SLOVENSKI STANDARD
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Lestve - 8. del: Lestve s podestom

Ladders - Part 8: Ladders with separate platform

Leitern - Teil 8: Leitern mit separater Plattform

Echelles - Échelles avec plate-forme séparée

Ta slovenski standard je istoveten z: **prEN 131-8**

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97.145	Lestve	Ladders

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English Version

Ladders - Part 8: Ladders with separate platform

Echelles - Échelles avec plate-forme séparée

Leitern - Teil 8: Leitern mit separater Plattform

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (prEN 131-8:2020) 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 is one of a series about ladders.

1 Scope

This document specifies requirements and testing for a single product consisting of an EN 131 compliant ladder made out of a minimum of two parts and one separate platform where the platform height in the position of use is no higher than 1 m and the platform is intended for use by one person at a time.

This part of the standard is intended to be used in conjunction with EN 131-1, EN 131-2 and EN 131-3.

This document does not cover mobile access and working towers which are;

- specified in EN 1004;
- products consisting of two separate ladders.

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 131-1, *Ladders — Part 1: Terms, types, functional sizes*

EN 131-2:2010+A2:2017, *Ladders — Part 2: Requirements, testing, marking*

EN 131-3, *Ladders - Part 3: Marking and user instructions*

EN 131-4, *Ladders - Part 4: Single or multiple hinge-joint ladders*

EN 131-6, *Ladders - Part 6: Telescopic ladders*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 131-1 and the following apply.

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

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

3.1
platform
separate component forming a surface on which the user may stand to work

3.2
platform height
distance from the ground to the upper standing surface of the platform

3.3
platform position
product assembled, in accordance with the manufacturer's instructions, for the purpose of standing on the platform

3.4
maximum total load
combined weight of the user, their clothing, tools and materials

3.5
crossbar
horizontal member joining the two parts of the ladder

Note 1 to entry: See Figure 3.

3.6
h_3
distance measured vertically from the floor level to the uppermost surface the platform in its highest position

4 Dimensions

4.1 The dimensions for ladders are given in EN 131-1. The ladder shall meet the dimensional requirements for ladders given in EN 131-1.

4.2 The maximum platform height h_3 shall be 1 000 mm.

4.3 The maximum usable platform length shall be 1 250 mm.

NOTE The maximum platform length is specified in order to reduce the possibility of overloading.

4.4 The minimum platform useable surface width at any point shall be 310 mm.

5 Design and test requirements

5.1 General

The design requirements are based on a maximum total load of 150 kg.

The product shall meet the test requirements of Clause 6.

5.2 Ladder

The ladder shall meet the requirements given in EN 131-1, EN 131-2, EN 131-3, and if applicable, EN 131-4 or EN 131-6. See Figure 1.

