.2.2.2, 4.8.2.2.2.4, 4.8.2.2.2.5, 4.8.2.2.2.6, 4.8.3.2</u>
	— <u>by mechanical strength (break-up)</u>	

Current stage of development

Table ZA.1 — Correspondence between this European Standard and Annex I of Directive 2006/42/EC

The relevant Essential Requirements of Directive 2006/42/EC	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
1.1.2 (a)	4, 5, 6	
1.1.2 (c)	4, 5, 6	
1.1.2 (d)	4, 5, 6	
1.1.2 (e)	4, 5, 6	
1.1.3 Materials and products	4.8.3.2.4.2, 4.8.3.3.1.1, 4.8.3.7, D.2.1	
1.1.4 Lighting	4.2.1.4, 4.2.1.5.2, 4.2.2.2, 4.2.6.6.3, 4.9.7, 4.9.8, 4.4.1.10	
1.1.5 Design of machinery to facilitate its handling	4.2.1.7	
1.1.6 Ergonomics	4.2.1.5.2, 4.2.5.7, 4.2.6.1, 4.2.6.3.2, 4.2.6.4.2, 4.2.6.5.3, 4.2.6.6.4, 4.4.1.1, 4.4.1.6.1, 4.8.2.3.3, 4.8.3.7,	Table 2

Commentato [CLB256]: Reference to the new clauses 4.8.7 to be added

Commentato [CLB257]: See N307, RS5

Eliminato: Secondary sub-clauses, which are not listed in the table, are addressed as part of the quoted upper sub-clause ¶

Eliminato: 1.1.2 Principles of safety integration

Eliminato: 4.1

Eliminato: 4.2.1.9,

Eliminato: 4.8.3.2.4.3,

Eliminato: , 4.9.6.1

Eliminato: ¶

Current stage of development

EN 81-70:2021, *Safety rules for the construction and installation of lifts - Particular applications for passenger and goods passenger lift - Part 70: Accessibility to lifts for persons including persons with disability*

Eliminato: 2018

1 Scope

1.1 This document specifies safety requirements for construction, manufacturing, installation, maintenance, inspection and dismantling of permanently installed electrically powered vertical lifting appliances affixed to a building structure intended for use by persons, including persons with disability:

- travelling vertically between predefined levels along a guided path whose inclination to the vertical does not exceed 15°;
- supported or sustained by rack and pinion, rope traction drive, noncircular elastomeric-coated suspension means (hereafter called traction belts) traction drive, rope positive drive, chains, toothed belts, screw and nut, guided chain, scissors mechanism or hydraulic jack (direct or indirect);
- with enclosed wells;
- with a rated speed not greater than 0,15 m/s;
- with the carrier completely enclosed.

Commentato [CLB10]: See N312, 002

Eliminato: steel

Eliminato: members

Eliminato: flat

Commentato [CLB12]: Guided chain drive added as per prEN81-41 doc. WG08_N0264. Clauses numbering already updated accordingly.

Eliminato: (see

Eliminato: 4.2.1.5.2.2)

Commentato [CLB14]: See N312, 001

Current stage of development

4.2.1.8.3 Glass panels, plane or formed shall be made of laminated glass.

The glass panel and their fixings shall withstand 1 000 N static force on an area of 0,09 m² in round or square section, applied at right angles at any point, on either face, without breakage of the glass or permanent deformation on the fixings.

Eliminato: They

Commentato [CLB43]: See N312, 023

Current stage of development

Template for comments and secretariat observations

Date:2021-06-25 20210831	Document: EN81-30 1 st WD TC10-N1578	Project: prEN 81-30
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MB/NC ¹	Line number	Clause/Subclause	Paragraph/Figure/Table	Type of comment ²	Comments	Proposed change	Observations of the secretariat
	001	0.3.1	§2	ge	"requirement" should refer to directive or law only in a standard "specification" should be used	check the comment EU-C3 to EN81-20 on doc. TFHAS_74-v1... in case, change everywhere	clarify if any official position of TC10 exists
	002	0.4.5	§1	ed	do not use the future	change to: Components will be are selected and installed so that foreseeable environmental influences and special working conditions do not affect the safe operation of the service lift.	agree
	003	0.4.18	§1	te	the temperature limit is a suggestion or is a requirement? is it "assumed" proper? To ensure the correct functioning of the equipment in the well and machinery space(s), the ambient temperature in these spaces is assumed to be maintained between + 5 °C and	if it is a requirement change and move to chapter 4 To ensure the correct functioning of the equipment in the well and machinery space(s), the ambient temperature in these spaces is assumed to shall be maintained between + 5 °C and + 40 °C.	disagree it is an assumption in EN81-20:2020 keep as it is

