



Maritime &
Coastguard
Agency

MERCHANT SHIPPING NOTICE

MSN 1874 (M+F) Amendment 3

Marine Equipment - United Kingdom conformity assessment procedures for marine equipment, Other Approval and Standards

Notice to all:

- **Manufacturers and Distributors of Marine Equipment**
- **Masters, Officers and Skippers of: Merchant Ships, Fishing Vessels, Small Commercial Vessels and Pleasure Vessels**
- **Ship: Builders, Designers, Operators, Owners and Managers**
- **Marine Consultants, Recognised Organisations, Certifying Authorities and Approved and Nominated Bodies**

This Notice should be read with the Merchant Shipping (Marine Equipment) Regulations 2016 SI 2016/1025 as amended by the Merchant Shipping (Marine Equipment) (Amendment etc.) (EU Exit) Regulations 2019 SI 2019/470 and the Merchant Shipping (Marine Equipment) (Amendment) (UK and US Mutual Recognition Agreement) (EU Exit) Regulations 2019 SI 2019/1304 (“the Regulations”) and relevant UK carriage requirement instruments.

This Notice replaces MSN1874 (M+F) amendment 2.

Summary

This Notice has been given force of law by Statute (SI 2016/1025) as amended.

The objective of the Regulations is to enhance safety at sea and prevention of pollution to the marine environment through the uniform application of the relevant international instruments relating to equipment to be placed on board ships registered with the UK.

This Notice gives technical information and guidance about the procedures for obtaining type approval in conformity with the Regulations. It also gives information regarding the United Kingdom’s policy for enforcing these requirements, and other standards to be applied to equipment on board United Kingdom ships.

This Notice, replaces Merchant Shipping Notice 1874 (M+F) amendment 2 in view of amendments to the Regulations to address failures of the Regulations (as originally enacted) to operate effectively and other deficiencies arising from the withdrawal of the United Kingdom from the European Union.



1. Introduction

- 1.1 The Regulations and this Notice set out performance and testing standards to be met by marine equipment placed or to be placed on board a UK ship in accordance with the UK's conformity assessment procedures, as detailed in Part I of this Notice.
- 1.2 This Notice also sets out type approval procedures for equipment placed or to be placed on board UK ships which is outside the scope of the UK's conformity assessment procedures for marine equipment, but which requires conformity approval by various UK instruments. Such type approvals are carried out by nominated bodies in accordance with the procedures in Part II of this Notice.
- 1.3 Further, this Notice sets out the technical standards for equipment not requiring conformity assessment of type approval, before being placed on board a UK ship and for which the carriage requirement does not provide for a specific standard of equipment.
- 1.4 This Notice is split into three parts, covering three overarching categories of equipment:
 - 1.4.1 Part I, sets out the equipment within the scope of the UK's conformity assessment procedures for marine equipment and the associated technical requirements to which equipment must be approved by an approved body;
 - 1.4.2 Part II, sets out the requirements for equipment that falls outside the scope of the UK's conformity assessment procedures for marine equipment but nonetheless requires approval of the Maritime & Coastguard Agency ("MCA") as the flag administration for UK ships under the international instruments, and equipment required to be approved in accordance with other UK domestic instruments; and
 - 1.4.3 Part III, sets out technical standards and arrangements for other equipment, where there is no specified standard for such equipment in existing UK instruments.

1.5 Interpretation:

In this Notice:

- 1.5.1 "The Regulations" shall mean the Merchant Shipping (Marine Equipment) Regulations 2016 SI 2016/1025 as amended by the Merchant Shipping (Marine Equipment) (Amendment etc.) (EU Exit) Regulations 2019 SI 2019/470.
- 1.5.2 Where a specific regulation is cited, unless specifically stated otherwise, this shall be construed as reference to a regulation within the Regulations.
- 1.5.3 Where the term "Part" is used in relation to Part I, II or III of this Notice, this refers to the respective part of this Notice.
- 1.5.4 Unless expressly stated otherwise, a term used in this Notice shall have the same meaning as defined in regulation 2 of the Regulations.



PART I – Equipment within the scope of the UK conformity assessment procedures for marine equipment

2. Scope of equipment approval according to the UK conformity assessment procedures for marine equipment

- 2.1 Equipment within the scope of Part I is that which is required by the international instruments and must be approved by the flag State administration of the relevant ship, as provided for in regulation 5(1).
- 2.2 Equipment to which Part I applies must be approved by one or more approved bodies. For more information regarding the approval procedure and/or the application of requirements of such equipment, an approved body which may assess the relevant equipment should be contacted. A full list of approved bodies can be found in paragraph 5.2 of this Part.
- 2.3 Manufacturers with existing approval certificates in accordance with the Directive (Directive 2014/90/EU on marine equipment) may continue to make their equipment available to the UK market and to be placed on board UK ships as provided for in regulation 5.

3. Requirements for equipment to be placed on board a UK Ship

- 3.1 Equipment placed on board a UK ship to which this Part applies must meet the design, construction and performance requirements of the international instruments detailed in Annex 1 of this Notice applicable at the time when that equipment is placed on board in accordance with regulation 5(1).
- 3.2 Unless there is a change in the applicable standards specified in Annex 1 of this Notice for equipment already placed on board a UK ship, existing approval will continue to be accepted providing equipment continues to operate in accordance with its existing approval. If equipment is replaced, it must be replaced with equipment which complies with the Regulations.

4. Domestic Passenger Ships and Large Fishing Vessels

- 4.1 As required by regulation 5(2), where equipment is specified in Annex 1 of this Notice, a domestic passenger ship or fishing vessel must carry equipment that complies with applicable international standards, except where a carriage requirement provides for an alternative standard. The carriage requirements are listed in Annex 4 of this Notice.
- 4.2 Regulation 5(2)(c) provides an exception to regulation 5(2) detailed above, such that equipment voluntarily placed on board must meet the standard(s) specified by the Secretary of State. This provision is to allow flexibility while ensuring a minimum standard of safety. Such specified standards will be agreed by a ship's appointed MCA surveyor where it is proven that the equipment complying with applicable international standards does not offer a practicable solution for reasons of size of the equipment/ integration with the ship or vessel etc.



5. UK Approved Bodies

5.1 The MCA has designated organisations listed below as approved bodies for the purpose of carrying out approvals of equipment to undertake the examination, testing and certification of the equipment specified in Annex 1 of this Notice.

5.2 For information regarding the equipment types and modules of conformity an approved body may perform, the specific body must be contacted:

<p>ABS Europe Ltd ABS House 1 Frying Pan Alley London E1 7HR Tel: 0207 247 3255 Fax: 0207 377 2453 Email: ABS-MED@eagle.org</p>	<p>BSI Group Kitemark Court Davy Avenue Knowlhill, Milton Keynes MK5 8PP Tel: +44 (0) 845 080 9000 Email: Jitesh.pankhania@bsigroup.com</p>
<p>BTTG Testing & Certification Ltd Unit 14 Wheel Forge Way Trafford Park Manchester M17 1EH Tel: 0161 873 6543 Fax: 0161 848 7378 Email: cabutcher@bttg-cert.co.uk</p>	<p>Fleetwood Test House Blackpool & the Flyde College, Fleetwood Nautical Campus, Broadwater Fleetwood FY7 8JZ UK Tel: +44 (0) 1253 504725 Email: Brooke.Smith@blackpool.ac.uk</p>
<p>INSPEC International Ltd 56, Leslie Hough Way Salford Greater Manchester M6 6AJ England Tel: +44 (0) 161 737 0699 Fax: +44 (0) 161 736 0101 Email: certification@inspec-international.com</p>	<p>Lloyd's Register Verification Ltd. Lloyd's Register Global Technology Centre, Southampton Boldrewood Innovation Campus, Burgess Road, Southampton SO16 7QF T: +44 (0)330 414 0299 Email: MED@lr.org</p>
<p>BRE Global Ltd Bucknalls Lane Garston WD25 9XX Tel: 01923 665 114 Fax: 01923 664 103 E-mail: prattm@bre.co.uk Customer Services 0333 321 8811</p>	<p>TUV SUD BABT Octagon House, Concorde Way, Segensworth North Fareham, PO15 5RL Hampshire Tel: 01489 558175 Tel: 01489 558100 Fax: 01489 558101 Email: babt@tuv-sud.co.uk</p>
<p>UL International (UK) Ltd Wonersh House, The Guildway, Old Portsmouth Road, Guildford, Surrey, GU3 1LR</p>	<p>Warrington Certification Holmesfield Road Warrington Cheshire. WA1 2DS Tel: 01925 646 669</p>



United Kingdom Tel: +44 (0) 1483 40 20 23 Fax: +44 (0) 1483 30 22 30 Email: inform.NB@uk.ul.com	Email: janet.murrell@exova.com
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5.3 Approved bodies must meet the requirements of Schedule 3 of the Regulations and will be assessed at least once every 2 years to confirm compliance with these requirements. The United Kingdom Accreditation Services (UKAS) as the national accreditation body is delegated this assessment responsibility. Further information and guidance is available for conformity assessment bodies wishing to be designated as an approved body in Marine Guidance Note 554 as amended.

5.4 The MCA is responsible for designating approved bodies on behalf of the Secretary of State. For this purpose, the MCA can be contacted at the following address:

Marine Equipment Quality Assurance
 Ship Standards, Bay 2/27
 The Maritime and Coastguard Agency
 Spring Place, 105 Commercial Road
 Southampton
 SO15 1EG
 United Kingdom
 +44 (0) 203 817 2000

6. UK Market Surveillance

6.1 The MCA, on behalf of the Secretary of State for Transport, is the market surveillance authority for equipment and is required to carry out market surveillance. Approved bodies, manufacturers and manufacturer's authorised representatives must cooperate with MCA market surveillance inspectors as indicated in this Part and in accordance with the Regulations. Market surveillance seeks to ensure the safety of products offered for supply to the UK market and UK ships. Such market surveillance will take into consideration the conformity assessment procedures applicable to equipment and the responsibilities of the flag State administrations in the international instruments.

6.2 Market surveillance may include the inspection of documents supplied with equipment to confirm its compliance as well as checks of equipment specified in regulation 5(1), whether or not it has been placed on board a UK ship. Where checks are carried out on equipment placed on board a UK ship, such checks will be limited to examinations that can be carried out while the equipment remains fully functional on board.

6.3 When the MCA has received evidence to suggest equipment specified in Part I may not be in compliance with the international instruments and/or poses a risk to the safety of persons on board UK ships or the marine environment it may seek further evidence by carrying out sample checks of such equipment. Accordingly, the MCA may request the manufacturer to provide the necessary samples at the manufacturer's own cost, or give on-the-spot access to the samples at the manufacturer's premises.

6.4 Where the MCA has sufficient reason to believe that equipment to which this Part is applicable presents a risk to maritime safety, to health or to the environment, it may carry out an evaluation in relation to the equipment concerned covering all the requirements for such equipment. The relevant economic operators must cooperate as necessary with the



MCA in accordance with the Regulations. Additionally, the MCA may inform the public on the potential risk via the publication of safety bulletins etc.

6.5 Where the MCA finds that, subject to the evaluation in 6.4, the equipment does not comply with the requirements in this Part, the MCA may without delay require the relevant economic operator to take all appropriate corrective actions to bring the equipment into compliance with those requirements, using existing powers in the Merchant Shipping Act 1995 by way of an Improvement or Prohibition Notice. This will be commensurate with the nature and extent of the risk which the MCA considers is posed by the equipment, as it may prescribe, or any other corrective measure justified by the MCA. The MCA will inform the relevant approved body accordingly. Where the economic operator does not carry out such corrective measures within the timeframe specified by the MCA, the MCA may initiate such appropriate measures as are necessary to prohibit or restrict non-compliant equipment from being supplied to the UK market or placed on board UK ships.

6.6 Where it is considered that non-compliance may not be limited to the UK market, the MCA may inform other parties to the international instruments flag administrations and international organisations to include the nature of the non-compliance and the corrective actions which has been implemented.

PART II – Approved equipment outside the scope of the UK’s conformity assessment procedures but requiring approval under international instruments or other UK domestic instruments

7. Scope of Approval

7.1 Equipment to which this Part applies is that equipment outside the scope the UK’s conformity assessment procedures for marine equipment, but nonetheless requires approval by the MCA as a UK ship’s flag administration under international instruments. Part II also applies to equipment that requires approval by other UK domestic instruments and are specified in Annex 2 of this Notice. This equipment must be type approved by the UK nominated bodies.

7.2 Where equipment within the scope of this Part is of a novel nature or subject to significant design changes or the specifications or testing requirements are not considered to be sufficiently developed or experience of their usage is limited, the MCA must be contacted regarding the undertaking of the necessary approval procedure. For this purpose, the MCA contact details in paragraph 5.4 above should be used.

8. Requirements for Equipment

8.1 Equipment which is placed on board a UK ship to which this Part applies must hold a valid type approval certificate issued by a nominated body at the time when that equipment is placed on board.

8.2 The performance and testing standards of equipment within the scope of this Part are specified in Annex 2 of this Notice. In consultation with the MCA, a nominated body may waive the requirements for any test specifically cited in a performance standard providing it is satisfied that the sample has met the criteria of a specification superior to that of the prescribed test.



8.3 Existing type approval certificates for equipment within the scope of this Part will remain valid before the certificate's expiry date, or until cancelled. Upon the expiry date of the certificate, manufacturers must re-apply for renewal of their certificate to a nominated body. If requirements have not changed a new certificate will be issued. All certificates of type approval will be valid for up to 5 years.

8.4 Unless there is a change in the required standards specified in Annex 2 of this Notice applicable to equipment already placed on board a UK ship, existing approval will continue to be accepted providing the equipment operates satisfactorily. If it needs to be replaced, then it must be replaced with equipment for which a current type approval certificate is in force.

9. Domestic Passenger Ships and Large Fishing Vessels

9.1 As required by regulation 5(2), where equipment is specified in Annex 2 of this Notice, a domestic passenger ship or fishing vessel must carry equipment that has been approved by a nominated body, except where a carriage requirement provides for an alternative standard to be met. The carriage requirements are listed in Annex 4 of this Notice.

9.2 Regulation 5(2)(c) provides an exception to regulation 5(2) detailed above, such that equipment voluntarily placed on board must meet the standard(s) specified by the Secretary of State. This provision is to allow flexibility while ensuring a minimum standard of safety. Such specified standards will be agreed by a ship's appointed MCA surveyor where it is proven that the equipment complying with applicable international standards does not offer a practicable solution for reasons of size of the equipment/ integration with the ship or vessel etc.

10. Application for Type Approval

10.1 A manufacturer or person wishing to obtain type approval of equipment specified in Annex 2 of this Notice must submit an application to a nominated body, in accordance with Part 4 of the Regulations. The application must include:

10.1.1 The name and address of the manufacturer and, if the application is lodged by an authorised representative, their name and address;

10.1.2 A written declaration that the same or a similar application has not been lodged with another nominated body;

10.1.3 The technical documentation described in 10.3 below; and

10.1.4 The applicant must place at the disposal of the nominated body sufficient specimens representative of the production envisaged. The nominated body may request further specimens if needed for carrying out the test programme.

10.2 The technical documentation must enable a nominated body to assess conformity of the product with the requirements and testing standards specified in Annex 2 of this Notice. It must cover the design, build standards, manufacture and functioning of the equipment, as far as relevant for conformity assessment.

10.3 The technical documentation must contain all relevant data or means used by the manufacturer to ensure that the equipment complies with the essential requirements relating to it. It must also enable understanding of the design, manufacture and operation of the product and assessment of conformity with the relevant requirements.



- 10.4 The documentation shall contain so far as is relevant for assessment:
- 10.4.1 A general description of the equipment;
 - 10.4.2 Conceptual design and manufacturing drawings and schemes of components and relevant supporting drawings;
 - 10.4.3 Descriptions and explanations necessary for the understanding of the drawings and schemes including operation of the equipment;
 - 10.4.4 Results of design calculations made, impartial examinations carried out etc;
 - 10.4.5 Impartial test reports; and
 - 10.4.6 Manuals for installation, use and maintenance.
- 10.5 Where appropriate, the design documentation must contain the following elements:
- 10.5.1 Attestations relating to the equipment incorporated in the appliance;
 - 10.5.2 Attestations and certificates relating to the methods of manufacture and/or inspections and/or monitoring of the appliance; and
 - 10.5.3 Any other document making it possible for the nominated body to improve its assessment.

11. Assessment of Type Approval

- 11.1 On receipt of an application for type approval in accordance with paragraph 10 above, a nominated body must:
- 11.1.1 Examine the technical documentation and verify that the equipment has been manufactured in conformity with the technical documentation;
 - 11.1.2 Agree with the applicant the location where the examination and necessary tests are to be carried out; and
 - 11.1.3 Perform or have performed the appropriate examination and necessary tests to check whether the relevant requirements specified in Annex 2 are complied with.
- 11.2 Type approval tests must be conducted at a laboratory accredited for such tests by the UKAS or equivalent national accreditation body. However, if no such laboratory is available, a laboratory recognised by the nominated body as offering suitable and satisfactory guarantee of technical and professional competence, quality procedures and autonomy with particular reference to the application of ISO/IEC 17025 (2017), as amended may be used.
- 11.3 Where the equipment meets the provisions of the relevant requirements specified in Annex 2 of this Notice and test and performance standards, the nominated body must issue a certificate of type approval to the applicant. The certificate must contain the name and address of the manufacturer, details of the equipment, conclusions of the examination, conditions for its validity and the necessary data for identification of the approved type.



- 11.4 A list of the relevant parts of the technical documentation including drawings and instructions must be annexed to the certificate and a copy kept by the nominated body.
- 11.5 If the manufacturer is refused a certificate of type approval, the nominated body must provide detailed reasons for such refusal in writing, to the applicant for type approval.
- 11.6 Where an application is rejected after completion of the type approval procedure, the manufacturer must modify the equipment to take account of the reasons for rejection before making a new submission to the nominated body. In the manufacturer's application to the nominated body they must include:
- 11.6.1 the original examination and test results;
 - 11.6.2 the detailed reasons provided by the nominated body for the previous refusal; and
 - 11.6.3 details of all modifications made to the equipment since the previous application.
- 11.7 Upon receipt of the re-submission of the application for type approval, the nominated body must re-open the approval procedure.
- 11.8 The applicant must inform the nominated body that holds the technical documentation concerning the certificate of type approval of all modifications to the approved product which must receive additional approval where such changes may affect the conformity with the requirements or the prescribed conditions for use of the equipment. This additional approval must be given in the form of an addition to the original certificate of type approval.

12. Issue of Type Approval

- 12.1 Providing that a nominated body is satisfied that the equipment complies in all respects with the requirements in Annex 2 of this Notice and any specifications laid down by the MCA and subject to the provisions below, the nominated body must issue a certificate of type approval stating the terms and conditions of approval and period of validity which must be up to 5 years.
- 12.2 A certificate of type approval refers only to equipment identical to that assessed. It is also a condition of issue of the certificate that a manufacturer must consult with the nominated body prior to any alteration to the approved standard of the equipment, hardware, software or firmware.
- 12.3 The nominated body may require further testing and assessment to be undertaken in the event of a modification, or series of modifications, being considered to constitute sufficient departure from the approved standard of the equipment hardware, software or firmware for which the certificate of type approval was originally issued.
- 12.4 The certificates of type approval and/or their additions and annexes to the certificates, technical documentation, other documentary evidence used to type approve the equipment must be kept at the disposal of the MCA and other nominated bodies for a period of not less than 10 years after the last product has been manufactured.
- 12.5 The manufacturer or his authorised representative shall keep with the technical documentation copies of certificates of type approval and their additions for a period of at least 10 years after the last product has been manufactured.



13. Nominated Bodies

13.1 Nominated bodies are those bodies which have been designated by the Secretary of State to carry out type approval of equipment placed on board UK ships under regulation 4 of the Regulations. The designated UK nominated bodies are listed below along with the equipment types they are designated to approve.

<p>ABS Europe Ltd 1 Frying Pan Alley London E1 7HR Tel: 0207 377 2453 Fax: 0207 247 3255</p>	<p>Bureau Veritas Department Equipment and Materials Certification 67/71 Boulevard du Chateau 92200 Neuilly-sur-Seine France Tel. + +33 (0)1 55 24 75 71 Fax. + 33 1 55 24 70 45 Email: marineequipment.paris@bureauveritas.com</p>
<p>DNV GL 4500 Parkway Solent Business Park Whiteley Hampshire PO15 7AZ Tel: 02380 745 940 Fax: 02380 745 941 Email: Southampton@dnvgl.com</p>	<p>Lloyd's Register Verification Ltd. Lloyd's Register Global Technology Centre, Southampton Boldrewood Innovation Campus, Burgess Road, Southampton SO16 7QF T: +44 (0)330 414 0299 Email: MED@lr.org</p>
<p>RINA Services S.p.A. North Wing, 1st Floor 2 Charlotte Place 29-31 Kingston Crescent Southampton SO14 0TB Tel:+44 23 80332271 Fax: +44 23 80331744 E-mail southampton.office@rina.org</p>	<p>TUV SUD BABT Octagon House, Concorde Way, Segensworth North Fareham, PO15 5RL Hampshire Tel: +44 (0)1489 558175 or +44 (0)1489 558100 Fax: +44 (0)1489 558101 Email: babt@tuv-sud.co.uk</p>

The nominated bodies listed in Column 1 of Table A below may undertake type approval of any of the categories of equipment listed in Column 2 of Table A.

The nominated bodies listed in Column 1 of Table B below may undertake type approval only of the categories of equipment listed in Column 2 of Table B.



TABLE A

Column 1	Column 2
NOMINATED BODY	EQUIPMENT CATEGORY
ABS Europe Ltd Bureau Veritas Det Norkse Veritas Germanischer Lloyd AG Lloyd's Register RINA Services S.p.A.	Life-Saving appliances Marine Pollution prevention equipment Fire Protection Equipment Marine Engineering equipment Crew accommodation equipment Equipment required under COLREG 72 Bulk carrier safety equipment SOLAS Chapter II-1 equipment

TABLE B

Column 1	Column 2
NOMINATED BODY	EQUIPMENT CATEGORY
TUV SUD BAPT	Navigation Equipment Radiocommunication Equipment Life-saving appliances (Radar reflector for liferafts)

13.2 Each nominated body must provide upon request to the MCA and other nominated bodies the relevant information concerning the certificates of type approval and additions issued and withdrawn.

PART III – Other Equipment Standards

14. Scope of Equipment Standards and Requirements

14.1 Equipment within this Part is equipment required by UK instruments and specified in Annex 3 of this Notice, but where no standard for such equipment is specified to provide an acceptable level of safety to domestic ships outside the scope of the international conventions. This equipment may not be of an approved type and in all cases must comply with the relevant standard specified in Annex 3 of this Notice.

15. Requirements for Equipment

15.1 Equipment specified in Annex 3 of this Notice and placed on board a UK ship to which this Part applies in accordance with regulation 5(3) must meet the design, construction and performance requirements of the standards in Annex 3 valid at the time when that equipment is placed on board. Annex 3 of this Notice also sets out the ship type to which each specified standard is applicable.



More Information

Ship Standards Branch
Maritime and Coastguard Agency
Bay 2/21
Spring Place
105 Commercial Road
Southampton
SO15 1EG

Tel : +44 (0) 203 817 2000
e-mail: marinetechnology@mcga.gov.uk

Website Address: www.gov.uk/government/organisations/maritime-and-coastguard-agency

General Enquiries: infoline@mcga.gov.uk

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telephone numbers are correct at time of publishing

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Annex 1

This annex sets out in full the design, construction and performance requirements and testing standards for marine equipment to which approval by an approved body is required in accordance with regulation 5.

The requirements below replace those in Merchant Shipping Notice 1874 (M+F) amendment 2.

General note: references to 'SOLAS' Regulations refer to the provisions of the International Convention for the Safety of Life at Sea, as amended.

List of acronyms used

A.1, Amendment 1 concerning Standard Documents other than IMO.
A.2, Amendment 2 concerning Standard Documents other than IMO.
AC, Amending Corrigendum concerning Standard Documents other than IMO.
CAT, Category for radar equipment as defined in section 1.3 of IEC 62388 (2007)
Circ., Circular.
COLREG, International Regulations for Preventing Collisions at Sea.
COMSAR, IMO's Sub-Committee on Radiocommunications and Search and Rescue.
EN, European Standard.
ETSI, European Telecommunication Standardisation Institute.
FSS, International Code for Fire Safety Systems.
FTP, International Code for Application of Fire Test Procedures.
HSC, High Speed Craft Code.
IBC, International Bulk Chemical Code.
ICAO, International Civil Aviation Organization.
IEC, International Electrotechnical Commission.
IGC, International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk.
IMO, International Maritime Organization.
ISO, International Organisation for Standardization.
ITU, International Telecommunication Union.
LSA, Life saving appliance.
MARPOL, International Convention for the Prevention of Pollution from Ships
"The Regulations" shall mean the Merchant Shipping (Marine Equipment) Regulations 2016
SI 2016/1025 as amended
MEPC, Marine Environment Protection Committee.
MSC, Maritime Safety Committee.
NOx, Nitrogen Oxides.
O2/HC systems: Oxygen Hydro Carbon systems.
SOLAS, International Convention for the Safety of Life at Sea.
SOx, Sulphur Oxides.
Reg., Regulation.
Res., Resolution.

Notes applicable to the whole of this Annex

(a)General: In addition to the testing standards specifically referred to in this Annex, type-examination (type approval) requires compliance with the applicable requirements of the international conventions and the relevant resolutions and circulars of the IMO. Such compliance is referred to in the modules for conformity assessment in the Regulations.



- (b) Column 3: Where two sets of testing standards are separated by 'or', each set fulfils all the testing requirements to meet IMO Performance Standards; thus testing to one of those sets is sufficient to demonstrate compliance with the requirements of the relevant international instruments. On the contrary, when other separators (such as comma) are used all the listed references apply.
- (c) Column 6: In order to take into consideration timeframes for shipbuilding, depending on the characteristics of the specific marine equipment, the following meanings of 'placing on board' (indicated in brackets behind the dates) apply:
- I :first installation of the equipment in its functional position on board a UK ship;
 - II :first installation of the equipment in its functional position or stowing in its functional position on board a UK ship;
 - III:delivery of the equipment to the shipyard if this takes place within 30 months before the first installation of the equipment in its functional position.
- (d) Where there are two rows for one marine equipment entry (e.g. UK/3.12), the second (lower) row contains the updated requirements of the international instruments in respect to the ones shown in the first (upper) row.
- (e) In the situations referred to in point (d) where no date is given in columns 5 and 6, this indicates that there has been no change in the testing standards and that the marine equipment item concerned shall comply with the requirements indicated in the (second) lower row.
- (f) Where there are three rows for one marine equipment entry (such as UK/3.51a), the third (lowest) row contains the updated requirements of the international instruments in respect to the ones shown in the first two (upper) rows.



1. Life-saving appliances

Column 2: IMO MSC/Circular 980 shall apply except when superseded by the specific instruments referred to in Column 2.

Number and item designation	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment	First placing on the market	Last placing on board
1	2	3	4	5	6
MED/1.1 — Lifebuoys	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4, —SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/7, —SOLAS 74 Reg. III/34,</p>	—IMO Res. MSC.81(70), as amended.	B+D B+E B+F		



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) II,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>				
<p>MED/1.2a</p> <p>—Position-indicating lights for life-saving appliances:</p> <p>(a) for survival craft and rescue boats,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/34,</p>	<p>—IMO Res. MSC.81(70), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		<p>13.9.2022 (II)</p>



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) II,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) IV,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>				
<p>MED/1.2a</p> <p>—Position-indicating lights for life-saving appliances:</p> <p>(a) for survival craft and rescue boats,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/34,</p>	<p>—IMO Res.MSC.81(70), as amended,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008).</p> <p>Or</p> <p>—IMO Res.MSC.81(70), as amended,</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>13.9.2019</p>	



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) IV,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>	—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008).			
<p>MED/1.2b</p> <p>—Position-indicating lights for life-saving appliances:</p> <p>(b) for lifebuoys,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/7,</p>	—IMO Res. MSC.81(70), as amended.	B+D B+E B+F		13.9.2022 (II)



	<ul style="list-style-type: none"> —SOLAS 74 Reg. III/22, —SOLAS 74 Reg. III/32, —SOLAS 74 Reg. III/34, —IMO Res.MSC.36(63)-(1994 HSC Code) 8, —IMO Res.MSC.48(66)-(LSA Code) I, —IMO Res.MSC.48(66)-(LSA Code) II, —IMO Res.MSC.97(73)-(2000 HSC Code) 8. 				
<p>MED/1.2b</p> <p>—Position-indicating lights for life-saving appliances:</p> <p>(b) for lifebuoys,</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. III/4, —SOLAS 74 Reg. X/3. 	<ul style="list-style-type: none"> —IMO Res.MSC.81(70), as amended, —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008). 	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>13.9.2019</p>	



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/7,</p> <p>—SOLAS 74 Reg. III/22,</p> <p>—SOLAS 74 Reg. III/32,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) II,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>	<p>Or</p> <p>—IMO Res.MSC.81(70), as amended,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008).</p>			
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<p>MED/1.2c Position-indicating lights for life-saving appliances: (c) for lifejackets.</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4, —SOLAS 74 Reg. X/3.</p>	<p>—IMO Res. MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		<p>13.9.2022 (II)</p>
<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/7, —SOLAS 74 Reg. III/22, —SOLAS 74 Reg. III/26, —SOLAS 74 Reg. III/32, —SOLAS 74 Reg. III/34, —IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p>					



	<p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) II,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>				
<p>MED/1.2c</p> <p>Position-indicating lights for life-saving appliances:</p> <p>(c) for lifejackets.</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/7,</p> <p>—SOLAS 74 Reg. III/22,</p> <p>—SOLAS 74 Reg. III/26,</p>	<p>—IMO Res. MSC.81(70), as amended,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008).</p> <p>Or</p> <p>—IMO Res.MSC.81(70), as amended,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008).</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>13.9.2019</p>	



	<p>—SOLAS 74 Reg. III/32,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) II,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>				
<p>MED/1.3</p> <p>— Lifebuoys self-activating smoke signals</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res. MSC.81(70), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/7,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) II,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>				
<p>MED/1.4</p> <p>— Lifejackets</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p>	<p>—IMO Res. MSC.81(70), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		



	<p>—SOLAS 74 Reg. X/3.</p>				
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/7,</p> <p>—SOLAS 74 Reg. III/22,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) II,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8,</p>				



	<p>—IMO MSC/Circ.922,</p> <p>—IMO MSC.1/Circ.1304,</p> <p>—IMO MSC.1/Circ.1470.</p>				
<p>MED/1.5a</p> <p>—Immersion suits and anti-exposure suits designed to be worn in conjunction WITH a lifejacket</p> <p>a)immersion suit without inherent insulation,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res. MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/7,</p> <p>—SOLAS 74 Reg. III/22,</p> <p>—SOLAS 74 Reg. III/32,</p> <p>—SOLAS 74 Reg. III/34,</p>				



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) II,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8,</p> <p>—IMO MSC/Circ.1046.</p>				
<p>MED/1.5b</p> <p>—Immersion suits and anti-exposure suits designed to be worn in conjunction WITH a lifejacket</p> <p>b) immersion suit with inherent insulation,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res. MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		
	<p>Carriage and performance requirements</p>				



	<ul style="list-style-type: none"> —SOLAS 74 Reg. III/7, —SOLAS 74 Reg. III/22, —SOLAS 74 Reg. III/32, —SOLAS 74 Reg. III/34, —IMO Res.MSC.36(63)-(1994 HSC Code) 8, —IMO Res.MSC.48(66)-(LSA Code) I, —IMO Res.MSC.48(66)-(LSA Code) II, —IMO Res.MSC.97(73)-(2000 HSC Code) 8, —IMO MSC/Circ.1046. 				
MED/1.5c	Type approval requirements		B+D		



<p>—Immersion suits and anti-exposure suits designed to be worn in conjunction WITH a lifejacket</p> <p>c) Anti-exposure suits.</p>	<p>—SOLAS 74 Reg. III/4, —SOLAS 74 Reg. X/3.</p>	<p>—IMO Res. MSC.81(70), as amended.</p>	<p>B+E B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/7, —SOLAS 74 Reg. III/22, —SOLAS 74 Reg. III/32, —SOLAS 74 Reg. III/34, —IMO Res.MSC.36(63)-(1994 HSC Code) 8, —IMO Res.MSC.48(66)-(LSA Code) I, —IMO Res.MSC.48(66)-(LSA Code) II,</p>				



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8,</p> <p>—IMO MSC/Circ.1046.</p>				
<p>MED/1.6a</p> <p>—Immersion suits and anti-exposure suits designed to be worn WITHOUT a lifejacket</p> <p>a)immersion suit without inherent insulation,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/7,</p> <p>—SOLAS 74 Reg. III/22,</p> <p>—SOLAS 74 Reg. III/32,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-</p>	<p>—IMO Res. MSC.81(70), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		



	<p>(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) II,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8,</p> <p>—IMO MSC/Circ.1046.</p>				
<p>MED/1.6b</p> <p>—Immersion suits and anti-exposure suits designed to be worn WITHOUT a lifejacket</p> <p>b) immersion suit with inherent insulation,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/7,</p>	<p>—IMO Res. MSC.81(70), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		



	<p>—SOLAS 74 Reg. III/22,</p> <p>—SOLAS 74 Reg. III/32,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) II,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8,</p> <p>—IMO MSC/Circ.1046.</p>				
<p>MED/1.6c</p> <p>—Immersion suits and anti-exposure suits designed to be worn WITHOUT a lifejacket</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p>	<p>—IMO Res. MSC.81(70), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		



c) Anti-exposure suits.	—SOLAS 74 Reg. X/3.				
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/7,</p> <p>—SOLAS 74 Reg. III/22,</p> <p>—SOLAS 74 Reg. III/32,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) II,</p> <p>—IMO Res.MSC.97(73)-</p>				



	(2000 HSC Code) 8, —IMO MSC/Circ.1046.				
MED/1.7 — Thermal protective aids	Type approval requirements —SOLAS 74 Reg. III/4, —SOLAS 74 Reg. X/3. Carriage and performance requirements —SOLAS 74 Reg. III/22, —SOLAS 74 Reg. III/32, —SOLAS 74 Reg. III/34, —IMO Res.MSC.36(63)-(1994 HSC Code) 8,	—IMO Res. MSC.81(70), as amended.	B+D B+E B+F		



	<p>—IMO Res.MSC.48(66)- (LSA Code) I,</p> <p>—IMO Res.MSC.48(66)- (LSA Code) II,</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) 8,</p> <p>—IMO MSC/Circ.1046.</p>				
<p>MED/1.8</p> <p>— Rocket parachute flares (pyrotechnics)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/6,</p> <p>—SOLAS 74 Reg. III/34,</p>	<p>—IMO Res. MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) III,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>				
<p>MED/1.9</p> <p>— Hand flares (pyrotechnics)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/34,</p>	<p>—IMO Res. MSC.81(70),as amended.</p>	<p>B+D B+E B+F</p>		



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) III,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>				
<p>MED/1.10</p> <p>— Buoyant smoke signals (pyrotechnics)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res. MSC.81(70), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/34,</p>				



	<p>—IMO Res.MSC.48(66)- (LSA Code) I,</p> <p>—IMO Res.MSC.48(66)- (LSA Code) III.</p>				
<p>MED/1.11</p> <p>— Line-throwing appliances</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/18,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)- (1994 HSC Code) 8,</p>	<p>—IMO Res. MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



	<p>—IMO Res.MSC.48(66)- (LSA Code) I,</p> <p>—IMO Res.MSC.48(66)- (LSA Code) VII,</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) 8.</p>				
<p>MED/1.12</p> <p>— Inflatable liferafts</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/13,</p> <p>—SOLAS 74 Reg. III/21,</p> <p>—SOLAS 74 Reg. III/26,</p>	<p>—IMO Res.MSC.81(70), as amended.</p> <p>And for extended service intervals:</p> <p>—IMO MSC.1/Circ.1328.</p>	<p>B+D B+E B+F</p>		



	<p>—SOLAS 74 Reg. III/31,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) IV,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8,</p> <p>—IMO MSC/Circ.811,</p> <p>—IMO MSC.1/Circ.1328.</p>				
<p>MED/1.13</p> <p>— Rigid liferafts</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p>	<p>—IMO Res. MSC.81(70), as amended,</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		



	<p>—SOLAS 74 Reg. X/3.</p>				
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/21,</p> <p>—SOLAS 74 Reg. III/26,</p> <p>—SOLAS 74 Reg. III/31,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) IV,</p> <p>—IMO Res.MSC.97(73)-</p>				



	(2000 HSC Code) 8.				
MED/1.14 — Automatically self-righting liferafts	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4, —SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/26, —SOLAS 74 Reg. III/34, —IMO Res.MSC.36(63)-(1994 HSC Code) 8, —IMO Res.MSC.48(66)-(LSA Code) I, —IMO Res.MSC.48(66)-(LSA Code) IV,</p>	<p>—IMO Res. MSC.81(70), as amended. And for extended service intervals: —IMO MSC.1/Circ.1328.</p>	<p>B+D B+E B+F</p>		



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8,</p> <p>—IMO MSC/Circ.809,</p> <p>—IMO MSC/Circ.811,</p> <p>—IMO MSC.1/Circ.1328.</p>				
<p>MED/1.15</p> <p>— Canopied reversible liferafts</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/26,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-</p>	<p>—IMO Res.MSC.81(70), as amended.</p> <p>And for extended service intervals:</p> <p>—IMO MSC.1/Circ.1328.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		



	<p>(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) IV,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8,</p> <p>—IMO MSC/Circ.809,</p> <p>—IMO MSC/Circ.811,</p> <p>—IMO MSC.1/Circ.1328.</p>				
<p>MED/1.16</p> <p>—Float-free arrangements for liferafts (hydrostatic release units)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.MSC.81(70), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/13,</p> <p>—SOLAS 74 Reg. III/26,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) IV,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8,</p> <p>—IMO MSC/Circ.811.</p>				
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<p>MED/1.17a</p> <p>— Lifeboats:</p> <p>(a) Davit-launched lifeboats:</p> <p>— partially enclosed,</p> <p>— totally enclosed.</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.MSC.81(70), as amended,</p> <p>—IMO MSC/Circ.1006.</p>	<p>B+D B+F G</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/21,</p> <p>—SOLAS 74 Reg. III/31,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) IV,</p>				



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8,</p> <p>—IMO MSC.1/Circ.1423.</p>				
<p>MED/1.17b</p> <p>— Lifeboats:</p> <p>(b) Free-fall lifeboats.</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/21,</p> <p>—SOLAS 74 Reg. III/31,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p>	<p>—IMO Res.MSC.81(70), as amended,</p> <p>—IMO MSC/Circ.1006.</p>	<p>B+D</p> <p>B+F</p> <p>G</p>		



	<p>—IMO Res.MSC.48(66)- (LSA Code) I,</p> <p>—IMO Res.MSC.48(66)- (LSA Code) IV,</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) 8,</p> <p>—IMO MSC.1/Circ.1423.</p>				
<p>MED/1.18</p> <p>— Rigid rescue boats</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/21,</p> <p>—SOLAS 74 Reg. III/31,</p>	<p>—IMO Res.MSC.81(70), as amended,</p> <p>—IMO MSC/Circ.1006.</p>	<p>B+D B+F G</p>		



	<p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) V,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>				
<p>MED/1.19</p> <p>— Inflated rescue boats</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.MSC.81(70), as amended,</p> <p>—ISO 15372:2000.</p>	<p>B+D</p> <p>B+F</p> <p>G</p>		
	<p>Carriage and performance requirements</p>				



	<ul style="list-style-type: none"> —SOLAS 74 Reg. III/21, —SOLAS 74 Reg. III/31, —SOLAS 74 Reg. III/34, —IMO Res.MSC.36(63)-(1994 HSC Code) 8, —IMO Res.MSC.48(66)-(LSA Code) I, —IMO Res.MSC.48(66)-(LSA Code) V, —IMO Res.MSC.97(73)-(2000 HSC Code) 8. 				
MED/1.20a — Fast rescue boats: (a) inflated.	Type approval requirements —SOLAS 74 Reg. III/4.	—IMO Res.MSC.81(70), as amended,	B+D B+F G		



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/26,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) V,</p> <p>—IMO MSC/Circ.1016,</p> <p>—IMO MSC/Circ.1094.</p>	—ISO 15372:2000.			
<p>MED/1.20b</p> <p>— Fast rescue boats:</p> <p>(b) rigid,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4.</p> <p>Carriage and performance requirements</p>	<p>—IMO Res.MSC.81(70), as amended,</p> <p>—IMO MSC/Circ.1006.</p>	B+D B+F G		



	<ul style="list-style-type: none"> —SOLAS 74 Reg. III/26, —SOLAS 74 Reg. III/34, —IMO Res.MSC.48(66)-(LSA Code) I, —IMO Res.MSC.48(66)-(LSA Code) V, —IMO MSC/Circ.1016, —IMO MSC/Circ.1094. 				
<p>MED/1.20c</p> <p>— Fast rescue boats:</p> <p>(c) rigid-inflated.</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. III/4. <hr/> <p>Carriage and performance requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. III/26, —SOLAS 74 Reg. III/34, 	<ul style="list-style-type: none"> —IMO Res.MSC.81(70), as amended, —IMO MSC/Circ.1006, —ISO 15372:2000. 	<p>B+D</p> <p>B+F</p> <p>G</p>		



	<p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) V,</p> <p>—IMO MSC/Circ.1016,</p> <p>—IMO MSC/Circ.1094.</p>				
<p>MED/1.21</p> <p>— Launching appliances using falls (davits)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/23,</p> <p>—SOLAS 74 Reg. III/33,</p> <p>—SOLAS 74 Reg. III/34,</p>	<p>—IMO Res.MSC.81(70), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>		



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) VI,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>				
Item MED/1.22, Float-free launching appliances for survival craft, - moved to MED/9/1.3.					
<p>MED/1.23</p> <p>— Launching appliances for free-fall lifeboats</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.MSC.81(70), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>		
	<p>Carriage and performance requirements</p>				



	<p>—SOLAS 74 Reg. III/16,</p> <p>—SOLAS 74 Reg. III/23,</p> <p>—SOLAS 74 Reg. III/33,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) VI,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>				
<p>MED/1.24</p> <p>— Liferaft launching appliances (Davits)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p>	<p>—IMO Res.MSC.81(70), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		



	<p>—SOLAS 74 Reg. X/3.</p>		G		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/12,</p> <p>—SOLAS 74 Reg. III/16,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) VI,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>				



