

Irish Standard
I.S. EN ISO 21487:2012&A1:2014&A2:2015

Small craft - Permanently installed petrol and diesel fuel tanks (ISO 21487:2012)

© CEN 2015 No copying without NSAI permission except as permitted by copyright law.

I.S. EN ISO 21487:2012&A1:2014&A2:2015

Incorporating amendments/corrigenda/National Annexes issued since publication:

EN ISO 21487:2012/A1:2014 EN ISO 21487:2012/A2:2015

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.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:

Published:

EN ISO 21487:2012

2012-11-15

This document was published under the authority of the NSAI

ICS number:

and comes into effect on:

47.080

2015-12-27

NOTE: If blank see CEN/CENELEC cover page

NSAI T +353 1 807 3800 1 Swift Square, F+353 1 807 3838 Sales: T+353 1 857 6730 F+353 1 857 6729

Northwood, Santry E standards@nsai.ie

W standards.ie

Dublin 9 W NSAl.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online.

National Foreword

I.S. EN ISO 21487:2012&A1:2014&A2:2015 is the adopted Irish version of the European Document EN ISO 21487:2012, Small craft - Permanently installed petrol and diesel fuel tanks (ISO 21487:2012)

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This is a free page sample. Access the full version online.

This page is intentionally left blank

EUROPEAN STANDARD

EN ISO 21487:2012/A2

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2015

ICS 47.080

English Version

Small craft - Permanently installed petrol and diesel fuel tanks - Amendment 2 (ISO 21487:2012/Amd 2:2015)

Petits navires - Réservoirs à carburant à essence et diesel installés à demeure - Amendement 2 (ISO 21487:2012/Amd 2:2015)

Kleine Wasserfahrzeuge - Fest eingebaute Ottokraftstoff- und Dieselkraftstofftanks - Änderung 2 (ISO 21487:2012/Amd 2:2015)

This amendment A2 modifies the European Standard EN ISO 21487:2012; it was approved by CEN on 24 October 2015.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

EN ISO 21487:2012/A2:2015 (E)

Contents	Page
European foreword	3

EN ISO 21487:2012/A2:2015 (E)

European foreword

This document (EN ISO 21487:2012/A2:2015) has been prepared by Technical Committee ISO/TC 188 "Small craft".

This Amendment to the European Standard EN ISO 21487:2012 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2016, and conflicting national standards shall be withdrawn at the latest by June 2016.

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.

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 in EN ISO 21487:2012.

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 21487:2012/Amd 2:2015 has been approved by CEN as EN ISO 21487:2012/A2:2015 without any modification.

EUROPEAN STANDARD

EN ISO 21487:2012/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2014

ICS 47.080

English Version

Small craft - Permanently installed petrol and diesel fuel tanks - Amendment 1 (ISO 21487:2012/Amd 1:2014)

Petits navires - Réservoirs à carburant à essence et diesel installés à demeure - Amendement 1 (ISO 21487:2012/Amd 1:2014)

Kleine Wasserfahrzeuge - Fest eingebaute Ottokraftstoffund Dieselkraftstofftanks - Änderung 1 (ISO 21487:2012/Amd 1:2014)

This amendment A1 modifies the European Standard EN ISO 21487:2012; it was approved by CEN on 18 October 2014.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

EN ISO 21487:2012/A1:2014 (E)

Contents	Page
Foreword	3

EN ISO 21487:2012/A1:2014 (E)

Foreword

This document (EN ISO 21487:2012/A1:2014) has been prepared by Technical Committee ISO/TC 188 "Small craft".

This Amendment to the European Standard EN ISO 21487:2012 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2015, and conflicting national standards shall be withdrawn at the latest by June 2015.

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.

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 in EN ISO 21487:2012.

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 21487:2012/Amd 1:2014 has been approved by CEN as EN ISO 21487:2012/A1:2014 without any modification.

EUROPEAN STANDARD

EN ISO 21487

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2012

ICS 47.080

Supersedes EN ISO 21487:2006

English Version

Small craft - Permanently installed petrol and diesel fuel tanks (ISO 21487:2012)

Petits navires - Réservoirs à carburant à essence et diesel installés à demeure (ISO 21487:2012)

Kleine Wasserfahrzeuge - Fest eingebaute Ottokraftstoffund Dieselkraftstofftanks (ISO 21487:2012)

This European Standard was approved by CEN on 14 November 2012.

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, 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

EN ISO 21487:2012 (E)

Contents	Page
Foreword	3
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 94/25/EC as amended by Directive 2003/44/EC	4

EN ISO 21487:2012 (E)

Foreword

This document (EN ISO 21487:2012) has been prepared by Technical Committee ISO/TC 188 "Small craft".

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 2013, and conflicting national standards shall be withdrawn at the latest by May 2013.

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.

This document supersedes EN ISO 21487:2006.

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 organisations 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 21487:2012 has been approved by CEN as a EN ISO 21487:2012 without any modification.

EN ISO 21487:2012 (E)

Annex ZA (informative)

Relationship between this European Standard and the Essential Requirements of EU Directive 94/25/EC as amended by Directive 2003/44/EC

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 94/25/EC as amended by Directive 2003/44/EC.

Once this European 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 94/25/EC as amended by Directive 2003/44/EC

Clauses/sub-clauses of this standard	Corresponding annexes/paragraphs of Directive 94/25/EC as amended by Directive 2003/44/EC	Comments
All clauses	Annex I, Clause 5.2.2, Fuel tanks	
	Annex II, Components, 4, Fuel tanks	

WARNING — Other requirements and other EU Directives may be applicable to the product(s) falling within the scope of this standard.

INTERNATIONAL STANDARD

ISO 21487

Second edition 2012-11-15

Small craft — Permanently installed petrol and diesel fuel tanks

Petits navires — Réservoirs à carburant à essence et diesel installés à demeure





COPYRIGHT PROTECTED DOCUMENT

© ISO 2012

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

Cor	ntents	Page
Fore	word	
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4 4.1 4.2 4.3 4.4	General properties Resistance to liquids in contact Copper-based alloys Provisions to tanks Installation of non-integral tanks	
5 5.1 5.2	Petrol fuel tanks: design and tests Design Tests to be performed	3
6 6.1 6.2	Diesel fuel tanks: design and tests Design Tests to be performed	4
7 7.1 7.2 7.3 7.4 7.5	Tests General Hydraulic pressure test Pressure-impulse type test for petrol fuel tanks General fire-resistance test of non-metallic fuel tanks As-installed fire-resistance test of non-metallic fuel tanks	
8	Marking	8

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 21487 was prepared by Technical Committee ISO/TC 188, Small craft.

This second edition cancels and replaces the first edition (ISO 21487:2006), which has been technically revised. It also incorporates the Technical Corrigendum ISO 21487:2006/Cor.1:2008. The main changes from the first edition are the following:

- diesel tanks shall be equipped with inspection hatch(es) for cleaning and inspection (4.3.10);
- metallic tanks may be static pressure tested as an alternative to the pressure-impulse test (5.2.2);
- non-metallic, non-integral tanks, if installed in an engine compartment, shall be fire tested (6.2.3);
- non-metallic tanks shall be marked with the maximum temperature to which the tank may be exposed (Clause 8).

Small craft — Permanently installed petrol and diesel fuel tanks

1 Scope

This International Standard establishes requirements for design and test of petrol and diesel fuel tanks for internal combustion engines that are intended to be permanently installed in small craft of up to 24 m length of hull.

For installation requirements, ISO 10088 applies.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1817, Rubber, vulcanized or thermoplastic — Determination of the effect of liquids

ISO 10088, Small craft — Permanently installed fuel systems

ISO 11192, Small craft — Graphical symbols

ISO 12215-5, Small craft — Hull construction and scantlings — Part 5: Design pressures for monohulls, design stresses, scantlings determination

ISO 12215-6, Small craft — Hull construction and scantlings — Part 6: Structural arrangements and details

ISO 5817, Welding — Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) — Quality levels for imperfections

3 Terms and definitions

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

3.1

petrol

hydrocarbon fuel or blend of hydrocarbon fuel and denatured ethanol which is liquid at atmospheric pressure and is used in spark ignition engines

3.2

diesel

hydrocarbon fuel, biofuel or blend of these which is liquid at atmospheric pressure and is used in compression ignition engines

3.3

spark ignition engine

engine in which an electrical spark is produced to ignite the fuel/air mixture

3.4

compression ignition engine

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

3.5

permanently installed

securely fastened so that tools need to be used for removal



The is a new provider i arenade and chare publication at the limit below	This is a free preview.	Purchase the	entire publication	at the link below:
--	-------------------------	--------------	--------------------	--------------------

Product Page

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation