



SLOVENSKI STANDARD SIST EN ISO 14509-3:2018

01-december-2018

Nadomešča:

SIST EN ISO 14509-3:2009

**Mala plovila - Zvok v zraku, ki ga oddajajo motorizirana rekreacijska plovila - 3. del:
Ocenjevanje hrupa z uporabo računskih in merilnih postopkov (ISO 14509-3:2009)**

Small craft - Airborne sound emitted by powered recreational craft - Part 3: Sound assessment using calculation and measurement procedures (ISO 14509-3:2009)

Kleine Wasserfahrzeuge - Von motorgetriebenen Sportbooten abgestrahlter Luftschall - Teil 3: Beurteilung der Schallemission mittels Rechen- und Messverfahren (ISO 14509-3:2009)

[SIST EN ISO 14509-3:2018](#)

Petits navires - Bruit aérien émis par les bateaux de plaisance motorisés - Partie 3: Évaluation du bruit à l'aide de procédures de calcul et de mesure (ISO 14509-3:2009)

Ta slovenski standard je istoveten z: EN ISO 14509-3:2018

ICS:

17.140.30	Emisija hrupa transportnih sredstev	Noise emitted by means of transport
47.080	Čolni	Small craft

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en,fr,de

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EUROPEAN STANDARD

EN ISO 14509-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2018

ICS 47.080; 17.140.30

Supersedes EN ISO 14509-3:2009

English Version

Small craft - Airborne sound emitted by powered recreational craft - Part 3: Sound assessment using calculation and measurement procedures (ISO 14509-3:2009)

Petits navires - Bruit aérien émis par les bateaux de plaisance motorisés - Partie 3: Évaluation du bruit à l'aide de procédures de calcul et de mesure (ISO 14509-3:2009)

Kleine Wasserfahrzeuge - Von motorgetriebenen Sportbooten abgestrahlter Luftschall - Teil 3: Beurteilung der Schallemission mittels Rechen- und Messverfahren (ISO 14509-3:2009)

This European Standard was approved by CEN on 16 April 2018.

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 CEN-CENELEC 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 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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

The text of ISO 14509-3:2009 has been prepared by Technical Committee ISO/TC 188 “Small craft” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 14509-3:2018.

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 March 2019, and conflicting national standards shall be withdrawn at the latest by March 2019.

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

This document supersedes EN ISO 14509-3:2009.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive 2013/53/EU.

For relationship with EU Directive 2013/53/EU, see informative Annex ZA, which is an integral part of this document.

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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The text of ISO 14509-3:2009 has been approved by CEN as EN ISO 14509-3:2018 without any modification.

Annex ZA (informative)

Relationship between this European Standard and the Essential Requirements of Directive 2013/53/EU aimed to be covered

This European standard has been prepared under a Commission's standardization request M/542 C(2015) 8736 final to provide one voluntary means of conforming to Essential Requirements of Directive 2013/53/EU.

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding Essential Requirements of that Directive and associated EFTA regulations.

Table ZA.1 — Correspondence between this European Standard and Annex I of Directive 2013/53/EU

Essential Requirements of Directive 2013/53/EU	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
Annex I, Part C, 1 - Essential requirements for noise emissions; Noise emission levels	4, 5, 6, Annex A, Annex B	<p>This standard is applicable for powered mono hull craft with a Froude number greater than 1.1; it is not applicable for personal watercraft (PWC).</p> <p>Manufacturers and builders should be aware that the assessment methodology use in this standard is based on specific craft types and may be unsuitable for craft that have characteristics that are significantly different from those listed in the introduction to this standard.</p> <p>This standard does not specify the information to be provided in the Owner's Manual in accordance with Annex I.C.2</p>

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

INTERNATIONAL STANDARD

ISO
14509-3

First edition
2009-08-01

Small craft — Airborne sound emitted by powered recreational craft —

Part 3: Sound assessment using calculation and measurement procedures

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

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*Partie 3. Évaluation du bruit à l'aide de procédures de calcul et de
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Reference number
ISO 14509-3:2009(E)

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ISO 14509-3:2009(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 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 14509-3 was prepared by Technical Committee ISO/TC 188, *Small craft*.

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*

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Introduction

The European Union Directive 2003/44/EC (Amendment to Directive 94/25/EC) introduces limits for sound emission from recreational craft and requires conformity for certain types of craft to be shown by using the ISO 14509 series. ISO 14509-1 provides a practical measurement method, ISO 14509-2 provides an assessment method using reference craft and this part of ISO 14509 provides a predictive measurement method based on the work of the SoundBoat project. SoundBoat was funded by the European Commission and various European Marine Industry Associations and industrial partners to develop alternative methods of testing sound emission from recreational craft. Over the two years of the project, more than 65 craft have been tested according to the ISO 14509-1 pass-by test. From this an algorithm has been developed that uses a combination of hull–water sound, derived from hull parameters, and exhaust outlet sound, derived by direct measurement on board the craft under test, to predict the sound pressure level that would be observed at 25 m had the craft undergone pass-by testing according to ISO 14509-1. The method specified in this part of ISO 14509 does not require a measurement platform to be established and testing can be carried out independently of location and weather restrictions. This method does not require a list of reference craft to be established and provides a reproducible assessment procedure comparable to ISO 14509-1 pass-by testing to within 2 dB.

The SoundBoat project has concentrated on specific craft types and has only tested craft with the following characteristics:

— bottom type configuration of not more than two chines;

— square transom configuration;

— length of hull 11 m or greater.

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The SoundBoat project was successfully completed in early 2005, but industry continues to gather data from on-water testing and, as the data model is refined with further validation of the concept, the parameters above will be revised appropriately. The SoundBoat project team do not believe that craft outside the above characteristics are unsuitable for assessment using this part of ISO 14509; however, where a significantly different craft is to be assessed, it might be beneficial to test according to ISO 14509-1.