



NSAI
Standards

Irish Standard
I.S. EN ISO 2922:2000

Acoustics - Measurement of airborne sound emitted by vessels on inland waterways and harbours (ISO 2922:2000)

© CEN 2001

No copying without NSAI permission except as permitted by copyright law.

I.S. EN ISO 2922:2000

Incorporating amendments/corrigenda/National Annexes issued since publication:
EN ISO 2922:2000/A1:2013

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

<i>This document replaces:</i> EN 22922:1993	<i>This document is based on:</i> EN ISO 2922:2000 EN 22922:1993	<i>Published:</i> 1 November, 2000 26 April, 1994
This document was published under the authority of the NSAI and comes into effect on: 30 March, 2001		ICS number: 17.140.30
<div> <div> NSAI 1 Swift Square, Northwood, Santry Dublin 9 </div> <div> T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie </div> <div> Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie </div> </div>		
Údarás um Chaighdeáin Náisiúnta na hÉireann		

ICS 17.140.30

English Version

Acoustics - Measurement of airborne sound emitted by vessels on inland waterways and harbours (ISO 2922:2000/Amd 1:2013)

Acoustique - Mesurage du bruit aérien émis par les bateaux
de navigation intérieure et portuaire (ISO 2922:2000/Amd
1:2013)

Akustik - Messung des von Wasserfahrzeugen auf
Binnengewässern und in Häfen abgestrahlten Luftschalls
(ISO 2922:2000/Amd 1:2013)

This amendment A1 modifies the European Standard EN ISO 2922:2000; it was approved by CEN on 8 July 2013.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

	Page
Foreword.....	3

Foreword

This document (EN ISO 2922:2000/A1:2013) has been prepared by Technical Committee ISO/TC 43 “Acoustics” in collaboration with Technical Committee CEN/TC 121 “Acoustics” the secretariat of which is held by DS.

This Amendment to the European Standard EN ISO 2922:2000 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2014, and conflicting national standards shall be withdrawn at the latest by January 2014.

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

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 2922:2000/Amd 1:2013 has been approved by CEN as EN ISO 2922:2000/A1:2013 without any modification.

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 2922

November 2000

ICS 01.014.30

Supersedes EN 22922:1993

English version

**Acoustics - Measurement of airborne sound emitted by vessels
on inland waterways and harbours (ISO 2922:2000)**

Acoustique - Mesurage du bruit aérien émis par les bateaux
de navigation intérieure et portuaire (ISO 2922:2000)

Akustik - Messung des von Wasserfahrzeugen auf
Binnengewässern und in Häfen abgestrahlten Luftschalls
(ISO 2922:2000)

This European Standard was approved by CEN on 30 September 2000.

CEN 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 Management Centre or to any CEN 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 CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPAISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

I.S. EN ISO 2922:2000

Page 2
EN ISO 2922:2000

Foreword

The text of the International Standard ISO 2922:2000 has been prepared by Technical Committee ISO/TC 43 "Acoustics" in collaboration with Technical Committee CEN/TC 211 "Acoustics", the secretariat of which is held by DS.

This European Standard supersedes EN 22922:1993.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2001, and conflicting national standards shall be withdrawn at the latest by May 2001.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

NOTE FROM CEN/CS: The foreword is susceptible to be amended on reception of the German language version. The confirmed or amended foreword, and when appropriate, the normative annex ZA for the references to international publications with their relevant European publications will be circulated with the German version.

Endorsement notice

The text of the International Standard ISO 2922:2000 was approved by CEN as a European Standard without any modification.

INTERNATIONAL STANDARD

**ISO
2922**

Second edition
2000-11-01

Acoustics — Measurement of airborne sound emitted by vessels on inland waterways and harbours

*Acoustique — Mesurage du bruit aérien émis par les bateaux de navigation
intérieure et portuaire*



Reference number
ISO 2922:2000(E)

© ISO 2000

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.

© ISO 2000

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.ch
Web www.iso.ch

Printed in Switzerland

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Measurement quantities	3
5 Measurement uncertainty	3
6 Measuring equipment	4
6.1 Equipment specifications	4
6.2 Windscreen.....	4
6.3 Equipment calibration	4
7 Test site specifications and environmental conditions	5
7.1 Test conditions	5
7.2 Test site specifications	5
7.3 Environmental conditions.....	5
7.4 Background noise.....	5
7.5 Measurements on stationary vessels.....	6
8 Test course and measurement of distance	6
9 Operating conditions	7
9.1 Distance from microphone	7
9.2 Loading condition.....	7
9.3 Main engines	7
9.4 Auxiliary engines	7
9.5 Doors and windows	7
9.6 Monitoring tests	7
10 Microphone position	7
11 Test procedure	8
11.1 Moving vessels	8
11.2 Stationary vessels	9
12 Test report	9
Bibliography	10

ISO 2922:2000(E)

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 3.

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 2922 was prepared by Technical Committee ISO/TC 43, *Acoustics*, Subcommittee SC 1, *Noise*.

This second edition cancels and replaces the first edition (ISO 2922:1975), which has been technically revised.

Acoustics — Measurement of airborne sound emitted by vessels on inland waterways and harbours

1 Scope

This International Standard specifies the conditions for obtaining reproducible and comparable measurement results of the airborne sound emitted by vessels of all kinds on inland waterways and in ports and harbours, except powered recreational craft as specified in ISO 14509. This International Standard is applicable to small sea-going vessels, harbour vessels, dredgers, and all watercraft including non-displacement craft, used or capable of being used as a means of transport on water.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

IEC 60942, *Electroacoustics — Sound calibrators*.

IEC 61260, *Electroacoustics — Octave-band and fractional-octave-band filters*.

IEC 61672-1, *Electroacoustics — Sound level meters — Part 1: Specifications*.¹⁾

3 Terms and definitions

For the purposes of this International Standard, the following terms and definitions apply.

3.1

acceptance test for vessels

acceptance test

measurement performed to prove that the sound emitted by the vessel, stationary or in motion, as delivered by the manufacturer, complies with noise specifications or prescribed limits

3.2

monitoring test for vessels

monitoring test

measurement performed in order to check that the sound emitted by the vessel, stationary or in motion, is still within prescribed limits and that no noticeable changes have occurred since the acceptance on initial delivery or after modification, as applicable

1) To be published. (Revision of IEC 60651 and IEC 60804)

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
-