

# **Ergonomics - Accessible design - Tactile dots and bars on consumer products (ISO 24503:2011)**

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 24503:2011 sisaldab Euroopa standardi EN ISO 24503:2011 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 28.02.2011 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 01.02.2011.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN ISO 24503:2011 consists of the English text of the European standard EN ISO 24503:2011.

This standard is ratified with the order of Estonian Centre for Standardisation dated 28.02.2011 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 01.02.2011.

The standard is available from Estonian standardisation organisation.

ICS 11.180.30, 13.180

### Standardite reprodutseerimis- ja levitamiseõigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonilisse süsteemi või edastamine ükskõik millises vormis või millisel teel on keelatud ilma Eesti Standardikeskuse poolt antud kirjaliku loata.

Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:  
Aru 10 Tallinn 10317 Eesti; [www.evs.ee](http://www.evs.ee); Telefon: 605 5050; E-post: [info@evs.ee](mailto:info@evs.ee)

### Right to reproduce and distribute belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without permission in writing from Estonian Centre for Standardisation.

If you have any questions about standards copyright, please contact Estonian Centre for Standardisation:  
Aru str 10 Tallinn 10317 Estonia; [www.evs.ee](http://www.evs.ee); Phone: 605 5050; E-mail: [info@evs.ee](mailto:info@evs.ee)

English Version

Ergonomics - Accessible design - Tactile dots and bars on  
consumer products (ISO 24503:2011)

Ergonomie - Conception accessible - Utilisation des points  
et barres tactiles sur les produits de consommation  
courante (ISO 24503:2011)

Ergonomie - Zugängliche Gestaltung - Taktile Punkte und  
Striche auf Konsumgütern (ISO 24503:2011)

This European Standard was approved by CEN on 29 January 2011.

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

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, 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.



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

## Foreword

This document (EN ISO 24503:2011) 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 August 2011, and conflicting national standards shall be withdrawn at the latest by August 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.

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, Croatia, 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.

### Endorsement notice

The text of ISO 24503:2011 has been approved by CEN as a EN ISO 24503:2011 without any modification.

## Introduction

Consumers are surrounded by various kinds of consumer products having switches to control electric operation in devices such as information and communication technologies, office technologies, cooking units, toys, bathroom devices, personal medical devices, cameras, etc. This International Standard provides requirements for improving the accessibility of the consumer products used by people having visual disabilities, and in cases where visual information is not the primary sense used for accomplishing the task.

This International Standard only applies to products for personal use and is not for commercial, professional, or industrial use.

This International Standard is based on the principles of accessible design set out in ISO/IEC Guide 71, *Guidelines for standards developers to address the needs of older persons and persons with disabilities*.

This document is a preview generated by EVS

# Ergonomics — Accessible design — Tactile dots and bars on consumer products

## 1 Scope

This International Standard specifies requirements for the design of tactile dots and tactile bars for use on consumer products to improve accessibility for everyone, including older persons and persons with disabilities.

This International Standard is applicable to consumer products used by persons with visual disabilities, and in cases where visual information is not the primary sense used for accomplishing the task.

Alternative tactile methods, such as texture and vibration, and other tactile symbols, such as triangles and squares, are not covered in this International Standard.

Alternative feedback methods, such as in acoustic and visual modalities, are not covered in this International Standard.

## 2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 2.1

#### **consumer product**

product that is intended to be acquired and used by an individual for personal rather than professional use

### 2.2

#### **control**

device that directly responds to an action of the operator, e.g. by the operator applying pressure

### 2.3

#### **function**

action that is triggered by the operation of a control

NOTE In this International Standard, functions are limited to starting/stopping and increasing/decreasing.

### 2.4

#### **tactile symbol**

sign identifiable and recognizable by touch

### 2.5

#### **tactile dot**

dot-shaped tactile symbol

### 2.6

#### **tactile bar**

bar-shaped tactile symbol