NSAI
Standards

Irish Standard
I.S. EN 50632-2-17:2016&A1:2021

Electric motor-operated tools - Dust measurement procedure - Part 2-17: Particular requirements for routers and trimmers

I.S. EN 50632-2-17:2016&A1:2021

Incorporating amendments/corrigenda/National Annexes issued since publication:

EN 50632-2-17:2016/A1:2021

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

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Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

I.S. EN 50632-2-17:2016&A1:2021 is the adopted Irish version of the European Document EN 50632-2-17:2016, Electric motor-operated tools - Dust measurement procedure - Part 2-17: Particular requirements for routers and trimmers

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 50632-2-17:2016/A1

September 2021

ICS 13.040.40; 25.140.20; 65.060.80

English Version

Electric motor-operated tools - Dust measurement procedure - Part 2-17: Particular requirements for routers and trimmers

Outils électriques à moteur - Procédure de mesure de la poussière - Partie 2-17: Exigences particulières pour les défonceuses

Motorbetriebene Elektrowerkzeuge - Staubmessverfahren - Teil 2-17: Besondere Anforderungen für Oberfräsen und Kantenfräsen

This amendment A1 modifies the European Standard EN 50632-2-17:2016; it was approved by CENELEC on 2021-08-09. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 CENELEC member.

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

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 50632-2-17:2016/A1:2021) has been prepared by CLC/TC 116 “Safety and environmental aspects of motor-operated electric tools”.

The following dates are fixed:

• latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2022-08-09
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2024-08-09

This amendment was developed to include improvements and clarifications suggested by practical tests.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Any feedback and questions on this document should be directed to the users’ national committee. A complete listing of these bodies can be found on the CENELEC website.

1 Modification to the European foreword

Replace *the 5th paragraph with the following:*

"This Part 2 is to be used in conjunction with EN 50632-1:2015 and its amendments."

2 Modifications to 4.3, "Operating conditions"

Replace *the existing Table 101 with the following:*

"

Table 101 — Operating conditions for routers intended for cutting wood

Material and set-up	Chipboard: P2 in accordance with EN 312:2010, density (610 ± 60) kg/m^3, thickness (19 ± 1) mm, width (400 ± 2) mm, any length *a*. The chipboard is mounted horizontally on a bench with a working height matching the requirement for the vertical distance between the upper surface of the workpiece and the intake openings of the **dust samplers** as specified in 4.2.
Orientation and operation	Milling of slots by means of a guide rail or rip fence, across the width of 400 mm, alternately in both directions. During the test, the operator and the workpiece shall be positioned as illustrated in Figure 101.
Tool bit/settings	Slotting cutter, HW, with a diameter as follows: — for **routers** with a rated input up to and including 1 200 W and for battery operated **routers**: 8 mm; — for **routers** with a rated input above 1 200 W: 12 mm; New cutter at the beginning of each of the three tests. Cutting depth = 8 mm. Distance between the slots = 10 mm. Speed setting devices, if any, shall be adjusted to the maximum setting specified by the manufacturer for cutting chipboard with the required bit diameter.
Feed force	The feed force applied to the tool shall be sufficient to ensure stable operation with good performance.
Test	During the working time of one test cycle, 15 slots as specified above are performed equally distributed over the working time. NOTE Cutting 15 slots in 10 min will require a working speed of 0,75 m/min, including sufficient time between the individual slots. If the above cannot be achieved within 10 min, the time is extended to allow the required number of slots to be cut.

"

***Replace** the existing Table 102 with the following:*

“

Table 102 — Operating conditions for trimmers intended for cutting wood

Material and set-up	Beech: (400 ± 2) mm x (400 ± 2) mm, thickness approximately 10 mm. At the beginning of the test the wood shall have a humidity of maximum 12 %. The workpiece is mounted horizontally on a bench with a working height matching the requirement for the vertical distance between the upper surface of the workpiece and the intake openings of the **dust samplers** as specified in 4.2.
Orientation and operation	Trimming all 400 mm edges (four of each side) of the workpiece with chamfers. The workpiece thereby is rotated on each side and turned upside down for processing the second side. During the test, the operator and the workpiece shall be positioned as illustrated in Figure 102.
Tool bit/settings	Cutter for 45° chamfer cuts. New cutter at the beginning of each of the three tests. Chamfer = 3 mm x 45°. Speed setting devices, if any, shall be adjusted to the maximum setting specified by the manufacturer for cutting beech with the required bit diameter.
Feed force	The feed force applied to the tool shall be sufficient to ensure stable operation with good performance.
Test	During the working time of one test cycle, 16 chamfers, as specified above, with a length of 400 mm each are performed equally distributed over the working time. NOTE Performing 16 chamfers in 10 min will require a working speed of 0,8 m/min, including sufficient time between the individual chamfers. 16 chamfers require the processing of two workpieces. If the above cannot be achieved within 10 min, the time is extended to allow the required number of chamfers to be cut.