Current stage of development

Template for comments and secretariat observations

Date:2021-06-30 20210806	Document: EN81-31 1 st WD TC10-N1579	Project: prEN 81-31
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MB/ NC ¹	Line number	Clause/ Subclause	Paragraph/ Figure/Table	Type of comment ²	Comments	Proposed change	Observations of the secretariat
	001	foreword		ge	"requirement" should refer to directive or law only in this standard "specification" has been used	check the comment EU-C3 to EN81-20 on doc. TFHAS_74-v1.... in case, change everywhere	any rule from CEN TC10?
	002	0.3.3		ge	"easy", "easily", appropriately, and "safely" are too generic	any comment from HAS consultant? In case see a proposal in Annex 1	Annex 1
	003	0.4.4	§1	ed	do not use the future tense	change to: Components will be are selected and installed so that foreseeable environmental influences and special working conditions do not affect the safe operation of the accessible goods only lift.	
	004	0.4.11	d)	ge	words brake, machine brake and electro-mechanical brake are used in various clauses	change in progress at WG1 see N1971 see Annex 2	Annex 2
	005	0.4.16	§1	te	the temperature limit is a suggestion or is a requirement? is it "assumed" proper? To ensure the correct functioning of the equipment in the well and machinery space(s), the ambient temperature in these spaces is <u>assumed to be</u> maintained between + 5 °C and	if it is a requirement change and move to chapter 4 To ensure the correct functioning of the equipment in the well and machinery space(s), the ambient temperature in these spaces is assumed to shall be maintained between + 5 °C and + 40 °C.	it is assumption in EN81-20 in ISO 8100 it is a requirement for alternative suspension means

Current stage of development

After the comments coming from the HAS Consultant, the WG13 has been asked to update all three norms.

The updated draft of the three standards will be circulated. If there is nothing against such texts from the members, they will be presented to CEN/TC10 for the public enquiry step.

Current stage of development

I have requested a date for a new meeting to discuss a topic that I believe to be very important in the text we are working on.

In the text of all three norms, there is a table with reference to Performance Level for Electric Safety devices.

You will see the table in the next slide.

Current stage of development

prEN 81-31:2021 (E)

Annex A (normative)

List of electric safety devices

In table A.1 there is the list of electric safety devices.

Table A.1 – Electric safety devices

Clause	Devices checking	PL
4.2.3.2.2	closed position of inspection doors and inspection traps	c
4.2.11.4.1 a) 2)	active position of mechanical means in the pit providing 1,80 m clearance	c
4.3.1.2.1 b)	active position of mechanical device preventing carrier movement	c
4.3.2.4.1	stored position of the ladder in the pit	b
4.4.3.4.2.1 b)	stopping device for non automatic power operated doors	b
4.4.3.4.2.2	stopping device for automatic power operated doors	c
4.4.5.3.2	closed position of indirectly linked panels of landing doors	c

Current stage of development

After some discussion with the suppliers in the lift sector, it seems that the market is actually not ready for this request.

If the norm is a realistic picture of the actual state of the art, is it correct add something different ?

Is it mandatory to add to a machinery product stricter parameter than for lifts?

Current stage of development

After this the 3 norms are ready for the submission to CEN for public enquiry

MACHINERY DIRECTIVE WORKING GROUP

NEXT MACHINERY DIRECTIVE

MAIN TOPICS

Problem 1: The MD does not sufficiently cover new risks originating from **emerging technologies (A.I.)**.

Problem 2: (i) Legal uncertainty due to a lack of clarity on the scope and definitions; and (ii) possible safety gaps in traditional technologies.

Problem 3: Insufficient provisions for high risk machines.

Problem 4: Monetary and environmental costs due to extensive paper-based documentation.

Problem 5: Inconsistencies with other pieces of Union product safety legislation.

Problem 6: Divergences in interpretation due to transposition..

