

Irish Standard I.S. EN ISO 16147:2017&LC:2017

Small craft - Inboard diesel engines - Enginemounted fuel and electrical components (ISO 16147:2002, including Amd 1:2013)

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I.S. EN ISO 16147:2017&LC:2017

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This document is based on:	Published:	

This document was published ICS number: under the authority of the NSAI and comes into effect on: 47.080

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1 Swift Square, F+353 1 807 3838 T+353 1 857 6730 Northwood, Santry E standards@nsai.ie F+353 1 857 6729 Dublin 9 W NSAI.ie W standards.ie

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National Foreword

I.S. EN ISO 16147:2017&LC:2017 is the adopted Irish version of the European Document EN ISO 16147:2017, Small craft - Inboard diesel engines - Engine-mounted fuel and electrical components (ISO 16147:2002, including Amd 1:2013)

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Correction Notice

EN ISO 16147:2017

Reference:

Title:	Small craft - Inboard diesel engines - Engine-mounted fuel and electrical components (ISO 16147:2002, including Amd 1:2013)		
Work Item:	CST01167		
	Brussels, 2017-09-20		
please include	the following minor editorial correction(s) in the document related to:		
the following ⊠ Engli ⊠ Fren ⊠ Gern	ch		
for the following procedure: PQ/UQ			
It has been brou	ght to our attention that this document, issued on 2017-08-16, requires modification.		
EN ISO 16147:2002/A1:2013 has been added in the European flyleaves.			
Titles and Forewords have been updated accordingly.			
Please find encl	osed the updated English, French and German versions.		
We apologise fo	r any inconvenience this may cause.		

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EUROPEAN STANDARD

EN ISO 16147

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2017

ICS 47.080

Supersedes EN ISO 16147:2002

English Version

Small craft - Inboard diesel engines - Engine-mounted fuel and electrical components (ISO 16147:2002, including Amd 1:2013)

Petits navires - Moteurs intérieurs diesels - Éléments des circuits d'alimentation et des systèmes électriques fixés sur le moteur (ISO 16147:2002, y compris Amd 1:2013)

Kleine Wasserfahrzeuge - Eingebaute Dieselmotoren -Am Motor befestigte Kraftstoff- und Elektrikbauteile (ISO 16147:2002, einschließlich Amd 1:2013)

This European Standard was approved by CEN on 16 July 2017.

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European foreword

The text of ISO 16147:2002, including Amd 1:2013 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 16147:2017.

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 February 2018, and conflicting national standards shall be withdrawn at the latest by February 2018.

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 16147:2002.

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(s).

For relationship with EU Directive(s), 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.

Endorsement notice

The text of ISO 16147:2002, including Amd 1:2013 has been approved by CEN as EN ISO 16147:2017 without any modification.

(informative)

Relationship between this European Standard and the Essential Requirements of EU Directive 2013/53/EU

This European standard has been prepared under a mandate given to CEN by the European Commission to provide one means of conforming to Essential Requirements of the New Approach Directive 2013/53/EU.

Once this standard is cited in the Official Journal of the European Union under that Directive and has been implemented as a national standard in at least one member state, 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 relevant Essential Requirements of that Directive and associated EFTA regulations.

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

Clauses/subclauses of this European Standard	Essential requirements (ERs) of EU Directive 2013/53/EU	Qualifying remarks/Notes
4; 5; 6	I.A.5.1.1 - Installation requirements; inboard engine	In respect of fuel and electrical components fitted to diesel inboard-mounted engines.
4; 5	I.A.5.2.1 - Fuel system; general	In respect of minimising the risk of fuel leakage and risk/spread of fire from fuel components that are engine mounted. Fire resistant fuel hoses meeting the requirements of EN ISO 7840 deal with the use of biofuels.
4; 6	I.A.5.3 - Electrical system	In respect of minimising the risk/spread of fire from electrical components that are engine mounted. This Standard does not deal with the following elements of this essential requirement in relation to engine mounted electrical components: — AC electrical enginemounted components; — Protection from electric shock; — Overload and short circuit protection;
		Interaction with electric propulsion circuits;Ventilation of explosive

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		gases emitted from batteries; — Battery installation.
4; 5; 6	I.A.5.6.1 Fire protection - General	In respect of the design and installation arrangements for engine mounted fuel and electrical components on inboard diesel engines.

 $\textbf{WARNING:} \ \ \textbf{Other} \ \ \textbf{requirements} \ \ \textbf{and} \ \ \textbf{other} \ \ \textbf{EU} \ \ \textbf{Directives} \ \ \textbf{may} \ \ \textbf{be} \ \ \textbf{applicable} \ \ \textbf{to} \ \ \textbf{the} \ \ \textbf{product(s)} \ \ \textbf{falling}$ within the scope of this standard

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INTERNATIONAL STANDARD

ISO 16147

First edition 2002-10-15

Small craft — Inboard diesel engines — Engine-mounted fuel and electrical components

Petits navires — Moteurs intérieurs diesels — Éléments des circuits d'alimentation et des systèmes électriques fixés sur le moteur



ISO 16147:2002(E)

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Printed in Switzerland

ISO 16147:2002(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.

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

ISO 16147 was prepared by Technical Committee ISO/TC 188, Small craft.

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Small craft — Inboard diesel engines — Engine-mounted fuel and electrical components

1 Scope

This International Standard establishes requirements for the design and installation of engine-mounted fuel and electrical components on diesel inboard-mounted engines for minimizing fuel leakage and the risk of and/or the spread of fire on small craft of hull length up to 24 m.

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 IEC and ISO maintain registers of currently valid International Standards.

ISO 7840:1994, Small craft — Fire-resistant fuel hoses

ISO 10088:2001, Small craft — Permanently installed fuel systems and fixed fuel tanks

ISO 10133:2000, Small craft — Electrical systems — Extra-low-voltage d.c. installations

3 Terms and definitions

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

3.1

engine-mounted

component fixed to the marine inboard engine and which will be in place while the engine is in operation

3.2

diesel fuel

hydrocarbon fuel or blends of hydrocarbon fuels which are liquids at atmospheric pressure and are used in compression-ignition engines

3.3

diesel engine

compression-ignition engine in which ignition is obtained by means of compressing the diesel fuel/air mixture

3.4

accessible

capable of being reached for inspection, removal or maintenance without removal of the permanent boat structure

NOTE Hatches are not regarded as permanent boat structures in this sense, even if tools are needed to open them.

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