



SLOVENSKI STANDARD SIST EN ISO 12499:2009

01-april-2009

Industrial fans - Mechanical safety of fans - Guarding (ISO 12499:1999)

Industrial fans - Mechanical safety of fans - Guarding (ISO 12499:1999)

Ventilateurs industriels - Sécurité mécanique des ventilateurs - Protecteurs (ISO 12499:1999)

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Ta slovenski standard je istoveten z: EN ISO 12499:2008

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ICS:

23.120 Ventilators. Fans. Air-conditioners

SIST EN ISO 12499:2009

en

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English Version

Industrial fans - Mechanical safety of fans - Guarding (ISO
12499:1999)

Ventilateurs industriels - Sécurité mécanique des
ventilateurs - Protecteurs (ISO 12499:1999)

This European Standard was approved by CEN on 2 October 2008.

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 CEN 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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

The text of ISO 12499:1999 has been prepared by Technical Committee ISO/TC 117 “Industrial fans” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 12499:2008 by Technical Committee CEN/TC 156 “Ventilation for buildings” the secretariat of which is held by BSI.

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 April 2009, and conflicting national standards shall be withdrawn at the latest by April 2009.

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

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

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Endorsement notice

The text of ISO 12499:1999 has been approved by CEN as a EN ISO 12499:2008 without any modification.

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**Industrial fans — Mechanical safety
of fans — Guarding**

*Ventilateurs industriels — Sécurité mécanique des ventilateurs —
Protecteurs*

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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.

International Standard ISO 12499 was prepared by Technical Committee ISO/TC 117 *Industrial fans*.

Annex A of this International Standard is for information only.

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Introduction

This International Standard is intended to provide designers, users and installers with information on the safety aspects of fixed guards for use with industrial fans.

Since fans, by the nature of the function they perform, contain rotating parts, they present a mechanical hazard which has to be minimized or avoided. As a fan does not usually have to be accessible during "normal operation", a fixed guard can be applied. This can be removed during "ancillary operations" as necessary for servicing or maintenance.

As the scope of this International Standard covers a particular form of guarding as well as its design and use for a specific range of products, it is a type C standard, as defined by the European Committee for Standardization.

It complies with ISO/TR 12100-1, ISO/TR 12100-2 and EN 414, as well as ISO 13852.

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Industrial fans — Mechanical safety of fans — Guarding

1 Scope

This International Standard specifies requirements for the mechanical guarding of industrial fans.

The circumstances under which safety measures shall be taken are described and information on how hazards can be reduced or eliminated is given, along with guidance on safety practices and information for use.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3864:1984¹⁾, *Safety colours and safety signs*.

ISO 13349: —²⁾, *Industrial fans — Vocabulary and definitions of categories*.

ISO 13852:1996, *Safety of machinery — Safety distances to prevent danger zones being reached by the upper limbs*.

ISO 14120: —²⁾, *Safety of machinery — General requirements for the design and construction of guards (fixed, movable)*.

3 Definitions

For the purposes of this International Standard, the definitions given in ISO 13349 and the following definitions apply.

3.1

industrial fan

any fan used for industrial purposes, including the ventilation of buildings and mines but excluding ceiling, pedestal and similar circulation type fans such as those commonly used for non- industrial purposes

3.2

normal operation

operation when the fan impeller is rotating and the fan is fulfilling its designed function of moving air

3.3

ancillary operation

operation when the fan impeller is stationary and all power to the fan has been disconnected to allow such activities as maintenance, cleaning, adjustment or troubleshooting to take place

¹⁾ To be revised, in parts.

²⁾ To be published.