○ In preparation

○ Roadmap

Feedback period

14 January 2019 - 11 February 2019

FEEDBACK: CLOSED

○ Public consultation

Feedback period

07 June 2019 - 30 August 2019

FEEDBACK: CLOSED

○ Commission adoption

Feedback period

26 April 2021 - 02 August 2021

FEEDBACK: OPEN

https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/2019-Machinery-Directive-revision_en

WHAT'S NEW ?

MACHINERY DIRECTIVE



**REGULATION ON MACHINERY
PRODUCT**

2.4. Choice of the instrument

The proposal takes the form of a Regulation. The proposed change from a Directive to a Regulation takes into account the Commission's general objective to simplify the regulatory environment and the need to ensure a uniform implementation throughout the Union of the proposed legislation. ...

... the use of Regulations in the area of internal market legislation, in accordance also with the preference expressed by stakeholders..... It also allows manufacturers to work directly with the Regulation text instead of needing to identify and examine 27 transposition laws...the choice of a Regulation is the most appropriate solution for all involved parties as it will allow a more rapid and coherent application of the proposed legislation and will establish a clearer regulatory environment for economic operators.



Brussels, 21.4.2021
COM(2021) 202 final

2021/0105 (COD)

Proposal for a

REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

on machinery products

(Text with EEA relevance)

{SEC(2021) 165 final} - {SWD(2021) 82 final} - {SWD(2021) 83 final}

EFESME comments

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EUROPEAN COMMISSION

European Commission

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Proposal for a Regulation of the European Parliament and of the Council on machinery products

Document date: 21/04/2021 - Created by GROW.01 - Publication date: n/a - Last update: 21/04/2021

Download links:

- [COM\(2021\) 202 - Proposal for a Regulation of the European Parliament and of the Council on machinery products](#) (416 KB)
- [COM\(2021\) 202 ANNEX - Annex to the Proposal for a Regulation of the European Parliament and of the Council on machinery products](#) (479 KB)
- [SWD\(2021\) 82 - Impact assessment](#) (2 MB)
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Document keywords

- ▶ machinery
- ▶ regulation (EU)
- ▶ single market
- ▶ proposal (EU)

Article 5

High-risk machinery products

1. High-risk machinery products listed in Annex I shall be subject to a specific conformity assessment procedure, as referred to in Article 21(2).

ANNEX I

HIGH-RISK MACHINERY PRODUCTS

17. Devices for the lifting of persons or of persons and goods involving a hazard of falling from a vertical height of more than three metres.

IMPORTANT FOR LIFT SECTOR

Essential health and safety requirements (EHSRs) traditional machinery:

The proposed Regulation adapts or adds following EHSRs to address specific machinery risks:

1.1.9. Protection against corruption The machinery product shall be designed and constructed so that the connection to it of another device, via any feature of the connected device itself or via any remote device that communicates with the machinery product does not lead to a hazardous situation. A hardware component for connection that is critical for the compliance of the machinery product with the relevant health and safety requirements shall be designed so that it is adequately protected against accidental or intentional corruption. The machinery product shall collect evidence of a legitimate or illegitimate intervention in the hardware component. Software and data that are critical for the compliance of the machinery product with the relevant health and safety requirements shall be identified as such and shall be adequately protected against accidental or intentional corruption. The machinery product shall identify the software installed on it that is necessary for it to operate safely, and shall be able to provide that information at all times in an easily accessible form. The machinery product shall collect evidence of a legitimate or illegitimate intervention in the software or a modification of the software installed on the machinery product or its configuration.

IMPORTANT FOR LIFT SECTOR

In our opinion, Cybersecurity cannot provide the so-called “protection means” that the manufacturer of the machinery has to guarantee to preserve the level of safety for its whole life-cycle.

This is because software is constantly evolving, and it is impossible to define today whether something will be safe in the future .

This seems to be a proposal coming from the big players who intend to wipe the SMEs from their business sectors, by making Cybersecurity the major, or only, way of trying to keep a reasonable level of safety, but investing so many economic and personnel resources that the SMEs could not afford.

IMPORTANT FOR LIFT SECTOR

**Essential health and safety requirements (EHSRs)
traditional machinery:**

The proposed Regulation adapts or adds following EHSRs to address specific machinery risks:

Digital documentation: EHSRs 1.7.4 on instructions and Annex V on the manufacturer's declaration of conformity allow that manufacturers provide digital instructions and the declaration of conformity. Nevertheless, a paper format is mandatory upon request.