MED/1.25 — Fast rescue boat launching appliances (Davits)	Type approval requirements —SOLAS 74 Reg. III/4.	—IMO Res.MSC.81(70), as amended.	B+D B+E B+F G		
	Carriage and performance requirements —SOLAS 74 Reg. III/26, —SOLAS 74 Reg. III/34, —IMO Res.MSC.48(66)-(LSA Code) I, —IMO Res.MSC.48(66)-(LSA Code) VI.				
MED/1.26a —Release mechanism for (a) Lifeboats and rescue boats (Launched by a fall or falls),	Type approval requirements —SOLAS 74 Reg. III/4, —SOLAS 74 Reg. X/3.	—IMO Res.MSC.81(70), as amended.	B+D B+E B+F		



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/16,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) IV,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8,</p> <p>—IMO MSC.1/Circ.1419.</p>				
MED/1.26b	Type approval requirements		B+D		



<p>— Release mechanism for (b) Liferrafts (Launched by a fall or falls),</p>	<p>—SOLAS 74 Reg. III/4, —SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.MSC.81(70), as amended.</p>	<p>B+E B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/16, —SOLAS 74 Reg. III/34, —IMO Res.MSC.36(63)-(1994 HSC Code) 8, —IMO Res.MSC.48(66)-(LSA Code) I, —IMO Res.MSC.48(66)-(LSA Code) IV, —IMO Res.MSC.97(73)-(2000 HSC Code) 8,</p>				



<p>MED/1.26c</p> <p>— Release mechanism for (c) Free fall lifeboats.</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/16,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) IV,</p> <p>—IMO Res.MSC.97(73)-</p>				



	(2000 HSC Code) 8.				
MED/1.27 — Marine evacuation systems	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4, —SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/15, —SOLAS 74 Reg. III/26, —SOLAS 74 Reg. III/34, —IMO Res.MSC.36(63)-(1994 HSC Code) 8, —IMO Res.MSC.48(66)-(LSA Code) I,</p>	—IMO Res.MSC.81(70), as amended.	B+D B+F G		



	<ul style="list-style-type: none"> —IMO Res.MSC.48(66)-(LSA Code) VI, —IMO Res.MSC.97(73)-(2000 HSC Code) 8. 				
<p>MED/1.28</p> <p>— Means of rescue</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. III/4. <hr/> <p>Carriage and performance requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. III/26, —SOLAS 74 Reg. III/34, —IMO Res.MSC.48(66)-(LSA Code) I, —IMO Res.MSC.48(66)-(LSA Code) VI. 	<ul style="list-style-type: none"> —IMO Res.MSC.81(70), as amended, —IMO MSC/Circ.810. 	<p>B+D</p> <p>B+F</p>		



<p>MED/1.29</p> <p>— Embarkation ladders</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. III/11,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.MSC.81(70), as amended,</p> <p>—ISO 5489:2008.</p>	<p>B+D</p> <p>B+F</p>		
<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/11,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code),</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) VI,</p>					



	<p>—IMO Res.MSC.97(73)- (2000 HSC Code),</p> <p>—IMO MSC.1/Circ.1285.</p>				
<p>MED/1.30</p> <p>— Retro-reflective materials</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)- (1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)- (LSA Code) I,</p> <p>—IMO Res.MSC.97(73)-</p>	<p>—IMO Res. A.658(16), amended.</p> <p>Res. as</p>	<p>B+D B+E B+F</p>		



	(2000 HSC Code) 8.				
Item MED/1.31, Survival craft two-way VHF radio telephone apparatus, — moved to MED/5.17 and MED/5.18.					
Item MED/1.32, 9 GHz SAR transponder (SART), — moved to MED/4.18.					
MED/1.33 — Radar reflector for lifeboats and rescue boats (passive)	Type approval requirements —SOLAS 74 Reg. III/4, —SOLAS 74 Reg. X/3.	—EN ISO 8729:1998, —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), Or, —EN ISO 8729:1998, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), Or, —IMO Res.A.384(X), —IMO Res.MSC.36(63)-(1994 HSC Code) 8, Or, —ISO 8729-1:2010,	B+D B+E B+F		
	Carriage and performance requirements —SOLAS 74 Reg. III/34, —IMO Res.A.384(X), —IMO Res.MSC.36(63)-(1994 HSC Code) 8,	—EN ISO 8729:1998, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), Or, —ISO 8729-1:2010, —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), Or, —ISO 8729-1:2010,			



	<p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) IV,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) V,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8,</p> <p>—IMO Res.MSC.164(78).</p>	<p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008).</p>			
Item MED/1.34, Magnetic compass Class B for lifeboats and rescue boats, - moved to MED/4.23.					
Item MED/1.35, Portable fire-extinguishing equipment for lifeboats and rescue boats — moved to MED/3.38.					
<p>MED/1.36</p> <p>— Lifeboat/rescue boat propulsion engine</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.MSC.81(70), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) IV,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) V.</p>				
<p>MED/1.37</p> <p>—Rescue boat propulsion engine — outboard motor</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) V.</p>				



<p>MED/1.38</p> <p>—Searchlights for use in lifeboats and rescue boats</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		<p>13.9.2022</p>
<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) IV,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) V,</p> <p>—IMO Res.MSC.97(73)-</p>					



	(2000 HSC Code) 8.				
MED/1.38 —Searchlights for use in lifeboats and rescue boats	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4, —SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/34, —IMO Res.MSC.36(63)-(1994 HSC Code) 8, —IMO Res.MSC.48(66)-(LSA Code) I, —IMO Res.MSC.48(66)-(LSA Code) IV,</p>	<p>—IMO Res.MSC.81(70), as amended, —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008).</p> <p>Or</p> <p>—IMO Res.MSC.81(70), as amended, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008).</p>	B+D B+E B+F	13.9.2019	



	<p>—IMO Res.MSC.48(66)-(LSA Code) V,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>				
<p>MED/1.39</p> <p>— Open reversible liferafts</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) Annex 10,</p>	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) Annex 10,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) Annex 11,</p> <p>And for extended service intervals:</p> <p>—IMO MSC.1/Circ.1328.</p>	<p>B+D</p> <p>B+F</p>		



	<p>—IMO Res.MSC.48(66)- (LSA Code) I,</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) 8,</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) Annex 11,</p> <p>—IMO MSC.1/Circ.1328.</p>				
Item MED/1.40, Mechanical pilot hoist, — moved to MED/4.48.					
<p>MED/1.41a</p> <p>—Winches for survival craft and rescue boats:</p> <p>(a) davit launched lifeboats</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.MSC.81(70), as amended.</p>	<p>B+D B+E B+F G</p>		
	<p>Carriage and performance requirements</p>				



	<p>—SOLAS 74 Reg. III/16,</p> <p>—SOLAS 74 Reg. III/23,</p> <p>—SOLAS 74 Reg. III/24,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) VI,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>				
<p>MED/1.41b</p> <p>—Winches for survival craft and rescue boats:</p> <p>(b) free-fall lifeboats,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p>	<p>—IMO Res.MSC.81(70), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		



	<p>—SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/16,</p> <p>—SOLAS 74 Reg. III/23,</p> <p>—SOLAS 74 Reg. III/24,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) VI.</p>		G		
<p>MED/1.41c</p> <p>—Winches for survival craft and rescue boats:</p> <p>(c) liferafts</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.MSC.81(70), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>		



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/16,</p> <p>—SOLAS 74 Reg. III/17,</p> <p>—SOLAS 74 Reg. III/23,</p> <p>—SOLAS 74 Reg. III/24,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) VI,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>				
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<p>MED/1.41d</p> <p>—Winches for survival craft and rescue boats:</p> <p>(d) rescue boats</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.MSC.81(70), as amended.</p>	<p>B+D B+E B+F G</p>		
<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/16,</p> <p>—SOLAS 74 Reg. III/17,</p> <p>—SOLAS 74 Reg. III/23,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p>					



	<p>—IMO Res.MSC.48(66)-(LSA Code) VI,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>				
<p>MED/1.41e</p> <p>—Winches for survival craft and rescue boats:</p> <p>(e) fast rescue boats.</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/16,</p> <p>—SOLAS 74 Reg. III/17,</p> <p>—SOLAS 74 Reg. III/23,</p> <p>—SOLAS 74 Reg. III/34,</p>	<p>—IMO Res.MSC.81(70), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>		



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) VI,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>				
Item MED/1.42, Pilot ladder, — moved to MED/4.49.					
<p>MED/1.43</p> <p>— Rigid/inflated rescue boats</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements</p>	<p>—IMO Res.MSC.81(70), as amended,</p> <p>—IMO MSC/Circ.1006,</p> <p>—ISO 15372:2000.</p>	<p>B+D</p> <p>B+F</p> <p>G</p>		



	<p>—SOLAS 74 Reg. III/21,</p> <p>—SOLAS 74 Reg. III/31,</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) V,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>				
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2. Marine pollution prevention

Number and item designation	Regulations of Marpol 73/78, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment	First placing on the market	Last placing on board
1	2	3	4	5	6
MED/2.1 Oil-filtering equipment (for an oil content of the effluent not exceeding 15 p.p.m.)	Type approval requirements —MARPOL 73/78 Annex I, Reg. 14. Carriage and performance requirements —MARPOL 73/78 Annex I, Reg. 14. —IMO MEPC.1/Circ. 643.	—IMO Res.MEPC.107(49), as amended, —IMO MEPC.1/Circ. 643.	B+D B+E B+F		
MED/2.2 Oil/water interface detectors	Type approval requirements —MARPOL 73/78 Annex I, Reg. 32.	—IMO Res.MEPC.5(XIII).	B+D B+E B+F		



MED/2.3 Oil-content meters	Type approval requirements —MARPOL 73/78 Annex I, Reg. 14.	—IMO Res.MEPC.107(49), as amended, —IMO MEPC.1/Circ. 643.	B+D B+E B+F		
	Carriage and performance requirements —MARPOL 73/78 Annex I, Reg. 14. —IMO MEPC.1/Circ. 643.				
Item MED/2.4, Process units intended for attachment to existing oil/water separating equipment (for an oil content of the effluent not exceeding 15p.p.m., - has been deliberately left blank.					
MED/2.5 Oil discharge monitoring and control system for oil tankers	Type approval requirements —MARPOL 73/78 Annex I, Reg. 31, —IMO MEPC.1/Circ.858.	—IMO Res. MEPC.108(49), as amended.	B+D B+E B+F		
	Carriage and performance requirements				



	—MARPOL 73/78 Annex I, Reg. 31.				
MED/2.6 Sewage systems	Type approval requirements —MARPOL 73/78 Annex IV, Reg. 9.	—IMO Res.MEPC.227(64).	B+D B+E B+F		1.1.2018 (III)
	Carriage and performance requirements —MARPOL 73/78 Annex IV, Reg. 9.				
MED/2.6 Sewage systems	Type approval requirements —MARPOL 73/78 Annex IV, Reg. 9.	—IMO Res.MEPC.227(64), as amended. a)including section 4.2 (for use by passenger ships in all areas, including a MARPOL Annex IV special area), b)not including section 4.2 (for use by ships, other than	B+D B+E B+F G	16.3.2017	
	Carriage and performance requirements —MARPOL 73/78 Annex IV, Reg. 9.				



		passenger ships, in all areas and by passenger ships outside MARPOL Annex IV special areas).			
MED/2.7 Shipboard incinerators	Type approval requirements —MARPOL 73/78 Annex VI, Reg. 16.	—IMO Res.MEPC.76(40)	B+D B+E B+F G		1.1.2018 (II)
	Carriage and performance requirements —MARPOL 73/78 Annex VI, Reg. 16. —IMO MEPC.1/Circ.793.				
MED/2.7 Shipboard incinerators (Incinerator plants with capacities greater than 1,500 kW and up to 4,000 kW)	Type approval requirements —MARPOL 73/78 Annex VI, Reg. 16.	—IMO Res. MEPC.244(66).	B+D B+E B+F G	16.3.2017	
	Carriage and performance requirements				



	—MARPOL 73/78 Annex VI, Reg. 16.				
MED/2.8 NOx analyzer for use on board as per NOx Technical Code 2008	Type approval requirements —IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 13).	—IMO Res. MEPC.177(58) - (NOx Technical code 2008), as amended.	B+D B+E B+F G		
	Carriage and performance requirements —IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 13). —IMO Res. MEPC.177(58) - (NOx Technical code 2008), —IMO Res. MEPC.198(62), —IMO MEPC.1/Circ. 638.				
Item MED/2.9, Equipment using technological methods to limit SOx emissions, - moved to MED/9/2.4.					



<p>MED/2.10 On board exhaust gas cleaning systems</p>	<p>Type approval requirements</p> <p>—IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4),</p> <p>—IMO Res. MEPC.184(59).</p>	<p>—IMO Res.MEPC.184(59).</p>	<p>B+D B+E B+F G</p>		<p>15.5.2018 (III)</p>
<p>MED/2.10 On board exhaust gas cleaning systems</p>	<p>Type approval requirements</p> <p>—IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4),</p> <p>—IMO Res.MEPC.259 (68).</p>	<p>—IMO Res.MEPC.259(68).</p>	<p>Scheme A B+F G</p>	<p>19.6.2018</p>	



	<p>Carriage and performance requirements</p> <p>—IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4).</p>		<p>Scheme B G</p>		
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3. Fire protection equipment

Number and item designation	Regulation SOLAS 74 as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment	First placing on the market	Last placing on board
1	2	3	4	5	6
MED/3.1 Primary decks covering	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/4, —SOLAS 74 Reg. II-2/6, —SOLAS 74 Reg. X/3.</p> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/4, —SOLAS 74 Reg. II-2/6,</p>	<p>—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.</p>	<p>B+D B+E B+F</p>		



	<p>—IMO Res.MSC.36(63)- (1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) 7.</p>				
<p>MED/3.2 Portable fire extinguishers</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)- (FSS Code) 4.</p>	<p>—EN 3-7:2004 incl. A1:2007,</p> <p>—EN 3-8:2006 incl. AC:2007,</p> <p>—EN 3-9:2006 incl. AC:2007,</p> <p>— EN 3-10:2009.</p>	<p>B+D B+E B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/4,</p> <p>—SOLAS 74 Reg. II-2/10,</p>				



	<p>—SOLAS 74 Reg. II-2/18,</p> <p>—SOLAS 74 Reg. II-2/19,</p> <p>—SOLAS 74 Reg. II-2/20,</p> <p>—IMO Res.A.951(23),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 4.</p> <p>—IMO Res.MSC.391(95)-(IGF Code) 11,</p> <p>—IMO MSC/Circ.1239,</p> <p>—IMO MSC/Circ.1275.</p>				
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MED/3.3 a) Fire-fighter's outfit: protective clothing (close proximity clothing) —Protective non reflective clothing for fire fighting	Type approval requirements —SOLAS 74 Reg. II- 2/10, —SOLAS 74 Reg. X/3, —IMO Res.MSC.98(73)- (FSS Code) 3.	—EN 469:2005 incl. A1:2006 and AC:2006.	B+D B+E B+F		
	Carriage and performance requirements —SOLAS 74 Reg. II- 2/10, —IMO Res.MSC.36(63)- (1994 HSC Code) 7, —IMO Res.MSC.97(73)- (2000 HSC Code) 7, —IMO Res.MSC.98(73)- (FSS Code) 3.				



<p>MED/3.3 b) Fire-fighter's outfit: protective clothing (close proximity clothing)</p> <p>—Protective clothing for fire-fighting: Reflective clothing for specialised fire-fighting</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/10, —SOLAS 74 Reg. X/3, —IMO Res.MSC.98(73)-(FSS Code) 3.</p>	<p>— EN 1486:2007.</p>	<p>B+D B+E B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10, —IMO Res.MSC.36(63)-(1994 HSC Code) 7, —IMO Res.MSC.97(73)-(2000 HSC Code) 7, —IMO Res.MSC.98(73)-(FSS Code) 3.</p>				



<p>MED/3.3 Fire-fighter's outfit: protective clothing (close proximity clothing)</p> <p>—Protective clothing for fire-fighting: Protective clothing with a reflective outer surface</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II- 2/10, —SOLAS 74 Reg. X/3, —IMO Res.MSC.98(73)- (FSS Code) 3.</p>	<p>— ISO 15538:2001. Note: Level 2</p>	<p>B+D B+E B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II- 2/10, —IMO Res.MSC.36(63)- (1994 HSC Code) 7, —IMO Res.MSC.97(73)- (2000 HSC Code) 7, —IMO Res.MSC.98(73)- (FSS Code) 3.</p>				



<p>MED/3.4 Fire-fighter's outfit: boots</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. II-2/10, —SOLAS 74 Reg. X/3, —IMO Res.MSC.98(73)-(FSS Code) 3. 	<p>— EN 15090:2012.</p>	<p>B+D B+E B+F</p>		
<p>Carriage and performance requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. II-2/10, —IMO Res.MSC.36(63)-(1994 HSC Code) 7, —IMO Res.MSC.97(73)-(2000 HSC Code) 7, —IMO Res.MSC.98(73)-(FSS Code) 3. 					



<p>MED/3.4 Fire-fighter's outfit: boots</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. II-2/10, —SOLAS 74 Reg. X/3, —IMO Res.MSC.98(73)-(FSS Code) 3. 	<p>— EN 15090:2012.</p>	<p>B+D B+E B+F</p>		
<p>Carriage and performance requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. II-2/10, —SOLAS 74 Reg. II-2/15, —IMO Res.MSC.4(48)-(IBC Code) 11, —IMO Res.MSC.5(48)-(IGC Code) 11 —IMO Res.MSC.36(63)-(1994 HSC Code) 7, 					



	<p>—IMO Res.MSC.97(73)- (2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)- (FSS Code) 3.</p>				
<p>MED/3.5 Fire-fighter's outfit: gloves</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)- (FSS Code) 3.</p>	<p>—EN 659:2003 incl. A1:2008 and AC:2009.</p>	<p>B+D B+E B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—IMO Res.MSC.36(63)- (1994 HSC Code) 7,</p>				



	<p>—IMO Res.MSC.97(73)- (2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)- (FSS Code) 3.</p>				
<p>MED/3.5 Fire-fighter's outfit: gloves</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II- 2/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)- (FSS Code) 3.</p>	<p>—EN 659:2003 incl. A1:2008 and AC:2009.</p>	<p>B+D B+E B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II- 2/10,</p> <p>—SOLAS 74 Reg. II- 2/15,</p>				



	<ul style="list-style-type: none"> —IMO Res.MSC.4(48)- (IBC Code) 11, —IMO Res.MSC.5(48)- (IGC Code) 11, —IMO Res.MSC.36(63)- (1994 HSC Code) 7, —IMO Res.MSC.97(73)- (2000 HSC Code) 7, —IMO Res.MSC.98(73)- (FSS Code) 3. 				
<p>MED/3.6 Fire-fighter's outfit: helmet</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. II-2/10, —SOLAS 74 Reg. X/3, —IMO Res.MSC.98(73)- (FSS Code) 3. 	<p>— EN 443:2008.</p>	<p>B+D B+E B+F</p>		



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 3.</p>				
<p>MED/3.6</p> <p>Fire-fighter's outfit: helmet</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 3.</p>	<p>— EN 443:2008.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—SOLAS 74 Reg. II-2/15,</p> <p>—IMO Res.MSC.4(48)-(IBC Code) 11,</p> <p>—IMO Res.MSC.5(48)-(IGC Code) 11,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 3.</p>				
MED/3.7	Type approval requirements		B+D		19.6.2018



<p>Self-contained compressed-air-operated breathing apparatus</p> <p>Note: For use in accidents involving dangerous goods a positive pressure type mask is required.</p>	<p>—SOLAS 74 Reg. II-2/10, —SOLAS 74 Reg. X/3, —IMO Res.MSC.98(73)-(FSS Code) 3.</p>	<p>—EN 136:1998 incl. AC:2003, — EN 137:2006, And where the apparatus is for use in accidents with cargo:, — ISO 23269-3:2011.</p>	<p>B+E B+F</p>		<p>(II)</p>
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10, —IMO Res.MSC.36(63)-(1994 HSC Code) 7, —IMO Res.MSC.97(73)-(2000 HSC Code) 7, —IMO Res.MSC.98(73)-(FSS Code) 3.</p> <p>And where the apparatus is for use in accidents with cargo:,</p>				



	<p>—IMO Res.MSC.4(48)- (IBC Code) 14,</p> <p>—IMO Res.MSC.5(48)- (IGC Code) 14,</p> <p>—IMO MSC.1/Circ.1499.</p>				
<p>MED/3.7 Self-contained compressed-air-operated breathing apparatus Note: For use in accidents involving dangerous goods a positive pressure type mask is required. (Refer to item 7.1)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II- 2/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)- (FSS Code) 3.</p>	<p>ISO 23269-2:2011 (fire- fighting — maritime use only) Type 1 mask shall not be used in either MED/3.7 or MED/7.1</p>	<p>B+D B+E B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II- 2/10,</p> <p>—SOLAS 74 Reg. II- 2/15,</p>				



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 3.</p>				
<p>MED/3.7 Self-contained compressed-air-operated breathing apparatus Note: For use in accidents involving dangerous goods a positive pressure type mask is required. (Refer to item 7.1)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 3.</p>	<p>ISO 23269-2:2011 (fire-fighting — maritime use only)</p> <p>Type 1 mask shall not be used in either UK/3.7 or UK/7.1</p> <p>Note: Associated fireproof lifeline requested by ISO 23269 § 4.28 shall be certified as item UK/3.44 and used in conjunction with the breathing apparatus and capable of being attached by means of a snap-hook to the harness of the apparatus or to a separate belt in order to prevent the breathing apparatus becoming</p>	<p>B+D B+E B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p>				



	<p>—SOLAS 74 Reg. II-2/15,</p> <p>—SOLAS 74 Reg. II-2/19,</p> <p>—IMO Res.MSC.4(48)-(IBC Code) 11,</p> <p>—IMO Res.MSC.5(48)-(IGC Code) 11,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 3,</p> <p>—IMO MSC.1/Circ.1499,</p> <p>—IMO MSC.1/Circ.1555.</p>	<p>detached when the lifeline is operated.</p> <p>Air breathing apparatus module B shall indicate the fireproof lifeline as mandatory combined component</p>			
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MED/3.8 Compressed air line breathing apparatus	Type approval requirements —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 7, —Note: This equipment is only for high speed craft built under provisions of the 1994 HSC Code.	— EN 14593-1:2005, or: —EN 14594:2005 incl. AC:2005.	B+D B+E B+F		13.3.2021 (II)
	Carriage and performance requirements —IMO Res.MSC.36(63)-(1994 HSC Code) 7,				
MED/3.8 Compressed air line breathing apparatus	Type approval requirements —SOLAS 74 Reg. X/3,	— EN 14593-1:2018, or: — EN 14594:2018.	B+D B+E B+F	13.9.2019	



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—Note: This equipment is only for high speed craft built under provisions of the 1994 HSC Code.</p>				
	<p>Carriage and performance requirements</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p>				
<p>MED/3.9 Sprinkler systems components for accommodation spaces, service spaces and control stations equivalent to that referred to in SOLAS 74 Reg. II-2/12 (limited to nozzles and their performance). (Nozzles for fixed sprinkler systems, for high speed craft (HSC) are included under this item)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—SOLAS 74 Reg. X/3,</p>	<p>—IMO Res. A.800(19),as amended.</p>	<p>B+D B+E B+F</p>		



<p>(Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board, can still be applied).</p>	<p>—IMO Res.MSC.98(73)- (FSS Code) 8.</p>				
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/7, —SOLAS 74 Reg. II-2/9, —SOLAS 74 Reg. II-2/10, —IMO Res.MSC.36(63)- (1994 HSC Code) 7, —IMO Res.MSC.44(65), —IMO Res.MSC.97(73)- (2000 HSC Code) 7, —IMO Res.MSC.98(73)- (FSS Code) 8.</p>				



	<p>—IMO MSC/Circ.912,</p> <p>—IMO MSC/Circ. 1556.</p>				
<p>MED/3.10</p> <p>—Nozzles for fixed pressure water spraying fire extinguishing systems for machinery spaces and cargo pump-rooms</p> <p>(Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board, can still be applied).</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 7.</p>	<p>—IMO MSC/Circ.1165, as amended</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-</p>				



	<p>(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 7,</p> <p>—IMO Res.MSC.391(95)-(IGF Code) 11).</p> <p>—IMO MSC.1/Circ.1313.</p>				
<p>MED/3.11a</p> <p>'A' & 'B' Class divisions fire integrity</p> <p>(a) 'A' class divisions,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/3.2.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/3.2.</p> <p>—SOLAS 74 Reg. II-2/9,</p> <p>—IMO MSC/Circ.1120,</p> <p>—IMO MSC.1/Circ.1434.</p>	<p>—IMO Res.MSC.307(88)-(2010 FTP Code), as amended,</p> <p>—IMO MSC.1/Circ.1435.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		



MED/3.11a 'A' & 'B' Class divisions fire integrity (a) 'A' class divisions,	Type approval requirements —SOLAS 74 Reg. II-2/3.2, —IMO MSC/Circ.1120.	—IMO Res.MSC.307(88)-(2010 FTP Code), as amended, —IMO MSC.1/Circ.1435.	B+D B+E B+F		
	Carriage and performance requirements —SOLAS 74 Reg. II-2/3.2. —SOLAS 74 Reg. II-2/9, —IMO MSC/Circ.1120, —IMO MSC.1/Circ.1434.				
MED/3.11b 'A' & 'B' Class divisions fire integrity (b) 'B' class divisions.	Type approval requirements —SOLAS 74 Reg. II-2/3.4.	—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.	B+D B+E B+F		
	Carriage and performance requirements				



	<p>—SOLAS 74 Reg. II-2/3.4.</p> <p>—SOLAS 74 Reg. II-2/9.</p>				
<p>MED/3.11b</p> <p>'A' & 'B' Class divisions fire integrity</p> <p>(b) 'B' class divisions.</p> <p>Note: Excludes restricted B-Class divisions/doors.</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/3.4.</p> <p>—IMO MSC/Circ.1120.</p>	<p>—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/3.4.</p> <p>—SOLAS 74 Reg. II-2/9,</p> <p>—IMO MSC/Circ.1120,</p> <p>—IMO MSC.1/Circ.1581.</p>				
MED/3.12	Type approval requirements	a)P/V valves:	For equipment		23.5.2019



<p>Devices to prevent the passage of flame into the cargo tanks in tankers</p>	<p>—SOLAS 74 Reg. II-2/4, —SOLAS 74 Reg. II-2/16.</p>	<p>—IMO MSC/Circ.677, as amended, — EN ISO 16852:2010, — ISO 15364:2016.</p>	<p>other than valves: B+D B+E B+F</p>		<p>(III)</p>
	<p>Carriage and performance requirements —SOLAS 74 Reg. II-2/4, —SOLAS 74 Reg. II-2/16. —IMO Res.MSC.98(73)-(FSS Code) 15.</p>	<p>b)Flame arresters: —IMO MSC/Circ.677, as amended, — EN ISO 16852:2010. c)Detonation flame arresters —IMO MSC/Circ.677, as amended. — EN ISO 16852:2010. d)High velocity vent valves: —IMO MSC/Circ.677, as amended, — EN ISO 16852:2010, — ISO 15364:2016.</p>	<p>For valves B+F</p>		
<p>MED/3.12 Devices to prevent the passage of flame into the cargo tanks in tankers</p>	<p>Type approval requirements —SOLAS 74 Reg. II-2/4,</p>	<p>a)P/V valves: —IMO MSC/Circ.677, as amended,</p>	<p>For equipment other than valves:</p>	<p>19.6.2018</p>	



	<p>—SOLAS 74 Reg. II-2/16.</p>	<p>— EN ISO 16852:2016, — ISO 15364: 2016.</p>	<p>B+D B+E B+F For valves B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/4, —SOLAS 74 Reg. II-2/16. —IMO Res.MSC.98(73)-(FSS Code) 15.</p>	<p>b)Flame arresters: —IMO MSC/Circ.677, as amended, — EN ISO 16852:2016,</p> <p>c)Detonation flame arresters —IMO MSC/Circ.677, as amended, — EN ISO 16852:2016,</p> <p>d)High velocity vent valves: —IMO MSC/Circ.677, as amended, — EN ISO 16852:2016, — ISO 15364:2016.</p>			
<p>MED/3.13 Non-combustible materials</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/3, —SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.</p>	<p>B+D B+E B+F</p>		



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/3,</p> <p>—SOLAS 74 Reg. II-2/5,</p> <p>—SOLAS 74 Reg. II-2/9,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7.</p>				
MED/3.14, Materials other than steel for pipes penetrating 'A' and 'B' Class divisions – Item included in MED/3.26 and MED/3.27.					
<p>MED/3.15a</p> <p>Materials other than steel for pipes conveying oil or fuel oil</p> <p>— plastic pipes and fittings</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/4,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.A.753(18), as amended,</p> <p>—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/4,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 10,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 10,</p> <p>—IMO MSC/Circ.1120.</p>				
MED/3.15b	Type approval requirements	— EN ISO 10497:2010.	B+D		



<p>Materials other than steel for pipes conveying oil or fuel oil</p> <p>— valves</p>	<p>—SOLAS 74 Reg. II-2/4,</p> <p>—SOLAS 74 Reg. X/3.</p>		<p>B+E</p> <p>B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/4,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 10,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 10,</p>				



	—IMO MSC/Circ.1120.				
MED/3.15c Materials other than steel for pipes conveying oil or fuel oil (c)flexible pipe assemblies and compensators	Type approval requirements —SOLAS 74 Reg. II- 2/4, —SOLAS 74 Reg. X/3.	Flexible pipe assemblies: — EN ISO 15540:2001, — EN ISO 15541:2001.	B+D B+E B+F		1.7.2019 (III)
	Carriage and performance requirements —SOLAS 74 Reg. II- 2/4, —IMO Res.MSC.36(63)- (1994 HSC Code) 7, —IMO Res.MSC.36(63)- (1994 HSC Code) 10, —IMO Res.MSC.97(73)- (2000 HSC Code) 7,				



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 10,</p> <p>—IMO MSC/Circ.1120.</p>				
<p>MED/3.15c</p> <p>Materials other than steel for pipes conveying oil or fuel oil</p> <p>—flexible pipe assemblies and compensators</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/4,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>— ISO 15540:2016,</p> <p>— ISO 15541:2016,</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>19.6.2018</p>	
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/4,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 10,</p>				



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 10,</p> <p>—IMO MSC/Circ.1120.</p>				
<p>MED/3.15d</p> <p>Materials other than steel for pipes conveying oil or fuel oil</p> <p>—metallic pipe components with resilient and elastomeric seals</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/4,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>— ISO 19921:2005,</p> <p>— ISO 19922:2005.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/4,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p>				



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 10,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 10,</p> <p>—IMO MSC/Circ.1120,</p> <p>—IMO MSC/Circ.1527.</p>				
<p>MED/3.16 Fire Doors</p> <p>Note: Restricted B-Class divisions including door are not covered by the EU-USA Mutual Recognition Agreement. Refer to MarED Group of Notified Bodies' Approved Recommendation 071.</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/9.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/9,</p>	<p>—IMO Res.MSC.307(88)-(2010 FTP Code), as amended,</p> <p>—IMO MSC.1/Circ.1319</p>	<p>B+D B+E B+F</p>		



	—IMO MSC.1/Circ.1511.				
MED/3.17 Fire door control systems components. Note: When the term 'system components' is used it may be that a single component, a group of components or a whole system needs to be tested to ensure that the international requirements are fulfilled.	Type approval requirements —SOLAS 74 Reg. II-2/9, —SOLAS 74 Reg. X/3.	—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.	B+D B+E B+F		
	Carriage and performance requirements —SOLAS 74 Reg. II-2/9, —IMO Res.MSC.97(73)-(2000 HSC Code) 7.				
MED/3.18a Surface materials and floor coverings with low flame-spread characteristics — decorative veneers,	Type approval requirements —SOLAS 74 Reg. II-2/3, —SOLAS 74 Reg. II-2/5,	—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.	B+D B+E B+F		



	<p>—SOLAS 74 Reg. II-2/6, —SOLAS 74 Reg. X/3.</p>				
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/3, —SOLAS 74 Reg. II-2/5, —SOLAS 74 Reg. II-2/6, —IMO Res.MSC.36(63)-(1994 HSC Code) 7, —IMO Res.MSC.97(73)-(2000 HSC Code) 7, —IMO MSC/Circ.1120.</p>				
MED/3.18b	Type approval requirements		B+D		



<p>Surface materials and floor coverings with low flame-spread characteristics</p> <p>— paint systems,</p>	<p>—SOLAS 74 Reg. II-2/3, —SOLAS 74 Reg. II-2/5, —SOLAS 74 Reg. II-2/6, —SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.</p>	<p>B+E B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/3, —SOLAS 74 Reg. II-2/5, —SOLAS 74 Reg. II-2/6, —IMO Res.MSC.36(63)-(1994 HSC Code) 7, —IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p>				



	—IMO MSC/Circ.1120.				
MED/3.18c Surface materials and floor coverings with low flame-spread characteristics — floor coverings.	Type approval requirements —SOLAS 74 Reg. II- 2/3, —SOLAS 74 Reg. II- 2/5, —SOLAS 74 Reg. II- 2/6, —SOLAS 74 Reg. X/3.	—IMO Res.MSC.307(88)- (2010 FTP Code), as amended.	B+D B+E B+F		
	Carriage and performance requirements —SOLAS 74 Reg. II- 2/3, —SOLAS 74 Reg. II- 2/5, —SOLAS 74 Reg. II- 2/6, —IMO Res.MSC.36(63)- (1994 HSC Code) 7,				



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO MSC/Circ.1120.</p>				
<p>MED/3.18d</p> <p>Surface materials and floor coverings with low flame-spread characteristics</p> <p>— pipe insulation covers,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/3,</p> <p>—SOLAS 74 Reg. II-2/5,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/3,</p> <p>—SOLAS 74 Reg. II-2/5,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p>				



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO MSC/Circ.1120.</p>				
<p>MED/3.18e</p> <p>Surface materials and floor coverings with low flame-spread characteristics</p> <p>—adhesives used in the construction of 'A', 'B' & 'C' class divisions,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/3,</p> <p>—SOLAS 74 Reg. II-2/5,</p> <p>—SOLAS 74 Reg. II-2/9,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/3,</p> <p>—SOLAS 74 Reg. II-2/5,</p> <p>—SOLAS 74 Reg. II-2/9,</p>				



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO MSC/Circ.1120.</p>				
<p>MED/3.18f</p> <p>Surface materials and floor coverings with low flame-spread characteristics</p> <p>— combustible ducts membrane</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/3,</p> <p>—SOLAS 74 Reg. II-2/5,</p> <p>—SOLAS 74 Reg. II-2/9,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/3,</p>				



	<p>—SOLAS 74 Reg. II-2/5,</p> <p>—SOLAS 74 Reg. II-2/9,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO MSC/Circ.1120.</p>				
<p>MED/3.19</p> <p>Draperies, curtains and other suspended textile materials and films</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/3,</p> <p>—SOLAS 74 Reg. II-2/9,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.MSC.307(88)-(2010 FTP Code), as amended,</p> <p>—IMO MSC.1/Circ.1456, as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		
	<p>Carriage and performance requirements</p>				



	<p>—SOLAS 74 Reg. II-2/3,</p> <p>—SOLAS 74 Reg. II-2/9,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7.</p>				
<p>MED/3.20</p> <p>— Upholstered furniture</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/3,</p> <p>—SOLAS 74 Reg. II-2/5,</p> <p>—SOLAS 74 Reg. II-2/9,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		
	<p>Carriage and performance requirements</p>				



	<p>—SOLAS 74 Reg. II-2/3,</p> <p>—SOLAS 74 Reg. II-2/5,</p> <p>—SOLAS 74 Reg. II-2/9,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7.</p>				
MED/3.21 Bedding components	Type approval requirements	—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.	B+D B+E B+F		
	<p>—SOLAS 74 Reg. II-2/3,</p> <p>—SOLAS 74 Reg. II-2/9,</p> <p>—SOLAS 74 Reg. X/3.</p>				
	Carriage and performance requirements				



	<p>—SOLAS 74 Reg. II-2/3,</p> <p>—SOLAS 74 Reg. II-2/9,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7.</p>				
<p>MED/3.22</p> <p>— Fire dampers</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/9.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/9.</p>	<p>—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		
<p>Item MED/3.23, Non-combustible duct penetrations through 'A' class divisions — Item deliberately left blank.</p>					
<p>Item MED/3.24, Electric cable transits through 'A' class divisions — Item deliberately left blank.</p>					



MED/3.25 'A' and 'B' class fire proof windows and side scuttles	Type approval requirements —SOLAS 74 Reg. II-2/9.	—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.	B+D B+E B+F		
	Carriage and performance requirements —SOLAS 74 Reg. II-2/9. —IMO MSC/Circ.1120.				
MED/3.25 'A' and 'B' class fire proof windows and side scuttles	Type approval requirements —SOLAS 74 Reg. II-2/9.	—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.	B+D B+E B+F		
	Carriage and performance requirements —SOLAS 74 Reg. II-2/9, —IMO Res.MSC.5(48)-(IGC Code) 3,				



	—IMO MSC/Circ.1120.				
MED/3.26a Penetrations through 'A' class divisions — electric cable transits	Type approval requirements —SOLAS 74 Reg. II-2/9.	—IMO Res.MSC.307(88)-(2010 FTP Code), as amended, — MSC.1/Circ. 1488.	B+D B+E B+F		
	Carriage and performance requirements —SOLAS 74 Reg. II-2/9.				
MED/3.26b Penetrations through 'A' class divisions — pipe, duct, trunk, etc. penetrations	Type approval requirements —SOLAS 74 Reg. II-2/9.	—IMO Res.MSC.307(88)-(2010 FTP Code), as amended, —IMO MSC.1/Circ. 1488.	B+D B+E B+F		
	Carriage and performance requirements —SOLAS 74 Reg. II-2/9, —IMO MSC.1/Circ. 1276.				



