

**Toote standard mobiiltelefonide  
vastavusest peamistele piirangutele  
seoses inimese tundlikkusega  
elektromagnetiliste väljade suhtes (300  
MHz – 3 GHz)**

Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields (300 MHz - 3 GHz)

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 50360:2002 sisaldab Euroopa standardi EN 50360:2001 ingliskeelset teksti.	This Estonian standard EVS-EN 50360:2002 consists of the English text of the European standard EN 50360:2001.
Käesolev dokument on jõustatud 10.09.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.	This document is endorsed on 10.09.2002 with the notification being published in the official publication of the Estonian national standardisation organisation.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

<b>Käsitlusala:</b> This product standard applies to any transmitting devices intended to be used with the radiating part of the equipment in close proximity to the human ear (e.g mobile phones, cordless phones, etc.). The frequency range covered is 300 MHz to 3 GHz	<b>Scope:</b> This product standard applies to any transmitting devices intended to be used with the radiating part of the equipment in close proximity to the human ear (e.g mobile phones, cordless phones, etc.). The frequency range covered is 300 MHz to 3 GHz
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**ICS** 33.100.01

**Võtmesõnad:** conformity testing, definition, definitions, effects, electromagnetic compatibility, electromagnetic fields, exposure, limits (mathematics), magnetic fields, mathematics, mobile radio systems, telecommunication

**Product standard to demonstrate the compliance of mobile phones  
with the basic restrictions related to human exposure  
to electromagnetic fields (300 MHz - 3 GHz)**

Norme de produit pour la mesure  
de conformité des téléphones mobiles  
aux restrictions de base relatives à  
l'exposition des personnes aux champs  
électromagnétiques (300 MHz - 3 GHz)

Produktnorm zum Nachweis der  
Übereinstimmung von Mobiltelefonen  
mit den Basisgrenzwerten hinsichtlich  
der Sicherheit von Personen in  
elektromagnetischen Feldern  
(300 MHz bis 3 GHz)

This European Standard was approved by CENELEC on 2001-07-03. CENELEC 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 Central Secretariat or to any CENELEC 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 CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

## CENELEC

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 211, Electromagnetic fields in the human environment.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 50360 on 2001-07-03.

The following dates were fixed:

- latest date by which the EN has to be implemented  
at national level by publication of an identical  
national standard or by endorsement (dop) 2002-03-01
  - latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2003-03 -01
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## 1 Scope

This product standard applies to any transmitting devices intended to be used with the radiating part of the equipment in close proximity to the human ear (e.g. mobile phones, cordless phones, etc.). The frequency range covered is 300 MHz to 3 GHz.

The object of this standard is to demonstrate the compliance of such equipment with the basic restrictions related to human exposure to radio frequency electromagnetic fields.

## 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 50361, *Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz - 3 GHz)*

Council Recommendation 1999/519/EC of 12 July 1999 *on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)* (Official Journal L 197 of 30 July 1999).

International Commission on Non-Ionising Radiation Protection (1998), Guidelines for limiting exposure in time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz). Health Physics 74, 494-522.

## 3 Definitions

For the purposes of this European Standard, the following definitions apply.

### 3.1.1

#### **basic restrictions**

restrictions on exposure to time-varying electric, magnetic, and electromagnetic fields that are based directly on established health effects. Concerning the frequency range of this standard, the physical quantity used is the Specific Absorption Rate (SAR)

### 3.1.2

#### **mobile phone**

for the purpose of this standard, the term "mobile phone" covers the equipment within the scope of this standard

### 3.1.3

#### **Specific Absorption Rate (SAR)**

physical quantity in which the basic restrictions of protection guidelines are defined in the frequency range specified in the scope