



Maritime &
Coastguard
Agency

MERCHANT SHIPPING NOTICE

MSN 1874 (M+F) Amendment 1

Marine Equipment - The Marine Equipment Directive, 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 Notified and Nominated Bodies**

*This notice should be read with the Merchant Shipping (Marine Equipment) Regulations 2016 SI 2016/1025 and relevant UK carriage requirement instruments
This notice amends MSN 1874*

Summary

On the 24 February 2017 Commission Regulation (EU) 2017/306 indicating design, construction and performance requirements and testing standards for marine equipment was published in the Official Journal of the European Union. This Regulation entered into force on the 16 March 2017 and became directly applicable in the UK. This Commission Regulation updates the standards required for equipment approved to the Marine Equipment Directive (Directive 2014/90/EU).

This notice, amends Merchant Shipping Notice 1874 (M+F) in order to align the requirements of equipment specified in Annex 1 and Annex 2 to that notice with those specified in the Annex of Commission Regulation 2017/306.

1. Introduction

- 1.1 Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 on marine equipment and repealing Council Directive 96/98/EC ("the MED") sets out performance and testing standards to be met by marine equipment placed on board an EU ship.
- 1.2 Article 35 of the MED sets out the method of communicating and updating performance and testing standards to be applied to the testing and approval of marine equipment to be placed



on board an EU ship. Updating of the standards is to be achieved through Commission Implementing Regulations. When Commission Implementing Regulations are brought into force, the requirements in those Regulations must be followed.

- 1.3 Article 40 of the MED requires the use of the standards specified in Amendment 11 to Directive 96/98/EC to be applied to marine equipment until Commission Regulations referred to in Article 35 of the MED come into force. Merchant Shipping Notice (MSN) 1874 (M+F) Annex 1 communicates the standards for equipment specified in Annex A.1 of the 11th amendment to Directive 96/98/EC.
- 1.4 On the 24 February 2017, Commission Implementing (EU) 2017/306 indicating design, construction and performance requirements and testing standards for marine equipment was published in the Official Journal of the EU L 48, 24 February 2017 and came into force on the 16 March 2017. The Annex to Commission Regulation 2017/306 replaces the requirements for marine equipment specified in Amendment 11 to Directive 96/98/EC as set out in Article 35 and 40 of the MED.
- 1.5 This notice updates Annex 1 and Annex 2 to MSN 1874 to align the requirements for equipment in those Annexes with those in the Annex to the Commission Regulation 2017/306 which automatically became applicable within the UK on the 16 March 2017.

2. Amendments to Annex 1 to MSN 1874

- 2.1 From 16 March 2017 Annex 1 to MSN 1874 is replaced with Annex 1 to this notice.
- 2.2 The following transitional arrangement applies to equipment newly included by the Commission Implementing Regulation that was not previously included in Annex A.1 of the 11th amendment to Directive 96/98/EC as per Article 2 to Commission Regulation 2017/306.

Equipment listed as a new item in column 1 of Annex 1 to this Notice, which complies with the national requirements for type-approval in force before 16 March 2017 in a Member State, may continue to be placed on the market and on board a UK ship as required by regulation 5(1) of the Merchant Shipping (Marine Equipment) Regulations 2016 until 16 March 2020.

3. Amendments to Annex 2 to MSN 1874

- 3.1 From 16 March 2017 Annex 2 to MSN 1874 is amended as specified in Annex 2 to this notice.

4. Amendments to Notified and Nominated Body Details

- 4.1 MSN 1874 specifies the contact details for the UK designated notified and nominated bodies. In order to keep these contact details up to date, the following amendments are made.