MED/3.27a Penetrations through 'B' class divisions — electric cable transits,	Type approval requirements —SOLAS 74 Reg. II-2/9.	—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.	B+D B+E B+F		
	Carriage and performance requirements —SOLAS 74 Reg. II-2/9.				
MED/3.27b Penetrations through 'B' class divisions — pipe, duct, trunk, etc. penetrations.	Type approval requirements —SOLAS 74 Reg. II-2/9.	—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.	B+D B+E B+F		
	Carriage and performance requirements —SOLAS 74 Reg. II-2/9.				
MED/3.28 Sprinkler systems (limited to sprinkler heads).	Type approval requirements —SOLAS 74 Reg. II-2/7,	— ISO 6182-1:2014. Or,	B+D B+E B+F		



<p>(Nozzles for fixed sprinkler systems, for high speed craft (HSC) are included under this item)</p> <p>(Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board, can still be applied).</p>	<p>—SOLAS 74 Reg. II-2/10,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—EN 12259-1:1999 incl. A1:2001, A2:2004 and A3:2006.</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.44(65),</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 8,</p> <p>—IMO MSC/Circ.912,</p>				



	—MSC.1/Circ.1556.				
MED/3.29 Fire-fighting hoses (a) Non-percolating lay flat firefighting hoses (range of the inside diameter from 25 mm to 52 mm)	Type approval requirements —SOLAS 74 Reg. II-2/10, —SOLAS 74 Reg. X/3. Carriage and performance requirements —SOLAS 74 Reg. II-2/10, —IMO Res.MSC.36(63)-(1994 HSC Code) 7, —IMO Res.MSC.97(73)-(2000 HSC Code) 7.	— EN 14540:2014.	B+D B+E B+F		
MED/3.30 Portable oxygen analysis and gas detection equipment	Type approval requirements —SOLAS 74 Reg. II-2/4,	—EN 60945:2002 incl. IEC 60945 Corr. 1:2008, or IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),	B+D B+E B+F		1.6.2019 (II)



	<p>—SOLAS 74 Reg. VI/3, —SOLAS 74 Reg. XI-1/7.</p>	<p>—IEC 60092-504:2001 incl. IEC 60092,-504 Corr.1:2011 — IEC 60533:1999, And as applicable to: a)Category 1: (safe area): — EN 50104:2010, —EN 60079-29-1:2007, b)Category 2: (explosive gas atmospheres);, — EN 50104:2010, —EN 60079-29-1:2007, —EN 60079-0:2012 incl. A11:2013, — EN 60079-1:2014, —EN 60079-10-1:2015, — EN 60079-11:2012, — EN 60079-15:2010, — EN 60079-26:2015.</p>			
	<p>Carriage and performance requirements —SOLAS 74 Reg. II-2/4, —SOLAS 74 Reg. VI/3, —SOLAS 74 Reg. XI-1/7. —IMO Res.MSC.98(73)-(FSS Code) 15, —IMO MSC.1/Circ.1477.</p>				
<p>MED/3.30 Portable oxygen analysis and gas detection equipment</p>	<p>Type approval requirements —SOLAS 74 Reg. II-2/4,</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1:2008, or IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p>	<p>B+D B+E B+F</p>	<p>16.3.2017</p>	<p>28.2.2020 (II)</p>



	<p>—SOLAS 74 Reg. VI/3, —SOLAS 74 Reg. XI-1/7.</p>	<p>— IEC 60092-504:2016, — IEC 60533:2015, And as applicable to: a)Category 1: (safe area): — EN 50104:2010, —EN 60079-29-1:2016, b)Category 2: (explosive gas atmospheres); — EN 50104:2010, —EN 60079-29-1:2007, —EN 60079-0:2012 incl. A11:2013, — EN 60079-1:2014, —EN 60079-10-1:2015, — EN 60079-11:2012, — EN 60079-15:2010, — EN 60079-26:2015.</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/4, —SOLAS 74 Reg. VI/3, —SOLAS 74 Reg. XI-1/7. —IMO Res.MSC.98(73)-(FSS Code) 15, —IMO MSC.1/Circ.1477.</p>				
<p>MED/3.30 Portable oxygen analysis and gas detection equipment</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/4,</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1:2008, or IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,</p>	<p>B+D B+E B+F</p>	<p>19.6.2018</p>	



	<p>—SOLAS 74 Reg. VI/3, —SOLAS 74 Reg. XI-1/7.</p>	<p>— IEC 60092-504:2016, — IEC 60533:2015, And as applicable to: a)Category 1: (safe area): — EN 50104:2010, —EN 60079-29-1:2016, b)Category 2: (explosive gas atmospheres); — EN 50104:2010, —EN 60079-29-1:2016, —EN 60079-0:2012 incl. A11:2013, — EN 60079-1:2014, —EN 60079-10-1:2015, — EN 60079-11:2012, — EN 60079-15:2010, — EN 60079-26:2015.</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/4, —SOLAS 74 Reg. VI/3, —SOLAS 74 Reg. XI-1/7. —IMO Res.MSC.98(73)-(FSS Code) 15, —IMO MSC.1/Circ.1477.</p>				
<p>MED/3.30 Portable oxygen analysis and gas detection equipment</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/4,</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1:2008, or IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p>	<p>B+D B+E B+F</p>		



	<p>—SOLAS 74 Reg. VI/3, —SOLAS 74 Reg. XI-1/7.</p>	<p>— IEC 60092-504:2016, — IEC 60533:2015, And as applicable to: a)Category 1: (safe area): — EN 50104:2010, —EN 60079-29-1:2016, b)Category 2: (explosive gas atmospheres); — EN 50104:2010, —EN 60079-29-1:2016, —EN 60079-0:2012 incl. A11:2013, — EN 60079-1:2014, —EN 60079-10-1:2015, — EN 60079-11:2012, — EN 60079-15:2010, — EN 60079-26:2015.</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/4, —SOLAS 74 Reg. VI/3, —SOLAS 74 Reg. XI-1/7. —IMO Res.MSC.98(73)-(FSS Code) 15, —IMO MSC.1/Circ.1477, —IMO MSC.1/Circ.1581.</p>				
Item MED/3.31, Nozzles for fixed sprinkler systems for high speed craft ((HSC), deleted as it is covered by MED/3.9 and MED/3.28.					
MED/3.32	Type approval requirements		B+D		



Fire restricting materials (except furniture) for high speed craft	—SOLAS 74 Reg. X/3.	—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.	B+E B+F		
	Carriage and performance requirements —IMO Res.MSC.36(63)-(1994 HSC Code) 7, —IMO Res.MSC.97(73)-(2000 HSC Code) 7, —IMO MSC.1/Circ.1457.				
MED/3.33 Fire restricting materials for furniture for high speed craft	Type approval requirements —SOLAS 74 Reg. X/3.	—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.	B+D B+E B+F		
	Carriage and performance requirements —IMO Res.MSC.36(63)-				



	(1994 HSC Code) 7, —IMO Res.MSC.97(73)- (2000 HSC Code) 7.				
MED/3.34 Fire resisting divisions for high speed craft	Type approval requirements —SOLAS 74 Reg. X/3. Carriage and performance requirements —IMO Res.MSC.36(63)- (1994 HSC Code) 7, —IMO Res.MSC.97(73)- (2000 HSC Code) 7, —IMO MSC.1/Circ.1457.	—IMO Res.MSC.307(88)- (2010 FTP Code), as amended.	B+D B+E B+F		
MED/3.35	Type approval requirements		B+D		



Fire doors on high speed craft	—SOLAS 74 Reg. X/3.	—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.	B+E B+F		
	Carriage and performance requirements —IMO Res.MSC.36(63)-(1994 HSC Code) 7, —IMO Res.MSC.97(73)-(2000 HSC Code) 7.				
MED/3.36 Fire dampers on high speed craft	Type approval requirements —SOLAS 74 Reg. X/3.	—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.	B+D B+E B+F		
	Carriage and performance requirements —IMO Res.MSC.36(63)-(1994 HSC Code) 7,				



	—IMO Res.MSC.97(73)-(2000 HSC Code) 7.				
MED/3.37a Penetrations through fire resisting divisions on high speed craft — electric cable transits,	Type approval requirements —SOLAS 74 Reg. X/3.	—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.	B+D B+E B+F		
	Carriage and performance requirements —IMO Res.MSC.36(63)-(1994 HSC Code) 7, —IMO Res.MSC.97(73)-(2000 HSC Code) 7.				
MED/3.37b Penetrations through fire resisting divisions on high speed craft	Type approval requirements —SOLAS 74 Reg. X/3.	—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.	B+D B+E B+F		



<p>— pipe, duct, trunk etc. penetrations.</p>	<p>Carriage and performance requirements</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7.</p>				
<p>MED/3.38</p> <p>—Portable fire-extinguishing equipment for lifeboats and rescue boats</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>—EN 3-7:2004 incl. A1:2007,</p> <p>—EN 3-8:2006 incl. AC:2007,</p> <p>—EN 3-9:2006 incl. AC:2007,</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.A.951(23),</p>	<p>— EN 3-10:2009.</p>			



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) I,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) IV,</p> <p>—IMO Res.MSC.48(66)-(LSA Code) V,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>				
<p>MED/3.39 Nozzles for equivalent water-mist fire extinguishing systems for machinery spaces and cargo pump rooms</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 7.</p>	<p>—IMO MSC/Circ.1165, as amended.</p>	<p>B+D B+E B+F</p>		



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 7.</p> <p>—IMO MSC.1/Circ.1313,</p> <p>—IMO MSC.1/Circ.1458.</p>				
<p>MED/3.40</p> <p>Low-location lighting systems (components only)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/13,</p>	<p>— IMO Res.A.752(18),</p> <p>— ISO 15370:2010.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		



	<p>—IMO Res.MSC.98(73)-(FSS Code) 11.</p>				
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/13,</p> <p>—IMO Res.A.752(18),</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 11.</p>				
<p>MED/3.41 Emergency escape breathing devices (EEBD)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/13.</p>	<p>— ISO 23269-1:2008, and alternatively:</p> <p>—For self-contained: open-circuit compressed air breathing apparatus with full mask or mouthed piece assembly for escape:</p> <p>— EN 402:2003;</p> <p>—For self-contained open-circuit compressed air</p>	<p>B+D B+E B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/13.</p>				



	<ul style="list-style-type: none"> —IMO Res.MSC.98(73)-(FSS Code) 3, —IMO MSC/Circ.849. 	<p>breathing apparatus with a hood for escape:</p> <ul style="list-style-type: none"> — EN 1146:2005; —For self-contained: closed-circuit compressed air breathing apparatus: — EN 13794:2002. 			
MED/3.42 Inert gas systems components	Type approval requirements	<ul style="list-style-type: none"> —IMO MSC/Circ.353, as amended. 	<p>B+D B+E B+F G</p>		
	<p>Carriage and performance requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. II-2/4. —IMO Res.A.567(14), —IMO Res.MSC.98(73)-(FSS Code) 15, —IMO MSC/Circ.353, 				



	<ul style="list-style-type: none"> —IMO MSC/Circ.485, —IMO MSC/Circ.731, —IMO MSC/Circ.1120. 				
<p>MED/3.42 Inert gas system components</p> <p>Note: Equipment regarded as Inert gas system components under MED/3.42 are in general:</p> <ul style="list-style-type: none"> — Inert gas fans/blowers — Inert gas generator — Scrubber — Sea water pumps for scrubber —Nitrogen generator (being equivalent to IGG) —Nitrogen air compressor (equivalent to blowers) —Inert gas control and monitoring system (to include DBB-arrangement, if fitted) — Pressure vessels 	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/4.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/4.</p> <p>—IMO Res.A.567(14),</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 15,</p> <p>—IMO MSC/Circ.353,</p> <p>—IMO MSC/Circ.485,</p>	<p>—IMO MSC/Circ.353, as amended.</p>	<p>B+D B+E B+F G</p>		



<ul style="list-style-type: none"> —Double block and bleed valve arrangement (being equivalent to deck water seal) — Pressure/Vacuum-breaker — Deck water seal —Sea water pumps for deck water seal —Dryer-absorber (if pressure vessel, e.g. swing type) —Membrane separation vessels (pressure vessels for N2) —Cooling water pumps for compressors (normally air cooled) — Non-return valves — Gas regulating valve 	<ul style="list-style-type: none"> —IMO MSC/Circ.731, —IMO MSC/Circ.1120. 				
<p>MED/3.43 Nozzles for deep fat cooking equipment fire extinguishing systems (automatic or manual type). (Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board, can still be applied).</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. II-2/1, —SOLAS 74 Reg. II-2/10, —SOLAS 74 Reg. X/3. 	<p>— ISO 15371:2009.</p>	<p>B+D B+E B+F</p>		<p>15.11.2018 (II)</p>



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/1,</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO MSC.1/Circ.1433.</p>				
<p>MED/3.43</p> <p>Nozzles for deep fat cooking equipment fire extinguishing systems (automatic or manual type).</p> <p>(Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board, can still be applied).</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/1,</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>— ISO 15371:2015.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>16.3.2017</p>	
	<p>Carriage and performance requirements</p>				



	<p>—SOLAS 74 Reg. II-2/1,</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO MSC.1/Circ.1433.</p>				
<p>MED/3.44</p> <p>Fire-fighters outfit - lifeline</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 3.</p>	<p>—IMO Res.MSC.98(73)-(FSS Code) 3, as amended,</p> <p>—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		<p>3.10.2022 (II)</p>
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p>				



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 3.</p>				
<p>MED/3.44 Fire-fighters outfit – lifeline Lifelines for breathing apparatus approved under item MED/3.7 and item MED/7.1</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 3.</p>	<p>—IMO Res.MSC.98(73)-(FSS Code) 3, as amended,</p> <p>—IMO Res.MSC.307(88)-(2010 FTP Code), as amended,</p> <p>— ISO 23269-2:2011</p>	<p>B+D B+E B+F</p>	<p>3.10.2019</p>	
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p>				



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 3.</p>				
<p>MED/3.45</p> <p>Equivalent fixed gas fire extinguishing systems components (extinguishing medium, head valves and nozzles) for machinery spaces and cargo pump rooms</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 5.</p>	<p>—IMO MSC/Circ.848, as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p>				



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 5.</p> <p>—IMO MSC/Circ.848,</p> <p>—IMO MSC.1/Circ.1313.</p>				
<p>MED/3.46</p> <p>Equivalent fixed gas fire extinguishing systems for machinery spaces (aerosol systems)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 5.</p>	<p>—IMO MSC/Circ.1270 incl. Corr.1, as amended.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 5.</p> <p>—IMO MSC/Circ.1270 incl. Corr.1,</p> <p>—IMO MSC.1/Circ.1313.</p>				
<p>MED/3.47</p> <p>Concentrate for fixed high expansion foam fire extinguishing systems for machinery spaces and cargo pump rooms.</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/10.</p>	<p>— IMO MSC/Circ.670.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		



<p>Note: The fixed high expansion foam fire extinguishing system (including those systems which use inside air from their working spaces for their intended performance), for machinery spaces and cargo pump rooms must still be tested with the approved concentrate to the satisfaction of the Administration.</p>	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10.</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 6.</p>				
<p>MED/3.48</p> <p>Fixed water based local application fire-fighting systems components for use in category A machinery spaces (Nozzles and performance tests).</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>— IMO MSC.1/Circ.1387.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		
<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-</p>					



	(2000 HSC Code) 7.				
MED/3.49a Fixed water-based fire-fighting systems for ro-ro spaces, vehicle spaces and special category spaces —Prescriptive-based systems as per Circ.1430 Clause 4.	Type approval requirements —SOLAS 74 Reg. II- 2/19, —SOLAS 74 Reg. II- 2/20, —SOLAS 74 Reg. X/3, —IMO Res.MSC.98(73)- (FSS Code) 7.	—IMO MSC.1/Circ.1430.	B+D B+E B+F		
	Carriage and performance requirements —SOLAS 74 Reg. II- 2/19, —SOLAS 74 Reg. II- 2/20, —IMO Res.MSC.36(63)- (1994 HSC Code) 7,				



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 7.</p>				
<p>MED/3.49b</p> <p>Fixed water-based firefighting systems for ro-ro spaces, vehicle spaces and special category spaces</p> <p>—Performance-based systems as per Circ. 1430 Clause 5.</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/19,</p> <p>—SOLAS 74 Reg. II-2/20,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 7.</p>	<p>—IMO MSC.1/Circ.1430.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/19,</p> <p>—SOLAS 74 Reg. II-2/20,</p>				



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 7.</p>				
MED/3.50, Protective clothing resistant to chemical attack, - item moved to MED/9/3.9.					
<p>MED/3.51a</p> <p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p> <p>— Control and indicating equipment</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p>	<p>Electrical installations in ships:</p> <p>—EN 54-2:1997 incl. AC:1999 and A1:2006.</p> <p>And, as applicable, electrical and electronic installations in ships:</p> <p>—IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011,</p> <p>— IEC 60533:1999.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		<p>1.6.2019</p> <p>(III)</p>
	<p>Carriage and performance requirements</p>				



	<ul style="list-style-type: none"> —SOLAS 74 Reg. II-2/7, —IMO Res.MSC.36(63)-(1994 HSC Code) 7, —IMO Res.MSC.97(73)-(2000 HSC Code) 7, —IMO Res.MSC.98(73)-(FSS Code) 9. —IMO MSC.1/Circ.1242. 				
<p>MED/3.51a</p> <p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p> <p>— Control and indicating equipment</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. II-2/7, —SOLAS 74 Reg. X/3, —IMO Res.MSC.98(73)-(FSS Code) 9. 	<p>Electrical installations in ships:</p> <ul style="list-style-type: none"> —EN 54-2:1997 incl. AC:1999 and A1:2006. <p>And, as applicable, electrical and electronic installations in ships:</p> <ul style="list-style-type: none"> — IEC 60092-504:2016, 	<p>B+D</p> <p>B+E</p> <p>B+F</p>	16.3.2017	1.1.2020 (III)



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9,</p> <p>—IMO MSC.1/Circ.1242,</p> <p>—IMO MSC.1/Circ.1487,</p>	— IEC 60533:2015.			
<p>MED/3.51a</p> <p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. X/3,</p>	<p>Electrical installations in ships:</p> <p>—EN 54-2:1997 incl. AC:1999 and A1:2006.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	19.6.2018	



<p>— Control and indicating equipment</p>	<p>—IMO Res.MSC.98(73)- (FSS Code) 9.</p>	<p>And, as applicable, electrical and electronic installations in ships:</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II- 2/7,</p> <p>—IMO Res.MSC.36(63)- (1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)- (FSS Code) 9,</p> <p>—IMO Res.MSC.391(95)- (IGF Code) 11,</p> <p>—IMO MSC.1/Circ.1242,</p> <p>—IMO MSC.1/Circ.1487,</p>	<p>— -IEC 60092-504:2016, — IEC 60533:2015.</p>			



	—MSC.1/Circ.1528.				
<p>MED/3.51b Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p> <p>— Power supply equipment,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p>	<p>—EN 54-4:1997 incl. AC:1999, A1:2002 and A2:2006.</p> <p>And, as applicable, electrical and electronic installations in ships:</p> <p>—IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011,</p> <p>— IEC 60533:1999.</p>	<p>B+D B+E B+F</p>		<p>1.6.2019 (III)</p>
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p>				



	<p>—IMO Res.MSC.98(73)- (FSS Code) 9.</p> <p>—IMO MSC.1/Circ.1242.</p>				
<p>MED/3.51b</p> <p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p> <p>— Power supply equipment,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)- (FSS Code) 9.</p>	<p>—EN 54-4:1997 incl. AC:1999, A1:2002 and A2:2006.</p> <p>And, as applicable, electrical and electronic installations in ships:</p> <p>— IEC 60092-504:2016,</p> <p>— IEC 60533:2015.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>16.3.2017</p>	<p>1.1.2020 (III)</p>
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—IMO Res.MSC.36(63)- (1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-</p>				



	(2000 HSC Code) 7, —IMO Res.MSC.98(73)- (FSS Code) 9. —IMO MSC.1/Circ.1242.				
MED/3.51b Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: — Power supply equipment,	Type approval requirements —SOLAS 74 Reg. II-2/7, —SOLAS 74 Reg. X/3, —IMO Res.MSC.98(73)- (FSS Code) 9. Carriage and performance requirements —SOLAS 74 Reg. II-2/7, —IMO Res.MSC.36(63)- (1994 HSC Code) 7,	—EN 54-4:1997 incl. AC:1999, A1:2002 and A2:2006. And, as applicable, electrical and electronic installations in ships: — IEC 60092-504:2016, — IEC 60533:2015.	B+D B+E B+F	19.6.2018	



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p> <p>—IMO Res.MSC.391(95)-(IGF Code) 11,</p> <p>—IMO MSC.1/Circ.1242,</p> <p>—MSC.1/Circ.1554.</p>				
<p>MED/3.51c</p> <p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p> <p>— Heat detectors — Point detectors,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p>	<p>—EN 54-5:2000 incl. A1:2002.</p> <p>And, as applicable, electrical and electronic installations in ships:</p> <p>—IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011,</p> <p>— IEC 60533:1999.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		<p>1.6.2019 (III)</p>
	<p>Carriage and performance requirements</p>				



	<p>—SOLAS 74 Reg. II-2/7,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p> <p>—IMO MSC.1/Circ.1242.</p>				
<p>MED/3.51c</p> <p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p> <p>— Heat detectors — Point detectors,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p>	<p>—EN 54-5:2000 incl. A1:2002.</p> <p>And, as applicable, electrical and electronic installations in ships:</p> <p>— IEC 60092-504:2016,</p> <p>— IEC 60533:2015.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>16.3.2017</p>	<p>28.2.2020 (III)</p>



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p> <p>—IMO MSC.1/Circ.1242.</p>				
<p>MED/3.51c</p> <p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. X/3,</p>	<p>—EN 54-5:2000 incl. A1:2002.</p> <p>— EN 54-5:2017,</p> <p>And, as applicable, electrical and electronic installations in ships:</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>19.6.2018</p>	



<p>— Heat detectors — Point detectors,</p>	<p>—IMO Res.MSC.98(73)- (FSS Code) 9.</p>	<p>— IEC 60092-504:2016, — IEC 60533:2015.</p>			
<p>MED/3.51d Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin</p>	<p>Carriage and performance requirements —SOLAS 74 Reg. II- 2/7, —IMO Res.MSC.36(63)- (1994 HSC Code) 7, —IMO Res.MSC.97(73)- (2000 HSC Code) 7, —IMO Res.MSC.98(73)- (FSS Code) 9. —IMO MSC.1/Circ.1242.</p>	<p>—EN 54-7:2000 incl. A1:2002 and A2:2006.</p>	<p>B+D B+E B+F</p>		<p>31.8.2022 (II)</p>



balconies, machinery spaces and unattended machinery spaces: —Smoke detectors: Point detectors using scattered light, transmitted light or ionization,	—SOLAS 74 Reg. X/3, —IMO Res.MSC.98(73)-(FSS Code) 9.	And, as applicable, electrical and electronic installations in ships: —IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011, — IEC 60533:1999.			
	Carriage and performance requirements —SOLAS 74 Reg. II-2/7, —IMO Res.MSC.36(63)-(1994 HSC Code) 7, —IMO Res.MSC.97(73)-(2000 HSC Code) 7, —IMO Res.MSC.98(73)-(FSS Code) 9. —IMO MSC.1/Circ.1242.				
MED/3.51d	Type approval requirements	— EN 54-7:2018.	B+D	13.9.2019	



<p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p> <p>—Smoke detectors: Point detectors using scattered light, transmitted light or ionization,</p>	<p>—SOLAS 74 Reg. II-2/7, —SOLAS 74 Reg. X/3, —IMO Res.MSC.98(73)-(FSS Code) 9.</p>	<p>And, as applicable, electrical and electronic installations in ships:</p> <p>— IEC 60092-504:2016, — IEC 60533:2015.</p>	<p>B+E B+F</p>		
<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/7, —IMO Res.MSC.36(63)-(1994 HSC Code) 7, —IMO Res.MSC.97(73)-(2000 HSC Code) 7, —IMO Res.MSC.98(73)-(FSS Code) 9, —IMO Res.MSC.391(95)-(IGF Code) 11,</p>					



	—IMO MSC.1/Circ.1242.				
MED/3.51e Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: — Flame detectors: Point detectors,	Type approval requirements —SOLAS 74 Reg. II-2/7, —SOLAS 74 Reg. X/3, —IMO Res.MSC.98(73)-(FSS Code) 9.	—EN 54-10:2002 incl. A1:2005. And, as applicable, electrical and electronic installations in ships: —IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011, — IEC 60533:1999.	B+D B+E B+F		1.6.2019 (III)
	Carriage and performance requirements —SOLAS 74 Reg. II-2/7, —IMO Res.MSC.36(63)-(1994 HSC Code) 7, —IMO Res.MSC.97(73)-(2000 HSC Code) 7,				



	<p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p> <p>—IMO MSC.1/Circ.1242.</p>				
<p>MED/3.51e</p> <p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p> <p>— Flame detectors: Point detectors,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p>	<p>—EN 54-10:2002 incl. A1:2005,</p> <p>And, as applicable, electrical and electronic installations in ships:</p> <p>— IEC 60092-504:2016,</p> <p>— IEC 60533:2015.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>16.3.2017</p>	<p>1.1.2020 (III)</p>
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-</p>				



	<p>(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)- (FSS Code) 9.</p> <p>—IMO MSC.1/Circ.1242.</p>				
<p>MED/3.51e</p> <p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p> <p>— Flame detectors: Point detectors,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)- (FSS Code) 9.</p>	<p>—EN 54-10:2002 incl. A1:2005,</p> <p>And, as applicable, electrical and electronic installations in ships:</p> <p>— IEC 60092-504:2016,</p> <p>— IEC 60533:2015.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>19.6.2018</p>	
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—IMO Res.MSC.36(63)- (1994 HSC Code) 7,</p>				



	<ul style="list-style-type: none"> —IMO Res.MSC.97(73)-(2000 HSC Code) 7, —IMO Res.MSC.98(73)-(FSS Code) 9, —IMO Res.MSC.391(95)-(IGF Code) 11, —IMO MSC.1/Circ.1242. 				
<p>MED/3.51f Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p> <p>— Manual call points,</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. II-2/7, —SOLAS 74 Reg. X/3, —IMO Res.MSC.98(73)-(FSS Code) 9. 	<p>—EN 54-11:2001 incl. A1:2005.</p> <p>And, as applicable, electrical and electronic installations in ships:</p> <ul style="list-style-type: none"> —IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011, — IEC 60533:1999. 	<p>B+D B+E B+F</p>		<p>1.6.2019 (III)</p>
	<p>Carriage and performance requirements</p>				



	<p>—SOLAS 74 Reg. II-2/7,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p> <p>—IMO MSC.1/Circ.1242.</p>				
<p>MED/3.51f</p> <p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p> <p>— Manual call points,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p>	<p>—EN 54-11:2001 incl. A1:2005.</p> <p>And, as applicable, electrical and electronic installations in ships:</p> <p>— IEC 60092-504:2016,</p> <p>— IEC 60533:2015.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>16.3.2017</p>	<p>1.1.2020 (III)</p>



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p> <p>—IMO MSC.1/Circ.1242.</p>				
<p>MED/3.51f</p> <p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. X/3,</p>	<p>—EN 54-11:2001 incl. A1:2005.</p> <p>And, as applicable, electrical and electronic installations in ships:</p> <p>— IEC 60092-504:2016,</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	19.6.2018	



<p>— Manual call points,</p>	<p>—IMO Res.MSC.98(73)- (FSS Code) 9.</p>	<p>— IEC 60533:2015.</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II- 2/7,</p> <p>—IMO Res.MSC.36(63)- (1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)- (FSS Code) 9,</p> <p>—IMO Res.MSC.391(95)- (IGF Code) 11,</p> <p>—IMO MSC.1/Circ.1242.</p>				



<p>MED/3.51 g</p> <p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p> <p>— Short circuit isolators</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p>	<p>—EN 54-17:2005 incl. AC:2007.</p> <p>And, as applicable, electrical and electronic installations in ships:</p> <p>—IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011,</p> <p>— IEC 60533:1999.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		<p>1.6.2019 (III)</p>
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p>				



	—IMO MSC.1/Circ.1242.				
MED/3.51 g Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: — Short circuit isolators	Type approval requirements —SOLAS 74 Reg. II-2/7, —SOLAS 74 Reg. X/3, —IMO Res.MSC.98(73)-(FSS Code) 9.	—EN 54-17:2005 incl. AC:2007. And, as applicable, electrical and electronic installations in ships: — IEC 60092-504:2016, — IEC 60533:2015.	B+D B+E B+F	16.3.2017	1.1.2020 (III)
	Carriage and performance requirements —SOLAS 74 Reg. II-2/7, —IMO Res.MSC.36(63)-(1994 HSC Code) 7, —IMO Res.MSC.97(73)-(2000 HSC Code) 7,				



	<p>—IMO Res.MSC.98(73)-(FSS Code) 9,</p> <p>—IMO MSC.1/Circ.1242.</p>				
<p>MED/3.51 g</p> <p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p> <p>— Short circuit isolators,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p>	<p>—EN 54-17:2005 incl. AC:2007.</p> <p>And, as applicable, electrical and electronic installations in ships:</p> <p>— IEC 60092-504:2016,</p> <p>— IEC 60533:2015.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	19.6.2018	
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-</p>				



	<p>(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9,</p> <p>—IMO Res.MSC.391(95)-(IGF Code) 11,</p> <p>—IMO MSC.1/Circ.1242.</p>				
<p>MED/3.51 h</p> <p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p> <p>— Input/output devices,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p>	<p>—EN 54-18 (2005) including AC(2007).</p> <p>And, as applicable, electrical and electronic installations in ships:</p> <p>—IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011,</p> <p>— IEC 60533:1999.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		<p>1.6.2019 (III)</p>
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p>				



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p> <p>—IMO MSC.1/Circ.1242.</p>				
<p>MED/3.51 h</p> <p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p> <p>— Input/output devices,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p>	<p>—EN 54-18:2005 incl. AC:2007.</p> <p>And, as applicable, electrical and electronic installations in ships:</p> <p>— IEC 60092-504:2016,</p> <p>— IEC 60533:2015.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>16.3.2017</p>	<p>1.1.2020 (III)</p>
	<p>Carriage and performance requirements</p>				



	<p>—SOLAS 74 Reg. II-2/7,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p> <p>—IMO MSC.1/Circ.1242.</p>				
<p>MED/3.51 h</p> <p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p> <p>— Input/output devices,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p>	<p>—EN 54-18:2005 incl. AC:2007.</p> <p>And, as applicable, electrical and electronic installations in ships:</p> <p>— IEC 60092-504:2016,</p> <p>— IEC 60533:2015.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>19.6.2018</p>	



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9,</p> <p>—IMO Res.MSC.391(95)-(IGF Code) 11,</p> <p>—IMO MSC.1/Circ.1242.</p>				
<p>MED/3.51i</p> <p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p>	<p>— EN 60332-1-2:2004,</p> <p>— IEC 60092-376:2003,</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		<p>1.6.2019</p> <p>(II)</p>



balconies, machinery spaces and unattended machinery spaces: Cables.	—SOLAS 74 Reg. X/3, —IMO Res.MSC.98(73)- (FSS Code) 9.	And, as applicable, electrical and electronic installations in ships; —IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011, — IEC 60533:1999.			
	Carriage and performance requirements —SOLAS 74 Reg. II-2/7, —IMO Res.MSC.36(63)- (1994 HSC Code) 7, —IMO Res.MSC.97(73)- (2000 HSC Code) 7, —IMO Res.MSC.98(73)- (FSS Code) 9. —IMO MSC.1/Circ.1242.				
MED/3.51i	Type approval requirements	— EN 60332-1-2:2004,	B+D	16.3.2017	22.5.2020



<p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p> <p>— Cables.</p>	<p>—SOLAS 74 Reg. II-2/7, —SOLAS 74 Reg. X/3, —IMO Res.MSC.98(73)-(FSS Code) 9.</p>	<p>— IEC 60092-376:2003. And, as applicable, electrical and electronic installations in ships: — IEC 60092-504:2016, — IEC 60533:2015,</p>	<p>B+E B+F</p>		<p>(III)</p>
<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/7, —IMO Res.MSC.36(63)-(1994 HSC Code) 7, —IMO Res.MSC.97(73)-(2000 HSC Code) 7, —IMO Res.MSC.98(73)-(FSS Code) 9. —IMO MSC.1/Circ.1242.</p>					



<p>MED/3.51i</p> <p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p> <p>— Cables.</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p>	<p>—EN 60332-1-2:2004+A1:2015,</p> <p>— IEC 60092-376:2017.</p> <p>And, as applicable, electrical and electronic installations in ships:</p> <p>— IEC 60092-504:2016,</p> <p>— IEC 60533:2015.</p> <p>—IEC 60332-1-2:2004 + A1:2015.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>19.6.2018</p>	<p>28.3.2021 (III)</p>
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9,</p>	<p>And/or:</p> <p>Fire Resistant Cables:</p> <p>— IEC 60092-376:2017,</p> <p>—IEC 60331-1:2009 or IEC 60331-2:2009.</p> <p>And, as applicable, electrical and electronic installations in ships:</p> <p>— -IEC 60092-504:2016,</p> <p>— -IEC 60533:2015,</p> <p>—IEC 60332-1-2:2004 + A1:2015.</p>			



	<p>—IMO Res.MSC.391(95)-(IGF Code) 11,</p> <p>—IMO MSC.1/Circ.1242.</p>				
<p>MED/3.51i</p> <p>Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:</p> <p>— Cables.</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9.</p>	<p>—EN 60332-1-2:2004+A1:2015 and A11:2016</p> <p>— IEC 60092-376:2017.</p> <p>And, as applicable, electrical and electronic installations in ships:</p> <p>— IEC 60092-504:2016,</p> <p>— IEC 60533:2015.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	13.9.2019	
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-</p>	<p>—IEC 60332-1-2:2004 + A1:2015.</p> <p>And/or:</p> <p>Fire Resistant Cables:</p> <p>— IEC 60092-376:2017,</p> <p>—IEC 60331-1:2018 or IEC 60331-2:2018.</p> <p>And, as applicable, electrical and electronic installations in ships:</p> <p>— IEC 60092-504:2016,</p>			



	<p>(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 9,</p> <p>—IMO Res.MSC.391(95)-(IGF Code) 11,</p> <p>—IMO MSC.1/Circ.1242.</p>	<p>— IEC 60533:2015,</p> <p>—IEC 60332-1-2:2004 + A1:2015.</p>			
<p>MED/3.52</p> <p>Non-portable and transportable fire extinguishers</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—SOLAS 74 Reg. X/3.</p>	<p>— EN 1866-1:2007,</p> <p>— EN 1866-2:2014.</p> <p>Or,</p> <p>— EN 1866-1:2007,</p> <p>— EN 1866-3:2013.</p> <p>Or,</p> <p>— ISO 11601:2008.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		<p>1.7.2020</p> <p>(III)</p>
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/4,</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—IMO Res.MSC.36(63)-</p>				



	(1994 HSC Code) 7, —IMO Res.MSC.97(73)- (2000 HSC Code) 7.				
MED/3.52 Non-portable and transportable fire extinguishers	Type approval requirements —SOLAS 74 Reg. II- 2/10, —SOLAS 74 Reg. X/3. Carriage and performance requirements —SOLAS 74 Reg. II- 2/4, —SOLAS 74 Reg. II- 2/10, —IMO Res.MSC.36(63)- (1994 HSC Code) 7, —IMO Res.MSC.97(73)-	— EN 1866-1:2007, — EN 1866-2:2014. Or, — EN 1866-1:2007, — EN 1866-3:2013. Or, — ISO 11601:2017.	B+D B+E B+F	13.9.2019	



	(2000 HSC Code) 7.				
MED/3.53 Fire alarm devices — Sounders	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7, —SOLAS 74 Reg. X/3, —IMO Res.MSC.98(73)- (FSS Code) 9.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/7, —IMO Res.MSC.36(63)- (1994 HSC Code) 7, —IMO Res.MSC.97(73)- (2000 HSC Code) 7,</p>	<p>—EN 54-3:2001 incl. A1:2002 and A2:2006, —IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011, — IEC 60533:1999.</p>	<p>B+D B+E B+F</p>		<p>1.6.2019 (III)</p>



	<p>—IMO Res.MSC.98(73)- (FSS Code) 9.</p> <p>—IMO MSC.1/Circ.1242.</p>				
<p>MED/3.53 Fire alarm devices — Sounders</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.98(73)- (FSS Code) 9.</p>	<p>— EN 54-3:2014, — IEC 60092-504:2016, — IEC 60533:2015.</p>	<p>B+D B+E B+F</p>	<p>16.3.2017</p>	
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—IMO Res.MSC.36(63)- (1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-</p>				



	<p>(2000 HSC Code) 7,</p> <p>—IMO Res.MSC.98(73)- (FSS Code) 9.</p> <p>—IMO MSC.1/Circ.1242,</p> <p>—IMO MSC.1/Circ.1487.</p>				
<p>MED/3.54 Fixed oxygen analysis and gas detection equipment</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/4,</p> <p>—SOLAS 74 Reg. VI/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/4,</p> <p>—SOLAS 74 Reg. VI/3.</p> <p>—IMO Res.MSC.98(73)- (FSS Code) 15,</p>	<p>—IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011,</p> <p>— IEC 60533:1999.</p> <p>And, as applicable, to:</p> <p>—a)Category 4: (safe area),</p> <p>— EN 50104:2010;</p> <p>—b)Category 3: (explosive gas atmospheres),</p> <p>— EN 50104:2010,</p> <p>—EN 60079-0:2012 incl. A11:2013,</p> <p>— EN 60079-29-1:2007.</p> <p>For combined O2/HC systems, additionally:</p>	<p>B+D B+E B+F</p>		<p>1.6.2019 (II)</p>



	<p>—for combined O₂/HC systems additionally:</p> <p>—IMO MSC.1/Circ.1370.</p>	—IMO MSC.1/Circ.1370.			
MED/3.54 Fixed oxygen analysis and gas detection equipment	<p>Type approval requirements</p> <p>—SOLAS 74Reg. II-2/4,</p> <p>—SOLAS 74 Reg. VI/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/4,</p> <p>—SOLAS 74 Reg. VI/3.</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 15,</p> <p>—for combined O₂/HC systems additionally:</p>	<p>— IEC 60092-504:2016,</p> <p>— IEC 60533:2015.</p> <p>And as applicable to:</p> <p>—a)Category 4: (safe area),</p> <p>— EN 50104:2010,</p> <p>—b)Category 3: (explosive gas atmospheres),</p> <p>— EN 50104:2010,</p> <p>—EN 60079-0:2012 incl. A11:2013,</p> <p>— EN 60079-29-1:2007.</p> <p>For combined O₂/HC systems, additionally:</p> <p>— IMO MSC.1/Circ.1370.</p>	B+D B+E B+F	16.3.2017	3.6.2020 (III)



	—IMO MSC.1/Circ.1370.				
MED/3.54 Fixed oxygen analysis and gas detection equipment	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/4, —SOLAS 74 Reg. VI/3.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/4, —SOLAS 74 Reg. VI/3. —IMO Res.MSC.98(73)-(FSS Code) 15, —for combined O2/HC systems additionally: —IMO MSC.1/Circ.1370.</p>	<p>— IEC 60092-504:2016, — IEC 60533:2015. And as applicable to:</p> <p>—a)Category 4: (safe area), — EN 50104:2010, —b)Category 3: (explosive gas atmospheres), — EN 50104:2010, —EN 60079-0:2012 incl. A11:2013, — EN 60079-29-1:2016. For combined O2/HC systems, additionally: — IMO MSC.1/Circ.1370.</p>	B+D B+E B+F	19.6.2018	



<p>MED/3.55 Dual purpose type nozzles (spray/jet type)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/10, —SOLAS 74 Reg. X/3.</p>	<p>—Hand-held branchpipes for fire service use — Combination branchpipes PN 16: —EN 15182-1:2007 incl. A1:2009, —EN 15182-2:2007 incl. A1:2009,</p>	<p>B+D B+E B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10, —IMO Res.MSC.36(63)-(1994 HSC Code) 7, —IMO Res.MSC.97(73)-(2000 HSC Code) 7.</p>	<p>—Hand-held branchpipes for fire service use — Smooth bore jet and/or one fixed spray jet angle branchpipes PN 16;, —EN 15182-1:2007 incl. A1:2009, —EN 15182-3:2007 incl. A1:2009.</p>			
<p>MED/3.56 Fixed firefighting hose systems Hose reels with semi-rigid hose</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/10, —SOLAS 74 Reg. X/3.</p>	<p>— EN 671-1:2012</p>	<p>B+D B+E B+F</p>		



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 7.</p>				
<p>MED/3.57</p> <p>Medium Expansion Foam Fire Extinguishing Systems components — Fixed Deck Foam for Tankers</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/10.</p>	<p>— IMO MSC/Circ.798.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10.8.1,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 14,</p>				



	<p>—IMO MSC/Circ.1239,</p> <p>—IMO MSC.1/Circ.1276.</p>				
<p>MED/3.58 Fixed Low Expansion Foam Fire Extinguishing Systems Components for Machinery Spaces and Tanker Deck Protection.</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II- 2/10.</p>	<p>—IMO MSC.1/Circ.1312,</p> <p>—IMO MSC.1/Circ.1312/Corr.1.</p>	<p>B+D B+E B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II- 2/10.</p> <p>—IMO Res.MSC.98(73)- (FSS Code) 6,</p> <p>—IMO Res.MSC.98(73)- (FSS Code) 14,</p> <p>—IMO MSC/Circ.1239,</p> <p>—IMO MSC.1/Circ.1276.</p>				



MED/3.59 Expansion Foam for Fixed Fire Extinguishing Systems for Chemical Tankers	Type approval requirements —SOLAS 74 Reg. II-2/1, —IMO Res.MSC.4(48)-(IBC Code) 11.	—IMO MSC.1/Circ.1312, —IMO MSC.1/Circ.1312/Corr.1.	B+D B+E B+F		
	Carriage and performance requirements —IMO Res.MSC.4(48)-(IBC Code) 11. —IMO MSC/Circ.553.				
MED/3.60 —Nozzles for fixed pressure water-spraying fire-extinguishing systems for cabin balconies	Type approval requirements —SOLAS 74 Reg. II-2/10, —IMO Res.MSC.98(73)-(FSS Code) 7.	—IMO MSC.1/Circ.1268.	B+D B+E B+F		



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 7.</p> <p>—IMO MSC.1/Circ.1313.</p>				
<p>MED/3.61a</p> <p>—Inside air high expansion foam systems for the protection of machinery spaces, cargo pump rooms, vehicle and ro-ro spaces, special category spaces and cargo spaces.</p> <p>Note: Inside/Outside air high expansion foam systems for the protection of machinery spaces, cargo pump rooms, vehicle and ro-ro spaces, special category spaces and cargo spaces shall be tested with the approved concentrate to the satisfaction of the Administration</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/10.</p>	<p>—IMO MSC.1/Circ.1384.</p>	<p>B+D B+E B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10.</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 6.</p>				
MED/3.61a	Type approval requirements	—IMO MSC.1/Circ.1384.	B+D		



<p>—Inside air high expansion foam systems for the protection of machinery spaces, cargo pump rooms, vehicle and ro-ro spaces, special category spaces and cargo spaces.</p> <p>Note: Inside/Outside air high expansion foam systems for the protection of machinery spaces, cargo pump rooms, vehicle and ro-ro spaces, special category spaces and cargo spaces shall be tested with the approved concentrate to the satisfaction of the Administration</p>	<p>—SOLAS 74 Reg. II-2/10.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10.</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 6,</p> <p>—IMO MSC.1/Circ.1528.</p>		<p>B+E B+F</p>		
<p>MED/3.61b</p> <p>—Outside air high expansion foam systems for the protection of machinery spaces, cargo pump rooms, vehicle and ro-ro spaces, special category spaces and cargo spaces.</p> <p>Note: Inside/Outside air high expansion foam systems for the protection of machinery spaces, cargo pump rooms, vehicle and ro-ro spaces, special category spaces and cargo spaces shall be tested with the approved concentrate to the satisfaction of the Administration</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/10.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10.</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 6,</p>	<p>—IMO MSC.1/Circ.1384.</p>	<p>B+D B+E B+F</p>		



<p>MED/3.61b</p> <p>—Outside air high expansion foam systems for the protection of machinery spaces, cargo pump rooms, vehicle and ro-ro spaces, special category spaces and cargo spaces.</p> <p>Note: Inside/Outside air high expansion foam systems for the protection of machinery spaces, cargo pump rooms, vehicle and ro-ro spaces, special category spaces and cargo spaces shall be tested with the approved concentrate to the satisfaction of the Administration</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/10.</p>	<p>—IMO MSC.1/Circ.1384.</p>	<p>B+D B+E B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/10.</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 6,</p> <p>—IMO MSC.1/Circ.1528.</p>				
<p>MED/3.62</p> <p>Dry chemical powder extinguishing systems</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/1.</p>	<p>—IMO MSC.1/Circ.1315.</p>	<p>B+D B+E B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/1.</p>				



	—IMO Res.MSC.5(48)- (IGC Code) 11,				
MED/3.62 Dry chemical powder extinguishing systems	Type approval requirements —SOLAS 74 Reg. II-2/1.	—IMO MSC.1/Circ.1315.	B+D B+E B+F		
	Carriage and performance requirements —SOLAS 74 Reg. II-2/1. —IMO Res.MSC.5(48)- (IGC Code) 11, —IMO Res.MSC.391(95)- (IGF Code) 11.				
MED/3.63 Sample extraction smoke detection systems components	Type approval requirements —SOLAS 74 Reg. II-2/7, —SOLAS 74 Reg. II-2/19,	—IMO Res.MSC.98(73)- (FSS Code) 10. And for:	B+D B+E B+F		1.6.2019 (III)



	<p>—SOLAS 74 Reg. II-2/20.</p>	<p>—Control and indicating equipment. Electrical installations in ships:</p> <p>—EN 54-2:1997 incl. AC:1999 and A1:2006;</p> <p>—Power supply equipment:</p> <p>—EN 54-4:1997 incl. AC:1999, A1:2002 and A2:2006;</p> <p>—Aspiring smoke detectors:</p> <p>—EN 54-20:2006 incl. AC:2008.</p> <p>And, as applicable, electrical and electronic installations in ships:</p> <p>—IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011,</p> <p>— IEC 60533:1999.</p> <p>And, as applicable for explosive atmospheres:</p> <p>—EN 60079-0:2012 incl. A11:2013.</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/7,</p> <p>—SOLAS 74 Reg. II-2/19,</p> <p>—SOLAS 74 Reg. II-2/20.</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 10.</p>				



MED/3.63 Sample extraction smoke detection systems components	Type approval requirements	—IMO Res.MSC.98(73)-(FSS Code) 10. And for: —Control and indicating equipment. Electrical installations in ships: —EN 54-2:1997 incl. AC:1999 and A1:2006;	B+D B+E B+F	19.6.2018	
	—SOLAS 74 Reg. II-2/7, —SOLAS 74 Reg. II-2/19, —SOLAS 74 Reg. II-2/20.	—Power supply equipment: —EN 54-4:1997 incl. AC:1999, A1:2002 and A2:2006; —Aspiring smoke detectors: —EN 54-20:2006 incl. AC:2008. And, as applicable, electrical and electronic installations in ships: — IEC 60092-504:2016 — IEC 60533:2015 And, as applicable for explosive atmospheres: —EN 60079-0:2012 incl. A11:2013.			
	Carriage and performance requirements	—SOLAS 74 Reg. II-2/7, —SOLAS 74 Reg. II-2/19, —SOLAS 74 Reg. II-2/20. —IMO Res.MSC.98(73)-(FSS Code) 10.			



MED/3.64 C class divisions	Type approval requirements —SOLAS 74 Reg. II-2/3.10.	—IMO Res.MSC.307(88)-(2010 FTP Code), as amended.	B+D B+E B+F		
	Carriage and performance requirements —SOLAS 74 Reg. II-2/3.10, —SOLAS 74 Reg. II-2/3.33 —SOLAS 74 Reg. II-2/9, —IMO Res. MSC/Circ.1120				
MED/3.65 Fixed hydrocarbon gas detection system	Type approval requirements —SOLAS 74 Reg. II-2/4.	—IMO MSC.1/Circ.1370, —EN 60079-0:2012 incl. A11:2013, —EN 60079-29-1:2007, —IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011, — IEC 60533:1999.	B+D B+E B+F		1.6.2019 (III)
	Carriage and performance requirements —SOLAS 74 Reg. II-2/4.				



	<p>—IMO Res.MSC.98(73)-(FSS Code) 16,</p> <p>—IMO MSC.1/Circ.1370.</p>				
<p>MED/3.65 Fixed hydrocarbon gas detection system</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/4.</p>	<p>—IMO MSC.1/Circ.1370,</p> <p>—EN 60079-0:2012 incl. A11:2013,</p> <p>—EN 60079-29-1:2007,</p> <p>—IEC 60092-504:2016,</p> <p>—IEC 60533:2015.</p>	<p>B+D B+E B+F</p>	<p>16.3.2017</p>	<p>21.7.2019 (III)</p>
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/4.</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 16,</p> <p>—IMO MSC.1/Circ.1370.</p>				
<p>MED/3.65 Fixed hydrocarbon gas detection system</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/4.</p>	<p>—IMO MSC.1/Circ.1370,</p> <p>—EN 60079-0:2012 incl. A11:2013,</p>	<p>B+D B+E B+F</p>	<p>19.6.2018</p>	



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/4.</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 16,</p> <p>—IMO MSC.1/Circ.1370,</p> <p>—Circular MSC.1/Circ.1527.</p>	<p>— EN 60079-29-1:2016,</p> <p>— IEC 60092-504:2016,</p> <p>— IEC 60533:2015.</p>			
<p>MED/3.66</p> <p>Evacuation guidance systems used as an alternative to low-location lighting systems</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-2/13.</p>	<p>— IMO MSC.1/Circ.1168.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-2/13.</p> <p>—IMO MSC.1/Circ.1168.</p>				



MED/3.67 Helicopter facility foam fire-fighting appliances	Type approval requirements —SOLAS 74 Reg. II-2/18.	—EN 13565-1:2003 incl. A1:2007.	B+D B+E B+F	16.3.2017	
	Carriage and performance requirements —SOLAS 74 Reg. II-2/18. —IMO MSC.1/Circ.1431.				
MED/3.68 Galley Exhaust Duct Fixed Fire Extinguishing Systems components	Type approval requirements —SOLAS 74 Reg. II-2/9.	— ISO 15371:2009.	B+D B+E B+F		30.4.2018 (III)
	Carriage and performance requirements —SOLAS 74 Reg. II-2/9.				
MED/3.68	Type approval requirements	— ISO 15371:2015.	B+D	16.3.2017	



Galley Exhaust Duct Fixed Fire Extinguishing Systems components	—SOLAS 74 Reg. II-2/9.		B+E B+F		
	Carriage and performance requirements —SOLAS 74 Reg. II-2/9.				
MED/3.69 Mobile water monitor for ships constructed on or after 1 January 2016 designed to carry five or more tiers of containers on or above the weather deck (new item inserted by Implementing Regulation (EU) 2017/306)	Type approval requirements —SOLAS 74 Reg.II-2/10.	—IMO MSC.1/Circ.1472.	B+D B+E B+F	16.3.2017	
	Carriage and performance requirements —SOLAS 74 Reg.II-2/10. —IMO MSC.1/Circ.1472.				
MED/3.69 Mobile water monitor for ships constructed on or after 1 January 2016 designed to carry	Type approval requirements —SOLAS 74 Reg.II-2/10.	—IMO MSC.1/Circ.1472.	B+D B+E B+F		



<p>five or more tiers of containers on or above the weather deck (new item inserted by Implementing Regulation (EU) 2017/306)</p>	<p>Carriage and performance requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg.II-2/10, —SOLAS 74 Reg.II-2/19. —IMO MSC.1/Circ.1472, —IMO MSC.1/Circ.1550. 				
<p>MED/3.70 Fire-fighting hoses (Semi-rigid hoses for fixed systems) (new item inserted by Implementing Regulation (EU) 2017/306)</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. II-2/10, —SOLAS 74 Reg. X/3. 	<p>— EN 694 (2014).</p>	<p>B+D B+E B+F</p>		
<p>Carriage and performance requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. II-2/10, —IMO Res.MSC.36(63)- 					



	(1994 HSC Code) 7, —IMO Res.MSC.97(73)- (2000 HSC Code) 7.				
MED/3.71 Fixed firefighting hose systems — Hose systems with lay-flat hose (new item inserted by Implementing Regulation (EU) 2017/306)	Type approval requirements —SOLAS 74 Reg. II- 2/10, —SOLAS 74 Reg. X/3.	— EN 671-2:2012.	B+D B+E B+F	16.3.2017	
	Carriage and performance requirements —SOLAS 74 Reg. II- 2/10, —IMO Res.MSC.36(63)- (1994 HSC Code) 7, —IMO Res.MSC.97(73)- (2000 HSC Code) 7.				



4. Navigation equipment

Number and item designation	Regulation SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment	First placing on the market	Last placing on board
1	2	3	4	5	6
MED/4.1 Magnetic compass Class A for ships	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18, —SOLAS 74 Reg. X/3,</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19, —IMO Res.A.382(X), —IMO Res.A.694(17),</p>	<p>— ISO 1069:1973, — ISO 25862:2009, —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008).</p> <p>Or:</p> <p>— ISO 1069:1973, — ISO 25862:2009, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008).</p>	B+D B+E B+F G		29.8.2021



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13,</p> <p>—IMO Res.MSC.302(87).</p>				
<p>MED/4.1 Magnetic compass Class A for ships Note: IMO Res.MSC.302(87) only applies when the equipment can raise and electronically send (an) alert(s) to a third piece of equipment.</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.382(X),</p> <p>—IMO Res.A.694(17),</p>	<p>— ISO 1069:1973,</p> <p>— ISO 25862:2009,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008.</p> <p>Or:</p> <p>— ISO 1069:1973,</p> <p>— ISO 25862:2009,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008).</p> <p>Note And where IMO Res.MSC.302(87):</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—EN 61162 series:</p>	<p>B+D B+E B+F G</p>	<p>13.9.2019</p>	



	<p>—IMO Res.MSC.36(63)- (1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) 13,</p> <p>—IMO Res.MSC.302(87).</p>	<p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p> <p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p> <p>End of Note on IMO Res.MSC.302(87)</p>			
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<p>MED/4.2 Transmitting heading device THD (magnetic method)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18, —SOLAS 74 Reg. V/19, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>— ISO 22090-2:2014, —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: — EN 61162-1 (2011) — EN 61162-2 (1998) — EN 61162-3 (2008) —EN 61162-450 (2011), — EN 62288:2014. Or — ISO 22090-2:2014, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p>	<p>B+D B+E B+F G</p>		<p>31.8.2019 (I)</p>
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19, —IMO Res.A.694(17), —IMO Res.MSC.36(63)-</p>	<p>—IEC 61162 series: —IEC 61162-1 ed4.0 (2010-11) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p>			



	<p>(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.116(73),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
<p>MED/4.2</p> <p>Transmitting heading device THD (magnetic method)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-</p>	<p>— ISO 22090-2:2014,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011) +A1(2016),</p> <p>— EN 62288:2014.</p> <p>Or:</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	<p>19.6.2018</p>	<p>29.8.2021</p> <p>(I)</p>



	<p>(2000 HSC Code) 13.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.116(73),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>— ISO 22090-2:2014,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
MED/4.2	Type approval requirements	— ISO 22090-2:2014,	B+D	13.9.2019	



Transmitting heading device THD (magnetic method)	<p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>— EN 62288:2014,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p> <p>Or:</p> <p>— ISO 22090-2:2014,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p>	B+E B+F G		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p>	<p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p> <p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p>			



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.116(73),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>—IEC 61162-450:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
MED/4.3 Gyro compass	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.424(XI),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.191(79),</p>	<p>— ISO 8728:2014,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p> <p>— EN 61162-2 (1998)</p> <p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011)</p> <p>— EN 62288:2014.</p> <p>Or,</p> <p>— ISO 8728:2014,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p>	B+D B+E B+F G	16.3.2017	31.8.2019 (I)



	<p>—IMO Res.MSC.302(87).</p>	<p>—IEC 61162 series:</p> <p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
<p>MED/4.3 Gyro compass</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18.</p>	<p>— ISO 8728:2014,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011)+A1(2016),</p> <p>— EN 62288:2014.</p>	<p>B+D B+E B+F G</p>	<p>19.6.2018</p>	<p>29.8.2021 (I)</p>
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.424(XI),</p>				



	<ul style="list-style-type: none"> —IMO Res.A.694(17), —IMO Res.MSC.191(79), —IMO Res.MSC.302(87). 	<p>Or:</p> <ul style="list-style-type: none"> — ISO 8728:2014, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61162 series: <ul style="list-style-type: none"> — IEC 61162-1 (2016) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) —IEC 61162-450 ed1.0 (2011-06) with am1(2016), —IEC 62288 Ed. 2.0 (2014-07). 			
MED/4.3 Gyro compass	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18.</p> <hr/> <p>Carriage and performance requirements</p>	<ul style="list-style-type: none"> — ISO 8728:2014, —EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1: 2016 — EN 61162-2: 1998 	B+D B+E B+F G	13.9.2019	



	<p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.424(XI),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>— EN 62288:2014,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p> <p>Or:</p> <p>— ISO 8728:2014,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p> <p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
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MED/4.6 Echo-sounding equipment	Type approval requirements	<ul style="list-style-type: none"> —EN ISO 9875:2001 incl. ISO Technical Corr. 1:2006, —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1 (2011) — EN 61162-2 (1998) — EN 61162-3 (2008) —EN 61162-450 (2011), — EN 62288:2014. 	B+D B+E B+F G		31.8.2019 (I)
	<ul style="list-style-type: none"> —SOLAS 74 Reg. V/18, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13. 	<ul style="list-style-type: none"> —ISO 9875:2000 incl. ISO Technical Corr. 1:2006, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61162 series: <ul style="list-style-type: none"> —IEC 61162-1 ed4.0 (2010-11) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 			



	<p>(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.74(69) Annex 4,</p> <p>—IMO Res.MSC.302(87).</p>	<p>1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
<p>MED/4.6</p> <p>Echo-sounding equipment</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-</p>	<p>—EN ISO 9875:2001 incl. ISO Technical Corr. 1:2006,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	<p>19.6.2018</p>	<p>29.8.2021 (I)</p>



	(2000 HSC Code) 13.	<p>—EN 61162-450 (2011)+A1(2016),</p> <p>— EN 62288:2014.</p> <p>Or,</p> <p>—ISO 9875:2000 incl. ISO Technical Corr. 1:2006,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.224(VII),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.74(69) Annex 4,</p> <p>—IMO Res.MSC.302(87).</p>				



MED/4.6 Echo-sounding equipment	Type approval requirements	<ul style="list-style-type: none"> —EN ISO 9875:2001 incl. ISO Technical Corr. 1:2006, —EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 — IEC 61162-450:2018, — EN 62288:2014, — IEC 62923-1:2018, — IEC 62923-2:2018. 	B+D B+E B+F G	13.9.2019	
	Carriage and performance requirements	<ul style="list-style-type: none"> —ISO 9875:2000 incl. ISO Technical Corr. 1:2006, —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, —IEC 61162 series: <ul style="list-style-type: none"> — IEC 61162-1:2016 —IEC 61162-2 ed1.0: 1998-09 			
	<ul style="list-style-type: none"> —SOLAS 74 Reg. V/18, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13. 	<ul style="list-style-type: none"> —SOLAS 74 Reg. V/19, —IMO Res.A.224(VII), —IMO Res.A.694(17), —IMO Res.MSC.36(63)- 			



	<p>(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.74(69) Annex 4,</p> <p>—IMO Res.MSC.302(87).</p>	<p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
<p>MED/4.7 Speed and distance measuring equipment (SDME)</p>	<p>Type approval requirements</p> <p>—SOLAS 74Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— EN 61023:2007,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p> <p>— EN 61162-2 (1998)</p> <p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p> <p>— EN 62288:2014,</p>	<p>B+D B+E B+F G</p>		<p>31.8.2019 (I)</p>



	<p>(2000 HSC Code) 13.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.824(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>Or,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— IEC 61023 (2007),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
MED/4.7	Type approval requirements		B+D	19.6.2018	29.8.2021



<p>Speed and distance measuring equipment (SDME)</p>	<p>—SOLAS 74 Reg. V/18, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), — EN 61023:2007, —EN 61162 series: — EN 61162-1 (2016) — EN 61162-2 (1998) —EN 61162-3 (2008) +A1(2010)+A2(2014) —EN 61162-450 (2011)+A1(2016), — EN 62288:2014.</p>	<p>B+E B+F G</p>		<p>(I)</p>
	<p>Carriage and performance requirements —SOLAS 74 Reg. V/19, —IMO Res.A.694(17), —IMO Res.A.824(19), —IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p>	<p>Or: —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), — IEC 61023 (2007), —IEC 61162 series: — IEC 61162-1 (2016) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p>			



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
<p>MED/4.7</p> <p>Speed and distance measuring equipment (SDME)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>— EN 61023:2007,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>— EN 62288:2014,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	<p>13.9.2019</p>	
	<p>Carriage and performance requirements</p>				



	<p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.824(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>— IEC 61023 (2007),</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p> <p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
MED/4.8 Rudder angle, rpm, pitch indicator – item moved to MED/4.20, MED/4.21 and MED/4.22.					
MED/4.9 Rate-of-turn indicator	Type approval requirements —SOLAS 74 Reg. V/18,	—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series:	B+D B+E B+F		31.8.2019 (I)



	<p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 61162-1 (2011)</p> <p>—EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p> <p>—ISO 20672:2007 incl Corr 1 (2008),</p> <p>— EN 62288:2014,</p> <p>Or,</p>	G		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.526(13),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-</p>	<p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—ISO 20672:2007 incl Corr 1 (2008),</p>			



	(2000 HSC Code) 13. —IMO Res.MSC.191(79), —IMO Res.MSC.302(87).	—IEC 62288 Ed. 2.0 (2014-07).			
MED/4.9 Rate-of-turn indicator	Type approval requirements —SOLAS 74 Reg. V/18, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13. Carriage and performance requirements —SOLAS 74 Reg. V/19,	—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: — EN 61162-1 (2016) — EN 61162-2 (1998) —EN 61162-3 (2008) +A1(2010)+A2(2014) —EN 61162-450 (2011)+A1(2016), —ISO 20672:2007 incl Corr 1 (2008), — EN 62288:2014. Or: —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61162 series: —IEC 61162-1 (2016)	B+D B+E B+F G	19.6.2018	29.8.2021 (1)



	<p>—IMO Res.A.526(13),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—ISO 20672:2007 incl Corr 1 (2008),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
<p>MED/4.9</p> <p>Rate-of-turn indicator</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	<p>13.9.2019</p>	



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—ISO 20672:2007 incl Corr 1: 2008, — EN 62288:2014, — IEC 62923-1:2018, — IEC 62923-2:2018.</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.526(13),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—IEC 61162 series: — IEC 61162-1:2016 —IEC 61162-2 ed1.0: 1998-09 —IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07 —IEC 61162-450:2018,</p> <p>—ISO 20672:2007 incl Corr 1: 2008, —IEC 62288 Ed. 2.0: 2014-07, — IEC 62923-1:2018, — IEC 62923-2:2018.</p>			



Item MED/4.10 Direction finder, - Item deliberately left blank.					
Item MED/4.11. Loran equipment, - Item deliberately left blank.					
Item MED/4.12, Chaika equipment, - Item deliberately left blank.					
Item MED/4.13 Decca navigator equipment, - Item deliberately left blank.					
MED/4.14 GPS equipment	Type approval requirements	—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), — EN 61108-1:2003, —EN 61162 series: — EN 61162-1 (2011) — EN 61162-2 (1998) — EN 61162-3 (2008) —EN 61162-450 (2011), — EN 62288:2014. Or, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61108-1 Ed. 2.0 (2003), —IEC 61162 series:	B+D B+E B+F G		31.8.2019 (I)
	Carriage and performance requirements				



	<p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.112(73),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
MED/4.14 GPS equipment	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— EN 61108-1:2003,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	19.6.2018	29.8.2021 (I)



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011)+A1(2016),</p> <p>— EN 62288:2014.</p> <p>Or:</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.112(73),</p>	<p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61108-1 Ed. 2.0 (2003),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			



	<p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>				
MED/4.14 GPS equipment	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>— EN 61108-1:2003,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>— EN 62288:2014,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>	B+D B+E B+F G	13.9.2019	
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p>	<p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—IEC 61108-1 Ed. 2.0: 2003,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p>			



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.112(73),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
<p>MED/4.15 GLONASS equipment</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— EN 61108-2:1998,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p> <p>— EN 61162-2 (1998)</p> <p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p> <p>— EN 62288:2014,</p>	<p>B+D B+E B+F G</p>		<p>31.8.2019 (1)</p>



	<p>(2000 HSC Code) 13.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13</p> <p>—IMO Res.MSC.113(73),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>Or,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61108-2 Ed. 1.0 (1998),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
MED/4.15	Type approval requirements		B+D	19.6.2018	29.8.2021



GLONASS equipment	<p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— EN 61108-2:1998,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011)+A1(2016),</p> <p>— EN 62288:2014.</p>	B+E B+F G		(I)
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-</p>	<p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61108-2 Ed. 1.0 (1998),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p>			



	<p>(2000 HSC Code) 13</p> <p>—IMO Res.MSC.113(73),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
<p>MED/4.15 GLONASS equipment</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)- (1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>— EN 61108-2:1998,</p> <p>—EN 61162 series: — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018,</p> <p>— EN 62288:2014, — IEC 62923-1:2018, — IEC 62923-2:2018.</p> <p>Or: —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p>	<p>B+D B+E B+F G</p>	<p>13.9.2019</p>	
	<p>Carriage and performance requirements</p>				



	<p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13</p> <p>—IMO Res.MSC.113(73),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>—IEC 61108-2 Ed. 1.0: 1998,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p> <p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
MED/4.16 Heading control system (HCS)	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18.</p> <hr/> <p>Carriage and performance requirements</p>	<p>— ISO 11674:2006,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p> <p>— EN 61162-2 (1998)</p>	B+D B+E B+F G		31.8.2019 (I)



	<p>—SOLAS 74 Reg. V/18.</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.342(IX),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.64(67) Annex 3,</p> <p>—IMO Res.MSC.302(87).</p>	<p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p> <p>— EN 62288:2014.</p> <p>Or,</p> <p>— ISO 11674:2006,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
MED/4.16	Type approval requirements	— ISO 11674:2006,	B+D	19.6.2018	29.8.2021



Heading control system (HCS)	—SOLAS 74 Reg. V/18.	—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),	B+E B+F G		(I)
	Carriage and performance requirements —SOLAS 74 Reg. V/18. —SOLAS 74 Reg. V/19, —IMO Res.A.342(IX), —IMO Res.A.694(17), —IMO Res.MSC.191(79), —IMO Res.MSC.64(67) Annex 3, —IMO Res.MSC.302(87).	—EN 61162 series: — EN 61162-1 (2016) — EN 61162-2 (1998) — EN 61162-3 (2008) +A1(2010)+A2(2014) —EN 61162-450 (2011)+A1(2016), — EN 62288:2014. Or: — ISO 11674:2006, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61162 series: — IEC 61162-1 (2016) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)			



		<ul style="list-style-type: none"> —IEC 61162-450 ed1.0 (2011-06) with am1(2016), —IEC 62288 Ed. 2.0 (2014-07). 			
MED/4.16 Heading control system (HCS)	Type approval requirements —SOLAS 74 Reg. V/18.	<ul style="list-style-type: none"> — ISO 11674:2006, —EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —EN 61162 series: 	B+D B+E B+F G	13.9.2019	
	Carriage and performance requirements —SOLAS 74 Reg. V/18. —SOLAS 74 Reg. V/19, —IMO Res.A.342(IX), —IMO Res.A.694(17), —IMO Res.MSC.191(79), —IMO Res.MSC.64(67) Annex 3,	<ul style="list-style-type: none"> — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018, — EN 62288:2014, — IEC 62923-1:2018, — IEC 62923-2:2018. Or: <ul style="list-style-type: none"> — ISO 11674:2006, —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, —IEC 61162 series: — IEC 61162-1:2016 			



	<p>—IMO Res.MSC.302(87).</p>	<p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
Item MED/4.17, Mechanical pilot hoist, - moved to MED/1.40.					
<p>MED/4.18</p> <p>Search and rescue locating devices (SRLD):</p> <p>9 GHz SAR transponder (SART)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>— EN 61097-1:2007.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>— IEC 61097-1: 2007.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>		



	<p>(1994 HSC Code) 13, —IMO Res.MSC.97(73)- (2000 HSC Code) 13.</p>				
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/6, —SOLAS 74 Reg. IV/7, —SOLAS 74 Reg. III/26, —IMO Res.A.530(13), —IMO Res.A.802(19), —IMO Res.A.694(17), —IMO Res.MSC.36(63)- (1994 HSC Code) 8,</p>				



	<p>—IMO Res.MSC.36(63)- (1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) 8,</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) 14,</p> <p>—ITU-R M.628-5 (03/2012).</p>				
Item MED/4.19, Radar equipment for high speed craft, - moved to MED/4.37.					
MED/4.20 Rudder angle indicator	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)- (1994 HSC Code) 13,</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p> <p>— EN 61162-2 (1998)</p> <p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p>	<p>B+D B+E B+F G</p>		<p>31.8.2019 (I)</p>



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>— EN 62288:2014, — ISO 20673:2007. Or, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61162 series: —IEC 61162-1 ed4.0 (2010-11) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) —IEC 61162-450 ed1.0 (2011-06), —IEC 62288 Ed. 2.0 (2014-07), — ISO 20673:2007.</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19, —IMO Res.A.694(17), —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13. —IMO Res.MSC.191(79), —IMO Res.MSC.302(87).</p>				
MED/4.20	Type approval requirements		B+D	19.6.2018	29.8.2021



Rudder angle indicator	<p>—SOLAS 74 Reg. V/18, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: — EN 61162-1 (2016) — EN 61162-2 (1998) —EN 61162-3 (2008) +A1(2010)+A2(2014) —EN 61162-450 (2011)+A1(2016), — EN 62288:2014, — ISO 20673:2007.</p>	B+E B+F G		(I)
	<p>Carriage and performance requirements —SOLAS 74 Reg. V/19, —IMO Res.A.694(17), —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-</p>	<p>Or: —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61162 series: —IEC 61162-1 (2016) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p>			



	<p>(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62288 Ed. 2.0 (2014-07),</p> <p>— ISO 20673:2007.</p>			
<p>MED/4.20 Rudder angle indicator</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)- (1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>— EN 62288:2014,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018,</p> <p>— ISO 20673:2007.</p>	<p>B+D B+E B+F G</p>	<p>13.9.2019</p>	
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p>	<p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p>			



	<p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018,</p> <p>— ISO 20673:2007.</p>			
<p>MED/4.21 Propeller revolution indicator</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— EN 61162 series,</p> <p>—IEC 62288 Ed. 2.0 (2014-07),</p> <p>— ISO 22554:2007.</p> <p>Or,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— IEC 61162 series,</p>	<p>B+D B+E B+F G</p>		<p>15.3.2018 (I)</p>



	<p>(2000 HSC Code) 13.</p> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79).</p>	<p>—IEC 62288 Ed. 2.0 (2014-07),</p> <p>— ISO 22554:2007.</p>			
<p>MED/4.21</p> <p>Propeller revolution indicator</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p> <p>— EN 61162-2 (1998)</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	<p>16.3.2017</p>	<p>31.8.2019</p> <p>(I)</p>



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p> <p>— EN 62288:2014,</p> <p>— ISO 22554:2015.</p> <p>Or,</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p>	<p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07),</p> <p>— ISO 22554:2015.</p>			



	—IMO Res.MSC.302(87).				
MED/4.21 Propeller revolution indicator	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011)+A1(2016),</p> <p>— EN 62288:2014,</p> <p>— ISO 22554:2015.</p> <p>Or:</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	19.6.2018	29.8.2021 (I)
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-</p>	<p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed.</p>			



	<p>(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62288 Ed. 2.0 (2014-07),</p> <p>— ISO 22554:2015.</p>			
<p>MED/4.21</p> <p>Propeller revolution indicator</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>— EN 62288:2014,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018,</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	<p>13.9.2019</p>	



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>— ISO 22554:2015.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p> <p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018,</p> <p>— ISO 22554:2015.</p>			
<p>MED/4.22 Pitch indicator</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p> <p>— EN 61162-2 (1998)</p>	<p>B+D B+E B+F G</p>		<p>31.8.2019 (I)</p>



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p> <p>— EN 62288:2014,</p> <p>— ISO 22555:2007.</p> <p>Or,</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p>	<p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>— ISO 22555:2007,</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			



	—IMO Res.MSC.302(87).				
MED/4.22 Pitch indicator	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>— EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>— EN 61162-450 (2011)+A1(2016),</p> <p>— EN 62288:2014,</p> <p>— ISO 22555:2007.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1 (2016)</p> <p>— IEC 61162-2 ed1.0 (1998-09)</p> <p>— IEC 61162-3 ed1.2 Consol. with am1 ed.</p>	B+D B+E B+F G	19.6.2018	29.8.2021 (I)
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-</p>				



	<p>(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>— ISO 22555:2007,</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
<p>MED/4.22</p> <p>Pitch indicator</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>— EN 62288:2014,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018,</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	<p>13.9.2019</p>	



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>— ISO 22555:2007.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p> <p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018,</p> <p>— ISO 22555:2007.</p>			
<p>MED/4.23</p> <p>Magnetic compass Class B for lifeboats and rescue boats</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. X/3,</p>	<p>— ISO 1069:1973,</p> <p>— ISO 25862:2009,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>		



	<p>—IMO Res.MSC.36(63)- (1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) 13.</p>				
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/34,</p> <p>—IMO Res.MSC.48(66)- (LSA Code) IV,</p> <p>—IMO Res.MSC.48(66)- (LSA Code) V,</p> <p>—IMO Res.MSC.36(63)- (1994 HSC Code) 8,</p> <p>—IMO Res.MSC.36(63)- (1994 HSC Code) 13,</p>				



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>				
Item MED/4.24, Automatic radar plotting aid (ARPA) for high speed craft, - moved to MED/4.37.					
Item MED/4.25, Automatic tracking aid (ATA), - moved to MED/4.35.					
Item MED/4.26, Automatic tracking aid (ATA) for high speed craft, - moved to MED/4.38.					
Item MED/4.27, Electronic plotting aid, - moved to MED/4.36.					
Item MED/4.28, Integrated bridge system, - moved to MED/4.30.					
MED/4.29 Voyage data recorder (VDR)	Type approval requirements —SOLAS 74 Reg. V/18, —SOLAS 74 Reg. V/20, —SOLAS 74 Reg. X/3,	—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: — EN 61162-1 (2011) — EN 61162-2 (1998) — EN 61162-3 (2008)	B+D B+E B+F G		31.8.2019 (I)



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 61162-450 (2011),</p> <p>—EN 61996-1:2013 incl. IEC 61996-1 Corr.1 (2014),</p> <p>— EN 62288:2014.</p> <p>Or,</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/20,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p>	<p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 61996-1 Ed. 2.0 (2013-05) incl. IEC 61996-1 Corr.1 (2014),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			



	<p>—IMO Res.MSC.302(87),</p> <p>—IMO Res.MSC.333(90).</p>				
<p>MED/4.29</p> <p>Voyage data recorder (VDR)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011)+A1(2016),</p> <p>—EN 61996-1:2013 incl. IEC 61996-1 Corr.1 (2014),</p> <p>— EN 62288:2014.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1 (2016)</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	<p>19.6.2018</p>	<p>29.8.2021 (I)</p>
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/20,</p> <p>—IMO Res.A.694(17),</p>				



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87),</p> <p>—IMO Res.MSC.333(90).</p>	<p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 61996-1 Ed. 2.0 (2013-05) incl. IEC 61996-1 Corr.1 (2014),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
<p>MED/4.29 Voyage data recorder (VDR)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p>	<p>B+D B+E B+F G</p>	<p>13.9.2019</p>	



	(2000 HSC Code) 13.	—EN 61996-1:2013 incl. IEC 61996-1 Corr.1: 2014,			
	Carriage and performance requirements	— EN 62288:2014,			
	—SOLAS 74 Reg. V/20,	— IEC 62923-1:2018,			
	—IMO Res.A.694(17),	— IEC 62923-2:2018.			
	—IMO Res.MSC.36(63)- (1994 HSC Code) 13,	Or:			
	—IMO Res.MSC.97(73)- (2000 HSC Code) 13.	—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,			
	—IMO Res.MSC.191(79),	—IEC 61162 series:			
	—IMO Res.MSC.302(87),	— IEC 61162-1:2016			
	—IMO Res.MSC.333(90).	—IEC 61162-2 ed1.0: 1998-09			
		—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07			
		—IEC 61162-450:2018,			
		—IEC 61996-1 Ed. 2.0: 2013-05 incl. IEC 61996-1 Corr.1: 2014,			
		—IEC 62288 Ed. 2.0: 2014- 07,			
		— IEC 62923-1:2018,			



		— IEC 62923-2:2018.			
MED/4.30 Electronic chart display and information system (ECDIS) with backup, and raster chart display system (RCDS)	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19, —IMO Res.A.694(17), —IMO Res.MSC.36(63)-</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: — EN 61162-1 (2011) — EN 61162-2 (1998) — EN 61162-3 (2008) —EN 61162-450 (2011), — EN 61174:2015, — EN 62288:2014. Or, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61162 series: —IEC 61162-1 ed4.0 (2010-11) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p>	B+D B+E B+F G	16.3.2017	31.8.2019 (I)



	<p>(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.232(82),</p> <p>—IMO Res.MSC.302(87),</p> <p>—IMO SN.1/Circ.266.</p> <p>[ECDIS back-up and RCDS are only applicable when this functionality is included in the ECDIS. The module B certificate shall indicate whether these options were tested].</p>	<p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 61174 Ed. 4.0 (2015),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
MED/4.30	Type approval requirements		B+D	19.6.2018	29.8.2021



<p>Electronic chart display and information system (ECDIS) with backup, and raster chart display system (RCDS)</p>	<p>—SOLAS 74 Reg. V/18, —SOLAS 74 Reg. V/27, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: — EN 61162-1 (2016) — EN 61162-2 (1998) —EN 61162-3 (2008) +A1(2010)+A2(2014) —EN 61162-450 (2011)+A1(2016), — EN 61174:2015, — EN 62288:2014. Or:</p>	<p>B+E B+F G</p>		<p>(I)</p>
	<p>Carriage and performance requirements —SOLAS 74 Reg. V/19, —IMO Res.A.694(17), —IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p>	<p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61162 series: —IEC 61162-1 (2016) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p>			



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.232(82),</p> <p>—IMO Res.MSC.302(87),</p> <p>—IMO MSC.1/Circ.1503. Rev.1</p> <p>[ECDIS back-up and RCDS are only applicable when this functionality is included in the ECDIS. The module B certificate shall indicate whether these options were tested].</p>	<p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 61174 Ed. 4.0 (2015),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
<p>MED/4.30</p> <p>Electronic chart display and information system (ECDIS) with backup, and raster chart display system (RCDS)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—EN 61162 series:</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>13.9.2019</p>	



	<p>—SOLAS 74 Reg. V/27, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>— EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018, — EN 61174:2015, — EN 62288:2014, — IEC 62923-1:2018, — IEC 62923-2:2018.</p>	G		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19, —IMO Res.A.694(17), —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-</p>	<p>Or: —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, —IEC 61162 series: — IEC 61162-1:2016 —IEC 61162-2 ed1.0: 1998-09 —IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07 —IEC 61162-450:2018, —IEC 61174 Ed. 4.0: 2015,</p>			



	<p>(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.232(82),</p> <p>—IMO Res.MSC.302(87),</p> <p>—IMO MSC.1/Circ.1503. Rev.1</p> <p>[ECDIS back-up and RCDS are only applicable when this functionality is included in the ECDIS. The module B certificate shall indicate whether these options were tested].</p>	<p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
<p>MED/4.31</p> <p>Gyro compass for high-speed craft</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-</p>	<p>— ISO 16328:2014,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series: — EN 61162-1 (2011)</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>		<p>31.8.2019</p> <p>(I)</p>



	<p>(1994 HSC Code) 13, —IMO Res.MSC.97(73)- (2000 HSC Code) 13.</p>	<p>— EN 61162-2 (1998) — EN 61162-3 (2008) —EN 61162-450 (2011), — EN 62288:2014.</p>			
	<p>Carriage and performance requirements —IMO Res.A.694(17), —IMO Res.A.821(19), —IMO Res.MSC.36(63)- (1994 HSC Code) 13, —IMO Res.MSC.97(73)- (2000 HSC Code) 13. —IMO Res.MSC.191(79), —IMO Res.MSC.302(87),</p>	<p>Or, — ISO 16328:2014, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61162 series: —IEC 61162-1 ed4.0 (2010-11) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) —IEC 61162-450 ed1.0 (2011-06), —IEC 62288 Ed. 2.0 (2014-07).</p>			



	—IMO MSC.1/Circ.1349.				
MED/4.31 Gyro compass for high-speed craft	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>— ISO 16328:2014,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011)+A1(2016),</p> <p>— EN 62288:2014.</p> <p>Or:</p> <p>— ISO 16328:2014,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed.</p>	B+D B+E B+F G	19.6.2018	29.8.2021 (I)
	<p>Carriage and performance requirements</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.821(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p>				



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87),</p> <p>—IMO MSC.1/Circ.1349.</p>	<p>1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
<p>MED/4.31</p> <p>Gyro compass for high-speed craft</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>— ISO 16328:2014,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>— EN 62288:2014,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p> <p>Or:</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	<p>13.9.2019</p>	
	<p>Carriage and performance requirements</p>				



	<ul style="list-style-type: none"> —IMO Res.A.694(17), —IMO Res.A.821(19), —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13. —IMO Res.MSC.191(79), —IMO Res.MSC.302(87), —IMO MSC.1/Circ.1349. 	<ul style="list-style-type: none"> — ISO 16328:2014, —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, —IEC 61162 series: <ul style="list-style-type: none"> — IEC 61162-1:2016 —IEC 61162-2 ed1.0: 1998-09 —IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07 —IEC 61162-450:2018, —IEC 62288 Ed. 2.0: 2014-07, — IEC 62923-1:2018, — IEC 62923-2:2018. 			
MED/4.32 Universal automatic identification system equipment (AIS)	Type approval requirements —SOLAS 74 Reg. V/18, —SOLAS 74 Reg. X/3,	<ul style="list-style-type: none"> —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1 (2011) — EN 61162-2 (1998) 	B+D B+E B+F G		31.8.2019 (I)



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p> <p>— EN 61993-2:2013,</p> <p>— EN 62288:2014.</p> <p>Or,</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13. IMO Res.MSC.74(69),</p> <p>—IMO Res.MSC.191(79),</p>	<p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>— IEC 61993-2 (2012),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			



	<p>—ITU-RM-1371-5 (02-2014) Note: ITU-RM 1371-5 (02-2014) shall only be applicable in accordance with requirements of IMO Res.MSC.74(69).</p>				
<p>MED/4.32 Universal automatic identification system equipment (AIS)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: — EN 61162-1 (2016) — EN 61162-2 (1998) — EN 61162-3 (2008) +A1(2010)+A2(2014) —EN 61162-450 (2011)+A1(2016), — EN 61993-2:2013, — EN 62288:2014. Or:</p>	<p>B+D B+E B+F G</p>	<p>19.6.2018</p>	<p>29.8.2021 (I)</p>



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.74(69),</p> <p>—IMO Res.MSC.191(79),</p> <p>—ITU-RM-1371-5 (02-2014) Note: ITU-RM 1371-5 (02-2014) shall only be applicable in accordance with requirements of</p>	<p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 61993-2 (2012),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
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	IMO Res.MSC.74(69).				
MED/4.32 Universal automatic identification system equipment (AIS)	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>— IEC 61993-2:2018,</p> <p>— EN 62288:2014,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p> <p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed.</p>	B+D B+E B+F G	13.9.2019	
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-</p>				



	<p>(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.74(69),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87),</p> <p>—ITU-RM-1371-5 (02-2014) Note: ITU-RM 1371-5 (02-2014) shall only be applicable in accordance with requirements of IMO Res.MSC.74(69).</p>	<p>1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>— IEC 61993-2:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
<p>MED/4.33</p> <p>Track control system</p> <p>(working at ship's speed from minimum manoeuvring speed up to 30 knots)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18.</p>	<p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p> <p>— EN 61162-2 (1998)</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		<p>31.8.2019</p> <p>(I)</p>



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.74(69),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— EN 62065 (2014),</p> <p>— EN 62288:2014.</p> <p>Or,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62065 Ed. 2.0 (2014-02),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>	G		
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MED/4.33 Track control system (working at ship's speed from minimum manoeuvring speed up to 30 knots)	Type approval requirements —SOLAS 74 Reg. V/18.	—EN 61162 series: — EN 61162-1 (2016) — EN 61162-2 (1998) —EN 61162-3 (2008) +A1(2010)+A2(2014) —EN 61162-450 (2011))+A1(2016), —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), — EN 62065 (2014), — EN 62288:2014. Or: —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61162 series: — IEC 61162-1 (2016) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)	B+D B+E B+F G	19.6.2018	29.8.2021 (I)
	Carriage and performance requirements —SOLAS 74 Reg. V/19, —IMO Res.A.694(17), —IMO Res.MSC.74(69), —IMO Res.MSC.191(79), —IMO Res.MSC.302(87).				



		<p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62065 Ed. 2.0 (2014-02),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
<p>MED/4.33</p> <p>Track control system</p> <p>(working at ship's speed from minimum manoeuvring speed up to 30 knots)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>— EN 62065: 2014,</p> <p>— EN 62288:2014,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—IEC 61162 series:</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	<p>13.9.2019</p>	
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.74(69),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>				



		<ul style="list-style-type: none"> — IEC 61162-1:2016 — IEC 61162-2 ed1.0: 1998-09 — IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07 — IEC 61162-450:2018, — IEC 62065 Ed. 2.0: 2014-02, — IEC 62288 Ed. 2.0: 2014-07, — IEC 62923-1:2018, — IEC 62923-2:2018. 			
MED/4.34 Radar equipment CAT 1	Type approval requirements — SOLAS 74 Reg. V/18.	<ul style="list-style-type: none"> — EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), — EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1 (2011) — EN 61162-2 (1998) — EN 61162-3 (2008) — EN 61162-450 (2011), — EN 62288:2014, 	B+D B+E B+F G		31.8.2019 (I)
	Carriage and performance requirements — SOLAS 74 Reg. V/19,				



	<p>—IMO Res.A.278(VIII),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.192(79),</p> <p>—IMO Res.MSC.302(87),</p> <p>—ITU-R M.1177-4 (04/11).</p>	<p>— EN 62388:2013.</p> <p>Or,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07),</p> <p>—IEC 62388 Ed. 2.0 (2013-06).</p>			
<p>MED/4.34</p> <p>Radar equipment CAT 1</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>19.6.2018</p>	<p>29.8.2021</p> <p>(I)</p>



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.278(VIII),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.192(79),</p> <p>—IMO Res.MSC.302(87),</p> <p>—ITU-R M.1177-4 (04/11).</p>	<p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011))+A1(2016),</p> <p>— EN 62288:2014,</p> <p>— EN 62388:2013.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09),</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62288 Ed. 2.0 (2014-07),</p>	G		
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		—IEC 62388 Ed. 2.0 (2013-06).			
MED/4.34 Radar equipment CAT 1	Type approval requirements —SOLAS 74 Reg. V/18.	—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —EN 61162 series: — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018, — EN 62288:2014, — EN 62388:2013, — IEC 62923-1:2018, — IEC 62923-2:2018.	B+D B+E B+F G	13.9.2019	
	Carriage and performance requirements —SOLAS 74 Reg. V/19, —IMO Res.A.278(VIII), —IMO Res.A.694(17), —IMO Res.MSC.191(79), —IMO Res.MSC.192(79), —IMO Res.MSC.302(87), —ITU-R M.1177-4 (04/11).	Or: —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, —IEC 61162 series: — IEC 61162-1:2016 —IEC 61162-2 ed1.0: 1998-09 —IEC 61162-3 ed1.2 Consol. with A1 Ed.			



