



SLOVENSKI STANDARD
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Lestve - 3. del: Varnostna navodila in informacije za uporabnike

Ladders - Part 3: Safety instructions and user information

Leitern - Teil 3: Benutzerinformation

Échelles - Partie 3: Instructions de sécurité et informations destinées à l'utilisateur

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97.145

Lestve

Ladders

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

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English Version

Ladders - Part 3: Safety instructions and user information

Échelles - Partie 3: Instructions de sécurité et informations
destinées à l'utilisateur

Leitern - Teil 3: Benutzerinformation

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 93.

If this draft becomes a European Standard, 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (prEN 131-3:2009) has been prepared by Technical Committee CEN/TC 93 “Ladders”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 131-3:2007.

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prEN 131-3:2009 (E)**1 Scope**

This European Standard gives safety instructions and user information for the safe use of ladders covered by the scope of EN 131-1 and fulfilling the requirements of EN 131-1, EN 131-2 and, for single or multiple hinged-joint ladders, EN 131-4 used as standing or leaning ladders.

2 Normative references

The following referenced documents are indispensable for the application 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.

Not applicable

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1**producer**

(a) manufacturer of a product and any other person presenting himself as the manufacturer by affixing to the product his name, trade mark or other distinctive mark, or the person who reconditions the product

(b) other professionals in the supply chain, insofar as their activities may affect the safety properties of a product

3.2**distributor**

professional in the supply chain whose activity does not affect the safety properties of a product

3.3**owner**

person or company buying or receiving the ladder

NOTE The owner can use the ladder himself, or he can make the ladder available for other users

3.4**user**

person using the ladder

3.5**harm**

physical injury or damage to health of people or damage to property or the environment

3.6**hazard**

potential source of harm

3.7**risk**

probable rate of occurrence of a hazard causing harm and the degree of severity of the harm

4 Provision of safety instructions and user information

The producer shall be responsible for the content of the safety instructions and user information and the provision of the instructions with each ladder.

The distributor should ensure that the safety instructions and user information are provided with each ladder.

The ladder owner should ensure that safety instructions and user information are available to the user.

The safety instructions and user information shall be in the language of the country where the ladder is sold.

5 Reasons for accidents

The following list of hazards and examples of their causes, which is not exhaustive, are common reasons for accidents encountered when using ladders and are the basis on which the information in this standard has been developed:

- a) Loss of stability:
- 1) incorrect positioning of the ladder (such as incorrect angle for leaning ladder or not fully opening a standing ladder);
 - 2) slide outwards at the bottom (such as bottom of the ladders sliding away from the wall);
 - 3) side slip, falling sideways and top flip (such as overreaching or fragile top contact surface);
 - 4) condition of the ladder (such as missing anti-slip feet);
 - 5) stepping off an unsecured ladder at height;
 - 6) ground conditions (such as unstable soft ground, sloping ground, slippery surfaces or contaminated solid surfaces);
 - 7) adverse weather conditions (such as windy conditions);
 - 8) collision with the ladder (such as vehicle or door);
 - 9) incorrect choice of ladder (such as too short, unsuitable task).
- b) From handling:
- 1) transferring the ladder to the work position;
 - 2) erecting and dismantling the ladder;
 - 3) carrying items up the ladder.
- c) Slip trip and fall of user:
- 1) inappropriate footwear;
 - 2) contaminated rungs or steps;
 - 3) unsafe user practices (such as climbing 2 rungs at time, sliding down stiles).
- d) Structural failure of ladder:
- 1) condition of the ladder (such as damaged stiles, wear, UV degradation of plastic parts);
 - 2) overloading the ladder.
- e) Electrical hazards:
- 1) unavoidable live working (e. g. fault finding);
 - 2) positioning ladders too close to live electrical equipment (such as overhead power lines);
 - 3) ladders damaging electrical equipment (such as covers or protective insulation);
 - 4) incorrect selection of type of ladder for electrical work.

prEN 131-3:2009 (E)**6 Marking****6.1 Leaning ladders****6.1.1 Graphical symbols**

The safety instructions that shall be included, as an easily viewed graphical symbol, marked on all ladders that are designed to be used as leaning ladders is:

- a) read the instructions (example Figure A.1);
- b) maximum load (example Figure A.2);
- c) correct angle of erection (example Figure A.3);
- d) erect on a level base (example Figure A.4);
- e) do not over-reach (example Figure A.5);
- f) ensure ground is free from contaminants (example Figure A.6);
- g) erect on a firm base (example Figure A.7);
- h) ladder extension above landing point (example Figure A.8);
- i) do not step off the side of a ladder (example Figure A.9);
- j) use the ladder the correct way up [only if necessary due to design of ladder] (example Figure A.22).

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6.1.2 Correct angle indicator

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Each ladder designed to be used as a leaning ladder shall have indication or instructions affixed to the ladder to show when it is erected at the correct angle according to the manufacturer's instructions.

6.2 Standing ladders

The safety instructions that shall be included, as an easily viewed graphical symbol, marked on all ladders that are designed to be used as standing ladders is:

- a) read the instructions (example Figure A.1);
- b) maximum load (example Figure A.2);
- c) erect on a level base (example Figure A.4);
- d) fully opened before use (example Figure A.17);
- e) do not overreach (example Figure A.5);
- f) erect on a firm base (example Figure A.7);
- g) do not step off the side of a ladder (example Figure A.9);
- h) ensure restraint devices are engaged [if fitted] (example Figure A.21).

6.3 Combination ladders

Where a combination ladder is designed to be used as a leaning ladder, the safety instructions included, as an easily viewed graphical symbol, marked on all ladders shall comply with the requirements of 6.1.

Where a combination ladder is designed to be used as a standing ladder, the safety instructions included, as an easily viewed graphical symbol, marked on all ladders shall comply with the requirements of 6.2.

In addition to the requirements of 6.1 and 6.2 where relevant, the following information shall be included, as an easily viewed graphical symbol, marked on all combination ladders:

- a) when used in the extending standing ladder position (see Figure 1), do not climb above the rung or tread recommended by the manufacturer;
- b) when used in the stairway position (see Figure 2), do not climb above the rung or tread recommended by the manufacturer;

