
**Safety of machinery — Permanent means
of access to machinery —**

Part 4:
Fixed ladders

AMENDMENT 1

iTeh STANDARD PREVIEW

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*Sécurité des machines — Moyens d'accès permanents aux
machines —*

Partie 4: Échelles fixes

<https://standards.iteh.ai/en/standards/8776631d-51f2-478c-a516-99c7e41343b4/iso-14122-4-2004/amd-1-2010>
AMENDEMENT 1



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Published in Switzerland

Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

Amendment 1 to ISO 14122-4:2004 was prepared by Technical Committee ISO/TC 199, *Safety of machinery*.

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Conformant with ISO Guide 78¹⁾, this Amendment supports regional technical regulations for machinery safety according to the principles of UNECE Recommendation L²⁾. It comprises minor technical changes to the existing International Standard, aimed at ensuring compliance of the current edition of ISO 14122-1 with the relevant Essential Requirements of New Approach Directive 2006/42/EC on machinery, which replaced New Approach Directive 98/37/EC and entered into force on 2009-12-29 without a transition period.

IMPORTANT — This Amendment does not specify any *technical* change not directly required as a consequence of the new European legislation.

Page vi, Introduction

Replace the second paragraph, “This European standard is a type B standard as stated in EN ISO 12100.” with “This part of EN ISO 14122 is a type B standard as stated in EN ISO 12100-1.”.

Delete the third paragraph beginning with “This standard is to be read in conjunction with [...]”.

Page 1, Scope

Number the existing Note as Note 1 and add the following Note 2:

NOTE 2 For mobile machinery, alternative requirements can apply due to their dimensions and particular conditions of use.

Page 1, Normative references

Add the following references:

EN ISO 14121-1, *Safety of machinery — Risk assessment — Part 1: Principles*

1) ISO Guide 78:2008, *Safety of machinery — Rules for drafting and presentation of safety standards*.

2) United Nations Economic Commission for Europe (UNECE), International Model for Technical Harmonization.

Replace with the following:

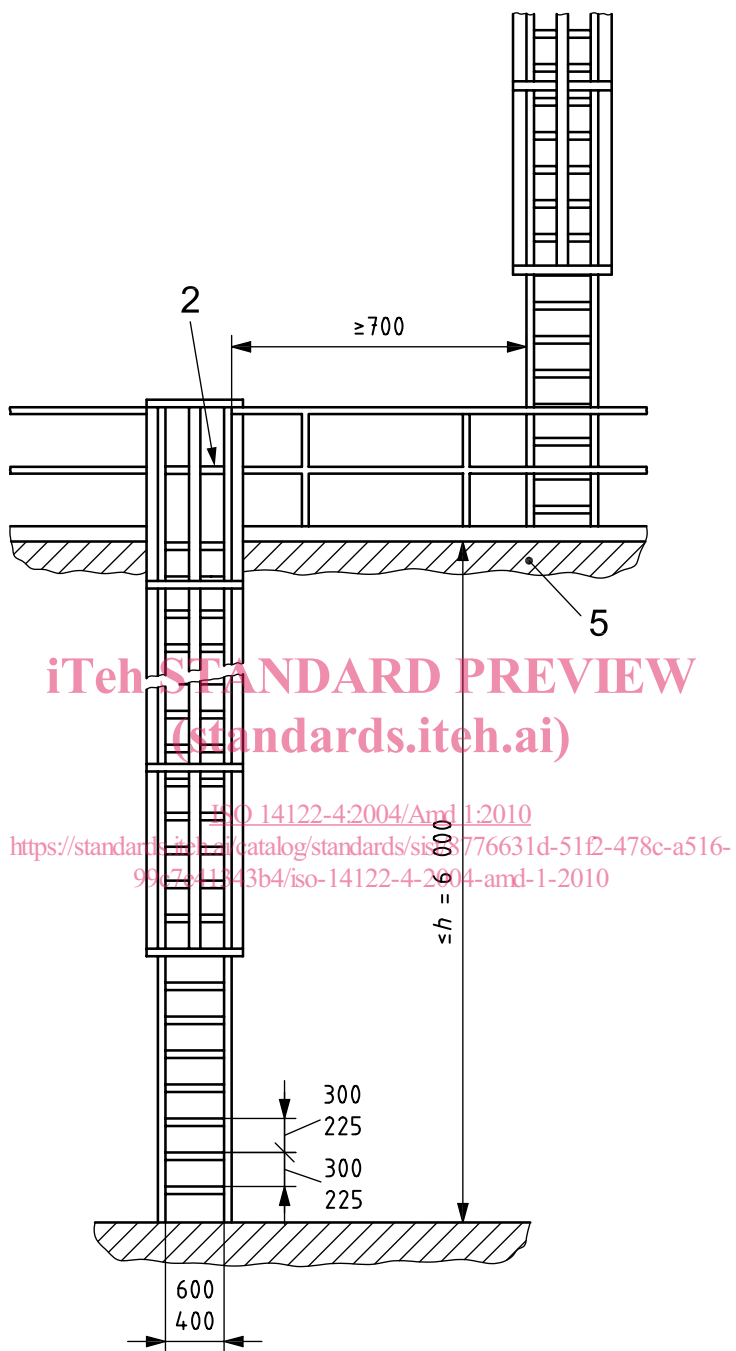


Figure 4b — Front elevation on ladder with safety cage

Replace the subclause with the following:

“4.3.2 Choice of suitable type of fall protection device

For the selection of a suitable type of fall protection device, a risk assessment in accordance with EN ISO 14121-1 shall be made for each particular application.

The relevant aspects to be taken into account are, for example:

- a) total climbing height for a fixed ladder;
- b) low or high risk of falling from height and expected severity of injuries;
- c) environmental aspects, such as
 - wind, and
 - hot surfaces;
- d) space restrictions, such as
 - range of movement, and
 - space requirements for installation and maintenance;
- e) rescue aspects;
- f) human factors, such as [ISO 14122-4:2004/Amd 1:2010](https://standards.iteh.ai/catalog/standards/sist/8776631d-51f2-478c-a516-99c7e41343b4/iso-14122-4-2004-amd-1-2010)
 - fatigue aspects,
 - stress-related aspects,
 - experience, ability and training,
 - awareness of risk, and
 - psychological aspects.

The safety cage shall be the preferred option because it is always present and the actual safety function is independent of the operator's actions.

Where it is not possible to install a ladder with a safety cage, due to space restrictions and special access conditions, a fall arrester shall be provided. A fall arrester shall only be used on low-frequency accesses and significant total climbing heights.

Suitable safeguards for the exclusive use of the fall arrester by authorized and trained operators, as prescribed in 4.7.4.3, shall be provided.

NOTE The fall arrester is effective only if the operator chooses to use it. If a harness having a sliding system is used, which is incompatible with the rigid anchorage line, there will be a risk (see information for use in 6.2).”

Page 28, 6.2

Replace the subclause with the following:

6.2 Operating instructions for ladders with fall arresters

The provisions of EN ISO 12100-2 as well as EN 353-1 shall be considered in the operating instructions.

In addition, the following information shall be given:

- a) advice on how to use the harness, as provided by the manufacturer, with the guide lock;
- b) advice on how to instruct the authorized personnel in the safe operation of ladders with fall arrester.

Page 29, Bibliography

Delete the reference to EN 1050.

Add the following:

EN 1993-1-1, *Eurocode 3: Design of steel structures — Part 1-1: General rules and rules for buildings*

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