

Australian/New Zealand Standard™

**Hand-held motor-operated electric
tools—Safety**

**Part 2.4: Particular requirements for
sanders and polishers other than disk
type**



AS/NZS 60745.2.4:2009

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-002, Safety of Household and Similar Electrical Appliances and Small Power Transformers. It was approved on behalf of the Council of Standards Australia on 17 March 2009 and on behalf of the Council of Standards New Zealand on 13 March 2009.

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The following are represented on Committee EL-002:

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Australian Retailers Association
Business New Zealand
Consumer Electronic Suppliers Association, Australia
Consumers' Federation of Australia
Electrical regulatory authorities, Australia
Electrical Compliance Testing Association
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Australian/New Zealand Standard™

Hand-held motor-operated electric tools—Safety

Part 2.4: Particular requirements for sanders and polishers other than disk type

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AUSTRALIA/NEW ZEALAND STANDARD

HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS – SAFETY –

Part 2.4: Particular requirements for sanders and polishers other than disk type

FOREWORD

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-002 - Safety of Household and Similar Electrical Appliances and Small Power Transformers to supersede AS/NZS 60745.2.4:2003, *Hand-held motor-operated electric tools – Safety – Part 2.4: Particular requirements for sanders and polishers other than disk type*, two years from publication. During this period it is anticipated that regulatory authorities will approve sanders and polishers other than disk type to either standard.

The objective of this Standard is to provide manufacturers, designers, regulatory authorities, testing laboratories and similar organizations with safety requirements designed to give the user protection against hazards that might occur during normal operation and abnormal operation of the tool and which may be used as the basis for approval for sale or for connection to the electricity supply mains in Australia and New Zealand.

This Standard is an adoption with national modifications and contains the full text of the second edition of IEC 60745-2-4, *Hand-held motor-operated electric tools – Safety – Part 2.4: Particular requirements for sanders and polishers other than disk type*, including its amendment 1 (2008) and has been varied as indicated to take account of Australian and New Zealand conditions.

This part is to be used in conjunction with AS/NZS 60745.1:2009 and its amendments. The Parts 2 contain clauses to supplement or modify the corresponding clauses in this part to provide the relevant requirements for each type of tool.

NOTE 1 The following print types are used:

- requirements: in roman type;
- *test specifications: in italic type;*
- notes: in small roman type.

The numbering of clauses, subclauses, notes, tables, figures and annexes follows that of IEC 60745-2-4 Ed 2.1. To allow for the introduction of additional material by the IEC, the numbers 101 to 300 have been reserved. To allow for additional material to be introduced by Australia and New Zealand, the numbers 301 to 400 are used to number further clauses, subclauses, notes, tables and figures in part 1. The numbers 401 to 500 are used to number further clauses, subclauses, notes, tables and figures in this part 2. Additional annexes are lettered ZA, ZB and so on

This scheme has been introduced to reduce the likelihood of the IEC and Australia and New Zealand using the same identifier for different purposes.

The use of the word VOID indicates that the IEC text is not used in Australia or New Zealand. The use of this word also avoids the need to renumber, clauses, notes, tables and figure if an earlier clause, note, table or figure is not used.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown on the cover and title page only.
- (b) In the source text "this International Standard" should read "this Australian/New Zealand Standard".
- (c) A full point substitutes for a comma when referring to a decimal marker.

Variations to IEC 60745-2-4 Ed 2.1 are indicated at the appropriate places throughout this standard. Strikethrough (~~example~~) identifies IEC tables, figures and passages of text which, for the purposes of this Australian/New Zealand standard are deleted. Where Australian/New Zealand tables, figures or passages of text are added, each is set in its proper place and identified by shading (~~example~~). Added figures are not themselves shaded, but are identified by a shaded border.

Variations made to IEC 60745-2-4 Ed 2.1 form the New Zealand variations for the purposes of the IECEE scheme for recognition of testing to standards for safety of electrical equipment (the CB scheme). These variations have been incorporated in the body of the standard. They are listed in Annex ZZ for easy reference.

The essential safety requirements in AS/NZS 3820 that could be applicable to sanders and polishers other than disk type are covered by this standard.

**HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS –
SAFETY –****Part 2.4: Particular requirements for sanders and polishers
other than disk type****1 Scope**

This clause of Part 1 is applicable, except as follows:

Addition:

This standard applies to sanders and polishers with the exception of all types of disc-type tools, which are covered by IEC 60745-2-3.

Tools covered by this standard include but are not limited to belt sanders, reciprocating sanders or polishers, orbital sanders or polishers, and random orbit sanders or polishers.

2 Normative references

This clause of Part 1 is applicable.

3 Terms and definitions

This clause of Part 1 is applicable, except as follows:

*Additional definitions:***3.101****sander**

tool intended to remove surface material using an abrasive medium

3.102**polisher**

tool equipped with a disk or pad intended for polishing

3.103**belt sander**

sander equipped with an endless abrasive belt