IMPORTANT FOR LIFT SECTOR

1.7.4. Instructions

The instructions accompanying the machinery product shall be either 'Original instructions' or a 'Translation of the original instructions', in which case the translation shall be accompanied by the original instructions.

By way of exception, the maintenance instructions intended for use by specialised personnel mandated by the manufacturer or his or her authorised representative may be supplied in only one official language of the Union which the specialised personnel understand.

The instructions may be provided in a digital format.

However, upon purchaser's request at the time of the purchase of the machinery product, the instructions shall be provided in paper format free of charge.

Essential health and safety requirements (EHSRs) traditional machinery:

The proposed Regulation adapts or adds following EHSRs to address specific machinery risks:

ANNEX V

EU DECLARATION OF CONFORMITY OF MACHINERY PRODUCTS EXCEPT FOR PARTLY COMPLETED MACHINERY No... 4

This declaration relates exclusively to machinery products, except for partly completed machinery, in the state in which it was placed on the market, and excludes components, which are added and/or operations carried out subsequently by the final user unless there is a substantial modification of the machinery product.

1. The EU declaration of conformity shall contain the following particulars:

Machinery product (product, type, batch or serial number):

2. Name and address of the manufacturer and, where applicable, his or her authorised representative:

3. The address where the machine product is permanently installed only for lifting machinery product installed in a building or a structure

IMPORTANT FOR LIFT SECTOR

**Essential health and safety requirements (EHSRs)
traditional machinery:**

The proposed Regulation adapts or adds following EHSRs
to address specific machinery risks:

EHSR 6.2 on control devices has been adapted

IMPORTANT FOR LIFT SECTOR

6.2. CONTROL DEVICES

Where safety requirements do not impose other solutions, the carrier shall, as a general rule, be designed and constructed in such a way that persons in the carrier have means of controlling upward and downward movements and, if appropriate, other movements of the carrier.

In operation, those control devices shall override any other devices controlling the same movement with the exception of emergency stop devices.

The control devices for the movements referred to in the first paragraph shall be of the hold-to-run type except where the carrier is completely enclosed. If there is no risk of persons or objects on the carrier colliding or falling and no other risks due to the upward and downward movements of the carrier, control devices authorising automatic stops at preselected positions may be used instead of hold-to-run type control devices

CHAPTER IV CONFORMITY ASSESSMENT

Article 21

Conformity assessment procedures for machinery products except partly completed machinery

1. In order to certify the conformity of a machinery product with this Regulation, the manufacturer or its authorised representative and the person who has carried out a substantial modification to the machinery product, shall apply one of the procedures for assessment of conformity referred to in paragraphs 2 and 3.

2. Where the machinery product is a high-risk machinery product listed in Annex I, the manufacturer or the manufacturer's authorised representative and the person who has carried out a substantial modification to the machinery product shall apply one of the following procedures:

(a) **EU type-examination procedure (module B) provided for in Annex VII**, followed by conformity to type based on internal production control (module C) set out in Annex VIII;

.....

IMPORTANT FOR LIFT SECTOR

ANNEX VII
EU TYPE-EXAMINATION
(Module B)

1. EU type-examination is the part of a conformity assessment procedure in which a notified body examines the technical design of a machinery product and verifies and attests that the technical design of the machinery product meets the applicable requirements of this Regulation.

This is the actual text of the regulation

IMPORTANT FOR LIFT SECTOR

Timing from approval date

2021/0105(COD)

20.10.2021

***I

DRAFT REPORT

on the proposal for a regulation of the European Parliament and of the Council
on Machinery products
(COM(2021)0202 – C9-0145/2021 – 2021/0105(COD))

Committee on the Internal Market and Consumer Protection

Rapporteur: Ivan Štefanec

7. Deadlines and transitional provisions

The Rapporteur proposes extending the deadline for the repeal of Directive 2006/42/EC from 30 to 48 months after the date of entry into force of the new Regulation. In line with that, the transitional period has been extended from 42 to 60 month, as well, and the deadline for the Commission to present its first report on the evaluation of the Regulation from 54 to 72 months. Finally, the date of application of the Regulation was postponed from 30 to 48 months after its entry into force.

THANK YOU FOR YOUR ATTENTION

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