4.2 In 5.2 of MSN 1874 the following amendments are made:

BRE Global Ltd's details are replaced with:

BRE Global Ltd
Bucknalls Lane
Garston
WD25 9XX
Tel: 01923 665 114
E-mail: michael.pratt@bre.co.uk
Customer Services 0333 321 8811

BSI Group's contact details are replaced with:

BSI Group
Kitemark Court
Davy Avenue
Knowlhill,
Milton Keynes
MK5 8PP
Tel: +44 (0) 345 080 9000
Email: Jitesh.pankhania@bsigroup.com

BTTG's contact details are replaced with:

Shirley Technologies Limited trading as BTTG
Unit 6 Wheel Forge Way
Trafford Park
Manchester
M17 1EH
Tel: 0161 873 6543
Fax: 0161 848 7378
Email: chris.butcher@bttg.co.uk

Fleetwood Test House's details are replaced with:

Fleetwood Test House
Blackpool & the Flyde College,
Fleetwood Nautical Campus,
Broadwater
Fleetwood
FY7 8JZ UK
Tel: +44 (0) 1253 504725
Email: brooke.schofield@blackpool.ac.uk

UL International (UK) Ltd's details are replaced with:

UL International (UK) Ltd
Wonersh House, The Guildway, Old Portsmouth Road,



Guildford,
Surrey, GU3 1LR
United Kingdom
Tel: +44 (0) 1483 40 20 23
Fax: +44 (0) 1483 30 22 30
Email: inform.NB@ul.com

TUV SUD BABT's details are replaced with:

TUV SUD BABT
Octagon House,
Concorde Way,
Segensworth North
Fareham, PO15 5RL
Hampshire
Tel: 01489 558100
Fax: 01489 558101
Email: babt@tuv-sud.co.uk

UL International (UK) Ltd's details are replaced with:

UL International (UK) Ltd
Wonersh House, The Guildway, Old Portsmouth Road,
Guildford,
Surrey, GU3 1LR
United Kingdom
Tel: +44 (0) 1483 40 20 23
Fax: +44 (0) 1483 30 22 30
Email: inform.NB@ul.com

Warrington Certification's details are replaced with:

Exova UK Limited, trading as Warrington Certification
Holmesfield Road
Warrington
Cheshire. WA1 2DS
Tel: 01925 646 669
Email: janet.murrell@exova.com

4.3 In 13.1 of MSN 1874 the following amendments are made:

ABS's details are replaced with:

ABS Europe Ltd
1 Frying Pan Alley
London E1 7HR
Tel: 0207 247 3255
Fax: 0207 377 2453



More Information

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Maritime and Coastguard Agency
Bay 2/27
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 Inquiries: infoline@mcga.gov.uk

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telephone numbers are correct at time of publishing

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Safer Lives, Safer Ships, Cleaner Seas



Annex 1

This annex sets out in full the Annex to Commission Regulation 2017/306. In accordance with Article 35(2) and 35(5) of Directive 2014/90/EU, Commission Regulation 2017/306 sets out the design, construction and performance requirements for equipment issued conformity assessment by a notified body. The annex is split into groups of equipment type (Life-Saving Appliances, Pollution Prevention, Fire Protection, Navigation, Radio Communication and Equipment required by the COLREG).

In accordance with Article 40 of Directive 2014/90/EU, the requirements below replace those cited in Annex A of Directive 96/98/EC as previously transposed in Merchant Shipping Notice 1734 (M+F).

Annex to Commission Regulation 2017/306

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

General note: Within certain item designations, column 3 shows some possible product variants under the same item designation. Product variants are independently provisioned and separated by a dotted lined from each other. For certification purpose only the relevant product variant shall be chosen, as appropriate (Example: MED/3.3).

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 Electro-technical Commission.

IGC, International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk.

IMO, International Maritime Organization.

ISO, International Standardisation Organisation.

ITU, International Telecommunication Union.

LSA, Life saving appliance.

MARPOL, International Convention for the Prevention of Pollution from Ships.



MED, Marine Equipment Directive.
MEPC, Marine Environment Protection Committee.
MSC, Maritime Safety Committee.
NO_x, Nitrogen Oxides.
O₂/HC systems: Oxygen Hydro Carbon systems.
SOLAS, International Convention for the Safety of Life at Sea.
SO_x, Sulphur Oxides.
Reg., Regulation.
Res., Resolution.



