



SLOVENSKI STANDARD SIST EN ISO 24501:2011

01-julij-2011

Ergonomija - Dostopno načrtovanje - Ravni zvočnega tlaka slišnih signalov za proizvode, namenjene potrošnikom (ISO 24501:2010)

Ergonomics - Accessible design - Sound pressure levels of auditory signals for consumer products (ISO 24501:2010)

Ergonomie - Zugängliche Gestaltung - Schalldruckpegel von akustischen Signalen für Konsumgüter (ISO 24501:2010)

Ergonomie - Conception accessible - Niveaux de pression acoustique des signaux auditifs pour produits de consommation courante (ISO 24501:2010)

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13.180

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EUROPEAN STANDARD

EN ISO 24501

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2010

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English Version

Ergonomics - Accessible design - Sound pressure levels of auditory signals for consumer products (ISO 24501:2010)

Ergonomie - Conception accessible - Niveaux de pression acoustique des signaux auditifs pour produits de consommation courante (ISO 24501:2010)

Ergonomie - Zugängliche Gestaltung - Schalldruckpegel von akustischen Signalen für Konsumgüter (ISO 24501:2010)

This European Standard was approved by CEN on 14 December 2010.

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Foreword

This document (EN ISO 24501:2010) has been prepared by Technical Committee ISO/TC 159 "Ergonomics" in collaboration with Technical Committee CEN/TC 122 "Ergonomics" the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by June 2011, and conflicting national standards shall be withdrawn at the latest by June 2011.

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.

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INTERNATIONAL STANDARD

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First edition
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Ergonomics — Accessible design — Sound pressure levels of auditory signals for consumer products

*Ergonomie — Conception accessible — Niveaux de pression
acoustique des signaux auditifs pour produits de consommation
courante*

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ISO 24501:2010(E)**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.

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.

ISO 24501 was prepared by Technical Committee ISO/TC 159, *Ergonomics*, Subcommittee SC 5, *Ergonomics of the physical environment*.

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Introduction

People conduct their daily lives surrounded by various consumer products. Consumer products, as defined in ISO 20282-1, include home electrical appliances, information and telecommunication products, gas-heating equipment, toys, sanitary equipment, and health-care products, many of which use auditory signals. These auditory signals can be indistinct because of the hearing loss which occurs with ageing or because of interfering sounds in the surroundings. Also, with age, our visual ability declines gradually. Auditory signals with an appropriate sound level can assist product users with auditory or visual impairment in using the product correctly and safely.

This International Standard specifies methods for determining an appropriate sound level range of auditory signals, so that all product users, including people with age-related hearing loss, can hear them properly against interfering sounds. This sound level range specification was determined, based on results of experiments in which people of all ages participated. Auditory signals whose sound pressure level is in that range are expected to be audible and comfortably loud for most users in the presence of interfering sounds.

This International Standard should be applied as appropriate to products, depending on the product type and its conditions of use. It does not apply to machines and equipment used for professional work.

This International Standard adopts the principles of accessible design given in ISO/IEC Guide 71 and amplified in ISO/TR 22411.

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