AS/NZS 60335.2.72:2003 IEC 60335.2.72 Ed 2.0, IDT (Incorporating Amendment No. 1)

Australian/New Zealand Standard™

Household and Similar Electrical Appliances—Safety

Part 2.72: Particular requirements for automatic machines for floor treatment for industrial and commercial use





AS/NZS 60335.2.72:2003

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 15 April 2003 and on behalf of the Council of Standards New Zealand on 8 May 2003.

This Standard was published on 30 May 2003.

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 Trades 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 Standards may also be withdrawn.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 02931.

Australian/New Zealand Standard™

Household and Similar Electrical Appliances—Safety

Part 2.72: Particular requirements for automatic machines for floor treatment for industrial and commercial use

Originated as AS/NZS 60335.2.72:2003. Reissued incorporating Amendment No. 1 (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

CONTENTS

FOREWORD	4
INTRODUCTION	6

1	Scope	7
2	Normative references	8
3	Definitions	.10
4	General requirement	.11
5	General conditions for the tests	.11
6	Classification	.11
7	Marking and instructions	.12
8	Protection against access to live parts	.14
9	Starting of motor-operated appliances	.15
10	Power input and current	.15
11	Heating	.15
12	Void	.15
13	Leakage current and electric strength at operating temperature	.15
14	Transient overvoltages	.15
15	Moisture resistance	.16
16	Leakage current and electric strength	.17
17	Overload protection of transformers and associated circuits	.17
18	Endurance	.17
19	Abnormal operation	.17
20	Stability and mechanical hazards	.18
21	Mechanical strength	.22
22	Construction	.24
23	Internal wiring	.26
24	Components	.26
25	Supply connection and external flexible cords	.26
26	Terminals for external conductors	.27
27	Provisions for earthing	.27
28	Screws and connections	.27
29	Clearances, creepage distances and solid insulation	.28
30	Resistance to heat and fire	.28
31	Resistance to rusting	.28
32	Radiation, toxicity and similar hazards	.28

Annex AA (normative)	Precast concrete flags	.33
Annex BB (normative)	Measurement of acoustical noise	.34

Annex CC (normative) Falling-object protective structures (FOPS) – Dynamic test and performance requirements	36
Annex ZZ (informative) Variations to IEC 60335-2-72 Ed 2.0 + A1 for application in Australia and New Zealand	42
Bibliography	41
Figure 101 – Impact test apparatus	29
Figure 102 – Apparatus for testing the abrasion resistance of current-carrying hoses	30
Figure 103 – Apparatus for testing the resistance to flexing of current-carrying hoses	31
Figure 104 – Configuration of the hose for the freezing treatment	31
Figure 105 – Flexing positions for the hose after removal from the freezing cabinet	32
Figure CC.1 – Satisfactory protection by the overhead guard	38
Figure CC.2 – Admissible deformation when the overhead guard is supported at all sides	39
Figure CC.3 – Admissible deformation when the overhead guard is supported at one side	40