Note See EN 131-1 for the definition of a combination ladder

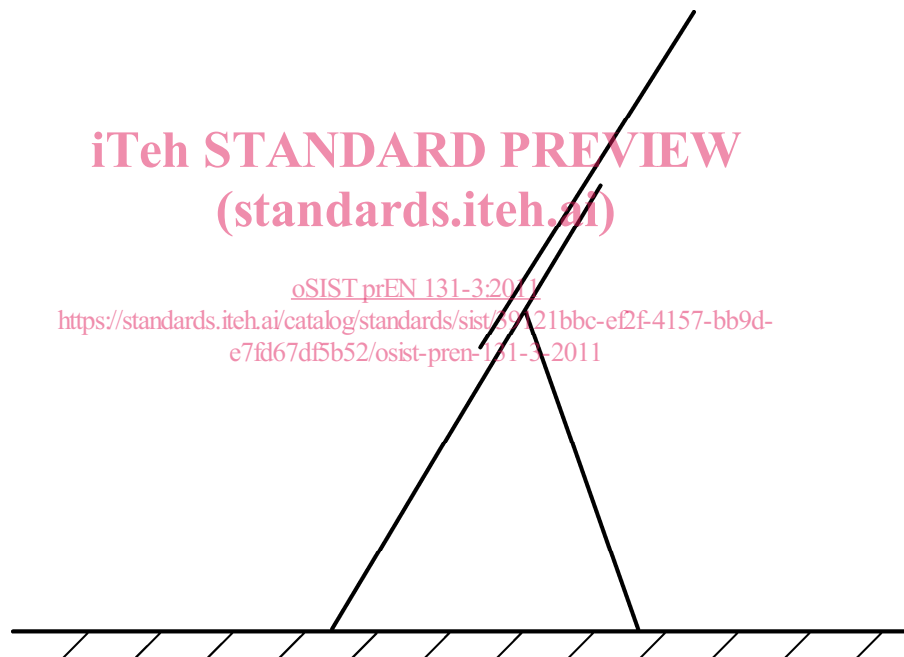


Figure 1 — Combination ladder in standing ladder position

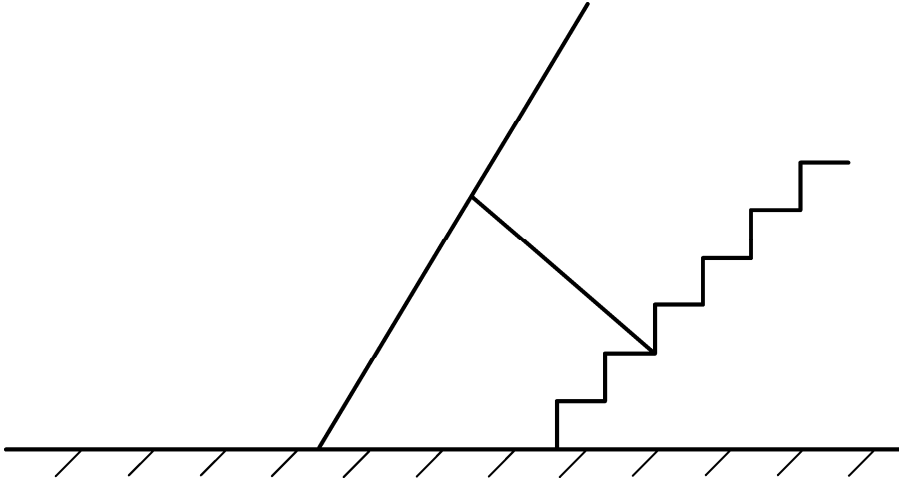


Figure 2 — Combination ladder in stairway position

6.4 Single or multi-hinge joint ladders

Where a single or multi-hinge joint ladder is designed to be used as a leaning ladder, the safety instructions included, as an easily viewed graphical symbol, marked on all ladders shall comply with the requirements of 6.1.

Where a single or multi-hinge joint ladder is designed to be used as a standing ladder, the safety instructions included, as an easily viewed graphical symbol, marked on all ladders shall comply with the requirements of 6.2.

In addition to the requirements of 6.1 and 6.2 where relevant, the following safety instructions shall be included, as an easily viewed graphical symbol, marked on all single or multi-hinge joint ladders:

- a) whether or not the ladder can be used as a platform
- b) if the ladder is used as a platform, the decking shall be secured before use

Note 1 See EN 131-4 for the definition of a single or multi-hinge joint ladder

Note 2 Any decking used should be supplied or recommended by the ladder manufacturer

6.5 Useable rungs or treads

6.5.1 Leaning ladders

Each ladder designed to be used as a leaning ladder shall be marked to indicate the last rung that shall be used for standing on.

NOTE The marking may be placed on the stile of the ladder or preferably on the last useable rung or tread to be used for standing on.

6.5.2 Standing ladders

Each ladder designed to be used as a standing ladder shall be marked to indicate the topmost rung or tread that shall be used for standing on. Platforms of standing ladders which are intended to be used for standing on need not be marked.

NOTE EU Directive 2001/45/EC requires that a secure handhold and secure support is available to the user at all times.

6.5.3 Extending standing ladder and combination ladders

Each ladder designed to be used as an extending standing ladder shall be marked to indicate the topmost rungs or treads that shall be used for standing on.

6.5.4 Platforms on standing ladders

Any platform on a standing ladder that is not designed for standing on (e.g. a plastic work tray) shall be clearly indicated (example Figure A.23).

6.6 Other marking information for all ladders

Each graphical symbol shall be a minimum size of 15 mm × 15 mm and be of contrasting colour. The choice of graphical symbol to be used shall be the responsibility of the producer. Examples of graphical symbols that may be used are given in Annex A.

Additional information may be given in the form of graphical symbol or text.

The marking shall also include:

- a) identity and address of the producer and/or distributor;
- b) type of ladder and possible modes of use (description of the type, number and length of the parts, maximum length of ladder in use);
- c) month and year of production and/or serial number;
- d) indication of inclination for ladders where this is not obvious because of their construction or design;
- e) maximum total load;
- f) maximum number of users allowed on the ladder;
- g) weight of the ladder after production (in kg);
- h) insulation, if any.
- i) warning of potential shear points or squeeze points when the ladder is operated according to the manufacturers' instructions.

NOTE This may be a general warning or indication of each potential squeeze or shear point.

7 User information

7.1 General

- a) User information shall be in the language of the country where the ladder is sold. User information shall be written in text that may be accompanied by diagrams or graphical symbols.
- b) The user information shall list the items to be inspected and checked. Details of how to obtain the pass/fail criteria shall be in the user information or marked on the ladder.
- c) User information may be supplied with the ladder or made available on the manufacturer's website.
- d) If the information is supplied separate to the ladder then the information from 6.1 or 6.2 shall be repeated.