

AS/NZS 3160:2001
(Incorporating Amendment Nos 1 and 2)

AS/NZS 3160:2001

Australian/New Zealand Standard™

**Approval and Test Specification—Hand-
held Portable Electric Tools**



AS/NZS 3160:2001

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 21 May 2001 and on behalf of the Council of Standards New Zealand on 12 May 2001.

This Standard was published on 11 June 2001.

The following are represented on Committee EL-002:

Association of Certification Bodies
Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Canterbury Manufacturers Association New Zealand
Consumer Electronic Suppliers Association, Australia
Electrical Regulatory Authorities, Australia
Electrical Test Laboratories
Electrical Consultants
Electricity Supply Association of Australia
Institution of Engineers Australia
Metal trade Industries Association of Australia
Ministry of Consumer Affairs, New Zealand

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at www.standards.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR 00919.

AS/NZS 3160:2001
(Incorporating Amendment Nos 1 and 2)

Australian/New Zealand Standard™

Approval and Test Specification—Hand-held Portable Electric Tools

Originated in Australia as AS C160—1959.
Previous Australian edition AS 3160—1989.
Originated in New Zealand as NZS/AS 3160:1989.
Jointly revised and redesignated AS/NZS 3160:1993.
Sixth edition 1996.
Seventh edition 2001.
Reissued incorporating Amendment No. 1 (June 2005).
Reissued incorporating Amendment No. 2 (October 2006).

COPYRIGHT

© Standards Australia/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 4072 3

PREFACE

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 3160:1996 from the date of publication.

This Standard is one of a series of Approval and Test Specifications issued by Standards Australia and Standards New Zealand. These Standards are to be read in conjunction with AS/NZS 3100, *Approval and test specification — General requirements for electrical equipment*. The objective of these Standards is to outline the conditions which must be met to secure approval for the sale and use of electrical equipment. Only safety matters and related conditions are covered.

The term 'normative' has been used in this Standard to define the application of the appendix to which it applies. A 'normative' appendix is an integral part of a Standard.

This Standard incorporates Amendment No. 1 (June 2005) and Amendment No. 2 (October 2006). The changes required by the amendments are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected. Where an application date other than immediate is applicable to an amendment the date of application (DOA) is indicated by the marginal bar against the part affected.

CONTENTS

	Page
PREFACE	2
1 Scope	4
2 Application	4
3 Referenced documents	5
4 Definitions	6
5 Mechanical guarding	6
6 Means of connection	7
7 Flexible cord and connecting plug	7
8 Cord anchorage	7
9 Type of insulation	7
10 Tools with earthing facilities (Class 1 tools)	8
11 Tools with double insulation (class II tools and tools with class II construction)	9
12 Equipment wiring	10
13 Brush caps	10
14 Protection against damage	10
15 Material of enclosing case	10
16 Switches and speed control devices	10
17 Marking	11
18 Tests	17
APPENDIX A (normative) Dimensions of test pin	21
APPENDIX B (normative) Test load conditions	22
Table 1 – Length and permitted types of supply flexible cord	8
Table 2 – Tests to be applied and order of application	17
Table 3 – Maximum permissible deviation from rated input	18
Figure 1 – Atomized spray nozzle	20
Figure 2 – Atomized spray pattern	20
Figure B1 – Apparatus for testing hammers	29

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](#)
-