This is a free page sample. Access the full version online.

National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 50260-2-4:2002

ICS 25.140.20

National Standards
Authority of Ireland
Dublin 9
Ireland

Tel (01) 807 3800
Tel (01) 807 3838

SAFETY OF HAND-HELD BATTERY-POWERED MOTOR-OPERATED TOOLS AND BATTERY PACKS PART 2-4: PARTICULAR REQUIREMENTS FOR SANDERS

This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on July 26, 2002

NO COPYING WITHOUT NSAI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

© NSAI 2002

Price Code E

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online.

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 50260-2-4

May 2002

ICS 25.140.20

English version

Safety of hand-held battery-powered motor-operated tools and battery packs
Part 2-4: Particular requirements for sanders

Sécurité des outils électroportatifs alimentés par batteries et des blocs de batteries
Partie 2-4: Règles particulières pour les ponceuses

Sicherheit für handgeführte akkubetriebene Elektrowerkzeuge und Akkublöcke
Teil 2-4: Besondere Anforderungen für Schwing- und Bandschleifer

This European Standard was approved by CENELEC on 2000-08-01. 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, Malta, 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

© 2002 CENELEC - All rights of exploitation in any form and by any means reserved worldwide for CENELEC members.

Ref. No. EN 50260-2-4:2002 E

This is a free page sample. Access the full version online.

Foreword

This European Standard has been prepared by the Technical Committee CENELEC TC 61F, Hand-held and transportable electric motor-operated tools.

A first draft was submitted to the Unique Acceptance Procedure in August 1996 with positive result. A second draft incorporating the editorial comments received during the UAP and the modifications necessary to incorporate the mechanical requirements which have been agreed for hand-held tools was submitted to the formal vote in November 1999 and was approved by CENELEC as EN 50260-2-4 on 2000-08-01.

The following dates were fixed:

- latest date by the EN has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2003-03-01
- latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2005-03-01

This European Standard is divided into two parts:

Part 1: General requirements which are common to most hand-held battery powered motor operated tools (for the purpose of this European Standard referred to simply as tools).

Part 2: Requirements for particular types of tool which either supplement or modify the requirements given in Part 1 to account for the particular hazards and characteristics of these specific tools.

This European Standard has been prepared under a mandate (M/083) given to CEN and CENELEC by the European Commission and the European Free Trade Association and supports the essential safety requirements of the Machinery Directive.

Compliance with the clauses of Part 1 of this European Standard together with this Part 2 provides one means of conforming with the specified essential requirements of the Directive concerned.

For noise and vibration, this European Standard covers the requirements for their measurement, the provision of information arising from these measurements and the provision of information about the personal protective equipment required. Specific requirements for the reduction of the risk arising from noise and vibration through design of the tool are not given as this reflects the current state of the art. As with any standard, technical progress will be kept under review so that any developments can be taken into account.

Warning: Other requirements and other EC Directives can be applicable to the products falling within the scope of this European Standard.

Hand-held motor-operated tools are covered by the EN 50144 series.

In order to be consistent with the EN 50144 series, the same order of clauses has been kept; the missing clauses are considered void.

CEN/TC 255 is producing standards for non-electric sanders and polishers (EN 792-8).

This European Standard follows the overall requirements of EN 292-1 and EN 292-2.

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

NOTE: In this standard the following print types are used:

- Requirements proper;
- *Test specifications;*
- Explanatory matter.

This is a free page sample. Access the full version online.

Contents

1 Scope 4

2 Definitions 4

3 General requirements 4

4 General conditions for the tests 4

5 Rating 4

6 (void)

7 Marking and information for use 4

8 Protection against electric shock 5

9 (void)

10 (void)

11 (void)

12 (void)

13 Environmental requirements 5

14 Moisture resistance 5

15 Insulation resistance and electric strength 6

16 (void)

17 Abnormal operation 6

18 Mechanical hazards 6

19 Mechanical strength 6

20 Construction 6

21 Components 6

22 Internal wiring 6

23 (void)

24 (void)

25 (void)

26 Screws and connections 6

27 Creepage distances, clearances and distances through insulation 7

28 Resistance to heat, fire and tracking 7

29 Resistance to rusting 7

This is a free page sample. Access the full version online.

1 Scope

This clause of Part 1 is applicable except as follows:

Addition:

This European Standard applies to hand-held reciprocating sanders, belt sanders, orbital sanders and random orbit sanders.

It does not apply to disk type sanders.

This European Standard does not give requirements for the design of the tool to reduce the risks arising from noise and vibration.

2 Definitions

This clause of Part 1 is applicable except as follows.

Additional definition:

2.101
random orbit sander
disc-type sander where the rotating movement is combined with an oscillating movement

3 General requirements

This clause of Part 1 is applicable.

4 General conditions for the tests

This clause of Part 1 is applicable.

5 Rating

This clause of Part 1 is applicable.

6 Void

7 Marking and information for use

This clause of Part 1 is applicable except as follows:

7.1 *Addition:*

Belt type sanders and random orbit sanders shall be marked with:

- direction of rotation.

This shall be clearly marked by an arrow, raised or sunk, or by any other means no less visible and indelible.

This is a free page sample. Access the full version online.

7.8.1 *Addition:*

- the advice that if the sander is used in confined areas, either to use dust protection or separate dust collection equipment;
- information shall be given on the correct use of the dust collection equipment;
- a warning about harmful/toxic dusts arising from sanding lead paint, some woods and metal.

8 Protection against electric shock

This clause of Part 1 is applicable.

9 Void

10 Void

11 Void

12 Void

13 Environmental requirements

This clause of Part 1 is applicable except as follows:

13.1 Void

13.2.2.4 *Addition:*

The platen of the sander shall be horizontal.

13.2.2.5 *Replacement of paragraphs 3, 4 and 5:*

All tools are tested at no-load.

13.3.6 *Replacement:*

Sanders are tested under load under the conditions shown in Table 101:

Table 101 - Test conditions for sanders

Orientation	*Sanding a horizontal steel plate 400 mm x 400 mm x 20 mm mounted on a bench*
Tool bit/cutter/abrasive	*Recommended sanding paper for steel with a grain size of 180*
Feed force	*15 N ± 5 N*
Pre–test requirements	*With a new sanding sheet carry out 1 min sanding before starting measurements*

Paragraph 3 is not applicable.

14 Moisture resistance

This clause of Part 1 is applicable.

SAI GLOBAL

This is a free preview. Purchase the entire publication at the link below:

Product Page

Looking for additional Standards? Visit Intertek Inform Infostore

Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation