# Akustika. Mürakatse kood kinnitusdetailide sisselöömise instrumentidele. Tehniline meetod KONSOLIDEERITUD TEKST

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

EESTI STANDARDIKESKUS
ESTONIAN CENTRE FOR STANDARDISATION

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

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|---|---|
| Käesolev Eesti standard EVS-EN 12549:2000+A1:2008 sisaldab Euroopa standardi EN 12549:1999+A1:2008 ingliskeelset teksti. | This Estonian standard EVS-EN 12549:2000+A1:2008 consists of the English text of the European standard EN 12549:1999+A1:2008. |
| Standard on kinnitatud Eesti Standardikeskuse 27.10.2008 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas. | 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. |
| Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 24.09.2008. | Date of Availability of the European standard text 24.09.2008. |
| Standard on kättesaadav Eesti standardiorganisatsioonist. | The standard is available from Estonian standardisation organisation. |



**ICS** 17.140.20, 25.140.99

**Võtmesõnad:**

EUROPEAN STANDARD

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# EN 12549:1999+A1

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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.

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## 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of an identical text or by endorsement, at the latest by March 2009, and conflicting national standards shall be withdrawn at the latest by December 2009.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] ⟨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 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*