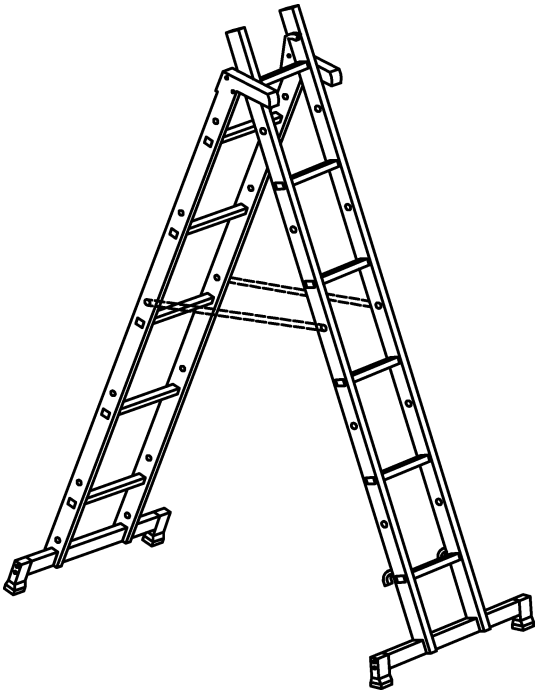


Figure 1 — Example of a ladder

5.3 Platform

5.3.1 The platform shall be supported in a horizontal position at each end by one section of the ladder (see Figure 2).

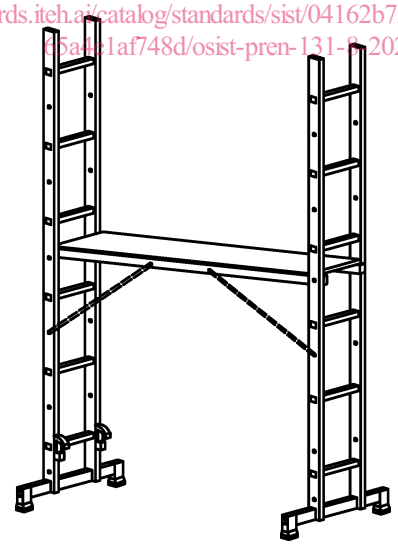


Figure 2 — Example of a ladder with separate platform

5.3.2 The platform shall meet all of the material requirements of EN 131-2:2010+A2:2017, 4.2.

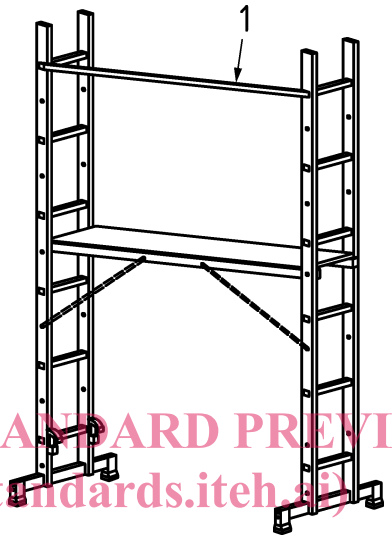
5.3.3 If the platform or structural parts of the platform are made from plastic they shall be made from reinforced thermoplastics and shall be tested according to the requirements of EN 131-2, test methods for plastic ladders – reinforced thermoplastics. The acceptance criteria before and after the ageing test shall be ≤ 20 % of the results obtained at the time of the tensile test.

5.3.4 Metal parts susceptible to corrosion shall be protected by means of a paint coating or other coating. Under normal conditions aluminium alloys are not susceptible to corrosion. Wooden parts shall be coated on all sides. The coating shall be transparent and permeable to water vapour.

5.3.5 In order to avoid injuries, accessible edges, corners, and protruding parts shall be free of burrs, for example chamfered or rounded. Wooden parts shall be smoothed on all sides.

5.3.6 All connections should be durable and have a strength corresponding to the strain.

5.3.7 If the product has a crossbar it shall meet the requirements of 6.9, test for crossbar.



Key

1 Crossbar

Figure 3 — Example of a crossbar

5.3.8 Connections should be designed in a manner that arising notch tensions remain low. Screws and nuts shall be secured against unintentional loosening, e.g. by means of self-locking or mechanically locked safety devices.

Nails are allowed only if their function is related to the production process, e.g. fixation during the drying of glues.

5.3.9 The platform shall have slip resistant upper surface. The contact surface of any coverings which provide the slip resistant surface shall adhere firmly to the platform.

5.3.10 The platform and ladders shall be designed so that it is not possible to position the platform with its upper surface more than 1 000 mm from the ground on both ladders (see Figure 4). A marking is not sufficient to limit the maximum platform height.

Dimensions in millimetres

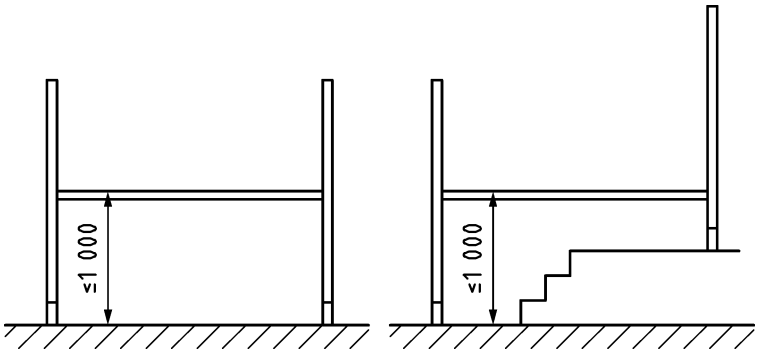


Figure 4 — Maximum platform heights

5.3.11 Wheels on the ladder are not permitted.

NOTE These products are not intended to be mobile.

5.3.12 All components of the product required to pass the tests according to this standard shall be permanently attached to the product and shall not be removeable without the use of tools. All of the parts that are used to create the platform position of the product shall not be removeable without the use of tools from the components.

5.3.13 The use of ballast is not permitted as a means of stabilizing the product to prevent overturning when tested according to 6.4 and 6.5.

6 Testing

6.1 General

The ladder shall be tested in accordance with EN 131 in EN 131-2, and if applicable, EN 131-4 or EN 131-6.

Testing in the platform position shall be conducted on the complete assembly of the platform and ladder sections with the platform set in the working position and at its maximum height. The weight of the steel plate is included in the pre-load, test load or vertical load.

6.2 Bending test of the platform

6.2.1 Procedure

Carry out the test with a load placed in the most unfavourable position at the centre of each decking component (see Figure 5). The test force of 1 000 N is distributed over a 200 mm × 200 mm rigid steel plate. The weight of the steel plate is included in the test load.