

**SLOVENSKI STANDARD
SIST EN ISO 14122-2:2002****01-november-2002**

Varnost strojev - Stalni dostopi do strojev in postrojenj - 2. del: Delovne ploščadi in podesti (ISO 14122-2:2001)

Safety of machinery - Permanent means of access to machinery - Part 2: Working platforms and walkways (ISO 14122-2:2001)

Sicherheit von Maschinen - Ortsfeste Zugänge zu maschinellen Anlagen - Teil 2: Arbeitsbühnen und Laufstege (ISO 14122-2:2001)

Sécurité des machines - Moyens d'accès permanents aux machines - Partie 2: Plates-formes de travail et passerelles (ISO 14122-2:2001)

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Ta slovenski standard je istoveten z: EN ISO 14122-2:2001**ICS:**

13.110 Varnost strojev Safety of machinery

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 14122-2

May 2001

ICS 13.110

English version

**Safety of machinery - Permanent means of access to machinery
- Part 2: Working platforms and walkways (ISO 14122-2:2001)**

Sécurité des machines - Moyens d'accès permanents aux machines - Partie 2: Plates-formes de travail et passerelles (ISO 14122-2:2001)

Sicherheit von Maschinen - Ortsfeste Zugänge zu maschinellen Anlagen - Teil 2: Arbeitsbühnen und Laufstege (ISO 14122-2:2001)

This European Standard was approved by CEN on 14 February 2000.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Contents

Foreword.....	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions.....	6
4 General requirements.....	6
4.1 General.....	6
4.1.1 Construction and materials	6
4.1.2 Safety of operators	7
4.2 Specific requirements	7
4.2.1 Location	7
4.2.2 Dimensions.....	7
4.2.3 Facilities or equipment.....	8
4.2.4 Floorings.....	8
4.2.5 Design loads.....	10
5 Assembly instructions	10
Annex A (informative) Different methods of determining levels of slip-resistance	11
Annex ZA (informative) Relationship of this European standard with EC Directives	12
Bibliography	13

[SIST EN ISO 14122-2:2002](https://standards.iteh.ai/catalog/standards/sist/c2044fbb-2748-437c-bd7b-e54d32ee34dc/sist-en-iso-14122-2-2002)

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Foreword

The text of EN ISO 14122-2:2001 has been prepared by Technical Committee CEN/TC 114 "Safety of machinery", the secretariat of which is held by DIN, in collaboration with Technical Committee ISO/TC 199 "Safety of machinery".

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 November 2001, and conflicting national standards shall be withdrawn at the latest by November 2001.

This European Standard has been prepared under a mandate 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 standard.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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Introduction

EN ISO 14122 consists of the following parts, under the general title "Safety of machinery - Permanent means of access to machinery" :

Part 1 : Choice of a fixed means of access between two levels

Part 2 : Working platforms and walkways

Part 3 : Stairs, stepladders and guard-rails

Part 4 : Fixed ladders.

This part of EN ISO 14122 is a type B standard as stated in EN 1070.

This document is to be read in conjunction with clause 1.6.2 "Access to operating position and servicing points" and 1.5.15 "Risk of slipping, tripping or falling" of the essential safety requirements expressed in annex A of EN 292-2:1991/A1:1995. See also 6.2.4 "Provision for safe access to machinery" of EN 292-2:1991.

For the significant hazards covered by this standard, see clause 4 of EN ISO 14122-1.

The provisions of this document may be supplemented or modified by a type C standard.

NOTE 1 For machines which are covered by the scope of a type C standard and which have been designed and built according to the provisions of that standard, the provisions of that type C standard take precedence over the provisions of this type B standard.

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The dimensions specified are consistent with established ergonomic data given in EN 547-3 "Safety of machinery - Human body dimensions – Part 3 : Anthropometric data".

NOTE 2 The use of materials other than metals (composite materials, so-called "advanced" materials, etc.) does not alter the application of the present standard.

Annexes A and ZA are for information only.

This part of EN ISO 14122 contains a Bibliography.

1 Scope

EN ISO 14122 defines the general requirements for safe access to machines mentioned in EN 292-2. Part 1 of EN ISO 14122 gives advice about the correct choice of access means when the necessary access to the machine is not possible directly from the ground level or from a floor.

This part of EN ISO 14122 applies to all machinery (stationary and mobile) where fixed means of access are necessary.

This part of EN ISO 14122 applies to working platforms and walkways which are a part of a machine.

This part of EN ISO 14122 may also apply to working platforms and walkways to that part of the building where the machine is installed, providing the main function of that part of the building is to provide a means of access to the machine.

NOTE This part of EN ISO 14122 may be used also for means of access which are outside the scope of this standard. In those cases the possible relevant national or other regulations should be taken into account.

This part of EN ISO 14122 applies also to working platforms and walkways specific to the machine which are not permanently fixed to the machine and which may be removed or moved to the side for some operations of the machine (e.g. changing tools in a large press).