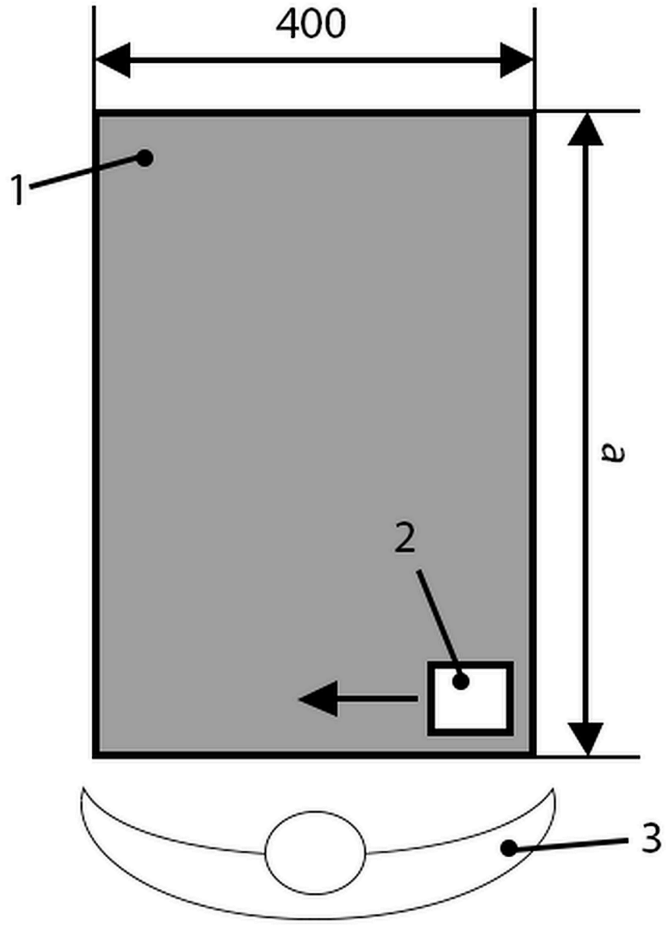
“

3 Addition of Figures 101 and 102

After Clause 6, ***add*** *the following new figures:*

“

Dimensions in millimetres

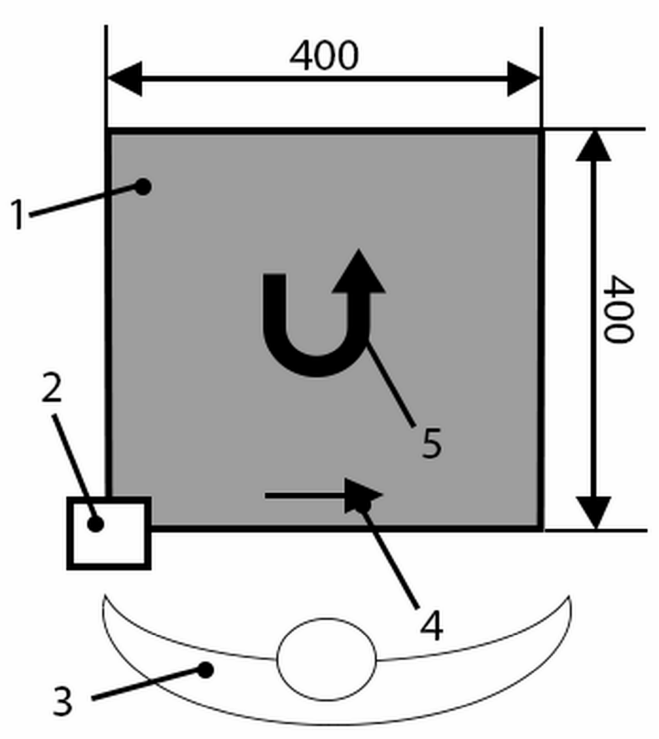


Key

1 workpiece
2 tool
3 operator
a length of the workpiece

Figure 101 — Orientation of workpiece, tool and operator during the tests for routers

Dimensions in millimetres



Key

1 workpiece
2 tool
3 operator
4 working direction
5 workpiece rotating direction

Figure 102 — Orientation of workpiece, tool and operator during the tests for trimmers”

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EUROPEAN STANDARD

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EN 50632-2-17

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English Version

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

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Ref. No. EN 50632-2-17:2016 E

Contents

European foreword

This document (EN 50632-2-17:2016) has been prepared by CLC/TC 116 "Safety of motor-operated electric tools".

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- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-05-03
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2018-05-03

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This European Standard is divided into three parts:

Part 1: General requirements for the dust measurement which are common to electric motor-operated tools (for the purpose of this standard referred to simply as tools);

Part 2 or 3: Requirements for the dust measurement for particular types of tools, which either supplement or modify the requirements given in Part 1 to account for the particular characteristics of these specific tools.

This Part 2 is to be used in conjunction with EN 50632-1:2015.

This Part 2 supplements or modifies the corresponding clauses in EN 50632-1:2015.

This Part 2 was developed to set out requirements for the measurement of the concentration for inhalable and respirable dust emitted by routers.

Where a particular subclause of Part 1 is not mentioned in this Part 2, that subclause applies as far as reasonable. When this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

Subclauses, tables and figures which are additional to those in Part 1 are numbered starting from 101.

This European Standard has been drafted in accordance with the CEN/CENELEC Internal Regulations, Part 3.

The following print types are used:
- requirements proper: in roman type;
- *test specifications: in italic type;*
- explanatory matter: in smaller roman type.

The terms defined in Clause 3 are printed in **bold typeface**.

1 Scope

This clause of Part 1 is applicable except as follows:

Addition:

This part of EN 50632 applies to **routers** and **trimmers**.

2 Normative references

This clause of Part 1 is applicable except as follows:

Addition:

EN 312:2010, *Particleboards - Specifications*

3 Terms and definitions

This clause of Part 1 is applicable except as follows:

3.101
router
tool with a base and a collet, designed to be fitted with a rotary cutting bit intended for cutting slots into or shaping the edge of various materials

3.102
trimmer
tool with a base and collet designed to be fitted with a rotary cutting bit intended for trimming the edge of laminate sheet or similar materials

4 Test procedure

This clause of Part 1 is applicable except as follows:

4.3 Operating conditions

Addition:

Routers intended for cutting wood are tested under load observing the conditions shown in Table 101.