

# SVENSK STANDARD

## SS-EN ISO 24500:2010



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**Ergonomi – Tillgänglighetsdesign – Ljudsignaler för  
konsumentprodukter (ISO 24500:2010)**

**Ergonomics – Accessible design – Auditory signals for  
consumer products (ISO 24500:2010)**



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Europastandarden EN ISO 24500:2010 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN ISO 24500:2010.

The European Standard EN ISO 24500:2010 has the status of a Swedish Standard. This document contains the official version of EN ISO 24500:2010.

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*Information about the content of the standard is available from the Swedish Standards Institute (SIS), telephone +46 8 555 520 00. Standards may be ordered from SIS Förlag AB, who can also provide general information about Swedish and foreign standards.*

Denna standard är framtagen av kommittén för Ergonomi, SIS/TK 380.

Har du synpunkter på innehållet i den här standarden, vill du delta i ett kommande revideringsarbete eller vara med och ta fram andra standarder inom området? Gå in på [www.sis.se](http://www.sis.se) - där hittar du mer information.



EUROPEAN STANDARD

**EN ISO 24500**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2010

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ICS 11.180.15; 13.180

English Version

## Ergonomics - Accessible design - Auditory signals for consumer products (ISO 24500:2010)

Ergonomie - Conception accessible - Signaux auditifs pour produits de consommation courante (ISO 24500:2010)

Ergonomie - Zugängliche Gestaltung - Akustische Signale für Konsumgüter (ISO 24500:2010)

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

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## Foreword

The text of ISO 24500:2010 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 24500:2010 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of an identical text or by endorsement, at the latest by April 2011, and conflicting national standards shall be withdrawn at the latest by April 2011.

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### Endorsement notice

The text of ISO 24500:2010 has been approved by CEN as a EN ISO 24500:2010 without any modification.

## Introduction

People are surrounded by various consumer products: home electrical appliances, information and communication products, office-automation equipment, gas-heating equipment, toys, sanitary equipment, health-care products, cameras, etc. Auditory signals of such products must be designed so that the user can easily hear the signals in various circumstances where the product is normally used, and understand the objective and meaning of signalling.

This International Standard has been developed for improving the usability and accessibility of auditory signals used in such consumer products, thereby improving the products themselves when they are used by all people, including those with visual impairments and older people with age-related hearing impairments. Older people include those aged 65 and above for whom age-related changes of hearing become obvious.

The auditory-signal patterns specified in this International Standard were selected based on results of experiments in which people of different age ranges and with different levels of visual impairment participated. Regarding the signals, it was confirmed that the purpose of signalling was easy for listeners to understand and that the signals were not easily confused with signals in other signal categories.

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