		<p>1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018, —IEC 62288 Ed. 2.0: 2014-07, —IEC 62388 Ed. 2.0: 2013-06, — IEC 62923-1:2018, — IEC 62923-2:2018.</p>			
MED/4.35 Radar equipment CAT 2	Type approval requirements —SOLAS 74 Reg. V/18.	—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: — EN 61162-1 (2011) — EN 61162-2 (1998) — EN 61162-3 (2008) —EN 61162-450 (2011), — EN 62388:2013, — EN 62288:2014. Or, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61162 series:	B+D B+E B+F G		31.8.2019 (I)
	Carriage and performance requirements —SOLAS 74 Reg. V/19, —IMO Res.A.278(VIII), —IMO Res.A.694(17), —IMO Res.MSC.191(79),				



	<p>—IMO Res.MSC.192(79),</p> <p>—IMO Res.MSC.302(87),</p> <p>—ITU-R M.1177-4 (04/11).</p>	<p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62388 Ed. 2.0 (2013-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
<p>MED/4.35</p> <p>Radar equipment CAT 2</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.278(VIII),</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011))+A1(2016),</p> <p>— EN 62388:2013,</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	<p>19.6.2018</p>	<p>29.8.2021 (I)</p>



	<p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.192(79),</p> <p>—IMO Res.MSC.302(87),</p> <p>—ITU-R M.1177-4 (04/11).</p>	<p>— EN 62288:2014.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62388 Ed. 2.0 (2013-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
<p>MED/4.35</p> <p>Radar equipment CAT 2</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—EN 61162 series:</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>13.9.2019</p>	



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.278(VIII),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.192(79),</p> <p>—IMO Res.MSC.302(87),</p> <p>—ITU-R M.1177-4 (04/11).</p>	<p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>— EN 62388:2013,</p> <p>— EN 62288:2014,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p> <p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>—IEC 62388 Ed. 2.0: 2013-06,</p>	G		
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MED/4.36 Radar equipment CAT 3	Type approval requirements	<ul style="list-style-type: none"> —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1 (2011) — EN 61162-2 (1998) — EN 61162-3 (2008) —EN 61162-450 (2011), — EN 62288:2014, — EN 62388:2013, 	B+D B+E B+F G		31.8.2019 (I)
	Carriage and performance requirements	<ul style="list-style-type: none"> —SOLAS 74 Reg. V/18. —SOLAS 74 Reg. V/19, —IMO Res.A.278(VIII), —IMO Res.A.694(17), —IMO Res.MSC.191(79), —IMO Res.MSC.192(79), —IMO Res.MSC.302(87), 			



	—ITU-R M.1177-4 (04/11).	—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) —IEC 61162-450 ed1.0 (2011-06), —IEC 62288 Ed. 2.0 (2014-07), —IEC 62388 Ed. 2.0 (2013-06).			
MED/4.36 Radar equipment CAT 3	Type approval requirements —SOLAS 74 Reg. V/18. Carriage and performance requirements —SOLAS 74 Reg. V/19, —IMO Res.A.278(VIII), —IMO Res.A.694(17), —IMO Res.MSC.191(79),	—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: — EN 61162-1 (2016) — EN 61162-2 (1998) —EN 61162-3 (2008) +A1(2010)+A2(2014) —EN 61162-450 (2011))+A1(2016) — EN 62288:2014, — EN 62388:2013. Or: —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),	B+D B+E B+F G	19.6.2018	29.8.2021 (I)



	<ul style="list-style-type: none"> —IMO Res.MSC.192(79), —IMO Res.MSC.302(87), —ITU-R M.1177-4 (04/11). 	<ul style="list-style-type: none"> —IEC 61162 series: <ul style="list-style-type: none"> —IEC 61162-1 (2016) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) —IEC 61162-450 ed1.0 (2011-06) with am1(2016), —IEC 62288 Ed. 2.0 (2014-07), —IEC 62388 Ed. 2.0 (2013-06). 			
MED/4.36 Radar equipment CAT 3	Type approval requirements —SOLAS 74 Reg. V/18.	<ul style="list-style-type: none"> —EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018, — EN 62288:2014, 	B+D B+E B+F G	13.9.2019	
	Carriage and performance requirements —SOLAS 74 Reg. V/19,				



	<p>—IMO Res.A.278(VIII),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.192(79),</p> <p>—IMO Res.MSC.302(87),</p> <p>—ITU-R M.1177-4 (04/11).</p>	<p>— EN 62388:2013,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p> <p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>—IEC 62388 Ed. 2.0: 2013-06,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
MED/4.37	Type approval requirements		B+D		31.8.2019



<p>Radar equipment for high speed craft applications (CAT 1H and CAT 2H)</p>	<p>—SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: — EN 61162-1 (2011) — EN 61162-2 (1998) — EN 61162-3 (2008) —EN 61162-450 (2011), — EN 62288:2014, — EN 62388:2013, Or, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61162 series: —IEC 61162-1 ed4.0 (2010-11) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) —IEC 61162-450 ed1.0 (2011-06),</p>	<p>B+E B+F G</p>		<p>(I)</p>
	<p>Carriage and performance requirements —IMO Res.A.278(VIII), —IMO Res.A.694(17), —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>				



	<p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.192(79),</p> <p>—IMO Res.MSC.302(87),</p> <p>—MSC.1/Circ.1349,</p> <p>—ITU-R M.1177-4 (04/11).</p>	<p>—IEC 62288 Ed. 2.0 (2014-07),</p> <p>—IEC 62388 Ed. 2.0 (2013-06).</p>			
<p>MED/4.37</p> <p>Radar equipment for high speed craft applications (CAT 1H and CAT 2H)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011))+A1(2016),</p> <p>— EN 62288:2014,</p> <p>— EN 62388:2013,</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	19.6.2018	29.8.2021 (I)
	<p>Carriage and performance requirements</p>				



	<p>—IMO Res.A.278(VIII),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13. IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.192(79),</p> <p>—IMO Res.MSC.302(87),</p> <p>—MSC.1/Circ.1349,</p> <p>—ITU-R M.1177-4 (04/11).</p>	<p>—IEC 61162 series:</p> <p>—IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62288 Ed. 2.0 (2014-07),</p> <p>—IEC 62388 Ed. 2.0 (2013-06).</p>			
<p>MED/4.37</p> <p>Radar equipment for high speed craft applications (CAT 1H and CAT 2H)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. X/3,</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—EN 61162 series:</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>13.9.2019</p>	



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>— EN 62288:2014,</p> <p>— EN 62388:2013,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>	G		
	<p>Carriage and performance requirements</p> <p>—IMO Res.A.278(VIII),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13. IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.192(79),</p>	<p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p> <p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p>			



	<ul style="list-style-type: none"> —IMO Res.MSC.302(87), —MSC.1/Circ.1349, —ITU-R M.1177-4 (04/11). 	<ul style="list-style-type: none"> —IEC 62388 Ed. 2.0: 2013-06, — IEC 62923-1:2018, — IEC 62923-2:2018. 			
<p>MED/4.38a Radar equipment approved with a chart option, namely: CAT 1C,</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13. 	<ul style="list-style-type: none"> —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1 (2011) — EN 61162-2 (1998) — EN 61162-3 (2008) —EN 61162-450 (2011), — EN 62288:2014, — EN 62388:2013. <p>Or,</p>	<p>B+D B+E B+F G</p>		<p>31.8.2019 (I)</p>
	<p>Carriage and performance requirements</p> <ul style="list-style-type: none"> —IMO Res.A.278(VIII), —IMO Res.A.694(17), 	<ul style="list-style-type: none"> —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61162 series: <ul style="list-style-type: none"> —IEC 61162-1 ed4.0 (2010-11) —IEC 61162-2 ed1.0 (1998-09) 			



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.192(79),</p> <p>—IMO Res.MSC.302(87),</p> <p>—ITU-R M.1177-4 (04/11).</p>	<p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07),</p> <p>—IEC 62388 Ed. 2.0 (2013-06).</p>			
<p>MED/4.38a</p> <p>Radar equipment approved with a chart option, namely: CAT 1C,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>—EN 61162-1 (2016)</p> <p>—EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	19.6.2018	29.8.2021 (I)



	(2000 HSC Code) 13.	—EN 61162-450 (2011))+A1(2016),			
	Carriage and performance requirements —IMO Res.A.278(VIII), —IMO Res.A.694(17), —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13. —IMO Res.MSC.191(79), —IMO Res.MSC.192(79), —IMO Res.MSC.302(87), —ITU-R M.1177-4 (04/11).	— EN 62288:2014, — EN 62388:2013. Or: —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61162 series: — IEC 61162-1 (2016) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) —IEC 61162-450 ed1.0 (2011-06) with am1(2016), —IEC 62288 Ed. 2.0 (2014-07), —IEC 62388 Ed. 2.0 (2013-06).			



MED/4.38a Radar equipment approved with a chart option, namely: CAT 1C,	Type approval requirements —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13.	—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —EN 61162 series: — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018, — EN 62288:2014, — EN 62388:2013, — IEC 62923-1:2018, — IEC 62923-2:2018.	B+D B+E B+F G	13.9.2019	
	Carriage and performance requirements —IMO Res.A.278(VIII), —IMO Res.A.694(17), —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-	Or: —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, —IEC 61162 series: — IEC 61162-1:2016 —IEC 61162-2 ed1.0: 1998-09 —IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07			



	<p>(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.192(79),</p> <p>—IMO Res.MSC.302(87),</p> <p>—ITU-R M.1177-4 (04/11).</p>	<p>—IEC 61162-450:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>—IEC 62388 Ed. 2.0: 2013-06,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
<p>MED/4.38b</p> <p>Radar equipment approved with a chart option, namely:</p> <p>CAT 2C,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p> <p>— EN 61162-2 (1998)</p> <p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p> <p>— EN 62288:2014,</p> <p>— EN 62388:2013.</p> <p>Or,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>		<p>31.8.2019</p> <p>(I)</p>
	<p>Carriage and performance requirements</p>				



	<p>—IMO Res.A.278(VIII),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.192(79),</p> <p>—IMO Res.MSC.302(87),</p> <p>—ITU-R M.1177-4 (04/11).</p>	<p>—IEC 61162 series:</p> <p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07),</p> <p>—IEC 62388 Ed. 2.0 (2013-06).</p>			
<p>MED/4.38b</p> <p>Radar equipment approved with a chart option, namely:</p> <p>CAT 2C,</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. X/3,</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>19.6.2018</p>	<p>29.8.2021</p> <p>(I)</p>



	<p>—IMO Res.MSC.36(63)- (1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) 13.</p>	<p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011))+A1(2016),</p> <p>— EN 62288:2014,</p> <p>— EN 62388:2013.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62288 Ed. 2.0 (2014-07),</p>	G		
	<p>Carriage and performance requirements</p> <p>—IMO Res.A.278(VIII),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)- (1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p>				



	<ul style="list-style-type: none"> —IMO Res.MSC.192(79), —IMO Res.MSC.302(87), —ITU-R M.1177-4 (04/11). 	—IEC 62388 Ed. 2.0 (2013-06).			
MED/4.38b Radar equipment approved with a chart option, namely: CAT 2C,	Type approval requirements <ul style="list-style-type: none"> —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13. 	—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —EN 61162 series: — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018, — EN 62288:2014, — EN 62388:2013, — IEC 62923-1:2018, — IEC 62923-2:2018.	B+D B+E B+F G	13.9.2019	
	Carriage and performance requirements <ul style="list-style-type: none"> —IMO Res.A.278(VIII), —IMO Res.A.694(17), 	Or: —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, —IEC 61162 series: — IEC 61162-1:2016			



	<ul style="list-style-type: none"> —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13. —IMO Res.MSC.191(79), —IMO Res.MSC.192(79), —IMO Res.MSC.302(87), —ITU-R M.1177-4 (04/11). 	<ul style="list-style-type: none"> —IEC 61162-2 ed1.0: 1998-09 —IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07 —IEC 61162-450:2018, —IEC 62288 Ed. 2.0: 2014-07, —IEC 62388 Ed. 2.0: 2013-06, — IEC 62923-1:2018, — IEC 62923-2:2018. 			
<p>MED/4.38c Radar equipment for high speed craft applications approved with a chart option, namely: CAT 1HC</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)- 	<ul style="list-style-type: none"> —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1 (2011) — EN 61162-2 (1998) — EN 61162-3 (2008) —EN 61162-450 (2011), 	<p>B+D B+E B+F G</p>		<p>31.8.2019 (I)</p>



	(2000 HSC Code) 13.	— EN 62288:2014, — EN 62388:2013.			
	Carriage and performance requirements —IMO Res.A.278(VIII), —IMO Res.A.694(17), —IMO Res.MSC.36(63)- (1994 HSC Code) 13, —IMO Res.MSC.97(73)- (2000 HSC Code) 13. —IMO Res.MSC.191(79), —IMO Res.MSC.192(79), —ITU-R M.1177-4 (04/11), —IMO Res.MSC.302(87),	Or, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61162 series: —IEC 61162-1 ed4.0 (2010-11) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) —IEC 61162-450 ed1.0 (2011-06), —IEC 62288 Ed. 2.0 (2014-07), —IEC 62388 Ed. 2.0 (2013-06).			



	—IMO MSC.1/Circ.1349.				
MED/4.38c Radar equipment for high speed craft applications approved with a chart option, namely: CAT 1HC	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011))+A1(2016),</p> <p>— EN 62288:2014,</p> <p>— EN 62388:2013.</p>	B+D B+E B+F G	19.6.2018	29.8.2021 (I)
	<p>Carriage and performance requirements</p> <p>—IMO Res.A.278(VIII),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p>	<p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed.</p>			



	<ul style="list-style-type: none"> —IMO Res.MSC.97(73)-(2000 HSC Code) 13. —IMO Res.MSC.191(79), —IMO Res.MSC.192(79), —ITU-R M.1177-4 (04/11), —IMO Res.MSC.302(87), —IMO MSC.1/Circ.1349. 	<ul style="list-style-type: none"> 1.0 (2010-11) and am2 ed. 1.0 (2014-07) —IEC 61162-450 ed1.0 (2011-06) with am1(2016), —IEC 62288 Ed. 2.0 (2014-07), —IEC 62388 Ed. 2.0 (2013-06). 			
<p>MED/4.38c Radar equipment for high speed craft applications approved with a chart option, namely: CAT 1HC</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13. 	<ul style="list-style-type: none"> —EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018, — EN 62288:2014, — EN 62388:2013, 	<p>B+D B+E B+F G</p>	13.9.2019	



	<p>Carriage and performance requirements</p> <p>—IMO Res.A.278(VIII),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.192(79),</p> <p>—ITU-R M.1177-4 (04/11),</p> <p>—IMO Res.MSC.302(87),</p> <p>—IMO MSC.1/Circ.1349.</p>	<p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p> <p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>—IEC 62388 Ed. 2.0: 2013-06,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
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MED/4.38d Radar equipment for high speed craft applications approved with a chart option, namely: CAT 2HC	Type approval requirements —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13.	—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: — EN 61162-1 (2011) — EN 61162-2 (1998) — EN 61162-3 (2008) —EN 61162-450 (2011), — EN 62288:2014, —IEC 62388 Ed. 2.0 (2013-06). Or, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61162 series: —IEC 61162-1 ed4.0 (2010-11) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)	B+D B+E B+F G	31.8.2019 (I)
	Carriage and performance requirements —IMO Res.A.278(VIII), —IMO Res.A.694(17), —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-			



	<p>(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.192(79),</p> <p>—IMO Res.MSC.302(87),</p> <p>—IMO MSC.1/Circ.1349,</p> <p>—ITU-R M.1177-4 (04/11).</p>	<p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07),</p> <p>— EN 62388:2013.</p>			
<p>MED/4.38d</p> <p>Radar equipment for high speed craft applications approved with a chart option, namely: CAT 2HC</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011))+A1(2016),</p> <p>— EN 62288:2014,</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	<p>19.6.2018</p>	<p>29.8.2021 (I)</p>



	<p>Carriage and performance requirements</p> <p>—IMO Res.A.278(VIII),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.192(79),</p> <p>—IMO Res.MSC.302(87),</p> <p>—IMO MSC.1/Circ.1349,</p> <p>—ITU-R M.1177-4 (04/11).</p>	<p>—IEC 62388 Ed. 2.0 (2013-06).</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62288 Ed. 2.0 (2014-07),</p> <p>— EN 62388:2013.</p>			
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MED/4.38d Radar equipment for high speed craft applications approved with a chart option, namely: CAT 2HC	Type approval requirements —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13.	—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —EN 61162 series: — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018, — EN 62288:2014, — EN 62388:2013, — IEC 62923-1:2018, — IEC 62923-2:2018.	B+D B+E B+F G	13.9.2019	
	Carriage and performance requirements —IMO Res.A.278(VIII), —IMO Res.A.694(17), —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-	Or: —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, —IEC 61162 series: — IEC 61162-1:2016 —IEC 61162-2 ed1.0: 1998-09 —IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07			



	<p>(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.192(79),</p> <p>—IMO Res.MSC.302(87),</p> <p>—IMO MSC.1/Circ.1349,</p> <p>—ITU-R M.1177-4 (04/11).</p>	<p>—IEC 61162-450:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>—IEC 62388 Ed. 2.0: 2013-06,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
<p>MED/4.39</p> <p>Radar reflector — passive type</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>— ISO 8729-1:2010,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008.</p> <p>Or:</p> <p>— ISO 8729-1:2010,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>		



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.164(78).</p>				
<p>MED/4.40</p> <p>Heading control system for high speed craft</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-</p>	<p>— ISO 16329:2003,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p> <p>— EN 61162-2 (1998)</p> <p>— EN 61162-3 (2008)</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>		<p>31.8.2019</p> <p>(I)</p>



	(2000 HSC Code) 13.	—EN 61162-450 (2011), — EN 62288:2014. Or, — ISO 16329:2003, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61162 series: —IEC 61162-1 ed4.0 (2010-11) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) —IEC 61162-450 ed1.0 (2011-06), —IEC 62288 Ed. 2.0 (2014-07).			
	Carriage and performance requirements —IMO Res.A.694(17), —IMO Res.A.822(19), —IMO Res.MSC.36(63)- (1994 HSC Code) 13, —IMO Res.MSC.97(73)- (2000 HSC Code) 13. —IMO Res.MSC.191(79), —IMO Res.MSC.302(87), —IMO MSC.1/Circ.1349.				
MED/4.40	Type approval requirements	— ISO 16329:2003,	B+D	19.6.2018	29.8.2021



Heading control system for high speed craft	<p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>— EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011))+A1(2016),</p> <p>— EN 62288:2014.</p>	B+E B+F G		(I)
	<p>Carriage and performance requirements</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.822(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>Or:</p> <p>— ISO 16329:2003,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p>			



	<p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87),</p> <p>—IMO MSC.1/Circ.1349.</p>	<p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
<p>MED/4.40</p> <p>Heading control system for high speed craft</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>— ISO 16329:2003,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>— EN 62288:2014,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p> <p>Or:</p> <p>— ISO 16329:2003,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—IEC 61162 series:</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	<p>13.9.2019</p>	
	<p>Carriage and performance requirements</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.822(19),</p>				



	<ul style="list-style-type: none"> —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13. —IMO Res.MSC.191(79), —IMO Res.MSC.302(87), —IMO MSC.1/Circ.1349. 	<ul style="list-style-type: none"> — IEC 61162-1:2016 —IEC 61162-2 ed1.0: 1998-09 —IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07 —IEC 61162-450:2018, —IEC 62288 Ed. 2.0: 2014-07, — IEC 62923-1:2018, — IEC 62923-2:2018. 			
MED/4.41 Transmitting heading device THD (GNSS method)	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. V/18, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)- 	<ul style="list-style-type: none"> — ISO 22090-3:2014, —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1 (2011) — EN 61162-2 (1998) — EN 61162-3 (2008) —EN 61162-450 (2011), — EN 62288:2014. 	B+D B+E B+F G		31.8.2019 (1)



	(2000 HSC Code) 13.	Or, — ISO 22090-3:2014, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61162 series: —IEC 61162-1 ed4.0 (2010-11) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) —IEC 61162-450 ed1.0 (2011-06), —IEC 62288 Ed. 2.0 (2014-07).			
	Carriage and performance requirements —SOLAS 74 Reg. V/19, —IMO Res.A.694(17), —IMO Res.MSC.36(63)- (1994 HSC Code) 13, —IMO Res.MSC.97(73)- (2000 HSC Code) 13. —IMO Res.MSC.116(73), —IMO Res.MSC.191(79), —IMO Res.MSC.302(87).				
MED/4.41	Type approval requirements	— ISO 22090-3:2014,	B+D	19.6.2018	29.8.2021



Transmitting heading device THD (GNSS method)	<p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>— EN 62288:2014.</p> <p>Or:</p> <p>— ISO 22090-3:2014,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p>	B+E B+F G		(I)
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-</p>	<p>—IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p> <p>And as applicable</p> <p>EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>EN 61162-450 (2011)+A1(2016),</p> <p>Or,</p> <p>IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-</p>			



	<p>(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.116(73),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>11) and am2 ed. 1.0 (2014-07)</p> <p>IEC 61162-450 ed1.0 (2011-06) with am1(2016).</p>			
<p>MED/4.41</p> <p>Transmitting heading device THD (GNSS method)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>— ISO 22090-3:2014,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>— EN 61162 series:</p> <p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>— EN 62288:2014,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p> <p>Or:</p> <p>— ISO 22090-3:2014,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	<p>13.9.2019</p>	
	<p>Carriage and performance requirements</p>				



	<p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.116(73),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p> <p>And as applicable</p> <p>—EN 61162 series:</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018.</p> <p>Or:</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018.</p>			
<p>MED/4.42</p> <p>Searchlight for high speed craft</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-</p>	<p>— ISO 17884:2004,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008.</p> <p>Or:</p> <p>— ISO 17884:2004,</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>		



	<p>(1994 HSC Code) 13, —IMO Res.MSC.97(73)- (2000 HSC Code) 13.</p> <hr/> <p>Carriage and performance requirements —IMO Res.A.694(17), —IMO Res.MSC.36(63)- (1994 HSC Code) 13, —IMO Res.MSC.97(73)- (2000 HSC Code) 13.</p>	—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008.			
MED/4.43 Night vision equipment for high speed craft	<p>Type approval requirements —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-</p>	<p>— ISO 16273:2003, —EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, — EN 62288:2014. Or:</p>	B+D B+E B+F G		



	<p>(1994 HSC Code) 13, —IMO Res.MSC.97(73)- (2000 HSC Code) 13.</p>	<p>— ISO 16273:2003, —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, —IEC 62288 Ed. 2.0: 2014- 07.</p>			
	<p>Carriage and performance requirements</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)- (1994 HSC Code) 13,</p> <p>—IMO Res.MSC.94(72),</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79).</p>				
MED/4.44	Type approval requirements		B+D		31.8.2019



Differential beacon receiver for DGPS and DGLONASS Equipment	<p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— IEC 61108-4 (2004),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p> <p>— EN 61162-2 (1998)</p> <p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011).</p> <p>Or,</p>	B+E B+F G		(I)
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-</p>	<p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— IEC 61108-4 (2004),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06).</p>			



	(2000 HSC Code) 13. —IMO Res.MSC.114(73).				
MED/4.44 Differential beacon receiver for DGPS and DGLONASS Equipment	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19, —IMO Res.A.694(17),</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61108-4 (2004), —EN 61162 series: —EN 61162-1 (2016) —EN 61162-2 (1998) —EN 61162-3 (2008) +A1(2010)+A2(2014) —EN 61162-450 (2011))+A1(2016).</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61108-4 (2004), —IEC 61162 series: —IEC 61162-1 (2016) —IEC 61162-2 ed1.0 (1998-09)</p>	B+D B+E B+F G	19.6.2018	7.5.2021 (I)



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.114(73).</p>	<p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016).</p>			
<p>MED/4.44</p> <p>Differential beacon receiver for DGPS and DGLONASS Equipment</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>— IEC 61108-4: 2004,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	<p>13.9.2019</p>	



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.114(73).</p>	<p>— IEC 61108-4: 2004,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p> <p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018.</p>			
Item MED/4.45, Chart facilities for shipborne radar, - item intentionally left blank deleted, as it is covered by MED/4.38.					
<p>MED/4.46</p> <p>Transmitting heading device THD (Gyroscopic method)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p>	<p>— ISO 22090-1:2014,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>		<p>31.8.2019</p> <p>(I)</p>



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>— EN 61162-2 (1998)</p> <p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p> <p>— EN 62288:2014,</p> <p>Or,</p> <p>— ISO 22090-1:2014,</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.116(73),</p>	<p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			



	<p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>				
<p>MED/4.46 Transmitting heading device THD (Gyroscopic method)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)- (1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) 13.</p>	<p>— ISO 22090-1:2014,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series: — EN 61162-1 (2016) — EN 61162-2 (1998) — EN 61162-3 (2008) +A1(2010)+A2(2014) —EN 61162-450 (2011))+A1(2016),</p> <p>— EN 62288:2014,</p> <p>Or:</p>	<p>B+D B+E B+F G</p>	<p>19.6.2018</p>	<p>29.8.2021 (I)</p>
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p>	<p>— ISO 22090-1:2014,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series: — IEC 61162-1 (2016) — IEC 61162-2 ed1.0 (1998-09)</p>			



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.116(73),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
<p>MED/4.46 Transmitting heading device THD (Gyroscopic method)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-</p>	<p>— ISO 22090-1:2014,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>— EN 62288:2014,</p>	<p>B+D B+E B+F G</p>	<p>13.9.2019</p>	



	<p>(2000 HSC Code) 13.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.116(73),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>— IEC 62923-1:2018, — IEC 62923-2:2018.</p> <p>Or:</p> <p>— ISO 22090-1:2014, —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, —IEC 61162 series: — IEC 61162-1:2016 —IEC 61162-2 ed1.0: 1998-09 —IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07 —IEC 61162-450:2018, —IEC 62288 Ed. 2.0: 2014-07, — IEC 62923-1:2018, — IEC 62923-2:2018.</p>			
MED/4.47	Type approval requirements		B+D		31.8.2019



Simplified voyage data recorder (S-VDR)	—SOLAS 74 Reg. V/20.	—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),	B+E B+F G	(I)
	Carriage and performance requirements —SOLAS 74 Reg. V/20. —IMO Res.A.694(17), —IMO Res.MSC.163(78), —IMO Res.MSC.191(79), —IMO Res.MSC.302(87).	—EN 61162 series: — EN 61162-1 (2011) — EN 61162-2 (1998) — EN 61162-3 (2008) —EN 61162-450 (2011), — EN 61996-2:2008, — EN 62288:2014. Or, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61162 series: —IEC 61162-1 ed4.0 (2010-11) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) —IEC 61162-450 ed1.0 (2011-06),		



		<ul style="list-style-type: none"> — IEC 61996-2 (2007), — IEC 62288 Ed. 2.0 (2014-07). 			
MED/4.47 Simplified voyage data recorder (S-VDR)	Type approval requirements — SOLAS 74 Reg. V/20.	<ul style="list-style-type: none"> — EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), — EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1 (2016) — EN 61162-2 (1998) — EN 61162-3 (2008) +A1(2010)+A2(2014) — EN 61162-450 (2011)+A1(2016), — EN 61996-2:2008, — EN 62288:2014. 	B+D B+E B+F G	19.6.2018	29.8.2021 (I)
	Carriage and performance requirements — SOLAS 74 Reg. V/20. — IMO Res.A.694(17), — IMO Res.MSC.163(78), — IMO Res.MSC.191(79), — IMO Res.MSC.302(87).	<p>Or:</p> <ul style="list-style-type: none"> — IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), — IEC 61162 series: <ul style="list-style-type: none"> — IEC 61162-1 (2016) — IEC 61162-2 ed1.0 (1998-09) — IEC 61162-3 ed1.2 Consol. with am1 ed. 			



		<p>1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>— IEC 61996-2 (2007),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
<p>MED/4.47</p> <p>Simplified voyage data recorder (S-VDR)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/20.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>— EN 61996-2:2008,</p> <p>— EN 62288:2014,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	<p>13.9.2019</p>	
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/20.</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.163(78),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>				



		<ul style="list-style-type: none"> —IEC 61162 series: <ul style="list-style-type: none"> — IEC 61162-1:2016 —IEC 61162-2 ed1.0: 1998-09 —IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07 —IEC 61162-450:2018, — IEC 61996-2: 2007, —IEC 62288 Ed. 2.0: 2014-07, — IEC 62923-1:2018, — IEC 62923-2:2018. 			
Item MED/4.48 'Mechanical pilot hoist' is deliberately left blank (as IMO Res.MSC.308(88), in force on 1 July 2012, quotes: 'Mechanical pilot hoists shall not be used')					
MED/4.49 Pilot ladder	Type approval requirements —SOLAS 74 Reg. V/23, —SOLAS 74 Reg. X/3.	—IMO Res. A.1045(27), as amended, — ISO 799:2004.	B+D B+E B+F G		



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/23,</p> <p>—IMO Res. A.1045(27),</p> <p>—IMO MSC/Circ.1428.</p>				
<p>MED/4.50 DGPS Equipment</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— EN 61108-1:2003,</p> <p>— EN 61108-4:2004,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p> <p>— EN 61162-2 (1998)</p> <p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p> <p>— EN 62288:2014.</p>	<p>B+D B+E B+F G</p>		<p>31.8.2019 (I)</p>



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.112(73),</p> <p>—IMO Res.MSC.114(73),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>Or,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— IEC 61108-1 (2003),</p> <p>— IEC 61108-4 (2004),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
MED/4.50	Type approval requirements		B+D	19.6.2018	29.8.2021



<p>DGPS Equipment</p>	<p>—SOLAS 74 Reg. V/18, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), — EN 61108-1:2003, — EN 61108-4:2004, —EN 61162 series: — EN 61162-1 (2016) — EN 61162-2 (1998) —EN 61162-3 (2008) +A1(2010)+A2(2014) —EN 61162-450 (2011))+A1(2016), — EN 62288:2014.</p>	<p>B+E B+F G</p>		<p>(I)</p>
	<p>Carriage and performance requirements —SOLAS 74 Reg. V/19, —IMO Res.A.694(17), —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-</p>	<p>Or: —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), — IEC 61108-1 (2003), — IEC 61108-4 (2004), —IEC 61162 series: — IEC 61162-1 (2016) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed.</p>			



	<p>(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.112(73),</p> <p>—IMO Res.MSC.114(73),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
<p>MED/4.50</p> <p>DGPS Equipment</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>— EN 61108-1:2003,</p> <p>— EN 61108-4:2004,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>— EN 62288:2014,</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	<p>13.9.2019</p>	



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.112(73),</p> <p>—IMO Res.MSC.114(73),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>— IEC 61108-1: 2003,</p> <p>— IEC 61108-4: 2004,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p> <p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
MED/4.51	Type approval requirements		B+D		31.8.2019



DGLONASS Equipment	<p>—SOLAS 74 Reg. V/18, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), — EN 61108-2:1998, — EN 61108-4:2004, —EN 61162 series: — EN 61162-1 (2011) — EN 61162-2 (1998) — EN 61162-3 (2008) —EN 61162-450 (2011), — EN 62288:2014.</p>	B+E B+F G		(I)
	<p>Carriage and performance requirements —SOLAS 74 Reg. V/19, —IMO Res.A.694(17), —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-</p>	<p>Or, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61108-2 Ed. 1.0 (1998), — IEC 61108-4 (2004), —IEC 61162 series: —IEC 61162-1 ed4.0 (2010-11) —IEC 61162-2 ed1.0 (1998-09)</p>			



	<p>(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.113(73),</p> <p>—IMO Res.MSC.114(73),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
<p>MED/4.51</p> <p>DGLONASS Equipment</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— EN 61108-2:1998,</p> <p>— EN 61108-4:2004,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011))+A1(2016),</p> <p>— EN 62288:2014.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	<p>19.6.2018</p>	<p>29.8.2021</p> <p>(I)</p>



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.113(73),</p> <p>—IMO Res.MSC.114(73),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61108-2 Ed. 1.0 (1998),</p> <p>— IEC 61108-4 (2004),</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
MED/4.51	Type approval requirements		B+D	13.9.2019	



DGLONASS Equipment	<p>—SOLAS 74 Reg. V/18, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, — EN 61108-2:1998, — EN 61108-4:2004, —EN 61162 series: — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018, — EN 62288:2014, — IEC 62923-1:2018, — IEC 62923-2:2018.</p>	B+E B+F G		
	<p>Carriage and performance requirements —SOLAS 74 Reg. V/19, —IMO Res.A.694(17), —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-</p>	<p>Or: —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, —IEC 61108-2 Ed. 1.0: 1998, — IEC 61108-4: 2004, —IEC 61162 series: — IEC 61162-1:2016 —IEC 61162-2 ed1.0: 1998-09</p>			



	<p>(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.113(73),</p> <p>—IMO Res.MSC.114(73),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
<p>MED/4.52 Daylight signalling lamp</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code),</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code).</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>— ISO 25861:2007.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>— ISO 25861:2007.</p>	<p>B+D B+E B+F</p>		
	<p>Carriage and performance requirements</p>				



	<p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code),</p> <p>—IMO Res.MSC.95(72),</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code).</p>				
<p>MED/4.53 Radar target enhancer</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>— ISO 8729-2:2009,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008.</p> <p>Or:</p> <p>— ISO 8729-2:2009,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008.</p>	<p>B+D B+E B+F G</p>		



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.164(78),</p> <p>—ITU-R M.1176-1 (02/13).</p>				
<p>MED/4.54 Compass Bearing Device</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18.</p>	<p>— ISO 25862:2009,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008.</p>	<p>B+D B+E B+F</p>		



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19.</p>	<p>Or:</p> <p>— ISO 25862:2009,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008.</p>	G		
<p>MED/4.55</p> <p>Search and rescue locating devices (SRLD):</p> <p>AIS SART equipment</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. III/4,</p> <p>—SOLAS 74 Reg. IV/14.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>— EN 61097-14:2010.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>— IEC 61097-14: 2010.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/6,</p> <p>—SOLAS 74 Reg. III/26,</p> <p>—SOLAS 74 Reg. IV/7,</p> <p>—IMO Res.MSC.246(83),</p> <p>—ITU-R M.1371-5: 2014,</p>				



	—IMO Res.MSC.302(87).				
MED/4.55 Search and rescue locating devices (SRLD): AIS SART equipment	Type approval requirements —SOLAS 74 Reg. III/4, —SOLAS 74 Reg. IV/14. Carriage and performance requirements —SOLAS 74 Reg. III/6, —SOLAS 74 Reg. III/26, —SOLAS 74 Reg. IV/7, —IMO Res.MSC.246(83), —ITU-R M.1371-5: 2014,	—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, — EN 61097-14:2010. Or: —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, — IEC 61097-14: 2010.	B+D B+E B+F G		
MED/4.56	Type approval requirements		B+D		31.8.2019



Galileo Equipment	<p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— EN 61108-3:2010,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p> <p>— EN 61162-2 (1998)</p> <p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p> <p>— EN 62288:2014.</p>	B+E B+F G		(I)
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.813(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p>	<p>Or,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— IEC 61108-3 (2010),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p>			



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.233(82),</p> <p>—IMO Res.MSC.302(87).</p>	<p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
<p>MED/4.56 Galileo Equipment</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— EN 61108-3:2010,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011))+A1(2016),</p> <p>— EN 62288:2014.</p> <p>Or:</p>	<p>B+D B+E B+F G</p>	<p>19.6.2018</p>	<p>29.8.2021 (I)</p>



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.813(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.233(82),</p> <p>—IMO Res.MSC.302(87).</p>	<p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— IEC 61108-3 (2010),</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62288 Ed. 2.0 (2014-07).</p>			
MED/4.56	Type approval requirements		B+D	13.9.2019	



Galileo Equipment	<p>—SOLAS 74 Reg. V/18, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, — EN 61108-3:2010, —EN 61162 series: — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018, — EN 62288:2014, — IEC 62923-1:2018, — IEC 62923-2:2018.</p>	B+E B+F G		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19, —IMO Res.A.694(17), —IMO Res.A.813(19), —IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p>	<p>Or: —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, — IEC 61108-3: 2010, —IEC 61162 series: — IEC 61162-1:2016 —IEC 61162-2 ed1.0: 1998-09 —IEC 61162-3 ed1.2 Consol. with A1 Ed.</p>			



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.233(82),</p> <p>—IMO Res.MSC.302(87).</p>	<p>1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
<p>MED/4.57</p> <p>Bridge Navigational Watch Alarm System (BNWAS)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18.</p> <hr/> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.128(75),</p> <p>—IMO Res.MSC.191(79),</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p> <p>— EN 61162-2 (1998)</p> <p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p> <p>— EN 62288:2014,</p> <p>—IEC 62616(2010) incl. IEC 62616 Corr. 1 (2012).</p> <p>Or,</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>		<p>31.8.2019</p> <p>(I)</p>



	<p>—IMO Res.MSC.302(87),</p> <p>—MSC.1/Circ.1474.</p>	<p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07),</p> <p>—IEC 62616(2010) incl. IEC 62616 Corr. 1 (2012).</p>			
<p>MED/4.57</p> <p>Bridge Navigational Watch Alarm System (BNWAS)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	<p>19.6.2018</p>	<p>29.8.2021 (I)</p>
	<p>Carriage and performance requirements</p>				



	<p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.128(75),</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87),</p> <p>—MSC.1/Circ.1474.</p>	<p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011))+A1(2016),</p> <p>— EN 62288:2014,</p> <p>—IEC 62616(2010) incl. IEC 62616 Corr. 1 (2012).</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62288 Ed. 2.0 (2014-07),</p>			
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		—IEC 62616(2010) incl. IEC 62616 Corr. 1 (2012).			
MED/4.57 Bridge Navigational Watch Alarm System (BNWAS)	Type approval requirements —SOLAS 74 Reg. V/18.	—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —EN 61162 series: — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018, — EN 62288:2014, —IEC 62616: 2010 incl. IEC 62616 Corr. 1: 2012, — IEC 62923-1:2018, — IEC 62923-2:2018. Or: —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, —IEC 61162 series: — IEC 61162-1:2016 —IEC 61162-2 ed1.0: 1998-09	B+D B+E B+F G	13.9.2019	
	Carriage and performance requirements —SOLAS 74 Reg. V/19, —IMO Res.A.694(17), —IMO Res.MSC.128(75), —IMO Res.MSC.191(79), —IMO Res.MSC.302(87), —MSC.1/Circ.1474.				



		<ul style="list-style-type: none"> —IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07 —IEC 61162-450:2018, —IEC 62288 Ed. 2.0: 2014-07, —IEC 62616: 2010 incl. IEC 62616 Corr. 1: 2012, — IEC 62923-1:2018, — IEC 62923-2:2018. 			
MED/4.58 Sound reception system	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. V/18, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code), —IMO Res.MSC.97(73)-(2000 HSC Code). 	<ul style="list-style-type: none"> —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1 (2011) — EN 61162-2 (1998) — EN 61162-3 (2008) —EN 61162-450 (2011), — EN 62288:2014, — ISO 14859:2012. 	B+D B+E B+F G		31.8.2019 (I)



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)- (1994 HSC Code),</p> <p>—IMO Res.MSC.86(70),</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code).</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>Or,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07),</p> <p>— ISO 14859:2012.</p>			
<p>MED/4.58</p> <p>Sound reception system</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	<p>19.6.2018</p>	<p>29.8.2021</p> <p>(I)</p>



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code),</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code).</p>	<p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011))+A1(2016),</p> <p>— EN 62288:2014,</p> <p>— ISO 14859:2012.</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code),</p> <p>—IMO Res.MSC.86(70),</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code).</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 62288 Ed. 2.0 (2014-07),</p> <p>— ISO 14859:2012.</p>			



MED/4.58 Sound reception system	Type approval requirements	<ul style="list-style-type: none"> —EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018, — EN 62288:2014, — IEC 62923-1:2018, — IEC 62923-2:2018, — ISO 14859:2012. 	B+D B+E B+F G	13.9.2019	
	Carriage and performance requirements	<ul style="list-style-type: none"> — IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, —IEC 61162 series: <ul style="list-style-type: none"> — IEC 61162-1:2016 —IEC 61162-2 ed1.0: 1998-09 —IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07 			



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code).</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87).</p>	<p>—IEC 61162-450:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018,</p> <p>— ISO 14859:2012.</p>			
<p>MED/4.59</p> <p>Integrated navigation system</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/15,</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p> <p>— EN 61162-2 (1998)</p> <p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p> <p>— EN 62288:2014,</p> <p>—IEC 61924-2 Ed. 1.0 (2012-12).</p> <p>Or,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>		<p>31.8.2019</p> <p>(I)</p>



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.252(83),</p> <p>—IMO Res. MSC.302(87).</p>	<p>—IEC 61162 series:</p> <p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06),</p> <p>—IEC 62288 Ed. 2.0 (2014-07),</p> <p>—IEC 61924-2 Ed. 1.0 (2012-12).</p>			
<p>MED/4.59</p> <p>Integrated navigation system</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/15,</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>19.6.2018</p>	<p>29.8.2021</p> <p>(I)</p>



	<p>—SOLAS 74 Reg. V/18, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 61162-1 (2016) —EN 61162-2 (1998) —EN 61162-3 (2008) +A1(2010)+A2(2014) —EN 61162-450 (2011))+A1(2016), — EN 62288:2014, —IEC 61924-2 Ed. 1.0 (2012-12). Or:</p>	G		
	<p>Carriage and performance requirements —SOLAS 74 Reg. V/19, —IMO Res.A.694(17), —IMO Res.MSC.36(63)-(1994 HSC Code) 13, —IMO Res.MSC.97(73)-</p>	<p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), —IEC 61162 series: — IEC 61162-1 (2016) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) —IEC 61162-450 ed1.0 (2011-06) with am1(2016), —IEC 62288 Ed. 2.0 (2014-07),</p>			



	<p>(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.252(83),</p> <p>—IMO Res. MSC.302(87).</p>	—IEC 61924-2 Ed. 1.0 (2012-12).			
<p>MED/4.59</p> <p>Integrated navigation system</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. V/15,</p> <p>—SOLAS 74 Reg. V/18,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>— EN 62288:2014,</p> <p>—IEC 61924-2 Ed. 1.0: 2012-12,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p> <p>G</p>	13.9.2019	



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. V/19,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.252(83),</p> <p>—IMO Res. MSC.302(87).</p>	<p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p> <p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>—IEC 62288 Ed. 2.0: 2014-07,</p> <p>—IEC 61924-2 Ed. 1.0: 2012-12,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
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5. Radio-communication equipment

Notes applicable to section 5: Radio-communication equipment.

Column 3: In case of conflicting requirements between IMO MSC/Circ.862 and the product testing standards, the IMO MSC/Circ.862 requirements shall take precedence.

Column 3: In case of conflicting conditions, requirements and tests between Table 5 and Table 6 of IEC 60945 and other listed standards (i.e. ETSI standards), the IEC 60945 conditions, requirements and tests shall take precedence.

Number and item designation	Regulation SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment	First placing on the market	Last placing on board
1	2	3	4	5	6
MED/5.1 VHF radio capable of transmitting and receiving DSC and radiotelephony	Type approval requirements —SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 14, —IMO Res.MSC.97(73)-	— IMO MSC/Circ.862, —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), — EN 61162 series, —ETSI EN 300 338-1 V1.3.1 (2010-02), —ETSI EN 300 338-2 V1.3.1 (2010-02), —ETSI EN 301 843-2 V1.2.1 (2004-06),	B+D B+E B+F		21.3.2019 (III)



	(2000 HSC Code) 14.	—ETSI EN 301 925 V1.4.1 (2013-05).			
	Carriage and performance requirements —SOLAS 74 Reg. IV/7, —SOLAS 74 Reg. X/3, —IMO Res.A.385(X), —IMO Res.A.524(13), —IMO Res.A.694(17), —IMO Res.A.803(19), —IMO Res.MSC.36(63)- (1994 HSC Code) 14, —IMO Res.MSC.97(73)- (2000 HSC Code) 14.				



