

LIIKURTÕSTEPLATVORMID. OSA 2: TÄIENDAVALD  
OHUTUSNÕUDED KOORMA TÕSTESEADMETELE  
PIKENDATAVAL TÕSTEKONSTRUKTSIOONIL JA  
TÖÖPLATVORMIL

Mobile elevating work platforms - Part 2: Additional  
safety requirements for load lifting appliances on the  
extending lifting structure and work platform

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN 280-2:2022 sisaldab Euroopa standardi EN 280-2:2022 ingliskeelset teksti.	This Estonian standard EVS-EN 280-2:2022 consists of the English text of the European standard EN 280-2:2022.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
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ICS 53.020.99; C

English Version

## Mobile elevating work platforms - Part 2: Additional safety requirements for load lifting appliances on the extending lifting structure and work platform

Plates-formes élévatrices mobiles de personnel - Partie 2 :  
Exigences de sécurité supplémentaires pour des appareils  
de levage fixés à la structure extensible ou à la plate-forme  
de travail

Fahrbahre Hubarbeitsbühnen - Teil 2: Zusätzliche  
Sicherheitsanforderung für Lastaufnahmemittel an  
Hubeinrichtung und Arbeitsbühne

This European Standard was approved by CEN on 12 December 2021.

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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.

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<b>Contents</b>	<b>Page</b>
<b>European foreword</b> .....	<b>3</b>
<b>Introduction</b> .....	<b>4</b>
<b>1 Scope</b> .....	<b>5</b>
<b>2 Normative references</b> .....	<b>5</b>
<b>3 Terms and definitions</b> .....	<b>6</b>
<b>4 Safety requirements and/or protective/risk reduction measures</b> .....	<b>8</b>
<b>4.1 Fixed load-lifting attachment</b> .....	<b>8</b>
<b>4.2 Hoist appliance (hoists with/without jibs)</b> .....	<b>8</b>
<b>4.3 Structural and stability calculations</b> .....	<b>9</b>
<b>4.4 Methods to avoid overturning and exceeding permissible stresses</b> .....	<b>9</b>
<b>5 Verification of safety requirements and/or protective/risk reduction measures</b> .....	<b>10</b>
<b>6 User information</b> .....	<b>10</b>
<b>6.1 Operating instructions</b> .....	<b>10</b>
<b>6.2 Marking</b> .....	<b>12</b>
<b>Annex A (normative) List of significant hazards</b> .....	<b>14</b>
<b>Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of Directive 2006/42/EC aimed to be covered</b> .....	<b>18</b>
<b>Bibliography</b> .....	<b>20</b>

## European foreword

This document (EN 280-2:2022) has been prepared by Technical Committee CEN/TC 98 “Lifting platforms”, the secretariat of which is held by DIN.

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 August 2022, and conflicting national standards shall be withdrawn at the latest by August 2022.

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 Standardization Request 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.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## Introduction

This document is a harmonized standard to provide one means for Mobile Elevating Work Platforms (MEWPs) of Type 1, equipped with a load lifting appliance and designed for lifting suspended loads, to conform to the essential health and safety requirements of the Machinery Directive 2006/42/EC.

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

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.

The machinery concerned and the extent to which hazards are covered are indicated in the scope of this document.

## 1 Scope

This document, which is to be used in conjunction with EN 280-1:2022, specifies the additional safety requirements for MEWPs of Type 1 Group B equipped with a load lifting appliance. The load-lifting appliance is designed for lifting suspended loads only as part of the task being carried out by personnel from the work platform. This document deals with the additional hazards, hazardous situations and events relevant to load lifting appliances either on the extending lifting structure or on the work platform, when the MEWP and load lifting appliance are used as intended and under conditions of misuse which are reasonably foreseeable by the manufacturer of the MEWP. The significant hazards covered by this document are listed in Annex A.

This document does not cover the following:

- a) the use of a MEWP for lifting persons as a suspended load;
- b) the use of a MEWP for lifting suspended loads from a control position other than the work platform;
- c) requirements for lifting accessories;
- d) lifting or lowering of suspended loads for general materials handling as carried out by a crane;
- e) MEWPs compliant with EN 280-1:2022, 4.4.1.5 and/or 4.4.1.6 (enhanced stability and overload criteria);
- f) MEWPs others than Type 1 Group B.

Load lifting appliance can be:

- g) fixed load attachment points on the work platform or on the extending lifting structure where the load can be positioned in reach of the personnel on the platform;
- h) lifting equipment for lifting or lowering the load with a stationary platform. The equipment is attached to the work platform or extending structure and may have a load lifting jib.

NOTE The lifting equipment can be either permanently attached or removable.

## 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 280-1:2022, *Mobile elevating work platforms - Part 1: Design calculations - Stability criteria - Construction - Safety - Examinations and tests*

EN 13001-2:2021, *Crane safety - General design - Part 2: Load actions*

EN 14492-2:2019, *Cranes - Power driven winches and hoists - Part 2: Power driven hoists*

EN 60204-32:2008, *Safety of machinery - Electrical equipment of machines - Part 32: Requirements for hoisting machines (IEC 60204 32:2008)*

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

EN ISO 13850:2015, *Safety of machinery - Emergency stop function - Principles for design (ISO 13850:2015)*

EN ISO 13854:2019, *Safety of machinery - Minimum gaps to avoid crushing of parts of the human body (ISO 13854:2017)*

EN ISO 13857:2019, *Safety of machinery - Safety distances to prevent hazard zones being reached by upper and lower limbs (ISO 13857:2019)*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 280-1:2022, EN ISO 12100:2010, and the following apply (see also Figure 1 for some illustrations of definitions).

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

#### 3.1

##### **load lifting appliance**

load attachment point or hoist appliance

#### 3.2

##### **lifting equipment**

hoist with or without load lifting jibs, with or without hoist mediums and load holding device, which is permanently mounted or removable

#### 3.3

##### **lifting accessories**

component or equipment not attached to the lifting machinery, allowing the load to be held, which is placed between the machinery and the load or on the load itself, or which is intended to constitute an integral part of the load

Note 1 to entry: Slings and their components are also regarded as lifting accessories.

#### 3.4

##### **load lifting jib**

part of the lifting equipment which provides the necessary radius and/or height of the load holding device (definition similar to ISO 4306-1:2007)