



SLOVENSKI STANDARD SIST EN ISO 24504:2017

01-januar-2017

Ergonomija - Dostopno načrtovanje - Ravni zvočnega tlaka pri govorjenih objavah za proizvode in sisteme javnega obveščanja (ISO 24504:2014)

Ergonomics - Accessible design - Sound pressure levels of spoken announcements for products and public address systems (ISO 24504:2014)

Ergonomie - Barrierefreie Gestaltung - Schalldruckpegel gesprochener Ansagen für Produkte und öffentliche Lautsprecheranlagen (ISO 24504:2014)

Ergonomie - Conception accessible - Niveaux de pression acoustique des annonces vocales pour les produits et systèmes de sonorisation (ISO 24504:2014)

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Ta slovenski standard je istoveten z: EN ISO 24504:2016

ICS:

13.180

Ergonomija

Ergonomics

SIST EN ISO 24504:2017

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EUROPEAN STANDARD

EN ISO 24504

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2016

ICS 13.180

English Version

Ergonomics - Accessible design - Sound pressure levels of spoken announcements for products and public address systems (ISO 24504:2014)

Ergonomie - Conception accessible - Niveaux de pression acoustique des annonces vocales pour les produits et systèmes de sonorisation (ISO 24504:2014)

Ergonomie - Barrierefreie Gestaltung - Schalldruckpegel von gesprochenen Ansagen für Produkte und öffentliche Lautsprecheranlagen (ISO 24504:2014)

This European Standard was approved by CEN on 27 May 2016.

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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-CENELEC Management Centre has the same status as the official versions.

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European foreword

The text of ISO 24504:2014 has been prepared by Technical Committee ISO/TC 159 “Ergonomics” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 24504:2016 by 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of an identical text or by endorsement, at the latest by December 2016, and conflicting national standards shall be withdrawn at the latest by December 2016.

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
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**Ergonomics — Accessible design
— Sound pressure levels of spoken
announcements for products and
public address systems**

*Ergonomie — Conception accessible — Niveaux de pression
acoustique des annonces vocales pour les produits et systèmes de
sonorisation*

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ISO 24504:2014(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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 159, *Ergonomics*, Subcommittee SC 5, *Ergonomics of the physical environment*.

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Introduction

Today, people conduct their daily lives along with spoken announcements from various products such as home electrical appliances, information and telecommunication products, office-automation equipment, heating equipment, toys, sanitary equipment, and health care products. Some products use spoken announcements to provide instructions in indoor and outdoor public areas such as ticket vending machines, elevators, and escalators. Public address systems are often installed to provide spoken announcements. Such announcements can be indistinct to listeners because of hearing loss that can occur with ageing or because of ambient noise in the surroundings.

This International Standard specifies methods for determining an appropriate sound level range of spoken announcements so that all listeners, including people with age-related hearing loss, can hear them properly against ambient noises. This sound level range specification was determined based on results of experiments in which people of different ages participated. Spoken announcements for which sound pressure levels are within the range specified in this International Standard are expected to be audible and comfortably loud for most users in the presence of ambient noise.

This International Standard is intended to be applied as necessary to products depending on the product type and its conditions of use. It does not apply to spoken announcements used for evacuation or emergency purposes.

ISO 9921 specifies recommended levels of speech-communication quality necessary for conveying comprehensive messages in different applications. Therefore, ISO 9921 differs from this International Standard.

This International Standard adopts the principles of accessible design from ISO/IEC Guide 71, which are amplified in ISO/TR 22411.

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