

**Akustika. Mürakatse kood kinnitusdetailide
siselöömise instrumentidele. Tehniline meetod
KONSOLIDEERITUD TEKST**

Acoustics - Noise test code for fastener driving tools -
Engineering method CONSOLIDATED TEXT

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 12549:2000+A1:2008 sisaldab Euroopa standardi EN 12549:1999+A1:2008 ingliskeelset teksti.</p> <p>Standard on kinnitatud Eesti Standardikeskuse 27.10.2008 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 24.09.2008.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 12549:2000+A1:2008 consists of the English text of the European standard EN 12549:1999+A1:2008.</p> <p>This standard is ratified with the order of Estonian Centre for Standardisation dated 27.10.2008 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p> <p>Date of Availability of the European standard text 24.09.2008.</p> <p>The standard is available from Estonian standardisation organisation.</p>
--	---

ICS 17.140.20, 25.140.99

Võtmesõnad:

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; Telefon: 605 5050; E-post: info@evs.ee

English Version

**Acoustics - Noise test code for fastener driving tools -
Engineering method**

Acoustique - Code d'essai acoustique pour les machines à
enfoncer les fixations - Méthode d'expertise

Akustik - Geräuschmessverfahren für Eintreibgeräte -
Verfahren der Genauigkeitsklasse 2

This European Standard was approved by CEN on 30 October 1998 and includes Amendment 1 approved by CEN on 26 July 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.....	4
Introduction	5
1 Scope	5
2 Normative references	5
3 Definitions	6
4 Description of fastener driving tools	6
5 Sound power level determination	6
5.1 Basic International Standards to be used	6
5.2 Measurement procedure	7
5.3 Calculation.....	8
5.4 Measurement uncertainty	8
6 Emission sound pressure level determination.....	9
6.1 Basic International Standards to be used	9
6.2 Selection of relevant work station	9
6.3 Measurement procedure	9
6.4 Measurement uncertainty	9
7 Installation and mounting conditions.....	9
7.1 General.....	9
7.2 Measuring instruments	10
7.3 Test environment.....	10
8 Operating conditions.....	10
8.1 General.....	10
8.2 Object to be measured and operating conditions	10
8.3 Workpiece	10
8.4 Workpiece support	11
8.5 Position of the fastener driving tool	11
9 Measurement uncertainties	11
10 Information to be recorded	11
10.1 General.....	11
10.2 Type and technical information on the fastener driving tool and the fasteners to be used (including limits)	11
10.3 Information about the operating conditions	11
10.4 Description of the measurement installation and surroundings.....	11
10.5 Measurement instruments used.....	11
10.6 Measured values and calculated results, containing.....	11
11 Information to be reported.....	12
12 Declaration and verification of noise emission values.....	12
Annex A (informative) Calculation of equivalent continuous emission sound pressure level	13
Annex B (informative) Model form for the declaration of noise emission values of fastener driving tools operated with compressed air	14
Annex C (informative) Bibliography	15

Annex ZA (informative)  Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC 	16
Annex ZB (informative)  Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC 	17

This document is a preview generated by EVS

Foreword

This document (EN 12549:1999+A1:2008) has been prepared by Technical Committee CEN/TC 255 "Hand-held, non-electric power tools - Safety", the secretariat of which is held by SIS.

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 2008-07-26.

This document supersedes EN 12549:1999.

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

Introduction

This noise test code describes methods for determining and presenting the acoustical characteristics of fastener driving tools.

The EC Machinery Directive prescribes that noise emission values for the machines in a defined process shall be stated. The manufacturer of fastener driving tools must indicate the operating conditions during the noise measurement and what methods have been used for the measurement.

1 Scope

This standard applies to fastener driving tools. The noise created by fastener driving tools directly affecting the surrounding environment (noise emission) should be calculated in a uniform procedure enabling comparison of the final results. This standard contains provisions concerning the execution of the measurement of airborne noise in the vicinity of fastener driving tools and the measurement of emission sound pressure levels at the work station under defined operating conditions.

The determination of the noise emission levels of fastener driving tools in accordance with this standard is valid for all actuating systems in accordance with EN 792-13.

The results can be used to compare the noise emissions of different fastener driving tools.

NOTE The special conditions at the work place (e.g. shape and foundation of the workpiece, quantity and frequency of the driving processes) can influence the noise emission to an important degree.

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.

EN 292-2, *Safety of machinery – Basic concepts, general principles for design – Part 2: Technical principles and specifications*

EN 792-13, *Handheld non-electric power tools - Safety requirements – Part 13: Fastener driving tools*

EN 60651, *Sound level meters*

EN 60804, *Integrating-averaging sound level meters*

EN ISO 3744, *Acoustics - Determination of sound power levels of noise sources using sound pressure - Engineering method in an essentially free field over a reflecting plane*

EN ISO 4871, *Acoustics - Declaration and verification of noise emission values of machinery and equipment*

EN ISO 11201, *Acoustics - Noise emitted by machinery and equipment - Measurement of emission sound pressure levels at a work station and at other specified positions - Engineering method in an essentially free field over a reflecting plane*