

საქართველოს სტანდარტი

მანქანა-დანადგარების უსაფრთხოება - ადამიანის ანთროპომეტრული
ზომები - ნაწილი 2: საჭირო ანთროპომეტრული ზომების განსაზღვრის
პრინციპები

საქართველოს სტანდარტებისა და მეტროლოგიის
ეროვნული სააგენტო
თბილისი

სსტ ენ 547-2:1996+A1:2008/2019

საინფორმაციო მონაცემები

1 შემუშავებულია საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს სტანდარტების დეპარტამენტის მიერ

2 დამტკიცებულია და შემოღებულია სამოქმედოდ საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს 2019 წლის 6 დეკემბრის № 98 განკარგულებით

3 მიღებულია გარეკანის თარგმნის მეთოდით სტანდარტიზაციის ევროპული კომიტეტის სტანდარტი ენ 547-2:1996+A1:2008 „მანქანა-დანადგარების უსაფრთხოება - ადამიანის ანთროპომეტრული ზომები - ნაწილი 2: საჭირო ანთროპომეტრული ზომების განსაზღვრის პრინციპები”

4 პირველად

5 რეგისტრირებულია საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს რეესტრში: 2019 წლის 6 დეკემბერი №268-1.3-016168

დაუშვებელია წინამდებარე სტანდარტის სრული ან ნაწილობრივი კვლავწარმოება, ტირაჟირება და გავრცელება სსიპ საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტოს ნებართვის გარეშე

English Version

**Safety of machinery - Human body measurements - Part 2:
Principles for determining the dimensions required for access
openings**

Sécurité des machines - Mesures du corps humain - Partie
2: Principes de détermination des dimensions requises
pour les orifices d'accès

Sicherheit von Maschinen - Körpermaße des Menschen -
Teil 2: Grundlagen für die Bemessung von
Zugangsöffnungen

This European Standard was approved by CEN on 15 November 1996 and includes Amendment 1 approved by CEN on 14 August 2008.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, 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: rue de Stassart, 36 B-1050 Brussels

Contents

Page

Foreword.....	3
Introduction	4
1 Scope	4
2 Normative references	4
3 General requirements.....	5
4 Access openings	5
Annex A (normative) Application of the measurements in practice.....	11
A.0 Introduction	11
A.1 Principles for determining additional space	11
A.2 Additional space requirements for access openings	12
A.2.1 Access opening for the upper body and arms (see 4.1).....	12
A.2.2 Access opening for the head up to the shoulders for inspection tasks (see 4.2)	12
A.2.3 Access opening for both arms (see 4.3)	12
A.2.4 Access opening for both lower arms up to elbow (see 4.4).....	12
A.2.5 Access opening to the side for one arm up to shoulder joint (see 4.5)	13
A.2.6 Access opening for a lower arm up to the elbow (see 4.6)	13
A.2.7 Access opening for fist (see 4.7).....	13
A.2.8 Access opening for flat hand to wrist, including thumb (see 4.8).....	13
A.2.9 Access opening for flat hand (four fingers) to base of thumb (see 4.9).....	13
A.2.10 Access opening for index finger, restricted by the other fingers (see 4.10)	14
A.2.11 Access opening for one foot to ankle bone (see 4.11)	14
A.2.12 Access opening for forefoot operated controls (see 4.12).....	14
Annex B (informative) Position of access openings	15
B.1 This Annex gives information on the position of access openings to facilitate access for the intended user population.	15
B.2 Provision for adjustability.....	15
B.3 Conditions to be met with in location of access openings	15
B.3.1 Access opening for the upper body and arms (see 4.1).....	16
B.3.2 Access opening for the head as far as the shoulders for inspection tasks (see 4.2)	17
B.3.3 Access opening for both arms (either forward or downward) (see 4.3)	18
B.3.4 Access opening for both lower arms up to the elbow, either forward or downward (see 4.4).....	19
B.3.5 Opening for access to the side for one arm up to the shoulder joint (see 4.5).....	20
B.3.6 Access opening for one lower arm up to the elbow (see 4.6).....	21
B.3.7 Access opening for fist (see 4.7).....	22
B.3.8 Access opening for flat hand to wrist, including thumb (see 4.8).....	22
B.3.9 Access opening for flat hand (four fingers) to base of thumb (see 4.9)	22
B.3.10 Access opening for index finger, restricted by the other fingers (see 4.10)	22
B.3.11 Access opening for one foot to ankle bone (see 4.11)	22
B.3.12 Access opening for forefoot operated controls (see 4.12).....	22
Annex C (informative) Notations for dimensions and anthropometric body measurements	23
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC, amended by 98/79/EC A1	25
Annex ZB (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC A1	26
Bibliography	27

Foreword

This document (EN 547-2:1996+A1:2008) has been prepared 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 March 2009, and conflicting national standards shall be withdrawn at the latest by December 2009.

This document includes Amendment 1, approved by CEN on 2008-08-14.

This document supersedes EN 547-2:1996.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **A1** **A1**.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

A1 For relationship with EU Directive(s), see informative Annexes ZA and ZB, which are integral parts of this document. **A1**

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, 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.