

This is a preview of "ISO 14509-1:2008". [Click here to purchase the full version from the ANSI store.](#)

First edition
2008-10-01

Small craft — Airborne sound emitted by powered recreational craft —

Part 1:

Pass-by measurement procedures

*Petits navires — Bruit aérien émis par les bateaux de plaisance
motorisés —*

Partie 1: Méthodes de mesure pour l'essai de passage



Reference number
ISO 14509-1:2008(E)

© ISO 2008

This is a preview of "ISO 14509-1:2008". [Click here to purchase the full version from the ANSI store.](#)

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.



COPYRIGHT PROTECTED DOCUMENT

© ISO 2008

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

This is a preview of "ISO 14509-1:2008". Click here to purchase the full version from the ANSI store.

Contents

Page

| | |
|---|-----------|
| Foreword..... | iv |
| 1 Scope | 1 |
| 2 Normative references | 1 |
| 3 Terms and definitions..... | 1 |
| 4 Symbols | 3 |
| 5 Measurement quantity..... | 3 |
| 6 Measurement uncertainty | 3 |
| 7 Measuring equipment..... | 5 |
| 8 Test site specifications and environmental conditions..... | 5 |
| 9 Test course, microphone positions and measurement distance | 6 |
| 10 Operating conditions..... | 8 |
| 11 Test procedure | 9 |
| 12 Test report | 9 |
| 13 Standard craft specifications for outboard motor type tests according to Clause 10..... | 10 |
| 14 Standard craft specifications for type tests for stern drives with integral exhaust systems according to Clause 10..... | 11 |
| Annex A (normative) Measurement of the sound exposure level..... | 12 |
| Annex B (informative) Example of test report form | 16 |
| Bibliography | 18 |
| Figures | |
| Figure 1 — Position of the microphone and test course..... | 7 |
| Figure 2 — Microphone position and heights..... | 7 |
| Tables | |
| Table 1 — Standard deviation of reproducibility of individual sources of measurement..... | 4 |
| Table 2 — Variability for a coverage probability of 90 %..... | 4 |
| Table 3 — Correction for background sound pressure level, L''_{pAS}, for monitoring tests..... | 6 |
| Table 4 — Standard craft specifications | 10 |
| Table 5 — Standard craft specifications for petrol engines..... | 11 |
| Table 6 — Standard craft specifications for diesel engines..... | 11 |
| Table A.1 — Standard deviation of reproducibility of individual sources of measurement..... | 12 |
| Table A.2 — Variability for a coverage probability of 90 % | 13 |
| Table A.3 — Correction for background sound exposure level, L''_{AE}, for monitoring tests | 14 |

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 14509-1 was prepared by Technical Committee ISO/TC 188, *Small craft*.

This first edition of ISO 14509-1 cancels and replaces ISO 14509:2000, which has been technically revised. It also incorporates the Amendment ISO 14509:2000/Amd.1:2004.

ISO 14509 consists of the following parts, under the general title *Small craft — Airborne sound emitted by powered recreational craft*:

- *Part 1: Pass-by measurement procedures*
- *Part 2: Sound assessment using reference craft*
- *Part 3: Sound assessment using calculation and measurement procedures*