	<ul style="list-style-type: none"> —IMO MSC/Circ.862, —IMO MSC.1/Circ.1460, —IMO COMSAR Circ.32, —ITU-R M.489-2 (10/95), —ITU-R M.493-13 (10/09), —ITU-R M.541-9 (05/04), —ITU-R M.689-3 (03/12). 				
<p>MED/5.1 VHF radio capable of transmitting and receiving DSC and radiotelephony</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 14, 	<ul style="list-style-type: none"> — IMO MSC/Circ.862, —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1 (2011) — EN 61162-2 (1998) — EN 61162-3 (2008) —EN 61162-450 (2011), 	<p>B+D B+E B+F</p>	<p>16.3.2017</p>	<p>1.2.2020 (II)</p>



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—ETSI EN 300 338-1 V1.3.1 (2010-02),</p> <p>—ETSI EN 300 338-2 V1.3.1 (2010-02),</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.A.385(X),</p> <p>—IMO Res.A.524(13),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.803(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-</p>	<p>—ETSI EN 301 843-2 V2.1.1 (2016-03),</p> <p>—ETSI EN 301 925 V1.4.1 (2013-05).</p>			



	<p>(2000 HSC Code) 14.</p> <p>—IMO MSC/Circ.862,</p> <p>—IMO MSC.1/Circ.1460,</p> <p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.489-2 (10/95),</p> <p>—ITU-R M.493-14 (09/15),</p> <p>—ITU-R M.541-10 (10/15).</p>				
<p>MED/5.1</p> <p>VHF radio capable of transmitting and receiving DSC and radiotelephony</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p>	<p>— IMO MSC/Circ.862,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>19.6.2018</p>	<p>29.8.2021 (II)</p>



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—EN 61162-450 (2011))+A1(2016),</p> <p>—ETSI EN 300 338-1 V1.4.1 (2017-02),</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.A.385(X),</p> <p>—IMO Res.A.524(13),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.803(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-</p>	<p>—ETSI EN 300 338-2 V1.4.1 (2017-02),</p> <p>—ETSI EN 301 843-2 V2.1.1 (2016-03),</p> <p>—ETSI EN 301 925 V1.5.1 (2017-10).</p>			



	<p>(2000 HSC Code) 14, —IMO MSC/Circ.862, —IMO MSC.1/Circ.1460, —IMO COMSAR Circ.32, —ITU-R M.489-2 (10/95), —ITU-R M.493-14 (09/15), —ITU-R M.541-10 (10/15).</p>				
<p>MED/5.1 VHF radio capable of transmitting and receiving DSC and radiotelephony</p>	<p>Type approval requirements —SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)- (1994 HSC Code) 14,</p>	<p>— IMO MSC/Circ.862, —EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —EN 61162 series: — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014</p>	<p>B+D B+E B+F</p>	<p>13.9.2019</p>	



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—IEC 61162-450:2018, —ETSI EN 300 338-1 V1.4.1 (2017-02),</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/7, —SOLAS 74 Reg. X/3, —IMO Res.A.385(X), —IMO Res.A.524(13), —IMO Res.A.694(17), —IMO Res.A.803(19), —IMO Res.MSC.36(63)-(1994 HSC Code) 14, —IMO Res.MSC.97(73)-</p>	<p>—ETSI EN 300 338-2 V1.4.1 (2017-02), —ETSI EN 301 843-2 V2.2.1 (2017-11), —ETSI EN 301 925 V1.5.1 (2017-10), — IEC 62923-1:2018, — IEC 62923-2:2018. Or: — IMO MSC/Circ.862, —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, — IEC 61097-3: 2017, —IEC 61097-7: 1996 with Am1: 2018, —IEC 61162 series: — IEC 61162-1:2016 —IEC 61162-2 ed1.0: 1998-09 —IEC 61162-3 ed1.2 Consol. with A1 Ed.</p>			



	<p>(2000 HSC Code) 14,</p> <p>—IMO Res. MSC.302(87),</p> <p>—IMO MSC/Circ.862,</p> <p>—IMO MSC.1/Circ.1460,</p> <p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.489-2 (10/95),</p> <p>—ITU-R M.493-14 (09/15),</p> <p>—ITU-R M.541-10 (10/15).</p>	<p>1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
<p>MED/5.2</p> <p>VHF DSC watch-keeping receiver</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— EN 61162 series,</p> <p>—ETSI EN 300 338-1 V1.3.1 (2010-02),</p> <p>—ETSI EN 300 338-2 V1.3.1 (2010-02),</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		<p>21.3.2019</p> <p>(III)</p>



	<p>(1994 HSC Code) 14, —IMO Res.MSC.97(73)- (2000 HSC Code) 14.</p>	<p>—ETSI EN 301 033 V1.4.1 (2013-09), —ETSI EN 301 843-2 V1.2.1 (2004-06).</p>			
	<p>Carriage and performance requirements —SOLAS 74 Reg. IV/7, —SOLAS 74 Reg. X/3, —IMO Res.A.694(17), —IMO Res.A.803(19), —IMO Res.MSC.36(63)- (1994 HSC Code) 14, —IMO Res.MSC.97(73)- (2000 HSC Code) 14.</p>				



	<p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.489-2 (10/95),</p> <p>—ITU-R M.493-13 (10/09),</p> <p>—ITU-R M.541-9 (05/04)</p>				
<p>MED/5.2</p> <p>VHF DSC watch-keeping receiver</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p> <p>— EN 61162-2 (1998)</p> <p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p> <p>—ETSI EN 300 338-1 V1.3.1 (2010-02),</p> <p>—ETSI EN 300 338-2 V1.3.1 (2010-02),</p> <p>—ETSI EN 301 033 V1.4.1 (2013-09),</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>16.3.2017</p>	<p>1.2.2020 (III)</p>
	<p>Carriage and performance requirements</p>	<p>—ETSI EN 301 843-2 V2.1.1 (2016-03).</p>			



	<p>—SOLAS 74 Reg. IV/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.803(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p> <p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.489-2 (10/95),</p> <p>—ITU-R M.493-14 (09/15),</p> <p>—ITU-R M.541-10 (10/15).</p>				
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<p>MED/5.2 VHF DSC watch-keeping receiver</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 14, —IMO Res.MSC.97(73)-(2000 HSC Code) 14. 	<ul style="list-style-type: none"> —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1 (2016) — EN 61162-2 (1998) —EN 61162-3 (2008) +A1(2010)+A2(2014) —EN 61162-450 (2011))+A1(2016), —ETSI EN 300 338-1 V1.4.1 (2017-02), —ETSI EN 300 338-2 V1.4.1 (2017-02), 	<p>B+D B+E B+F</p>	<p>19.6.2018</p>	<p>29.8.2021 (III)</p>
	<p>Carriage and performance requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. IV/7, —SOLAS 74 Reg. X/3, —IMO Res.A.694(17), —IMO Res.A.803(19), 	<ul style="list-style-type: none"> —ETSI EN 301 033 V1.4.1 (2013-09), —ETSI EN 301 843-2 V2.1.1 (2016-03). 			



	<ul style="list-style-type: none"> —IMO Res.MSC.36(63)-(1994 HSC Code) 14, —IMO Res.MSC.97(73)-(2000 HSC Code) 14. —IMO COMSAR Circ.32, —ITU-R M.489-2 (10/95), —ITU-R M.493-14 (09/15), —ITU-R M.541-10 (10/15). 				
MED/5.2 VHF DSC watch-keeping receiver,	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 14, 	<ul style="list-style-type: none"> —EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018, 	B+D B+E B+F	13.9.2019	



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—ETSI EN 300 338-1 V1.4.2 (2017-11),</p> <p>—ETSI EN 300 338-2 V1.4.1 (2017-02),</p>		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.803(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p> <p>—IMO Res. MSC.302(87),</p>	<p>—ETSI EN 301 033 V1.4.1 (2013-09),</p> <p>—ETSI EN 301 843-2 V2.2.1 (2017-11),</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>— IEC 61097-3: 2017,</p> <p>— IEC 61097-8: 1998,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p> <p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p>		



	<p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.489-2 (10/95),</p> <p>—ITU-R M.493-14 (09/15),</p> <p>—ITU-R M.541-10 (10/15).</p>	<p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
MED/5.3 NAVTEX receiver	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—ETSI EN 300 065-1 V1.2.1 (2009-01),</p> <p>—ETSI EN 301 843-4 V1.2.1 (2004-06),</p> <p>Or,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61097-6 (2012-01).</p>	B+D B+E B+F		21.3.2019 (II)
	Carriage and performance requirements				



	<p>—SOLAS 74 Reg. IV/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p> <p>—IMO Res.MSC.148(77),</p> <p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.540-2 (06/90),</p> <p>—ITU-R M.625-4 (03/12).</p>				
MED/5.3	Type approval requirements		B+D	16.3.2017	1.9.2020



NAVTEX receiver	<p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—ETSI EN 300 065-1 V1.2.1 (2009-01),</p> <p>—ETSI EN 301 843-4 V2.1.1 (2016-03).</p> <p>Or,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61097-6 (2012-01).</p>	B+E B+F		(III)
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p>				



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p> <p>—IMO Res.MSC.148(77),</p> <p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.540-2 (06/90),</p> <p>—ITU-R M.625-4 (03/12).</p>				
MED/5.3 NAVTEX receiver	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011))+A1(2016),</p> <p>—ETSI EN 300 065-1 V1.2.1 (2016-06),</p>	B+D B+E B+F	19.6.2018	29.8.2021 (III)



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p> <p>—IMO Res.MSC.148(77),</p> <p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.540-2 (06/90),</p> <p>—ITU-R M.625-4 (03/12).</p>	<p>—ETSI EN 301 843-4 V2.1.1 (2016-03).</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016),</p> <p>—IEC 61097-6 (2012-01).</p>			
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MED/5.3 NAVTEX receiver	Type approval requirements	<ul style="list-style-type: none"> —EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018, —ETSI EN 300 065-1 V1.2.1 (2016-06), —ETSI EN 301 843-2 V2.2.1 (2017-11), — IEC 62923-1:2018, — IEC 62923-2:2018. 	B+D B+E B+F	13.9.2019	
	Carriage and performance requirements	<ul style="list-style-type: none"> —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, —IEC 61162 series: <ul style="list-style-type: none"> — IEC 61162-1:2016 —IEC 61162-2 ed1.0: 1998-09 —IEC 61162-3 ed1.2 Consol. with A1 Ed. 			
	<ul style="list-style-type: none"> —SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 14, —IMO Res.MSC.97(73)-(2000 HSC Code) 14. 				
	<ul style="list-style-type: none"> —SOLAS 74 Reg. IV/7, —SOLAS 74 Reg. X/3, —IMO Res.A.694(17), —IMO Res.MSC.36(63)- 				



	<p>(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p> <p>—IMO Res.MSC.148(77),</p> <p>—IMO Res. MSC.302(87),</p> <p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.540-2 (06/90),</p> <p>—ITU-R M.625-4 (03/12).</p>	<p>1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>—IEC 61097-6 (2012-01),</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
<p>MED/5.4 EGC receiver</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—ETSI ETS 300 460 ed.1 (1996-05),</p> <p>—ETSI ETS 300 460/A1 (1997-11),</p> <p>—ETSI EN 300 829 V1.1.1 (1998-03),</p>	<p>B+D B+E B+F</p>		<p>21.3.2019 (III)</p>



	<p>—IMO Res.MSC.97(73)- (2000 HSC Code) 14.</p>	<p>—ETSI EN 301 843-1 V1.3.1 (2012-08), Or, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), — IEC 61097-4 (2012).</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/7, —SOLAS 74 Reg. X/3, —IMO Res.A.570(14), —IMO Res.A.694(17), —IMO Res.MSC.36(63)- (1994 HSC Code) 14, —IMO Res.MSC.97(73)- (2000 HSC Code) 14. —IMO Res.MSC.306(87),</p>				



	—IMO COMSAR Circ.32.				
MED/5.4 EGC receiver	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—ETSI ETS 300 460 ed.1 (1996-05),</p> <p>—ETSI ETS 300 460/A1 (1997-11),</p> <p>—ETSI EN 301 843-1 V2.1.1 (2016-03).</p> <p>Or,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— IEC 61097-4 (2012).</p>	B+D B+E B+F	16.3.2017	1.9.2020 (III)
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/7,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.A.570(14),</p>				



	<p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p> <p>—IMO Res.MSC.306(87),</p> <p>—IMO COMSAR Circ.32.</p>				
MED/5.4 EGC receiver	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011))+A1(2016),</p>	B+D B+E B+F	19.6.2018	29.8.2021 (II)



	(2000 HSC Code) 14.	—ETSI ETS 300 460 ed.1 (1996-05),		
	Carriage and performance requirements	—ETSI ETS 300 460/A1 (1997-11),		
	—SOLAS 74 Reg. IV/7,	—ETSI EN 301 843-1 V2.1.1 (2016-03).		
	—SOLAS 74 Reg. X/3,	Or:		
	—IMO Res.A.570(14),	—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),		
	—IMO Res.A.694(17),	— IEC 61097-4 (2016),		
	—IMO Res.MSC.36(63)- (1994 HSC Code) 14,	—IEC 61162 series: — IEC 61162-1 (2016)		
	—IMO Res.MSC.97(73)- (2000 HSC Code) 14.	—IEC 61162-2 ed1.0 (1998-09)		
	—IMO Res.MSC.306(87),	—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)		
	—IMO COMSAR Circ.32.	—IEC 61162-450 ed1.0 (2011-06) with am1(2016).		



MED/5.4 EGC receiver	Type approval requirements	<ul style="list-style-type: none"> —EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018, —ETSI ETS 300 460 ed.1 (1996-05), —ETSI ETS 300 460/A1 (1997-11), —ETSI EN 301 843-2 V2.2.1 (2017-11), — IEC 62923-1:2018, — IEC 62923-2:2018. 	B+D B+E B+F	13.9.2019	
	Carriage and performance requirements	<ul style="list-style-type: none"> —SOLAS 74 Reg. IV/7, —SOLAS 74 Reg. X/3, —IMO Res.A.570(14), —IMO Res.A.694(17), 			



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14,</p> <p>—IMO Res. MSC.302(87),</p> <p>—IMO Res.MSC.306(87),</p> <p>—IMO COMSAR Circ.32.</p>	<p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
<p>MED/5.5</p> <p>HF marine safety information (MSI) equipment (HF NBDP receiver)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p> <p>— EN 61162-2 (1998)</p> <p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p> <p>—ETSI ETS 300 067 ed.1 (1990-11),</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		<p>1.9.2020 (II)</p>



	(2000 HSC Code) 14.	—ETSI ETS 300 067/A1 ed.1 (1993-10),		
	Carriage and performance requirements	Or,		
	—SOLAS 74 Reg. IV/7,	—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),		
	—SOLAS 74 Reg. X/3,	—IEC 61162 series:		
	—IMO Res.A.694(17),	—IEC 61162-1 ed4.0 (2010-11)		
	—IMO Res.A.699(17),	—IEC 61162-2 ed1.0 (1998-09)		
	—IMO Res.A.700(17),	—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)		
	—IMO Res.A.806(19),	—IEC 61162-450 ed1.0 (2011-06),		
	—IMO Res.MSC.36(63)- (1994 HSC Code) 14,	—ETSI ETS 300 067 ed.1 (1990-11),		
	—IMO Res.MSC.97(73)- (2000 HSC Code) 14.	—ETSI ETS 300 067/A1 ed.1 (1993-10).		



	<ul style="list-style-type: none"> —IMO MSC.1/Circ.1460, —IMO COMSAR Circ.32, —ITU-R M.492-6 (10/95), —ITU-R M.540-2 (06/90), —ITU-R M.625-4 (03/12), —ITU-R M.688 (06/90). 				
<p>MED/5.5 HF marine safety information (MSI) equipment (HF NBDP receiver)</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)- (1994 HSC Code) 14, —IMO Res.MSC.97(73)- 	<ul style="list-style-type: none"> —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1 (2016) — EN 61162-2 (1998) —EN 61162-3 (2008) +A1(2010)+A2(2014) —EN 61162-450 (2011))+A1(2016), 	<p>B+D B+E B+F</p>	<p>19.6.2018</p>	<p>29.8.2021 (III)</p>



	(2000 HSC Code) 14.	—ETSI ETS 300 067 ed.1 (1990-11),		
	Carriage and performance requirements	—ETSI ETS 300 067/A1 ed.1 (1993-10),		
	—SOLAS 74 Reg. IV/7,	Or: —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),		
	—SOLAS 74 Reg. X/3,	—IEC 61162 series:		
	—IMO Res.A.694(17),	—IEC 61162-1 (2016)		
	—IMO Res.A.699(17),	—IEC 61162-2 ed1.0 (1998-09)		
	—IMO Res.A.700(17),	—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)		
	—IMO Res.A.806(19),	—IEC 61162-450 ed1.0 (2011-06) with am1(2016),		
	—IMO Res.MSC.36(63)- (1994 HSC Code) 14,	—ETSI ETS 300 067 ed.1 (1990-11),		
	—IMO Res.MSC.97(73)- (2000 HSC Code) 14.	—ETSI ETS 300 067/A1 ed.1 (1993-10).		



	<ul style="list-style-type: none"> —IMO MSC.1/Circ.1460, —IMO COMSAR Circ.32, —ITU-R M.492-6 (10/95), —ITU-R M.540-2 (06/90), —ITU-R M.625-4 (03/12), —ITU-R M.688 (06/90). 				
<p>MED/5.5 HF marine safety information (MSI) equipment (HF NBDP receiver)</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)- (1994 HSC Code) 14, —IMO Res.MSC.97(73)- 	<ul style="list-style-type: none"> —EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018, —ETSI ETS 300 067 ed.1 (1990-11), 	<p>B+D B+E B+F</p>	<p>13.9.2019</p>	



	(2000 HSC Code) 14.	—ETSI ETS 300 067/A1 ed.1 (1993-10),		
	Carriage and performance requirements	— IEC 62923-1:2018, — IEC 62923-2:2018.		
	—SOLAS 74 Reg. IV/7,	Or: —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,		
	—SOLAS 74 Reg. X/3,	—IEC 61162 series:		
	—IMO Res.A.694(17),	— IEC 61162-1:2016		
	—IMO Res.A.699(17),	—IEC 61162-2 ed1.0: 1998-09		
	—IMO Res.A.700(17),	—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07		
	—IMO Res.A.806(19),	—IEC 61162-450:2018,		
	—IMO Res.MSC.36(63)- (1994 HSC Code)	—ETSI ETS 300 067 ed.1 (1990-11),		
	14,	—ETSI ETS 300 067/A1 ed.1 (1993-10),		
	—IMO Res.MSC.97(73)- (2000 HSC Code)	— IEC 62923-1:2018,		
	14,	— IEC 62923-2:2018.		



	<ul style="list-style-type: none"> —IMO Res. MSC.302(87), —IMO MSC.1/Circ.1460, —IMO COMSAR Circ.32, —ITU-R M.492-6 (10/95), —ITU-R M.540-2 (06/90), —ITU-R M.625-4 (03/12), —ITU-R M.688 (06/90). 				
<p>MED/5.6 406 MHz EPIRB (COSPAS-SARSAT)</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 14, 	<ul style="list-style-type: none"> —IMO MSC/Circ.862, <p>Note: IMO MSC/Circ.862 is applicable only to the optional remote activation device, not to the EPIRB itself.</p> <ul style="list-style-type: none"> —EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, 	<p>B+D B+E B+F</p>		



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—ETSI EN 300 066 V1.3.1 (2001-01). Or:</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/7,</p> <p>—IMO Res.A.662(16),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.696(17),</p> <p>—IMO Res.A.810(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14,</p>	<p>—IMO MSC/Circ.862,</p> <p>Note: IMO MSC/Circ.862 is applicable only to the optional remote activation device, not to the EPIRB itself.</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—IEC 61097-2 ed3.0: 2008.</p>			



	<ul style="list-style-type: none"> —IMO MSC/Circ.862, —IMO COMSAR Circ.32, —ITU-R M.633-4 (12/10), —ITU-R M.690-3 (03/15). 				
Item MED/5.7 'Lband EPIRB (INMARSAT)', - deliberately left blank.					
Item MED/5.8 'MF DSC Reciver', - deliberately left blank.					
Item MED/5.9 'Two-tone alarm generator', - deliberately left blank.					
<p>MED/5.10</p> <p>MF radio capable of transmitting and receiving DSC and radiotelephony</p> <p>Note: In line with IMO and ITU decisions, the requirements for Two Tone Alarm generator and transmission on H3E are no longer applicable in the testing standards</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 14, 	<ul style="list-style-type: none"> — IMO MSC/Circ.862, —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), — EN 61162 series, —ETSI EN 300 338-1 V1.3.1 (2010-02), —ETSI EN 300 338-2 V1.3.1 (2010-02), 	<p>B+D</p> <p>B+E</p> <p>B+F</p>		<p>21.3.2019</p> <p>(III)</p>



	<p>—IMO Res.MSC.97(73)- (2000 HSC Code) 14.</p>	<p>—ETSI EN 300 373-1 V1.4.1 (2013-09), —ETSI EN 301 843-5 V1.1.1(2004-06).</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/9, —SOLAS 74 Reg. IV/10, —IMO Res.A.694(17), —IMO Res.A.804(19), —IMO Res.MSC.36(63)- (1994 HSC Code) 14, —IMO Res.MSC.97(73)- (2000 HSC Code) 14. —IMO MSC.1/Circ.1460,</p>				



	<p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.493-13 (10/09),</p> <p>—ITU-R M.541-9 (05/04).</p>				
<p>MED/5.10</p> <p>MF radio capable of transmitting and receiving DSC and radiotelephony</p> <p>Note: In line with IMO and ITU decisions, the requirements for Two Tone Alarm generator and transmission on H3E are no longer applicable in the testing standards</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>— IMO MSC/Circ.862,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p> <p>— EN 61162-2 (1998)</p> <p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p> <p>—ETSI EN 300 338-1 V1.3.1 (2010-02),</p> <p>—ETSI EN 300 338-2 V1.3.1 (2010-02),</p> <p>—ETSI EN 300 373-1 V1.4.1 (2013-09),</p> <p>—ETSI EN 301 843-5 V2.1.1 (2016-03).</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	16.3.2017	1.9.2020 (II)
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/9,</p>				



	<p>—SOLAS 74 Reg. IV/10,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.804(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p> <p>—IMO MSC.1/Circ.1460,</p> <p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.493-14 (09/15),</p> <p>—ITU-R M.541-10 (10/15),</p> <p>—ITU-R M.1173-1 (03/12).</p>				
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<p>MED/5.10</p> <p>MF radio capable of transmitting and receiving DSC and radiotelephony</p> <p>Note: In line with IMO and ITU decisions, the requirements for Two Tone Alarm generator and transmission on H3E are no longer applicable in the testing standards</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>— IMO MSC/Circ.862,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011))+A1(2016),</p> <p>—ETSI EN 300 338-1 V1.4.1 (2017-02),</p> <p>—ETSI EN 300 338-2 V1.4.1 (2017-02),</p> <p>—ETSI EN 300 373-1 V1.4.1 (2013-09),</p> <p>—ETSI EN 301 843-5 V2.1.1 (2016-03).</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>19.6.2018</p>	<p>29.8.2021 (III)</p>
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/9,</p> <p>—SOLAS 74 Reg. IV/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.A.694(17),</p>				



	<p>—IMO Res.A.804(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p> <p>—IMO MSC.1/Circ.1460,</p> <p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.493-14 (09/15),</p> <p>—ITU-R M.541-10 (10/15),</p> <p>—ITU-R M.1173-1 (03/12).</p>				
<p>MED/5.10</p> <p>MF radio capable of transmitting and receiving DSC and radiotelephony</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p>	<p>— IMO MSC/Circ.862,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>13.9.2019</p>	



<p>Note: In line with IMO and ITU decisions, the requirements for Two Tone Alarm generator and transmission on H3E are no longer applicable in the testing standards</p>	<p>—SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 14, —IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—EN 61162 series: — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018, —ETSI EN 300 338-1 V1.4.2 (2017-11), —ETSI EN 300 338-2 V1.4.1 (2017-02), —ETSI EN 300 373-1 V1.4.1 (2013-09), —ETSI EN 301 843-2 V2.2.1 (2017-11), — IEC 62923-1:2018, — IEC 62923-2:2018. Or: —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, — IEC 61097-3: 2017, — IEC 61097-9: 1997, —IEC 61162 series: — IEC 61162-1:2016</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/9, —SOLAS 74 Reg. IV/10, —SOLAS 74 Reg. X/3, —IMO Res.A.694(17), —IMO Res.A.804(19), —IMO Res.MSC.36(63)-</p>				



	<p>(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14,</p> <p>—IMO Res. MSC.302(87),</p> <p>—IMO MSC.1/Circ.1460,</p> <p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.493-14 (09/15),</p> <p>—ITU-R M.541-10 (10/15),</p> <p>—ITU-R M.1173-1 (03/12).</p>	<p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
<p>MED/5.11</p> <p>MF DSC watch-keeping receiver</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— EN 61162 series,</p> <p>—ETSI EN 300 338-1 V1.3.1 (2010-02),</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		<p>21.3.2019</p> <p>(III)</p>



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—ETSI EN 300 338-2 V1.3.1 (2010-02),</p> <p>—ETSI EN 301 033 V1.4.1 (2013-09),</p> <p>—ETSI EN 301 843-5 V1.1.1(2004-06).</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/9,</p> <p>—SOLAS 74 Reg. IV/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.804(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p>				



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p> <p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.493-13 (10/09),</p> <p>—ITU-R M.541-9 (05/04),</p> <p>—ITU-R M.1173-1 (03/12).</p>				
<p>MED/5.11 MF DSC watch-keeping receiver</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p> <p>— EN 61162-2 (1998)</p> <p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p> <p>—ETSI EN 300 338-1 V1.3.1 (2010-02),</p> <p>—ETSI EN 300 338-2 V1.3.1 (2010-02),</p>	<p>B+D B+E B+F</p>	<p>16.3.2017</p>	<p>1.9.2020 (III)</p>



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/9,</p> <p>—SOLAS 74 Reg. IV/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.804(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p> <p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.493-14 (09/15),</p>	<p>—ETSI EN 301 033 V1.4.1 (2013-09),</p> <p>—ETSI EN 301 843-5 V2.1.1 (2016-03).</p>			
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	<ul style="list-style-type: none"> —ITU-R M.541-10 (10/15), —ITU-R M.1173-1 (03/12). 				
MED/5.11 MF DSC watch-keeping receiver	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 14, —IMO Res.MSC.97(73)-(2000 HSC Code) 14. <p>Carriage and performance requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. IV/9, —SOLAS 74 Reg. IV/10, 	<ul style="list-style-type: none"> —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1 2016, — EN 61162-2 (1998), —EN 61162-3 (2008) +A1(2010)+A2(2014), —EN 61162-450 (2011))+A1(2016), —ETSI EN 300 338-1 V1.4.1 (2017-02), —ETSI EN 300 338-2 V1.4.1 (2017-02), —ETSI EN 301 033 V1.4.1 (2013-09), —ETSI EN 301 843-5 V2.1.1 (2016-03). 	B+D B+E B+F	19.6.2018	29.8.2021 (III)



	<p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.804(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p> <p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.493-14 (09/15),</p> <p>—ITU-R M.541-10 (10/15),</p> <p>—ITU-R M.1173-1 (03/12).</p>				
MED/5.11	Type approval requirements		B+D	13.9.2019	



MF DSC watch-keeping receiver	<p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>—ETSI EN 300 338-1 V1.4.2 (2017-11),</p> <p>—ETSI EN 300 338-2 V1.4.1 (2017-02),</p> <p>—ETSI EN 301 033 V1.4.1 (2013-09),</p> <p>—ETSI EN 301 843-5 V2.2.1 (2017-11),</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>	B+E B+F		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/9,</p> <p>—SOLAS 74 Reg. IV/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.804(19),</p>	<p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>— IEC 61097-3: 2017,</p> <p>— IEC 61097-8: 1998,</p>			



	<ul style="list-style-type: none"> —IMO Res.MSC.36(63)-(1994 HSC Code) 14, —IMO Res.MSC.97(73)-(2000 HSC Code) 14, —IMO Res. MSC.302(87), —IMO COMSAR Circ.32, —ITU-R M.493-14 (09/15), —ITU-R M.541-10 (10/15), —ITU-R M.1173-1 (03/12). 	<ul style="list-style-type: none"> —IEC 61162 series: <ul style="list-style-type: none"> — IEC 61162-1:2016 —IEC 61162-2 ed1.0: 1998-09 —IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07 —IEC 61162-450:2018, — IEC 62923-1:2018, — IEC 62923-2:2018. 			
MED/5.12 Inmarsat-B SES this item has been deleted as Inmarsat-B SES Service has been discontinued on 31 December 2016.					
MED/5.13 Inmarsat-C SES	Type approval requirements —SOLAS 74 Reg. IV/14,	— IMO MSC/Circ.862, —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),	B+D B+E B+F		21.3.2019 (II)



	<p>—SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 14, —IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>— EN 61162 series, —ETSI ETS 300 460 ed.1 (1996-05), —ETSI ETS 300 460/A1 (1997-11), —ETSI EN 300 829 V1.1.1 (1998-03), —ETSI EN 301 843-1 V1.3.1 (2012-08).</p>			
	<p>Carriage and performance requirements —SOLAS 74 Reg. IV/10, —SOLAS 74 Reg. X/3, —IMO Res.A.570(14), —IMO Res.A.664(16), Note for Res. A.644(16): applicable only if the Inmarsat C</p>	<p>Or, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), — IEC 61097-4 (2012), — IEC 61162 Series.</p>			



	<p>SES supports EGC functions</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.807(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p> <p>—IMO Res.MSC.306(87),</p> <p>—IMO MSC/Circ.862,</p> <p>—IMO COMSAR Circ.32.</p>				
<p>MED/5.13 Inmarsat-C SES</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p>	<p>— IMO MSC/Circ.862,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series: — EN 61162-1 (2011)</p>	<p>B+D B+E B+F</p>	<p>16.3.2017</p>	<p>1.9.2020 (III)</p>



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>— EN 61162-2 (1998)</p> <p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p> <p>—ETSI ETS 300 460 ed.1 (1996-05),</p> <p>—ETSI ETS 300 460/A1 (1997-11),</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.A.570(14),</p> <p>—IMO Res.A.664(16),</p> <p>Note for Res. A.664(16): applicable only if the Inmarsat C SES supports EGC functions</p>	<p>—ETSI EN 301 843-1 V2.1.1 (2016-03).</p> <p>Or,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— IEC 61097-4 (2012),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 ed4.0 (2010-11)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06).</p>			



	<ul style="list-style-type: none"> —IMO Res.A.694(17), —IMO Res.A.807(19), —IMO Res.MSC.36(63)- (1994 HSC Code) 14, —IMO Res.MSC.97(73)- (2000 HSC Code) 14. —IMO Res.MSC.306(87), —IMO MSC/Circ.862, —IMO COMSAR Circ.32. 				
MED/5.13 Inmarsat-C SES	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3, 	<ul style="list-style-type: none"> — IMO MSC/Circ.862, —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1 (2016) 	B+D B+E B+F	19.6.2018	29.8.2021 (III)



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011))+A1(2016),</p> <p>—ETSI ETS 300 460 ed.1 (1996-05),</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.A.570(14),</p> <p>—IMO Res.A.664(16),</p> <p>Note for Res. A.664(16): applicable only if the Inmarsat C SES supports EGC functions</p>	<p>—ETSI ETS 300 460/A1 (1997-11),</p> <p>—ETSI EN 301 843-1 V2.1.1 (2016-03).</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— IEC 61097-4 (2012),</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p>			



	<ul style="list-style-type: none"> —IMO Res.A.694(17), —IMO Res.A.807(19), —IMO Res.MSC.36(63)- (1994 HSC Code) 14, —IMO Res.MSC.97(73)- (2000 HSC Code) 14. —IMO Res.MSC.306(87), —IMO MSC/Circ.862, —IMO COMSAR Circ.32. 	<ul style="list-style-type: none"> —IEC 61162-450 ed1.0 (2011-06) with am1(2016). 			
MED/5.13 Inmarsat-C SES	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3, 	<ul style="list-style-type: none"> — IMO MSC/Circ.862, —EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1: 2016 	B+D B+E B+F	13.9.2019	



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>—ETSI ETS 300 460 ed.1 (1996-05),</p> <p>—ETSI ETS 300 460/A1 (1997-11),</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.A.570(14),</p> <p>—IMO Res.A.664(16),</p> <p>Note for Res. A.664(16): applicable only if the Inmarsat C SES supports EGC functions</p>	<p>—ETSI EN 301 843-1 V2.2.1 (2017-11),</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>— IEC 61097-4: 2012,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p> <p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p>			



	<p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.807(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14,</p> <p>—IMO Res. MSC.302(87),</p> <p>—IMO Res.MSC.306(87),</p> <p>—IMO MSC/Circ.862,</p> <p>—IMO COMSAR Circ.32.</p>	<p>—IEC 61162-450:2018,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
<p>MED/5.14</p> <p>MF/HF radio capable of transmitting and receiving DSC, NBDP and radiotelephony</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p>	<p>— IMO MSC/Circ.862,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		<p>21.3.2019</p> <p>(III)</p>



<p>Note: In line with IMO and ITU decisions, the requirements for Two Tone Alarm generator and transmission on A3H are no longer applicable in testing standards.</p>	<ul style="list-style-type: none"> —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 14, —IMO Res.MSC.97(73)-(2000 HSC Code) 14. 	<ul style="list-style-type: none"> — EN 61162 series, —ETSI ETS 300 067 ed.1 (1990-11), —ETSI ETS 300 067/A1 ed.1 (1993-10), —ETSI EN 300 338-1 V1.3.1 (2010-02), —ETSI EN 300 338-2 V1.3.1 (2010-02), —ETSI EN 300 373-1 V1.4.1 (2013-09), —ETSI EN 301 843-5 V1.1.1(2004-06). 			
	<p>Carriage and performance requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. IV/10, —SOLAS 74 Reg. X/3, —IMO Res.A.694(17), —IMO Res.A.806(19), —IMO Res.MSC.36(63)-(1994 HSC Code) 14, 				



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p> <p>—IMO MSC/Circ.862,</p> <p>—IMO MSC.1/Circ.1460,</p> <p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.476-5 (10/95),</p> <p>—ITU-R M.492-6 (10/95),</p> <p>—ITU-R M.493-13 (10/09),</p> <p>—ITU-R M.541-9 (05/04),</p> <p>—ITU-R M.625-4 (03/12),</p> <p>—ITU-R M.1173-1 (03/12).</p>				
MED/5.14	Type approval requirements	— IMO MSC/Circ.862,	B+D	16.3.2017	1.9.2020



<p>MF/HF radio capable of transmitting and receiving DSC, NBDP and radiotelephony</p> <p>Note: In line with IMO and ITU decisions, the requirements for Two Tone Alarm generator and transmission on A3H are no longer applicable in testing standards.</p>	<p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2011)</p> <p>— EN 61162-2 (1998)</p> <p>— EN 61162-3 (2008)</p> <p>—EN 61162-450 (2011),</p> <p>—ETSI ETS 300 067 ed.1 (1990-11),</p> <p>—ETSI ETS 300 067/A1 ed.1 (1993-10),</p> <p>—ETSI EN 300 338-1 V1.3.1 (2010-02),</p> <p>—ETSI EN 300 338-2 V1.3.1 (2010-02),</p> <p>—ETSI EN 300 373-1 V1.4.1 (2013-09),</p> <p>—ETSI EN 301 843-5 V2.1.1 (2016-03).</p>	<p>B+E</p> <p>B+F</p>		<p>(III)</p>
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.806(19),</p> <p>—IMO Res.MSC.36(63)-</p>				



	<p>(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) 14.</p> <p>—IMO MSC/Circ.862,</p> <p>—IMO MSC.1/Circ.1460,</p> <p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.476-5 (10/95),</p> <p>—ITU-R M.492-6 (10/95),</p> <p>—ITU-R M.493-14 (09/15),</p> <p>—ITU-R M.541-10 (10/15)</p> <p>—ITU-R M.625-4 (03/12),</p> <p>—ITU-R M.1173-1 (03/12).</p>				
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<p>MED/5.14 MF/HF radio capable of transmitting and receiving DSC, NBDP and radiotelephony Note: In line with IMO and ITU decisions, the requirements for Two Tone Alarm generator and transmission on A3H are no longer applicable in testing standards.</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 14, —IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>— IMO MSC/Circ.862, —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: — EN 61162-1 (2016) — EN 61162-2 (1998) —EN 61162-3 (2008) +A1(2010)+A2(2014) —EN 61162-450 (2011))+A1(2016), —ETSI ETS 300 067 ed.1 (1990-11), —ETSI ETS 300 067/A1 ed.1 (1993-10), —ETSI EN 300 338-1 V1.4.1 (2017-02), —ETSI EN 300 338-2 V1.4.1 (2017-02), —ETSI EN 300 373-1 V1.4.1 (2013-09), —ETSI EN 301 843-5 V2.1.1 (2016-03).</p>	<p>B+D B+E B+F</p>	<p>19.6.2018</p>	<p>29.8.2021 (III)</p>
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/10, —SOLAS 74 Reg. X/3, —IMO Res.A.694(17), —IMO Res.A.806(19),</p>				



	<p>—IMO Res.MSC.36(63)- (1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) 14,</p> <p>—IMO MSC/Circ.862,</p> <p>—IMO MSC.1/Circ.1460,</p> <p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.476-5 (10/95),</p> <p>—ITU-R M.492-6 (10/95),</p> <p>—ITU-R M.493-14 (09/15),</p> <p>—ITU-R M.541-10 (10/15)</p> <p>—ITU-R M.625-4 (03/12),</p> <p>—ITU-R M.1173-1 (03/12).</p>				
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<p>MED/5.14 MF/HF radio capable of transmitting and receiving DSC, NBDP and radiotelephony Note: In line with IMO and ITU decisions, the requirements for Two Tone Alarm generator and transmission on A3H are no longer applicable in testing standards. (NEW ROW)</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 14, —IMO Res.MSC.97(73)-(2000 HSC Code) 14. 	<ul style="list-style-type: none"> — IMO MSC/Circ.862, —EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018, —ETSI ETS 300 067 ed.1 (1990-11), —ETSI ETS 300 067/A1 ed.1 (1993-10), —ETSI EN 300 338-1 V1.4.2 (2017-11), —ETSI EN 300 338-2 V1.4.1 (2017-02), —ETSI EN 300 373-1 V1.4.1 (2013-09), —ETSI EN 301 843-5 V2.2.1 (2017-11), — IEC 62923-1:2018, — IEC 62923-2:2018. <p>Or:</p>	<p>B+D B+E B+F</p>	<p>13.9.2019</p>	
	<p>Carriage and performance requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. IV/10, —SOLAS 74 Reg. X/3, —IMO Res.A.694(17), —IMO Res.A.806(19), 				



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14,</p> <p>—IMO Res. MSC.302(87),</p> <p>—IMO MSC/Circ.862,</p> <p>—IMO MSC.1/Circ.1460,</p> <p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.476-5 (10/95),</p> <p>—ITU-R M.492-6 (10/95),</p> <p>—ITU-R M.493-14 (09/15),</p> <p>—ITU-R M.541-10 (10/15)</p> <p>—ITU-R M.625-4 (03/12),</p>	<p>— IMO MSC/Circ.862,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>— IEC 61097-3: 2017,</p> <p>— IEC 61097-9: 1997,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p> <p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
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	—ITU-R M.1173-1 (03/12).				
MED/5.15 MF/HF DSC scanning watch keeping receiver	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 14, —IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/10, —SOLAS 74 Reg. X/3, —IMO Res.A.694(17),</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), — EN 61162 series, —ETSI EN 300 338-1 V1.3.1 (2010-02), —ETSI EN 300 338-2 V1.3.1 (2010-02), —ETSI EN 301 033 V1.4.1 (2013-09), —ETSI EN 301 843-5 V1.1.1(2004-06), Or, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), — IEC 61097-3 (1994), — IEC 61097-8 (1998), — IEC 61162 Series.</p>	B+D B+E B+F		21.3.2019 (III)



	<ul style="list-style-type: none"> —IMO Res.A.806(19), —IMO Res.MSC.36(63)-(1994 HSC Code) 14, —IMO Res.MSC.97(73)-(2000 HSC Code) 14. —IMO COMSAR Circ.32, —ITU-R M.493-13 (10/09), —ITU-R M.541-9 (05/04) 				
MED/5.15 MF/HF DSC scanning watch keeping receiver	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 14, 	<ul style="list-style-type: none"> —EN 60945:2002 incl. IEC 60945 Corr. 1 (2008), —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1 (2011) — EN 61162-2 (1998) — EN 61162-3 (2008) — EN 61162-450 (2011), 	B+D B+E B+F	16.3.2017	1.9.2020 (III)



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—ETSI EN 300 338-1 V1.3.1 (2010-02), —ETSI EN 300 338-2 V1.3.1 (2010-02),</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/10, —SOLAS 74 Reg. X/3, —IMO Res.A.694(17), —IMO Res.A.806(19), —IMO Res.MSC.36(63)-(1994 HSC Code) 14, —IMO Res.MSC.97(73)-(2000 HSC Code) 14. —IMO COMSAR Circ.32,</p>	<p>—ETSI EN 301 033 V1.4.1 (2013-09), —ETSI EN 301 843-5 V2.1.1 (2016-03). Or, —IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), — IEC 61097-3 (1994), — IEC 61097-8 (1998), —IEC 61162 series: —IEC 61162-1 ed4.0 (2010-11) —IEC 61162-2 ed1.0 (1998-09) —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) —IEC 61162-450 ed1.0 (2011-06).</p>			



	<p>—ITU-R M.493-14 (09/15),</p> <p>—ITU-R M.541-10 (10/15),</p> <p>—ITU-R M.1173-1 (03/12).</p>				
<p>MED/5.15</p> <p>MF/HF DSC scanning watch keeping receiver</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011))+A1(2016),</p> <p>—ETSI EN 300 338-1 V1.4.1 (2017-02),</p> <p>—ETSI EN 300 338-2 V1.4.1 (2017-02),</p> <p>—ETSI EN 301 033 V1.4.1 (2013-09),</p> <p>—ETSI EN 301 843-5 V2.1.1 (2016-03).</p> <p>Or:</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>19.6.2018</p>	<p>29.8.2021 (III)</p>
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/10,</p>				



	<p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.806(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p> <p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.493-14 (09/15),</p> <p>—ITU-R M.541-10 (10/15),</p> <p>—ITU-R M.1173-1 (03/12).</p>	<p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>— IEC 61097-3 (1994),</p> <p>— IEC 61097-8 (1998),</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p> <p>—IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07)</p> <p>—IEC 61162-450 ed1.0 (2011-06) with am1(2016).</p>			
MED/5.15	Type approval requirements		B+D	13.9.2019	



MF/HF DSC scanning watch keeping receiver	<p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—EN 61162 series:</p> <p>— EN 61162-1: 2016</p> <p>— EN 61162-2: 1998</p> <p>—EN 61162-3: 2008 +A1: 2010+A2:2014</p> <p>—IEC 61162-450:2018,</p> <p>—ETSI EN 300 338-1 V1.4.2 (2017-11),</p> <p>—ETSI EN 300 338-2 V1.4.1 (2017-02),</p> <p>—ETSI EN 301 033 V1.4.1 (2013-09),</p> <p>—ETSI EN 301 843-5 V2.2.1 (2017-11),</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p> <p>Or:</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>— IEC 61097-3: 2017,</p> <p>— IEC 61097-8: 1998,</p>	B+E B+F		
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/10,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.806(19),</p> <p>—IMO Res.MSC.36(63)-</p>				



	<p>(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14,</p> <p>—IMO Res. MSC.302(87),</p> <p>—IMO COMSAR Circ.32,</p> <p>—ITU-R M.493-14 (09/15),</p> <p>—ITU-R M.541-10 (10/15),</p> <p>—ITU-R M.1173-1 (03/12).</p>	<p>— IEC 61097-9: 1997,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p> <p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p>			
Item MED/5.16 'Aeronautical two way VHF radio telephone apparatus',- no longer listed in the implementing regulation of Directive 2014/90/EU.					
<p>MED/5.17</p> <p>Portable survival craft two-way VHF radiotelephone apparatus</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—ETSI EN 300 225 V1.4.1 (2004-12),</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		<p>7.12.2018</p> <p>(III)</p>



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—ETSI EN 301 843-2 V1.2.1 (2004-06),</p> <p>Or,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61097-12 (1996).</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/6,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.809(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p>				



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p> <p>—IMO Res.MSC.149(77),</p> <p>—ITU-R M.489-2 (10/95).</p>				
<p>MED/5.17</p> <p>Portable survival craft two-way VHF radiotelephone apparatus</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—ETSI EN 300 225 V1.5.1 (2015-12),</p> <p>—ETSI EN 301 843-2 V2.1.0 (2015-12).</p> <p>Or,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61097-12 (1996).</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>	<p>16.3.2017</p>	<p>1.3.2019</p> <p>(III)</p>



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/6,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.809(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p> <p>—IMO Res.MSC.149(77),</p>				
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	—ITU-R M.489-2 (10/95).				
MED/5.17 Portable survival craft two-way VHF radiotelephone apparatus	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—ETSI EN 300 225 V1.5.1 (2015-12),</p> <p>—ETSI EN 301 843-2 V2.1.1 (2016-03).</p> <p>Or,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61097-12 (1996) + Amend 1:2017.</p>	B+D B+E B+F	19.6.2018	1.11.2020 (III)
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/6,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.809(19),</p>				



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14,</p> <p>—IMO Res.MSC.149(77),</p> <p>—ITU-R M.489-2 (10/95).</p>				
<p>MED/5.17 Portable survival craft two-way VHF radiotelephone apparatus (NEW ROW)</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—ETSI EN 300 225 V1.5.1 (2015-12),</p>	<p>B+D B+E B+F</p>	<p>13.9.2019</p>	



	<p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—ETSI EN 301 843-2 V2.2.1 (2017-11).</p> <p>Or,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—IEC 61097-12: 1996 + Am1:2017.</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/6,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.809(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p>				



	<p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14,</p> <p>—IMO Res.MSC.149(77),</p> <p>—ITU-R M.489-2 (10/95).</p>				
<p>MED/5.18</p> <p>Fixed survival craft two-way VHF radiotelephone apparatus</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—ETSI EN 301 466 V1.1.1 (2000-10),</p> <p>Or,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>— IEC 61097-12: 1996.</p>	<p>B+D</p> <p>B+E</p> <p>B+F</p>		<p>7.12.2018</p> <p>(III)</p>



	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. III/6,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.809(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p> <p>—ITU-R M.489-2 (10/95).</p>				
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MED/5.18 Fixed survival craft two-way VHF radiotelephone apparatus	Type approval requirements	—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —ETSI EN 301 466 V1.2.1 (2015-12). Or, —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, —IEC 61097-12: 1996 + Am1:2017..	B+D B+E B+F	19.6.2018	
	—SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)- (1994 HSC Code) 14, —IMO Res.MSC.97(73)- (2000 HSC Code) 14.	Carriage and performance requirements	—SOLAS 74 Reg. III/6, —IMO Res.A.694(17), —IMO Res.A.809(19), —IMO Res.MSC.36(63)-		



	<p>(1994 HSC Code) 8,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 8,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p> <p>—ITU-R M.489-2 (10/95).</p>				
<p>MED/5.19 Inmarsat-F77</p>	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p>	<p>— IMO MSC/Circ.862,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61097-13 (2003).</p> <p>Or,</p> <p>— IMO MSC/Circ.862,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p>	<p>B+D B+E B+F</p>		<p>31.8.2019 (I)</p>



	<p>—IMO Res.MSC.97(73)- (2000 HSC Code) 14.</p>	<p>—IEC 61097-13 (2003).</p>			
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/10,</p> <p>—IMO Res.A.570(14),</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.A.808(19),</p> <p>—IMO Res.MSC.36(63)- (1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)- (2000 HSC Code) 14.</p> <p>—IMO MSC/Circ.862,</p>				



	—IMO COMSAR Circ.32.				
MED/5.19 Inmarsat-F77	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. IV/14,</p> <p>—SOLAS 74 Reg. X/3,</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<p>— IMO MSC/Circ.862,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61097-13 (2003),</p> <p>—EN 61162 series:</p> <p>— EN 61162-1 (2016)</p> <p>— EN 61162-2 (1998)</p> <p>—EN 61162-3 (2008) +A1(2010)+A2(2014)</p> <p>—EN 61162-450 (2011))+A1(2016),</p> <p>Or:</p> <p>— IMO MSC/Circ.862,</p> <p>—IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008),</p> <p>—IEC 61097-13 (2003),</p> <p>—IEC 61162 series:</p> <p>—IEC 61162-1 (2016)</p> <p>—IEC 61162-2 ed1.0 (1998-09)</p>	B+D B+E B+F	19.6.2018	29.8.2021 (I)
	<p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. IV/10,</p> <p>—IMO Res.A.570(14),</p> <p>—IMO Res.A.694(17),</p>				



	<ul style="list-style-type: none"> —IMO Res.A.808(19), —IMO Res.MSC.36(63)-(1994 HSC Code) 14, —IMO Res.MSC.97(73)-(2000 HSC Code) 14. —IMO MSC/Circ.862, —IMO COMSAR Circ.32. 	<ul style="list-style-type: none"> —IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) —IEC 61162-450 ed1.0 (2011-06) with am1(2016). 			
MED/5.19 Inmarsat-F77	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3, —IMO Res.MSC.36(63)-(1994 HSC Code) 14, —IMO Res.MSC.97(73)- 	<ul style="list-style-type: none"> — IMO MSC/Circ.862, —EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, — IEC 61097-13: 2003, —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018, 	B+D B+E B+F	13.9.2019	



	(2000 HSC Code) 14.	— IEC 62923-1:2018, — IEC 62923-2:2018.			
	Carriage and performance requirements —SOLAS 74 Reg. IV/10, —IMO Res.A.570(14), —IMO Res.A.694(17), —IMO Res.A.808(19), —IMO Res.MSC.36(63)- (1994 HSC Code) 14, —IMO Res.MSC.97(73)- (2000 HSC Code) 14, —IMO Res. MSC.302(87), —IMO MSC/Circ.862,	Or: — IMO MSC/Circ.862, —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, — IEC 61097-13: 2003, —IEC 61162 series: — IEC 61162-1:2016 —IEC 61162-2 ed1.0: 1998-09 —IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07 —IEC 61162-450:2018, — IEC 62923-1:2018, — IEC 62923-2:2018.			



	—IMO COMSAR Circ.32.				
MED/5.20 Fire-fighter's two-way radiotelephone apparatus New item inserted by Implementing Regulation 2019/1397	Type approval requirements —SOLAS 74/2014 Reg. II-2/10.10.4.	—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —ETSI EN 301 843-1 V2.2.1 (2017-11), —ETSI EN 301 843-2 V2.2. 1 (2017-11), —ATEX Directive 2014/34/EU, —a)UHF portable radios: —ETSI EN 300 720 V2.1.1 (2017-01), —b)VHF portable radios: —ETSI EN 301 178-1 v.2.2.2 (2017-04), Or —IEC 60945:2002 incl. IEC 60945 Corr. 1: 2008, —ETSI EN 301 843-1 V2.2.1 (2017-11), —ETSI EN 301 843-2 V2.2. 1 (2017-11),	B+D B+E B+F		
	Carriage and performance requirements —SOLAS 74/2014 Reg. II-2/10.10.4, —IMO Res.A.694(17), —ITU-R M.489-2 (10/95), —ITU-R M.1174-3 (03/15).				



		<ul style="list-style-type: none"> —ATEX Directive 2014/34/EU, —a)UHF portable radios: —ETSI EN 300 720 V2.1.1 (2017-01), —b)VHF portable radios: —ETSI EN 301 178-1 v.2.2.2 (2017-04). 			
MED/5.21 Integrated communication system (ICS) New item inserted by Implementing Regulation 2019/1397	Type approval requirements —SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3.	<ul style="list-style-type: none"> — IMO MSC/Circ.862, —EN 60945:2002 incl. IEC 60945 Corr. 1: 2008, —EN 61162 series: <ul style="list-style-type: none"> — EN 61162-1: 2016 — EN 61162-2: 1998 —EN 61162-3: 2008 +A1: 2010+A2:2014 —IEC 61162-450:2018, — EN 62940:2017, —EN 61924-2:2013 incl. IEC 61924-2:Corr. 1:2013, — EN 62288:2014, — IEC 62923-1:2018, 	B+D B+E B+F		
	Carriage and performance requirements —SOLAS 74 Reg. IV/14, —SOLAS 74 Reg. X/3, —IMO Res.A694(17),				



	<p>—IMO Res. A.811(19),</p> <p>—IMO Res.MSC.36(63)-(1994 HSC Code) 14,</p> <p>—IMO Res.MSC.97(73)-(2000 HSC Code) 14,</p> <p>—IMO Res.MSC.191(79),</p> <p>—IMO Res.MSC.302(87),</p> <p>—IMO MSC.1/Circ.1389,</p> <p>—IMO COMSAR Circ.32,</p> <p>—For GMDSS functions and units included in the ICS, the performance requirements for those functions and units apply.</p>	<p>— IEC 62923-2:2018.</p> <p>Or:</p> <p>— IMO MSC/Circ.862,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008,</p> <p>—IEC 61162 series:</p> <p>— IEC 61162-1:2016</p> <p>—IEC 61162-2 ed1.0: 1998-09</p> <p>—IEC 61162-3 ed1.2 Consol. with A1 Ed. 1.0: 2010-11 and A2 Ed. 1.0: 2014-07</p> <p>—IEC 61162-450:2018,</p> <p>— EN 62940:2017,</p> <p>—IEC 61924-2:2012 incl. IEC 61924-2 Corr. 1:2013,</p> <p>— IEC 62288:2014,</p> <p>— IEC 62923-1:2018,</p> <p>— IEC 62923-2:2018.</p> <p>—For GMDSS functions and units included in the ICS, the test</p>			
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		requirements for those functions and units apply.			
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6. Equipment required under COLREG 72

Number and item designation	Regulation SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment	First placing on the market	Last placing on board
1	2	3	4	5	6
MED/6.1 Navigation lights	<p>Type approval requirements</p> <p>—COLREG 72 Annex I/14.</p> <hr/> <p>Carriage and performance requirements</p> <p>—COLREG 72 Annex I/14,</p> <p>—IMO Res.A.694(17),</p> <p>—IMO Res.MSC.253(83).</p>	<p>—EN 14744:2005 incl. AC:2006,</p> <p>—EN 60945:2002 incl. IEC 60945 Corr. 1: 2008.</p> <p>Or:</p> <p>—EN 14744:2005 incl. AC:2006,</p> <p>—IEC 60945:2002 incl. IEC</p>	B+D B+E B+F G		



		60945 Corr. 1: 2008.			
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7. Other safety equipment

Number and item designation	Regulation SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment	First placing on the market	Last placing on board
1	2	3	4	5	6
MED/7.1 Self-contained compressed-air-operated breathing apparatus for entry and work in gas-filled space (New item inserted by Implementing Regulation (EU) 2018/773, refer to item 3.7)	Type approval requirements —SOLAS 74 Reg.II-2/10, —IMO Res.MSC.98(73)-(FSS Code) 3. Carriage and performance requirements —SOLAS 74 Reg. II-2/10,	—ISO 23269-3:2011. Note: Associated fireproof lifeline (UK 3.44):The lifeline shall be used in conjunction with the breathing apparatus and capable of being	B+D B+E B+F G	19.6.2018	



	<p>—SOLAS 74 Reg. II-2/15,</p> <p>—IMO Res.MSC.98(73)-(FSS Code) 3,</p> <p>—IMO Res.MSC.4(48)-(IBC Code) 14,</p> <p>—IMO Res.MSC.5(48)-(IGC Code) 14,</p> <p>—IMO MSC.1/Circ.1499.</p>	<p>attached by means of a snap-hook to the harness of the apparatus or to a separate belt in order to prevent the breathing apparatus becoming detached when the lifeline is operated. Air breathing apparatus module B shall indicate the MED fireproof lifeline as mandatory combined component.</p>			
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8. Equipment under SOLAS Chapter II-1

Number and item designation	Regulation SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment	First placing on the market	Last placing on board
1	2	3	4	5	6
MED/8.1 — Water level detectors	<p>Type approval requirements</p> <p>—SOLAS 74 Reg. II-1/22-1, —SOLAS 74 Reg. II-1/25, —SOLAS 74 Reg. XII/12.</p> <p>Carriage and performance requirements</p> <p>—SOLAS 74 Reg. II-1/25, —SOLAS 74 Reg. XII/12.</p>	<p>—IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011, —IEC 60529 Ed. 2.2 (2013), —IMO Res.MSC.188(79), —IMO MSC.1/Circ.1291.</p>	B+D B+E B+F		22.11.2019 (III)



	<ul style="list-style-type: none"> —IMO Res.A.1021(26), —IMO Res.MSC.188(79), —IMO MSC.1/Circ.1464 Rev.1. 				
MED/8.1 — Water level detectors	Type approval requirements <ul style="list-style-type: none"> —SOLAS 74 Reg. II-1/22-1, —SOLAS 74 Reg. II-1/25, —SOLAS 74 Reg. XII/12. 	<ul style="list-style-type: none"> —IEC-60092-504:2016, —IEC 60529 Ed. 2.2 (2013), —IMO Res.MSC.188(79), —IMO MSC.1/Circ.1291. 	B+D B+E B+F	16.3.2017	13.9.2022
	Carriage and performance requirements <ul style="list-style-type: none"> —SOLAS 74 Reg. II-1/25, —SOLAS 74 Reg. XII/12. —IMO Res.A.1021(26), 				



	<ul style="list-style-type: none"> —IMO Res.MSC.188(79), —IMO MSC.1/Circ.1464 Rev.1. 				
<p>MED/8.1</p> <ul style="list-style-type: none"> — Water level detectors 	<p>Type approval requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. II-1/22-1, —SOLAS 74 Reg. II-1/25, —SOLAS 74 Reg. XII/12. 	<ul style="list-style-type: none"> —IEC-60092-504:2016, —IEC 60529 Ed. 2.2: 2013 incl. Corr1:2013 and Corr2: 2015, —IMO Res.MSC.188(79), —IMO MSC.1/Circ.1291. 	<p>B+D B+E B+F</p>	13.9.2019	
	<p>Carriage and performance requirements</p> <ul style="list-style-type: none"> —SOLAS 74 Reg. II-1/25, —SOLAS 74 Reg. XII/12. —IMO Res.A.1021(26), —IMO Res.MSC.188(79), 				



	—IMO MSC.1/Circ.1572.				
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9. Equipment for which the set of standards for MED certification is not complete

Note applicable to section 9:

A set of standards for UK certification is deemed to be complete where

IMO Provisions for:

- Type approval,
- Carriage Requirements; and,
- Testing Standards,

are available and appropriate.

1. Life-saving appliances

No	Item designation
MED/9/1.1	Radar reflector for liferafts
MED/9/1.2	Immersion suit materials
MED/9/1.3	Float-free launching appliances for survival craft
MED/9/1.5	Public address and general emergency alarm system (when used as a fire alarm device item UK/3.53 in Annex I shall apply)

2. Marine pollution prevention

No	Item designation
MED/9/2.3	Equipment using other equivalent methods to reduce onboard NO _x emissions
MED/9/2.4	Equipment using other technological methods to limit SO _x emissions
MED/9/2.5	Onboard NO _x analysers using a measurement method other than the Direct Measurement and Monitoring Method of the NO _x Technical Code 2008



3. Fire protection equipment

No	Item designation
MED/9/3.8	Electric safety lamp
MED/9/3.9	Protective clothing resistant to chemical attack
MED/9/3.13	Compressed airline breathing apparatus (High Speed Craft)
MED/9/3.21	Paint lockers and flammable liquid lockers fire extinguishing systems components
MED/9/3.24	Portable Foam Applicator Units
MED/9/3.26	Gaseous Fuel Systems used for domestic purposes (components)
MED/9/3.27	Fixed Gas Fire Extinguishing Systems (CO ₂) (components)
MED/9/3.31	Water Spraying Hand Operated System
MED/9/3.33	Fire hoses with diameter >52mm

4. Navigation equipment

No	Item designation
MED/9/4.11	Combined GPS/GLONASS equipment
MED/9/4.20	Track control system – for high speed craft
MED/9/4.33	Track control system (working at ship's speed from 30 knots and above)
MED/9/4.37	Electronic Inclinometer

5. Radiocommunication equipment

No	Item designation
MED/9/5.8	Aeronautical two-way VHF radio telephone apparatus

6. Equipment required under COLREG 72

No	Item designation
MED/9/6.2	Sound signal appliances
MED/9/6.4	Two-way voice and data communication with a Telemedical Assistance Service (TMAS)
MED/9/6.5	Sound signalling system mounted to face astern to indicate escort and emergency manoeuvres



7. Other safety equipment

No	Item designation
MED/9/7.1	Loading instrument
MED/9/7.2	Water level detectors on bulk carriers

8. SOLAS Chapter II-1 equipment

No	Item designation
MED/9/8.1	Cold weather starting of generator sets (starting devices)



Annex 2

This Annex sets out equipment within the scope of part II of this Notice and would previously have been specified in Merchant Shipping Notice 1735 (M+F). This equipment is that requiring approval by a ship's Flag Administration but which is not within the scope of the UK's conformity assessment for marine equipment. The table below sets out the relevant Regulations of the applicable IMO Convention and performance standards and as applicable testing standards. Such equipment is to be type approved by a Nominated Body. Similarly, to Annex 1, equipment is grouped into categories (Life-Saving Appliances, Pollution Prevention, Fire Protection, Navigation, Radio communication and equipment required by COLREG).

This Annex also specifies other equipment which requires approval which is approved by a Nominated Body.

Note applicable to this entire Annex: Where no testing standard is stated in column 4 of the relevant table for equipment in question, the testing standard is to be agreed between the relevant Nominated Body and the MCA ahead of the type approval regime being agreed with the applicant for type approval.

1. Life-saving appliances

Column 4: IMO MSC/ Circular 980 should apply except when superseded by the specific instruments referred to in Column 3.

Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards
1	2	3	4
Radar reflector for liferafts	-Reg. III/4, -Reg. III/34, -Reg. X/3.	-IMO Res. MSC.48(66)- (LSA Code).	Standards in Merchant Shipping Notice M.1485
Float-free launching appliances for survival craft	-Reg. III/4, -Reg. III/34.	Reg. III/13, -Reg. III/16, -Reg. III/26, -Reg. III/34, -IMO Res. MSC.36(63)- (1994 HSC Code) 8, -IMO Res. MSC.48(66)- (LSA Code) I, IV, VI, -IMO Res. MSC.97(73)- (2000 HSC Code) 8.	
"Public address & general emergency alarm system (when used as fire alarm device item MED/3.53 in Annex 1 shall apply)	-Reg. III/6.	-IMO Res. A.1021(26), -IMO Res. MSC.36(63)- (1994 HSC Code), -IMO Res. MSC.48(66)- (LSA Code), -IMO Res. MSC.97(73)- (2000 HSC Code), -IMO MSC/Circ.808.	



Immersion suit materials	-Reg III/4 - Reg III/34	- IMO Res. MSC.48(66)- (LSA Code).	
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2. Marine pollution prevention

Item designation	Regulation MARPOL 73/78, as amended, where "type approval" is required	Regulations of MARPOL 73/78, as amended, and the relevant resolutions and circulars of the IMO, applicable	Testing standards
1	3	4	5
Equipment using other equivalent methods to reduce on board NOx emissions	-Annex VI, Reg. 4.	-Annex VI, Reg. 4	
Equipment using other technological methods to limit SOx emissions	- IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4), -IMO Res. MEPC.184(59).	- IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4).	
On board NOx analysers using a measurement method other than the Direct Measurement and Monitoring Method of the NOx Technical Code 2008	-IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4)	-IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4)	



3. Fire protection equipment

Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards
1	2	3	4
Electric safety lamp	-Reg. II-2/10, -Reg. X/3, -IMO Res. MSC.98(73)-(FSS Code) 3.	-Reg. II-2/10, -IMO Res. MSC.36(63)-(1994 HSC Code) 7, -IMO Res. MSC.97(73)-(2000 HSC Code) 7, -IMO Res. MSC.98(73)-(FSS Code), 3.	-IEC 60079 series.
Protective clothing resistant to chemical attack	-Reg. II-2/19.	-Reg. II-2/19, -IMO Res. MSC.36(63)-(1994 HSC Code) 7, -IMO Res. MSC.97(73)-(2000 HSC Code) 7.	-EN 943-1 (2002) including AC (2005), -EN 943-2 (2002), -EN ISO 6529 (2001), -EN ISO 6530 (2005), -EN 14605 (2005) including A1(2009), -IMO MSC/Circ.1120.
Paint lockers and flammable liquid lockers fire extinguishing systems components	-Reg. II-2/10.	-Reg. II-2/10, -IMO MSC.1/Circ.1239.	
Portable Foam Applicator Units	-Reg. II-2/10, -Reg. II-2/20, -Reg. X/3.	-Reg. II-2/10, -Reg. II-2/20, -IMO Res. MSC.36(63)-(1994 HSC Code) 7, -IMO Res. MSC.97(73)-(2000 HSC Code) 7, -IMO Res. MSC.98(73)-(FSS Code) 4, -IMO MSC.1/Circ.1239, -IMO MSC.1/Circ.1313.	



Gaseous Fuel Systems Used for Domestic Purposes (components)	-Reg. II-2/4.	-Reg. II-2/4, -IMO MSC.1/Circ.1276.	
Fixed Gas Fire Extinguishing Systems (CO2) components.	-Reg. II-2/10, -Reg. X/3.	-Reg. II-2/10, -Reg. II-2/20, -IMO Res. MSC.36(63)-(1994 HSC Code) 7, -IMO Res. MSC.97(73)-(2000 HSC Code) 7, -IMO Res. MSC.98(73)-(FSS Code) 5, -IMO MSC.1/Circ.1313, -IMO MSC.1/Circ.1318.	Electrical automatic control and delay devices: -EN 12094-1 (2003). Non-electrical automatic control and delay devices: -EN 12094-2 (2003). Manual triggering and stop devices: -EN 12094-3 (2003). Container valve assemblies and their actuators: -EN 12094-4 (2004). High and low pressure selector valves and their actuators: -EN 12094-5 (2006). Non-electrical disable devices : -EN 12094-6 (2006). Nozzles for CO2 systems: -EN 12094-7 (2000) including A1 (2005). Connectors: -EN 12094-8 (2006). Pressure gauges and pressure switches: -EN 12094-10 (2003). Mechanical weighing devices: -EN 12094-11 (2003). Check valves and non-return valves: -EN 12094-13 (2001) including AC (2002). Odorizing devices for CO2 low pressure systems: -EN 12094-16 (2003).
Water Spraying Hand Operated System	-Reg. II-2/10, -Reg. II-2/19.	-Reg. II-2/10, -Reg. II-2/19.	



Fire hoses with diameter > 52 mm	-Reg. II-2/10, -Reg. X/3.	-Reg. II-2/10, -IMO Res. MSC.36(63)-(1994 HSC Code) 7, -IMO Res. MSC.97(73)-(2000 HSC Code) 7.	BS 6391:2009
Compressed airline breathing apparatus (High Speed Craft)	- Reg X/3	- IMO Res MSC36(63) (1994) HSC Code - IMO Res MSC.97(73)(2000 HSC Code)	



4. Navigation equipment

Notes applicable to section 4: Navigation equipment

Columns 3 and 4: References to SOLAS Chapter V are to SOLAS 1974 as amended by MSC 73 and entering into force on 1 July 2002.

Column 5:

IEC 61162 series refer to the following reference standards for Maritime navigation and radiocommunication equipment and systems - Digital interfaces:

[IEC 61162-1 ed4.0 \(2010-11\)](#) - Part 1: Single talker and multiple listeners

[IEC 61162-2 ed1.0 \(1998-09\)](#) - Part 2: Single talker and multiple listeners, high-speed transmission

[IEC 61162-3 ed1.1 Consol. with am1 \(2010-11\)](#) - Part 3: Serial data instrument network

[IEC 61162-3 ed1.0 \(2008-05\)](#) - Part 3: Serial data instrument network

[IEC 61162-3-am1 ed1.0 \(2010-06\)](#) Amendment 1 - Part 3: Serial data instrument network

[IEC 61162-450 ed1.0 \(2011-06\)](#) - Part 450: Multiple talkers and multiple listeners - Ethernet interconnection

EN 61162 series refer to the following reference standards for Maritime navigation and radiocommunication equipment and systems - Digital interfaces:

[EN 61162-1 \(2011\)](#) - Part 1: Single talker and multiple listeners

[EN 61162-2 \(1998\)](#) - Part 2: Single talker and multiple listeners, high-speed transmission

[EN 61162-3 \(2008\)](#) - Part 3: Serial data instrument network

[EN 61162-3-am1 \(2010\)](#) Amendment 1 - Part 3: Serial data instrument network

[EN 61162-450 \(2011\)](#) - Part 450: Multiple talkers and multiple listeners - Ethernet interconnection



Item designation	Regulation SOLAS 74, as amended, where “type approval” is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards
1	2	3	4
Combined GPS/GLONASS equipment	-Reg. V/18, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).	-Reg. V/19, -IMO Res. A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code), -IMO Res. MSC.115(73), -IMO Res. MSC.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61108-1 (2003), -EN 61108-2 (1998), -EN 61162 series, -EN 62288 (2008). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61108-1 (2003), -IEC 61108-2 (1998), -IEC 61162 series, -IEC 62288 Ed.1.0(2008).
Magnetic compass for high speed craft	-Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).	-IMO Res. A.382(X), -IMO Res. A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).	-ISO 1069 (1973), -ISO 25862(2009), -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, -ISO 1069 (1973), -ISO 25862(2009), -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).
“Track control system (working at ship’s speed from 30 knots and above”	-Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).	-IMO Res. A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code), -IMO Res. MSC.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 62288 (2008). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 62288 Ed. 1.0 (2008).



Thrust indicator	-Reg. V/18, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).	-Reg. V/19, -IMO Res. A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code), -IMO Res. MSC.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 62288 (2008). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 62288 Ed. 1.0 (2008).
Lateral thrust, pitch and mode indicators	-Reg. V/18, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).	-Reg. V/19, -IMO Res. A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code), -IMO Res. MSC.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 62288 (2008). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 62288 Ed. 1.0 (2008).
Bridge equipment system	-Reg. V/18, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 13, -IMO Res. MSC.97(73)-(2000 HSC Code) 13.	-Reg. V/19, -IMO Res. A.694 (17), -IMO Res. MSC.36(63)-(1994 HSC Code) 15, -IMO Res. MSC.97(73)-(2000 HSC Code) 15, -IMO Res. MSC.191(79), -IMO SN.1/Circ.288.	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 Series, -EN 62288 (2008). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 Series, -IEC 62288 Ed. 1.0 (2008).
Equipment with Long Range Identification and Tracking (LRIT) capability	-Reg. V/19-1.	-Reg. V/19-1, -IMO Res. A.694(17), -IMO Res. A.813(19), -IMO Res. MSC.202(81), -IMO Res. MSC.211(81), -IMO Res. MSC.263(84), -IMO MSC.1/Circ.1307.	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 Series. Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 Series.



Electronic Inclinometer	Reg. V/18-7	<ul style="list-style-type: none"> -IMO Res. A.694(17), -IMO Res. MSC.191(79), -IMO Res. MSC.333(90), -IMO MSC.1/Circ.982, -IMO MSC.1/Circ.1228, -IMO Report MSC 91-22-Add.2 Annex 28 	<p>EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008),</p> <p>-EN 61162 Series.</p> <p>Or,</p> <p>-IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008),</p> <p>-IEC 61162 Series.</p>
Loran-C equipment	<ul style="list-style-type: none"> -Reg. V/18, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 13, -IMO Res. MSC.97(73)-(2000 HSC Code) 13. 	<ul style="list-style-type: none"> Reg. V/19, -IMO Res. A.694(17), -IMO Res. A.818(19), -IMO Res. MSC.36(63)-(1994 HSC Code) 13, -IMO Res. MSC.97(73)-(2000 HSC Code) 13, -IMO Res. MSC.191(79) 	<p>-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -IEC 62288 Ed. 2.0 (2014-07).</p> <p>Or,</p> <p>-IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 62288 Ed. 2.0 (2014-07).</p>
Chayka equipment	<ul style="list-style-type: none"> Reg. V/18, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 13, -IMO Res. MSC.97(73)-(2000 HSC Code) 13. 	<ul style="list-style-type: none"> - Reg. IV/7 - Reg. X/3 - IMO Res.A.662(16)- - IMO Res.A.694(17) - IMO Res.A.812(19) - IMO Res.MSC.36(63)-(1994 HSC Code) 14 - IMO Res.MSC.97(73)-(2000 HSC Code) 14 - IMO MSC/Circ.862 - IMO COMSAR Circ.32 - ITU-R M.632-3 (02/97) - ITU-R M.690-1 (10/95) 	<p>ETSI ETS 300 372 ed.1 (1996-05)</p> <p>EN 60945:2002</p> <p>IEC 61097-5 (1997)</p> <p>IMO MSC/Circ.862</p>



5. Radiocommunication equipment

Notes applicable to section 5: Radiocommunication equipment.

Column 5:

IEC 61162 series refer to the following reference standards for Maritime navigation and radiocommunication equipment and systems - Digital interfaces:

[IEC 61162-1 ed4.0 \(2010-11\)](#) - Part 1: Single talker and multiple listeners

[IEC 61162-2 ed1.0 \(1998-09\)](#) - Part 2: Single talker and multiple listeners, high-speed transmission

[IEC 61162-3 ed1.1 Consol. with am1 \(2010-11\)](#) - Part 3: Serial data instrument network

[IEC 61162-3 ed1.0 \(2008-05\)](#) - Part 3: Serial data instrument network

[IEC 61162-3-am1 ed1.0 \(2010-06\)](#) Amendment 1 - Part 3: Serial data instrument network

[IEC 61162-450 ed1.0 \(2011-06\)](#) - Part 450: Multiple talkers and multiple listeners - Ethernet interconnection

EN 61162 series refer to the following reference standards for Maritime navigation and radiocommunication equipment and systems - Digital interfaces:

[EN 61162-1 \(2011\)](#) - Part 1: Single talker and multiple listeners

[EN 61162-2 \(1998\)](#) - Part 2: Single talker and multiple listeners, high-speed transmission

[EN 61162-3 \(2008\)](#) - Part 3: Serial data instrument network

[EN 61162-3-am1 \(2010\)](#) Amendment 1 - Part 3: Serial data instrument network

[EN 61162-450 \(2011\)](#) - Part 450: Multiple talkers and multiple listeners - Ethernet interconnection



Item designation	Regulation SOLAS 74, as amended, where “type approval” is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards
2	3	4	5
VHF EPIRB	-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).	-Reg.IV/8, -IMO Res. A.662(16), -IMO Res. A.694(17), -IMO Res. A.805(19), -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code), -ITU-R M.489-2 (10/95), -ITU-R M.693 (06/90).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).
Radio reserve source of energy	-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).	-Reg. IV/13, -IMO Res. A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code), -IMO COMSAR Circ.16, -IMO COMSAR Circ.32.	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).
Distress panel	-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).	-Reg. IV/6, -IMO Res. A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code), -IMO MSC/Circ. 862, -IMO COMSAR Circ.32.	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).



<p>Distress alarm or alert panel</p>	<p>-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).</p>	<p>-Reg. IV/6, -IMO Res.A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code), -IMO MSC/Circ.862, -IMO COMSAR Circ.32.</p>	<p>-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).</p>
<p>Ship security alert system</p>		<p>-Reg. XI-2/6, -IMO Res. A.694(17), -IMO Res. MSC.147(77), -IMO MSC/Circ.1072.</p>	<p>-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 Series. Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 Series.</p>
<p>Aeronautical two way VHF radio telephone apparatus</p>	<p>-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 14, -IMO Res. MSC.97(73)-(2000 HSC Code) 14.</p>	<p>-Reg. IV/7, -IMO Res. A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code) 14, -IMO Res. MSC.97(73)-(2000 HSC Code) 14, -IMO Res. MSC.80(70), -IMO COMSAR Circ.32, -ICAO Convention, Annex 10, Radio - Regulations.</p>	<p>-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). -ETSI EN 301 688 V1.1.1 (2000-07). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008). -ETSI EN 301 688 V1.1.1 (2000-07).</p>



6. Equipment required under COLREG 72

Item designation	Regulation COLREG 72 where “type approval” is required	Regulations of COLREG and the relevant resolutions and circulars of the IMO, as applicable	Testing standards
1	2	3	4
Sound signal appliances	-COLREG 72 Annex III/3.	- COLREG 72 Annex III/3, -IMO Res. A.694(17).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -Whistles - COLREG 72 Annex III/1 (Performance), -Bells or Gongs - COLREG 72 Annex III/2 (Performance). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -Whistles - COLREG 72 Annex III/1 (Performance), -Bells or Gongs - COLREG 72 Annex III/2 (Performance).



7. Bulk carrier safety equipment

Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards
1	2	3	4
Loading instrument	-Reg. XII/11, -1997 SOLAS Conference Res. 5.	-Reg. XII/11, -1997 SOLAS Conference Res. 5.	-IMO MSC.1/Circ 1229.
Water level detectors on bulk carriers	- IMO Res.MSC.188(79)	-SOLAS 74/2004 Reg. XII/12 - IMO Res.MSC.188(79)	IEC 60092-504 (2001) IEC 60529 (2001) IMO Res.MSC.188(79)



8. SOLAS Chapter II-1 equipment

Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards
2	3	4	5
Cold-weather starting of generator sets (starting devices)	-Reg. II-1/44, -Reg. X/3.	-Reg. II-1/44, -IMO Res. MSC.36(63)-(1994 HSC Code) 12, -IMO Res. MSC.97(73)-(2000 HSC Code) 12.	

9. Other Equipment requiring type approval

Other ~ Life-saving appliances

Item designation
Lifeboat equipment (oars, knives, matches, torches, electrical equipment, etc)
LSA gas inflation system
LSA miscellaneous equipment (emergency life-line etc.)
Lifeboat manual pumps
Emergency equipment lockers
Sea anchors
Survival craft first aid kits
Survival craft rations and water
Non-SOLAS liferafts, rescue boats and inflatable boats
Float free arrangements for Search and Rescue Transponder (SART)
Equipment Requiring Approval in accordance with SI 1999 No. 2721 - The Merchant Shipping (Life-Saving Appliances for Ships other than Ships of Classes III to VI(A)) Regulations, but not specified in Annex 1 of this notice.
Equipment Requiring Approval in accordance with SI 1999 No. 2723 - The Merchant Shipping (Life-Saving Appliances for Passenger Ships of Classes III to VI(A)) Regulations, but not specified in Annex 1 of this notice.

Other ~ Marine Pollution prevention equipment

Item designation
Crude oil washing machines

Other ~ Fire Protection Equipment

Item designation
Hydrants (components)
Fire blankets
Equipment Requiring Approval in accordance with SI 1998 No.1011 – The Merchant Shipping (Fire Protection: Small Ships) Regulations, but not specified in Annex 1 of this notice.



Equipment Requiring Approval in accordance with SI 1998 No.1012 – The Merchant Shipping (Fire Protection: Large Ships) Regulations, but not specified in Annex 1 of this notice.

Equipment Requiring Approval in accordance with SI 2003 No.2950 – The Merchant Shipping (Fire Protection) Regulations, but not specified in Annex 1 of this notice.

Other ~ Crew accommodation equipment

Item designation
Vacuum discharge piping systems
Thermostatic mixing valves
Plant used to produce drinking and/or fresh water



Annex 3

This annex sets out equipment within the scope of part III of this Notice. This is equipment which does not require approval. This is equipment to which an explicit standard is not cited in UK instruments forming a carriage requirement.

The table below sets out minimum standards for acceptance on board the relevant UK ship listed in column 2. Column 1 states the item designation and column 3 states the minimum standard. When a minimum standard is not indicated, MCA will develop minimum standards through a separate MGN to be included in updates to this Notice. A ship carrying equipment which exceeds these minimum standards will be taken as meeting these standards.

Item Designation	Applicable Ships	Standard
Firefighter's Radios	UK Class I – II(A), VII – VIII(A), as required by SOLAS Regulation II-2 paragraph 10.4	<p>The two-way portable radiotelephone apparatus shall be of an explosion-proof type or intrinsically safe.</p> <p>In order for such equipment to meet the explosion proof or intrinsically safe requirements, the radio telephone apparatus are to be certified in accordance with relevant standards for equipment and protective systems intended for use in potentially explosive atmospheres, and maintained as such, for example:-</p> <p>Directive 94/9/EC (ATEX) - with approval rating such as II2G Ex ib IIA T3; or</p> <p>IEC 60079-0 2009 - Electrical apparatus for explosive gas atmospheres - Classification of areas; or</p> <p>IEC 60092-502 1999 - Electrical installations in ships - Tankers – Special features.</p> <p>Intrinsically safe radios should have a power output of 1 watt or less.</p> <p>The radio telephone apparatus are to be fit for purpose, i.e. they are able to work within the environment to be expected in a fire scenario, that their operating range is sufficient and that they are safe.</p>



Draught Gauge Indicators	UK Class I – II(A) – as required by SI 1998 No. 2514, Regulation 41.	
Lifebuoys-lightweight type (horseshoe)	Small Commercial Vessels ¹	
Means of Recovery	Passenger Ships certificated to MSN 1823 (Cat A-D)	
ORIL	Ships Certificated in accordance with MGN 469	
Radar Reflector	Ships Certificated in accordance with MGN 469	
Flares	Ships Certificated in accordance with MGN 469	
HRUs	Small Commercial Vessels ¹	
TPAs	Small Commercial Vessels ¹	
Hand held orange smoke flare	Small Commercial Vessels ¹	
Line Thrower	Small Commercial Vessels ¹	
VHF	Small Commercial Vessels ¹	
EPIRB	Small Commercial Vessels ¹	
SART	Small Commercial Vessels ¹	
Lifebouy	Inland small Pax code	
Radar Reflector	Fishing 15-24	
Fire Detection	Inland small Pax Code	
Fixed Fire Extinguishing	Inland small Pax Code	
Fixed Fire Extinguishing	Fishing less 15	
EPIRB	Small Commercial Vessels ¹	
VHF DSC	Small Commercial Vessels ¹	



Magnetic Compass	Inland small pax	
Search Light	Large Yacht	
Echo Sounder	Small Commercial Vessels ¹	
GPS	Small Commercial Vessels ¹	
Vessel's Log	Small Commercial Vessels ¹	
Signalling Lamp	Small Commercial Vessels ¹	
SART	Small Commercial Vessels ¹	
Compass/ Bearing Compass	Small Commercial Vessels ¹	
Echo Sounder	Small Commercial Vessels ¹	
GPS	Small Commercial Vessels ¹	
Signalling Lamp	Small Commercial Vessels ¹	
Search Light	Small Commercial Vessels ¹	

¹ Small Commercial Vessels are deemed to be any vessel which has been issued certification in accordance with the Codes of Practice for Vessels in Commercial use for Sport or Pleasure, Workboats and Pilot Boats or MGN 280.



Annex 4 – Carriage Requirements

The following instruments are those mentioned in the Regulations which form carriage requirements for Domestic Passenger Ships and Fishing Vessels to carry equipment which meets a standard other than the applicable international standards.

Instruments Applicable to Domestic Passenger Ships Certificated to Operate on Category C Waters or Seaward of that Limit:

The following Instruments to be read, as amended.

MSN 1823 (M) - The Safety Code for Passenger Ships Operating Solely in UK Categorised Waters – Which is given Legal Force by The Merchant Shipping (Passenger Ships) (Safety Code for UK Categorised Waters) Regulations 2010, SI 2010 No. 680;

The Small Sea Going Passenger Ship Code (A Code for Ships of Class VI);

The Merchant Shipping (Passenger Ships on Domestic Voyages) Regulations 2000, SI 2000 No. 2687;

The Merchant Shipping (Life-Saving Appliances for Ships other than Ships of Classes III to VI(A)) Regulations, SI 1999 No. 2721;

The Merchant Shipping (Life-Saving Appliances For Passenger Ships Of Classes III To VI(A)) Regulations 1999 SI 1999 No. 2723;

The Merchant Shipping (Fire Protection: Small Ships) Regulations 1998, SI 1998 No. 1011;

The Merchant Shipping (Fire Protection - Large Ships) Regulations, SI 1998 No. 1012;

The Merchant Shipping (Fire Protection) Regulations 2003, SI 2003 No. 2950;

The Merchant Shipping (Prevention of Pollution by Sewage and Garbage from Ships) Regulations 2008, SI 2008 No. 3257;

The Merchant Shipping (Prevention of Air Pollution from Ships) Regulations 2008, SI 2008 No. 2924;

The Merchant Shipping (Prevention of Oil Pollution) Regulations 1996, SI 1996 No. 2154;

The Merchant Shipping (Distress Signals and Prevention of Collisions) Regulations, SI 1996 No. 0075;

The Merchant Shipping (Safety of Navigation) Regulations 2002, SI 2002 No. 1473;

The Merchant Shipping (Radio Installations) Regulations 1998, SI 1998 No. 2070;



Instruments Applicable to Fishing Vessels of 24 metres Length of Over:

The following Instruments to be read, as amended.

The “Code of Practice for the Safe Construction and Operation of Fishing Vessels of 24 metres Registered Length and Over”;

The Fishing Vessels (Safety Provisions) Rules 1975 (S.I. 1975/330);

The Fishing Vessels (Life-Saving Appliances) Regulations 1988 (S.I.1988/38);

The Fishing Vessels (EC Directive on Harmonised Safety Regime) Regulations 1999 (S.I. 1999/2998) (which give effect to the Torremolinos Protocol (Cmnd.3339) relating to the Torremolinos International Convention for the safety of Fishing Vessels (Cmnd. 7252);

The Merchant Shipping (Distress Signals and Prevention of Collisions) Regulations SI 1996, No. 75;

The Merchant Shipping (Prevention of Oil Pollution) Regulations 1996 S.I. 1996 No. 2154;

SI 1999, No. 2205 The Merchant Shipping and Fishing Vessels (Personal Protective Equipment) Regulations SI 1999, No. 2205;

The Merchant Shipping (Radio)(Fishing Vessels) Regulations SI 1999, No.3210;

The Merchant Shipping (Safety of Navigation) Regulations SI 2002, No 1473;

The Merchant Shipping (Prevention of Air Pollution from Ships) Regulations SI 2008 No 2924;
and

The Merchant Shipping (Prevention of Pollution by Sewage and Garbage from Ships) Regulations SI 2008 No.3257.



ANNEX 5 - UK Conformity Mark for Marine Equipment

The UK Conformity Mark must be affixed to marine equipment in accordance with the Regulations and must take the form set out below.

In any event, the UK Conformity mark for marine equipment must:

Be legible and permanently marked on the equipment which is in compliance with the Regulations;

contrast the background it is printed/ stamped etc on such that is either printed on a block white background or transparent background, providing legibility is maintained;

have vertical dimensions of at least 5mm with the ability to waive this for smaller products and/ or where the size of the conformity mark would not provide for legibility due to the size or nature of the product or it is not otherwise practicable to place the mark on the product in which case the mark should be placed on the accompanying paperwork or packaging; and

as per the Regulations, be accompanied by the identification number of the Approved Body which issues the quality assurance module of conformity (Module D, E or F) or if module G is used, the module G certificate as well as the date of affixing the mark as indicated below (where ##### would be the Approved Body Number and YY the year of affixing the conformity mark).



#####/YY
Or
#####/YYYY

ANNEX 6 - Equipment in Scope of the UK-US MRA on Marine Equipment

ANNEX II to the Agreement between the United Kingdom of Great Britain and Northern Ireland and the United States of America on the Mutual Recognition of Certificates of Conformity for Marine Equipment

PRODUCT COVERAGE FOR MUTUAL RECOGNITION

General note:

The international conventions apply in their up-to-date version. For the purpose of identifying correctly the relevant standards, test reports, certificates of conformity and declarations of conformity shall identify the specific testing standard applied and its version.

This table will apply upon the coming into force of The Merchant Shipping (Marine Equipment) (Amendment) (UK and US Mutual Recognition Agreement) (EU Exit) Regulations 2019.

Life-saving appliances

Product item identification	Applicable international instruments for construction, performance and testing requirements ¹	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
Position-indicating lights for life-saving appliances: (a) for survival craft and rescue boats	<ul style="list-style-type: none"> - IMO Res.MSC.36(63)-HSC Code) 8 (1994) - IMO Res.MSC.48(66)-Code) I, IV (LSA) - IMO Res.MSC.81(70), as amended 	UK/1.2a	<ul style="list-style-type: none"> - USCG 161.101 - Guidance for Approval of Position-indicating lights for survival craft dated 11 March 1999

¹ “LSA Code” refers to the International Life-Saving Appliance Code adopted on 4 June 1996 (IMO Resolution MSC.48(66)).

“Recommendation on Testing” refers to the IMO recommendation on Testing of Life-Saving Appliances adopted on 6 November 1991 (IMO Resolution A.689(17)) as amended on 11 December 1998 (IMO Resolution MSC.81(70)).

	- IMO Res.MSC.97(73)- (2000 HSC Code) 8		
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Product item identification	Applicable international instruments for construction, performance and testing requirements ¹	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
Position-indicating lights for life-saving appliances: (b) for lifebuoys	- IMO Res.MSC.36(63)- (1994 HSC Code) 8 - IMO Res.MSC.48(66)- (LSA Code) I, IV - IMO Res.MSC.81(70), as amended - IMO Res.MSC.97(73)- (2000 HSC Code) 8	UK/1.2b	- USCG 161.110
Position-indicating lights for life-saving appliances: (c) for lifejackets	- IMO Res.MSC.36(63)- (1994 HSC Code) 8 - IMO Res.MSC.48(66)- (LSA Code) I, IV - IMO Res.MSC.81(70), as amended - IMO Res.MSC.97(73)- (2000 HSC Code) 8	UK/1.2c	- USCG 161.112 - Lifejacket light approval Guidance (SOLAS) 22 March 1999

<p>Lifebuoy self-activating smoke signals</p> <p>Note: Expiration date not to exceed 48 months after month of manufacture.</p>	<p>- IMO Res. MSC.36(63)-(1994 HSC Code) 8</p> <p>- IMO Res. MSC.48(66)-(LSA Code) I, II</p> <p>- IMO Res. MSC.81(70), as amended</p> <p>- IMO Res. MSC.97(73)- (2000 HSC Code) 8</p>	<p>UK/1.3</p>	<p>- USCG 160.157</p> <p>- Guidelines for Approval of "SOLAS" Pyrotechnic Signals and Line Throwing Appliances, March 2005.</p>
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Product item identification	Applicable international instruments for construction, performance and testing requirements ¹	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
<p>Rocket parachute flares (pyrotechnics)</p> <p>Note: Expiration date not to exceed 48 months after month of manufacture.</p>	<p>- IMO Res. MSC.36(63)-(1994 HSC Code) 8</p> <p>- IMO Res. MSC.48(66)-(LSA Code) I, III</p> <p>- IMO Res. MSC.81(70), as amended</p> <p>- IMO Res. MSC.97(73)- (2000 HSC Code) 8</p>	<p>UK/1.8</p>	<p>- USCG 160.136</p> <p>- Guidelines for Approval of "SOLAS" Pyrotechnic Signals and Line Throwing Appliances, March 2005</p>
<p>Hand flares (pyrotechnics)</p> <p>Note: Expiration date not to exceed 48 months after month of manufacture.</p>	<p>- IMO Res. MSC.36(63)-(1994 HSC Code) 8</p> <p>- IMO Res. MSC.48(66)-(LSA Code) I, III</p> <p>- IMO Res. MSC.81(70), as amended</p> <p>- IMO Res. MSC.97(73)- (2000 HSC Code) 8</p>	<p>UK/1.9</p>	<p>- USCG 160.121</p> <p>- Guidelines for Approval of "SOLAS" Pyrotechnic Signals and Line Throwing Appliances,</p>

			March 2005
Buoyant smoke signals (pyrotechnics) Note: Expiration date not to exceed 48 months after month of manufacture.	- IMO Res. MSC.48(66)-(LSA Code) I, III - IMO Res. MSC.81(70), as amended	UK/1.10	- USCG 160.122 - Guidelines for Approval of "SOLAS" Pyrotechnic Signals and Line Throwing Appliances, March 2005

Product item identification	Applicable international instruments for construction, performance and testing requirements ¹	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
Line- throwing appliances Note: Expiration date not to exceed 48 months after month of manufacture.	- IMO Res. MSC.36(63)-(1994 HSC Code) 8 - IMO Res. MSC.48(66)-(LSA Code) I, VII - IMO Res. MSC.81(70), as amended - IMO Res. MSC.97(73)- (2000 HSC Code) 8	UK/1.11	- 46 CFR 160.040 - Guidelines for Approval of "SOLAS" Pyrotechnic Signals and Line Throwing Appliances, March 2005 - MIL- R- 45505 A2

<p>Rigid liferafts</p> <p>Note: The emergency pack is not covered by this Agreement</p>	<ul style="list-style-type: none"> - IMO Res. MSC.36(63)-(1994 HSC Code) 8 - IMO Res. MSC.48(66)-(LSA Code) I, IV - IMO Res. MSC.81(70), as amended - IMO Res. MSC.97(73)-(2000 HSC Code) 8 - IMO MSC Circ.811 	<p>UK/1.13</p>	<ul style="list-style-type: none"> - USCG 160.118 - Rigid liferaft – Coast Guard (CG-5214) Review Checklist, 27 July 1998
<p>Automatically self-righting liferafts (rigid liferafts only/inflatable liferafts not covered)</p> <p>Note: The emergency pack is not covered by this Agreement</p>	<ul style="list-style-type: none"> - IMO Res. MSC.36(63)-(1994 HSC Code) 8 - IMO Res. MSC.48(66)-(LSA Code) I, IV - IMO Res. MSC.81(70), as amended - IMO Res. MSC.97(73)-(2000 HSC Code) 8 - IMO MSC Circ.809 - IMO MSC Circ.811 - IMO MSC Circ.1006 - IMO MSC.1 Circ.1328 	<p>UK/1.14</p>	<ul style="list-style-type: none"> - USCG 160.118 - Rigid liferaft – Coast Guard (CG-5214) Review Checklist, 27 July 1998

<p>Product item identification</p>	<p>Applicable international instruments for construction, performance and testing requirements¹</p>	<p>UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended</p>	<p>US technical regulations and approval guidance</p>
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<p>Canopied reversible liferafts (rigid liferafts only/inflatable liferafts not covered)</p> <p>Note: The emergency pack is not covered by this Agreement</p>	<ul style="list-style-type: none"> - IMO Res. MSC.36(63)-(1994 HSC Code) 8 - IMO Res. MSC.48(66)-(LSA Code) I, IV - IMO Res. MSC.81(70), as amended - IMO Res. MSC.97(73)-(2000 HSC Code) 8 - IMO MSC Circ.809 - IMO MSC Circ.811 - IMO MSC.1 Circ.1328 	<p>UK/1.15</p>	<ul style="list-style-type: none"> - USCG 160.118 - Rigid liferaft – Coast Guard (CG-5214)Review Checklist, 27 July 1998
<p>Float-free arrangements for liferafts (hydrostatic release units)</p>	<ul style="list-style-type: none"> - IMO Res. MSC.36(63)-(1994 HSC Code) 8 - IMO Res. MSC.48(66)-(LSA Code) I, IV - IMO Res. MSC.81(70), as amended - IMO Res. MSC.97(73)-(2000 HSC Code) 8 - IMO MSC Circ.811 	<p>UK/1.16</p>	<ul style="list-style-type: none"> - USCG 160.162 - Interim Guidelines for Approval and Production Testing of SOLAS Hydrostatic Release Units
<p>Release mechanism for: (a) Lifeboats and rescue boats (launched by a fall or falls)</p> <p>Limited to Davit-launched liferaft automatic release hook</p>	<ul style="list-style-type: none"> - IMO Res. MSC.36(63)-(1994 HSC Code) 8 - IMO Res. MSC.48(66)-(LSA Code) I, IV - IMO Res. MSC.81(70), as amended - IMO Res. MSC.97(73)-(2000 HSC Code) 8 - IMO MSC.1/Circ.1419 	<p>UK/1.26 (a)</p>	<ul style="list-style-type: none"> - 46 CFR 160.170

Product item identification	Applicable international instruments for construction, performance and testing requirements ¹	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
Release mechanism for : (b) Liferafts (launched by a fall or falls) Limited to Davit-launched liferaft automatic release hook	<ul style="list-style-type: none"> - IMO Res. MSC.36(63)-(1994 HSC Code) 8 - IMO Res. MSC.48(66)-(LSA Code) I, VI - IMO Res. MSC.81(70), as amended - IMO Res. MSC.97(73)-(2000 HSC Code) 8 	UK/1.26 (b)	- 46 CFR 160.170
Marine evacuation systems	<ul style="list-style-type: none"> - IMO Res. MSC.36(63)-(1994 HSC Code) 8 - IMO Res. MSC.48(66)-(LSA Code) I, VI - IMO Res. MSC.81(70), as amended - IMO Res. MSC.97(73)-(2000 HSC Code) 8 	UK/1.27	- USCG 160.175
Embarkation Ladders	<ul style="list-style-type: none"> - IMO Res. MSC.36(63)-(1994 HSC Code) - IMO Res. MSC.48(66)-(LSA Code) I, VI - IMO Res. MSC.81(70), as amended - IMO Res. MSC.97(73)-(2000 HSC Code) - IMO MSC.1/Circ.1285 - ISO 5489:2008 	UK/1.29	- USCG 160.117

Product item identification	Applicable international instruments for construction, performance and testing requirements ¹	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
Retro-reflective materials	<ul style="list-style-type: none"> - IMO Res. A.658(16) - IMO Res. MSC.36(63)-(1994 HSC Code) 8 - IMO Res. MSC.48(66)-(LSA Code) I - IMO Res. MSC.97(73)-(2000 HSC Code) 8 	UK/1.30	<ul style="list-style-type: none"> - 46 CFR 164.018 - NVIC 2- 92

FIRE PROTECTION

Product identification item	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
Primary decks covering	- IMO Res. MSC.36(63)- (1994 HSC Code) 7 - IMO Res. MSC.97(73)- (2000 HSC Code) 7 - IMO Res. MSC.307(88) (2010 FTP Code), as amended	UK/3.1	- 46 CFR 164.106
'A' & 'B' Class divisions fire integrity (a) 'A' class divisions,	- IMO Res. MSC.307(88) (2010 FTP Code), as amended - IMO MSC/Circ.1120 - IMO MSC.1/Circ.1434 - IMO MSC.1/Circ.1435	UK/3.11 (a)	- 46 CFR 164.105 - 46 CFR 164.107
'A' & 'B' Class divisions fire integrity (b) 'B' class divisions. Note: Restricted 'B' Class divisions are not covered by this agreement.	- IMO Res. MSC.307(88) (2010 FTP Code), as amended	UK/3.11 (b)	- 46 CFR 164.108 - 46 CFR 164.110

Non-combustible materials	- IMO Res. MSC.36(63)- (1994 HSC Code) 7 - IMO Res. MSC.97(73)- (2000 HSC Code) 7 - IMO Res. MSC.307(88) (2010 FTP Code), as amended	UK/3.13	- 46 CFR 164.109
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Product identification item	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
<p>Fire doors</p> <p>Limited to fire doors without windows or with total window area no more than 645 cm² in each door leaf. Approval limited to maximum door size tested. Doors must be used with a fire tested frame design.</p> <p>Note: Restricted 'B' Class doors are not covered by this agreement.</p>	<p>- IMO Res. MSC.307(88) (2010 FTP Code), as amended</p> <p>- IMO MSC.1/Circ.1319</p> <p>- IMO MSC.1/Circ.1511</p>	UK/3.16	- 46 CFR 164.136

<p>Fire door control systems components.</p> <p>Note: When the term “system components” is used in column 1 it may be that a single component, a group of components or a whole system needs to be tested to ensure that the international requirements are fulfilled.</p>	<p>- IMO Res. MSC.97(73)- (2000 HSC Code) 7</p> <p>- IMO Res. MSC.307(88) (2010 FTP Code), as amended</p>	<p>UK/3.17</p>	<p>- 46 CFR 164.146</p>
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Product item identification	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
<p>Surface materials and floor coverings with low flame- spread characteristics (a) decorative veneers.</p>	<p>- IMO Res. MSC.36(63)- (1994 HSC Code) 7 - IMO Res. MSC.97(73)- (2000 HSC Code) 7</p> <p>- IMO Res. MSC.307(88) (2010 FTP Code), as amended</p> <p>- IMO MSC Circ.1120</p>	<p>UK/3.18 (a)</p>	<p>- 46 CFR 164.112</p>
<p>Surface materials and floor coverings with low flame- spread characteristics (b) paint systems.</p>	<p>- IMO Res. MSC.36(63)- (1994 HSC Code) 7 - IMO Res. MSC.97(73)- (2000 HSC Code) 7</p> <p>- IMO Res. MSC.307(88) (2010 FTP Code), as amended</p>	<p>UK/3.18 (b)</p>	<p>- 46 CFR 164.112</p>

	- IMO MSC Circ.1120		
Surface materials and floor coverings with low flame- spread characteristics (c) floor coverings.	- IMO Res. MSC.36(63)- (1994 HSC Code) 7 - IMO Res. MSC.97(73)- (2000 HSC Code) 7 - IMO Res. MSC.307(88) (2010 FTP Code), as amended - IMO MSC Circ.1120	UK/3.18 (c)	- 46 CFR 164.117
Surface materials and floor coverings with low flame- spread characteristics (f) combustible ducts.	- IMO Res. MSC.36(63)- (1994 HSC Code) 7 - IMO Res. MSC.97(73)- (2000 HSC Code) 7 - IMO Res. MSC.307(88) (2010 FTP Code), as amended - IMO MSC Circ.1120	UK/3.18 (f)	- 46 CFR 164.112

Product item identification	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
Draperies, curtains and other suspended textile materials and films	- IMO Res. MSC.36(63)- (1994 HSC Code) 7 - IMO Res. MSC.97(73)- (2000 HSC Code) 7 - IMO Res. MSC.307(88) (2010 FTP Code), as amended - IMO MSC.1 Circ.1456, as amended	UK/3.19	46 CFR 164.111

Upholstered furniture	- IMO Res. MSC.36(63)- (1994 HSC Code) 7 - IMO Res. MSC.97(73)- (2000 HSC Code) 7 - IMO Res. MSC.307(88) (2010 FTP Code), as amended	UK/3.20	- 46 CFR 164.144
Bedding components	- IMO Res. MSC.36(63)- (1994 HSC Code) 7 - IMO Res. MSC.97(73)- (2000 HSC Code) 7 - IMO Res. MSC.307(88) (2010 FTP Code), as amended	UK/3.21	- 46 CFR 164.142
Fire dampers	- IMO Res. MSC.307(88) (2010 FTP Code), as amended	UK/3.22	- 46 CFR 164.139
Penetrations through 'A' class (a) electric cable transits.	- IMO Res. MSC.307(88) (2010 FTP Code), as amended - MSC.1/Circ 1488	UK/3.26 (a)	- 46 CFR 164.138

Product identification item	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
Penetrations through 'A' class (b) pipe, duct, trunk, etc., penetrations	- IMO Res. MSC.307(88) (2010 FTP Code), as amended - IMO MSC.1 Circ.1276 - MSC.1/Circ 1488	UK/3.26 (b)	- 46 CFR 164.138

<p>Fire restricting materials (except furniture) for high speed craft</p>	<p>- IMO Res. MSC.36(63)- (1994 HSC Code) 7 - IMO Res. MSC.97(73)- (2000 HSC Code) 7 - IMO Res. MSC.307(88) (2010 FTP Code), as amended - IMO MSC.1 Circ.1457</p>	<p>UK/3.32</p>	<p>- 46 CFR 164.201</p>
<p>Fire restricting materials for furniture for high speed craft</p>	<p>- IMO Res. MSC.36(63)- (1994 HSC Code) 7 - IMO Res. MSC.97(73)- (2000 HSC Code) 7 - IMO Res. MSC.307(88) (2010 FTP Code), as amended</p>	<p>UK/3.33</p>	<p>- 46 CFR 164.201</p>
<p>Fire resisting divisions for high speed craft</p>	<p>- IMO Res. MSC.36(63)- (1994 HSC Code) 7 - IMO Res. MSC.97(73)- (2000 HSC Code) 7 - IMO Res. MSC.307(88) (2010 FTP Code), as amended - IMO MSC.1 Circ.1457</p>	<p>UK/3.34</p>	<p>- 46 CFR 164.207</p>

NAVIGATION EQUIPMENT

Notes applicable to this section:

1. Resolution A.1021(26) and Resolution MSC.302(87) shall be considered, as applicable, for all the navigation equipment - They refer to “Code on alerts and indicators, 2009,” and to “Adoption of performance standards for bridge alert management,” respectively.

2. IEC 61162 series refer to the following reference standards for Maritime navigation and radio-communication equipment and systems - Digital interfaces:
 - IEC 61162- 1 (2016) - Part 1: Single talker and multiple listeners □
IEC 61162- 2 ed1.0 (1998- 09) - Part 2: Single talker and multiple listeners, high- speed transmission
 - IEC 61162- 3 ed1.2 Consol. with am1 ed. 1.0 (2010- 11) and am2 ed. 1.0 (2014- 07) - Part 3: Serial data instrument network
 - IEC 61162- 3 ed1.0 (2008- 05) - Part 3: Serial data instrument network
 - IEC 61162- 3- am1 ed1.0 (2010- 06) Amendment 1 - Part 3: Serial data instrument network
 - IEC 61162- 3- am2 ed1.0 (2014- 07) Amendment 2 - Part 3: Serial data instrument network
 - IEC 61162- 450 ed1.0 (2011- 06) with am1 (2016)- Part 450: Multiple talkers and multiple listeners - Ethernet interconnection

Product item identification	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance

<p>Magnetic compass Class A for ships</p>	<ul style="list-style-type: none"> - IMO Res. A.382(X) - IMO Res. A.694(17) - IMO Res. MSC.36(63)- (1994 HSC Code) 13 - IMO Res. MSC.97(73)- (2000 HSC Code) 13 - IMO Res. MSC.302(87) - ISO 1069 (1973) - ISO 25862 (2009) - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) 	<p>UK/4.1</p>	<ul style="list-style-type: none"> - USCG 165.101 - NVIC 8- 01, CHANGE 3
<p>Transmitting heading device THD (magnetic method)</p>	<ul style="list-style-type: none"> - IMO Res. A.694(17) - IMO Res. MSC.36(63)- (1994 HSC Code) 13 - IMO Res. MSC.97(73)- (2000 HSC Code) 13 - IMO Res. MSC.116(73) - IMO Res. MSC.191(79) - IMO Res. MSC.302(87) - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) - IEC 61162 series - IEC 62288 Ed. 2.0 (2014- 07) - ISO 22090- 2 (2014) 	<p>UK/4.2</p>	<ul style="list-style-type: none"> - USCG 165.102 - NVIC 8- 01, CHANGE 3 Note: The use of ISO 11606:2000/Cor 1:2005 is required for Acceptance for USCG Approval under the MRA

Product item identification	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
Gyro compass	<ul style="list-style-type: none"> - IMO Res. A.424(XI) - IMO Res. A.694(17) - IMO Res. MSC.191(79) - IMO Res.MSC.302(87) - ISO 8728:2014 - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) - IEC 61162 series - IEC 62288 Ed. 2.0 (2014- 07). 	UK/4.3	<ul style="list-style-type: none"> - USCG 165.103 - NVIC 8- 01, CHANGE 3
Echo - sounding equipment	<ul style="list-style-type: none"> - IMO Res. A.224(VII) - IMO Res. A.694(17) - IMO Res. MSC.36(63)- (1994 HSC Code) 13 - IMO Res. MSC.74(69) Annex 4 - IMO Res. MSC.97(73)- (2000 HSC Code) 13 - IMO Res. MSC.191(79) - IMO Res.MSC.302(87) - ISO 9875 (2000) - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) 	UK/4.6	<ul style="list-style-type: none"> - USCG 165.107 - NVIC 8- 01, CHANGE 3

	<ul style="list-style-type: none"> - IEC 61162 series - IEC 62288 Ed. 2.0 (2014- 07) 		
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Product item identification	Applicable international instruments for construction, and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
and Speed distance measuring equipment (SDME)	<ul style="list-style-type: none"> - IMO Res. A.694(17) - IMO Res. A.824(19) - IMO Res. MSC.36(63)- (1994 HSC Code) 13 - IMO Res. MSC.97(73)- (2000 HSC Code) 13 - IMO Res.MSC.302(87) - IMO Res. MSC.191(79) - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) - IEC 61023 (2007) - IEC 61162 series - IEC 62288 Ed. 2.0 (2014- 07) 	UK/4.7	<ul style="list-style-type: none"> - USCG 165.105 - NVIC 8- 01, CHANGE 3

Rate- of- indicator	turn- - IMO Res. A.526(13) - IMO Res. A.694(17) - IMO Res. MSC.36(63)- (1994 HSC Code) 13 - IMO Res. MSC.97(73)- (2000 HSC Code) 13 - IMO Res. MSC.191(79) - IMO Res.MSC.302(87) - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) - IEC 61162 series - ISO 20672 (2007) including Corr. 1 (2008) - IEC 62288 Ed. 2.0 (2014- 07)	UK/4.9	165.106 - USCG - NVIC 8- 01, CHANGE 3
Loran- equipment	C	Deliberately left blank.	
Chayka equipment		Deliberately left blank.	

Product item identification	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
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GPS equipment	<ul style="list-style-type: none"> - IMO Res. A.694(17) - IMO Res. MSC.36(63)- (1994 HSC Code) 13 - IMO Res. MSC.97(73)- (2000 HSC Code) 13 - IMO Res. MSC.112(73) - IMO Res. MSC.191(79) - IMO Res.MSC.302(87) - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) - IEC 61108- 1 Ed.2.0 (2003) - IEC 61162 series - IEC 62288 Ed. 2.0 (2014- 07) 	UK/4.14	<ul style="list-style-type: none"> - USCG 165.130 - NVIC 8- 01, CHANGE 3
GLONASS equipment	<ul style="list-style-type: none"> - IMO Res. A.694(17) - IMO Res. MSC.36(63)- (1994 HSC Code) 13 - IMO Res. MSC.97(73)- (2000 HSC Code) 13 - IMO Res. MSC.113(73) - IMO Res. MSC.191(79) - IMO Res.MSC.302(87) - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) - IEC 61108- 2 (1998) - IEC 61162 series - IEC 62288 Ed. 2.0 (2014- 07) 	UK/4.15	<ul style="list-style-type: none"> - USCG 165.131 - NVIC 8- 01, CHANGE 3

Product item identification	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
Heading control system (HCS)	<ul style="list-style-type: none"> - IMO Res. A.342(IX) - IMO Res. A.694(17) - IMO Res. MSC.191(79) - IMO Res.MSC.64(67) Annex 3 - IMO Res.MSC.302(87) - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) - IEC 61162 series, - IEC 62288 Ed. 2.0 (2014- 07) - ISO 11674 (2006) 	UK/4.16	<ul style="list-style-type: none"> - USCG 165.110 - NVIC 8- 01, CHANGE 3
Rudder Angle Indicator	<ul style="list-style-type: none"> - IMO Res.A.694(17) - IMO Res.MSC.36(63)- (1994 HSC Code) 13 - IMO Res.MSC.97(73)- (2000 HSC Code) 13 - IMO Res.MSC.191(79) - IMO Res.MSC.302(87) - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) - IEC 61162 Series - IEC 62288 Ed 2.0(2014- 07) - ISO 20673:2007 	UK/4.20	<ul style="list-style-type: none"> - USCG 165.167 - NVIC 8- 01, CHANGE 3

Product item identification	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
Propeller revolution indicator	<ul style="list-style-type: none"> - IMO Res.A.694(17) - IMO Res.MSC.36(63)-(1994 HSC Code) 13 - IMO Res.MSC.97(73)-(2000 HSC Code) 13 - IMO Res.191(79) - IMO Res.MSC.302(87) - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) - IEC 61162 Series - IEC 62288 Ed 2.0(2014- 07) - ISO 22554:2015 	UK/4.21	<ul style="list-style-type: none"> - USCG 165.168 - NVIC 8- 01, CHANGE 3
Pitch Indicator	<ul style="list-style-type: none"> - IMO Res.A.694(17) - IMO Res.MSC.36(63)-(1994 HSC Code) 13 - IMO Res.MSC.97(73)-(2000 HSC Code) 13 - IMO Res.191(79) - IMO Res.MSC.302(87) - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) - IEC 61162 Series - IEC 62288 Ed 2.0(2014- 07) - ISO 22555:2007 	UK/4.22	<ul style="list-style-type: none"> - USCG 165.169 - NVIC 8- 01, CHANGE 3

Product item identification	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
<p>Radar equipment CAT 1</p> <p>(Radar equipment used with ARPA must have separate EU and USA certifications)</p>	<ul style="list-style-type: none"> - IMO Res. A.278(VIII) - IMO Res. A.694(17), - IMO Res. MSC.191(79) - IMO Res. MSC.192(79) - IMO Res. MSC.302(87) - ITU- R M. 1177-4(04/11) - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) - IEC 61162 Series - IEC 62288 Ed. 2.0 (2014-07) - IEC 62388 Ed. 2.0 (2013-06) 	<p>UK/4.34</p>	<ul style="list-style-type: none"> - USCG 165.115 - NVIC 8-01, CHANGE 3 - 47 CFR 80 - 47 CFR 02.100 <p>Subpart B</p> <p>Note: USCG 165.120 has been changed to 165.115 to reflect changes required by MSC.192(79). Certificates previously issued remain valid for existing equipment.</p>

Product item identification	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
<p>Radar equipment CAT 2</p> <p>(Radar equipment used with ATA must have separate EU and USA certifications)</p>	<ul style="list-style-type: none"> - IMO Res. A.278(VIII) - IMO Res. A.694(17) - IMO Res. MSC.191(79) - IMO Res. MSC.192(79) - IMO Res.MSC.302(87) - ITU- R M. 1177-4(04/11) - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) - IEC 61162 Series - IEC 62288 Ed. 2.0 (2014-07) - IEC 62388 Ed. 2.0 (2013- 06) 	<p>UK/4.35</p>	<ul style="list-style-type: none"> - USCG 165.116 - NVIC 8- 01, CHANGE 3 - 47 CFR 80 - 47 CFR 02.100 Subpart B <p>Note: USCG 165.111 has been changed to 165.116 to reflect changes required by MSC.192(79). Certificates previously issued remain valid for existing equipment.</p>

Product item identification	Applicable international instruments for construction, performance and testing	UK technical regulations,	US technical regulations and approval
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	requirements	item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	guidance
Radar equipment CAT 3 (Radar equipment used with EPA must have separate EU and USA certifications)	<ul style="list-style-type: none"> - IMO Res. A.278(VIII) - IMO Res. A.694(17) - IMO Res. MSC.191(79) - IMO Res. MSC.192(79) - IMO Res. MSC.302(87) - ITU- R M. 1177-4(04/11) - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) - IEC 61162 Series - IEC 62288 Ed. 2.0 (2014-07) - IEC 62388 Ed. 2.0 (2013-06) 	UK/4.36	<p style="text-align: right;">- USCG 165.117</p> <p style="text-align: right;">- NVIC 8-01, CHANGE 3</p> <p style="text-align: right;">- 47 CFR 80</p> <p style="text-align: right;">- 47 CFR 02.100</p> <p>Subpart B</p> <p>Note: USCG 165.121 has been changed to 165.117 to reflect changes required by MSC.192(79). Certificates previously issued remain valid for existing equipment.</p>
Integrated bridge system	Deliberately left blank.		

Product item identification	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
Voyage data recorder (VDR)	<ul style="list-style-type: none"> - IMO Res. A.694 (17) - IMO Res. MSC.36(63)- (1994 HSC Code) 13 - IMO Res. MSC.97(73)- (2000 HSC Code) 13 - IMO Res. MSC.191(79) - IMO Res. MSC.302(87) - IMO Res. MSC.333(90) - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) - IEC 61162 Series - IEC 61996- 1 Ed.2.0 (2013- 05) incl. IEC 61996- 1 Corr.1 (2014) - IEC 62288 Ed. 2.0 (2014- 07) 	UK/4.29	<ul style="list-style-type: none"> - USCG 165.150 - NVIC 8- 01, CHANGE 3

Product item identification	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance

<p>Electronic chart display and information system (ECDIS) with backup, and raster chart display system (RCDS)</p>	<ul style="list-style-type: none"> - IMO Res.A.694(17) - IMO Res.MSC.36(63)-(1994 HSC Code) 13 - IMO Res.MSC.97(73)-(2000 HSC Code) 13 - IMO Res.MSC.191(79) - IMO Res.MSC.232(82) - IMO Res.MSC.302(87) - IMO MSC.1/Circ.1503. Rev.1 - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) - IEC 61162 Series - IEC 61174 Ed. 4.0 (2015) - IEC 62288 Ed. 2.0 (2014) <p>[ECDIS back- up and RCDS are only applicable when this functionality is included in the ECDIS. The module B certificate shall indicate whether these options were tested]</p>	<p>UK/4.30</p>	<ul style="list-style-type: none"> - USCG 165.123 - USCG 165.124 - NVIC 8-01, CHANGE 3
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Product item identification	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
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<p>Gyro compass for high- speed craft</p>	<ul style="list-style-type: none"> - IMO Res. A.694(17) - IMO Res. A.821(19) - IMO Res. MSC.36(63)- (1994 HSC Code) 13 - IMO Res. MSC.97(73)- (2000 HSC Code) 13 - IMO Res. MSC.191(79) - IMO Res. MSC.302(87) - ISO 16328 (2014) - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) - IEC 61162 Series - IEC 62288 Ed. 2.0 (2014- 07) 	<p>UK/4.31</p>	<ul style="list-style-type: none"> - USCG 165.203 - NVIC 8- 01, CHANGE 3
<p>Universal automatic identification system equipment (AIS)</p>	<ul style="list-style-type: none"> - IMO Res. A.694 (17) - IMO Res. MSC.36(63)- (1994 HSC Code) 13 - IMO Res. MSC.74(69) - IMO Res. MSC.97(73)- (2000 HSC Code) 13 - IMO Res. MSC.191(79) - ITU- R M. 1371- 5(2014) - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) - IEC 61162 Series - IEC 61993- 2 (2012) - IEC 62288 Ed. 2.0 (2014- 07) 	<p>UK/4.32</p>	<ul style="list-style-type: none"> - USCG 165.155 - NVIC 8- 01, CHANGE 3 - ITU- R M. 1371- 3

Product item identification	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
Track control system (working at ship's speed from minimum manoeuvring speed up to 30 knots)	<ul style="list-style-type: none"> - IMO Res. A.694(17) - IMO Res. MSC.74(69) - IMO Res. MSC.191(79) - IMO Res. MSC.302(87) - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) - IEC 61162 Series - IEC 62065 Ed.2.0 (2014-02) - IEC 62288 Ed. 2.0 (2014-07) 	UK/4.33	<ul style="list-style-type: none"> - USCG 165.112 - NVIC 8-01, CHANGE 3
Radar equipment for high speed craft applications (CAT 1H and CAT 2H)	<ul style="list-style-type: none"> - IMO Res.A.278(VIII) - IMO Res.A.694(17) - IMO Res.MSC.36(63)- (1994 HSC Code) 13 - IMO Res.MSC.97(73)- (2000 HSC Code) 13 - IMO Res.MSC.191(79) - IMO Res.MSC.192(79) - IMO Res.MSC.302(87) - MSC.1/Circ.1349 - ITU- R M.1177- 4 (04/11) 	UK/4.37	<ul style="list-style-type: none"> - USCG 165.216 - USCG 165.217 - NVIC 8-01, CHANGE 3

	<ul style="list-style-type: none"> - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) - IEC 61162 Series - IEC 62288 Ed.2.0(2014- 07) - IEC 62388 Ed. 2.0 (2013- 06) 		
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Product item identification	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
Radar reflector passive type	<ul style="list-style-type: none"> - IMO Res. MSC.36(63)- (1994 HSC Code) 13 - IMO Res. MSC.97(73)- (2000 HSC Code) 13 - IMO Res. MSC.164(78) - ISO 8729- 1 (2010) - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) 	UK/4.39	<ul style="list-style-type: none"> - USCG 165.160 - NVIC 8- 01, CHANGE 3

<p>Heading control system for high speed craft</p>	<ul style="list-style-type: none"> - IMO Res. A.694(17) - IMO Res. A.822(19), - IMO Res. MSC.36(63)- (1994 HSC Code) 13 - IMO Res. MSC.97(73)- (2000 HSC Code) 13 - IMO Res. MSC.191(79) - IMO Res. MSC.302(87) - MSC.1/Circ.1349 - ISO 16329 (2003) - IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) - IEC 61162 series - IEC 62288 Ed. 2.0 (2014- 07) 	<p>UK/4.40</p>	<ul style="list-style-type: none"> - USCG 165.210 - NVIC 8- 01, CHANGE 3
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Product item identification	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
<p>Transmitting heading device THD (GNSS method)</p>	<ul style="list-style-type: none"> - IMO Res.A.694(17) - IMO Res.MSC.36(63)- (1994 HSC Code) 13 - IMO Res.MSC.97(73)- (2000 HSC Code) 13 - IMO Res.MSC.116(73) - IMO Res.MSC.191(79) 	<p>UK/4.41</p>	<ul style="list-style-type: none"> - USCG 165.102

	<ul style="list-style-type: none"> - IMO Res.MSC.302(87) - ISO 22090-3:2014 - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) - IEC 61162 Series - IEC 62288 Ed.2.0(2014- 07) 		
Searchlight for high speed craft	<ul style="list-style-type: none"> - IMO Res.A.694(17) - IMO Res.MSC.36(63)- (1994 HSC Code) 13 - IMO Res.MSC.97(73)- (2000 HSC Code) 13 - ISO 17884:2004 - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) 	UK/4.42	<ul style="list-style-type: none"> - USCG 165.252 - NVIC 8- 01, CHANGE 3
Night vision equipment for high speed craft	<ul style="list-style-type: none"> - IMO Res.A.694(17) - IMO Res. MSC.36(63)- (1994 HSC Code) 13 - IMO Res. MSC.94(72) - IMO Res. MSC.97(73)- (2000 HSC Code) 13 - IMO Res. MSC.191(79) - ISO 16273 (2003) - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) - IEC 62288 Ed. 2.0 (2014- 07) 	UK/4.43	<ul style="list-style-type: none"> - USCG 165.251 - NVIC 8- 01, CHANGE 3 - ISO 60447 - ISO / IEC 9126

Product item identification	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
Transmitting heading device THD (Gyroscopic method)	<ul style="list-style-type: none"> - IMO Res.A.694(17) - IMO Res.MSC.36(63)-(1994 HSC Code) 13 - IMO Res.MSC.97(73)-(2000 HSC Code) 13 - IMO Res.MSC.116(73) - IMO Res.MSC.191(79) - IMO Res.MSC.302(87) - ISO 22090- 1:2014 - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) - IEC 61162 Series - IEC 62288 Ed.2.0(2014- 07) 	UK/4.46	- USCG 165.102
Simplified voyage data recorder (S-VDR)	<ul style="list-style-type: none"> - IMO Res. A.694(17) - IMO Res. MSC.163(78) - IMO Res. MSC.191(79) - IMO Res.MSC.302(87) - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) - IEC 61162 Series - IEC 61996- 2 (2007) - IEC 62288 Ed. 2.0 (2014- 07) 	UK/4.47	- USCG 165.151 - NVIC 8- 01, CHANGE 3

Product item identification	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
DGPS Equipment	<ul style="list-style-type: none"> - IMO Res.A.694(17) - IMO Res.MSC.36(63)- (1994 HSC Code) 13 - IMO Res.MSC.97(73)- (2000 HSC Code) 13 - IMO Res.MSC.112(73) - IMO Res.MSC.114(73) - IMO Res.MSC.191(79) - IMO Res.MSC.302(87) - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) - IEC 61108- 1 (2003) - IEC 61108- 4 (2004) - IEC 61162 Series - IEC 62288 Ed.2.0(2014- 07) 	UK/4.50	<ul style="list-style-type: none"> - USCG 165.132 - NVIC 08- 01 CHANGE 3
DGLONASS Equipment	<ul style="list-style-type: none"> - IMO Res.A.694(17) - IMO Res.MSC.36(63)- (1994 HSC Code) 13 - IMO Res.MSC.97(73)- (2000 HSC Code) 13 - IMO Res.MSC.113(73) - IMO Res.MSC.114(73) - IMO Res.MSC.191(79) 	UK/4.51	<ul style="list-style-type: none"> - USCG 165.133 - NVIC 08- 01 CHANGE 3

	<ul style="list-style-type: none"> - IMO Res.MSC.302(87) - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) - IEC 61108- 2 Ed.1.0 (1998) - IEC 61108- 4 (2004) - IEC 61162 Series - IEC 62288 Ed.2.0(2014- 07) 		
Product item identification	Applicable international instruments for construction, performance and testing requirements	UK technical regulations, item number indicated in Annex I of Merchant Shipping Notice 1874, as amended	US technical regulations and approval guidance
Daylight signalling lamp	<ul style="list-style-type: none"> - IMO Res.A.694(17) - IMO Res.MSC.36(63)- (1994 HSC Code) - IMO Res.MSC.95(72) - IMO Res.MSC.97(73)- (2000 HSC Code) - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) - ISO 25861:2007 	UK/4.52	<ul style="list-style-type: none"> - USCG 165.166 - NVIC 08- 01 CHANGE 3
Bridge Navigational Watch Alarm System (BNWAS)	<ul style="list-style-type: none"> - IMO Res.A.694(17) - IMO Res.MSC.128(75) - IMO Res.MSC.191(79) - IMO Res.MSC.302(87) - MSC.1/Circ.1474 - IEC 60945 (2002) incl. IEC 	UK/4.57	<ul style="list-style-type: none"> - USCG 165.142 - NVIC 08- 01, CHANGE 3

	60945 Corr. 1 (2008) - IEC 61162 Series - IEC 62288 Ed.2.0(2014- 07) - IEC 62616(2010) incl. IEC 62616 Corr. 1 (2012)		
Sound reception system	- IMO Res.A.694(17) - IMO Res.MSC.36(63)- (1994 HSC Code) - IMO Res.MSC.86(70) - IMO Res.MSC.97(73)- (2000 HSC Code) - IMO Res.MSC.191(79) - IMO Res.MSC.302(87) - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008) - IEC 61162 Series - IEC 62288 Ed.2.0(2014- 07) - ISO 14859:2012	UK/4.58	- USCG 165.165 - NVIC 8- 01 CHANGE 3