This part of EN ISO 14122 does not apply to lifts, to moveable elevating platforms or other devices specially designed to lift persons between two levels.

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2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 292—1 (ISO/TR 12100-1), *Safety of machinery — Basic concepts, general principles for design — Part 1 : Basic terminology, methodology*

EN 292-2/A1 (ISO/TR 12100-2), *Safety of machinery — Basic concepts, general principles for design — Part 2 : Technical principles and specifications*

EN 294 (ISO 13852), *Safety of machinery — Safety distances to prevent danger zones being reached by the upper limbs*

EN 547-1, *Safety of machinery — Human body dimensions — Part 1 : Principles for determining the dimensions required for openings for whole body access into machinery*

EN 547-2, *Safety of machinery — Human body dimensions — Part 2 : Principles for determining the dimensions required for access openings*

EN 547-3, *Safety of machinery — Human body dimensions — Part 3 : Anthropometric data*

EN 1070, *Safety of machinery — Terminology*

EN ISO 14122-1, *Safety of machinery — Permanents means of access to machinery — Part 1 : Choice of fixed means of access between two levels*

EN ISO 14122-3:2001, *Safety of machinery — Permanents means of access to machinery — Part 3 : Stairs, stepladders and guard-rails*

3 Terms and definitions

For the purposes of this part of EN ISO 14122, the terms and definitions stated in EN 1070 "Safety of machinery - Terminology" and of EN ISO 14122-1 apply.

The following additional definitions particularly required for this standard apply :

3.1

flooring

assembly of elements making up the floor of a walkway or a working platform and being in direct contact with footwear

3.2

walkway

level surface used for moving from one point to another

3.3

working platform

level surface used for the operation, maintenance, inspection, repair, sampling and other phases of work in connection with the machinery

3.4

slip resistant surface

flooring surface designed for improving the grip of footwear

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4 General requirements

Walkways and working platforms shall comply with the following general safety requirements:

4.1 General

The working platforms and walkways shall be designed, constructed, located and where necessary protected so that the operators are safe when having access to the working platforms and when they are on them for the operation, setting, monitoring, repairing or any other work involved with the machinery.

4.1.1 Construction and materials

Working platforms and walkways shall be designed and constructed and the materials selected so that they withstand the foreseeable conditions of use. In particular, at least the following details shall be considered:

- a) dimensioning and selection of components (including fixings, connections, supports and foundations) to ensure sufficient rigidity and stability;
- b) resistance of all parts to environmental effects (such as climate, chemical agents, corrosive gases) e.g. by the use of a corrosion resistant material or with the aid of a suitable protective coating;
- c) positioning of constructional elements so that water cannot be accumulated e.g. in the joints;
- d) use of compatible materials e.g. to minimise galvanic action or differential thermal expansion;
- e) dimension of walkways and working platforms shall be according to available anthropometric data (see 4.2.2 of this standard, see also EN 547-1 and EN 547-3);

f) walkways and working platforms shall be designed and constructed to prevent the hazards due to falling objects. For guard-rails and toe plates, see clause 7 of EN ISO 14122-3:2001 and for openings in the flooring, see 4.2.4.4 of this standard;

g) the removal of any part of the machine shall, as far as practicable, be possible without removing guard-rails, pieces of flooring or other permanent protective barriers.

4.1.2 Safety of operators

Walkways and working platforms shall be designed and constructed so that they are safe to use. In particular, the following details shall at least be considered:

a) all parts likely to be in contact with operators shall be designed and built in such a way that the operator is safe-guarded against injuries;

b) walkways and working platforms shall be designed and built in such a way that the walking surfaces have durable slip resistant properties;

c) the parts of machinery which operators have to walk or stand on shall be designed and fitted out to prevent persons falling from them (see EN ISO 14122-3);

d) working platforms and access to working platforms shall be laid out in such a way that operators can quickly leave their workplace in the event of a hazard or can be quickly helped and easily evacuated when necessary;

e) handrails and other supports shall be designed, built and laid out in such a way that they are used instinctively.

4.2 Specific requirements

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4.2.1 Location

As far as possible, walkways and working platforms shall be located away from the emission of harmful materials or substances. The walkways and walking platforms shall also be located away from the accumulation of material, such as earth, which is likely to cause slipping.

Where there are moving objects, non protected hot surfaces, unprotected live electrical equipment, etc., safety distances shall be applied in accordance with EN 294.

Working platforms shall be located in such a way as to allow people to work in an ergonomic position, if possible, between 500 mm and 1700 mm, above the surface of the working platform.

4.2.2 Dimensions

The clear length and width of walkways and working platforms intended for operation and maintenance shall be determined by:

a) the demands of the task e.g. positions, nature and speed of movement, application of force, etc.;

b) whether or not tools, spare parts etc. are being carried;

c) frequency and duration of task and use;