Notes applicable to the whole of this Annex

- a) General: In addition to the testing standards specifically mentioned 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 Directive 2014/90/EU.
- b) Column 3: Where two sets of identifying standards are separated by “or”, each set fulfils all the testing requirements to meet IMO Performance Standards; thus testing to one of these sets is sufficient to demonstrate compliance with the requirements of the relevant international instruments. Conversely, when other separators (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 interpretations of placing on board (indicated in brackets behind the dates) apply:
 - I: First installation of the equipment in its functional position on board an EU ship as defined in Article 2 of Directive 2014/90/EU.
 - II: First installation of the equipment in its functional position or stowing in its functional position on board an EU 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) The requirements laid down in this Annex shall be without prejudice to carriage requirements in the international conventions.
- e) Where there are two rows for one marine equipment entry (e.g. MED/1/1.2c), the second (lower) row contains the updated requirements of the international instruments in respect to the ones shown in the first (upper) row.
- f) In such cases and if 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.



1. Life-saving appliances

Column 2: IMO MSC/ Circular 980 should 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	Dates for placing on the market	Dates for placing on board
1	2	3	4	5	6
MED/1.1 - Lifebuoys	Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3. Carriage and performance requirements - SOLAS 74 Reg. III/7, - 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		



	<ul style="list-style-type: none">- 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.				
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1	2	3	4	5	6
<p>MED/1.2a - Position-indicating lights for life-saving appliances: (a) for survival craft and rescue boats,</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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, - IMO Res.MSC.48(66)-(LSA Code) II, - IMO Res.MSC.48(66)-(LSA Code) IV, - IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>	<p>- IMO Res. MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		
<p>MED/1.2a - Position-indicating lights for life-saving appliances: (a) for survival craft and rescue boats,</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. III/34,</p>	<p>- IMO Res.MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



	<ul style="list-style-type: none">- IMO Res.MSC.36(63)-(1994 HSC Code) 8,- IMO Res.MSC.48(66)-(LSA Code) II,- IMO Res.MSC.48(66)-(LSA Code) IV,- IMO Res.MSC.97(73)-(2000 HSC Code) 8.				
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1	2	3	4	5	6
<p>MED/1.2b - Position-indicating lights for life-saving appliances: (b) for lifebuoys,</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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, - IMO Res.MSC.48(66)-(LSA Code) II, - IMO Res.MSC.48(66)-(LSA Code) IV, - IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>	<p>- IMO Res. MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		
<p>MED/1.2b - Position-indicating lights for life-saving appliances: (b) for lifebuoys,</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. III/7, - SOLAS 74 Reg. III/22, - SOLAS 74 Reg. III/32,</p>	<p>- IMO Res. MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



	<ul style="list-style-type: none">- SOLAS 74 Reg. III/34,- IMO Res.MSC.36(63)-(1994 HSC Code) 8,- IMO Res.MSC.48(66)-(LSA Code) II,- IMO Res.MSC.97(73)-(2000 HSC Code) 8.				
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1	2	3	4	5	6
<p>MED/1/1.2c Position-indicating lights for life-saving appliances: (c) for lifejackets.</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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, - IMO Res.MSC.48(66)-(LSA Code) II, - IMO Res.MSC.48(66)-(LSA Code) IV, - IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>	<p>- IMO Res. MSC.81(70) , as amended.</p>	<p>B+D B+E B+F</p>		
<p>MED/1/1.2c Position-indicating lights for life-saving appliances: (c) for lifejackets.</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. III/7, - SOLAS 74 Reg. III/22, - SOLAS 74 Reg. III/26,</p>	<p>- IMO Res. MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



	<ul style="list-style-type: none">- 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) II,- IMO Res.MSC.97(73)-(2000 HSC Code) 8.				
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1	2	3	4	5	6
<p>MED/1.3 - Lifebuoys self-activating smoke signals</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. III/7, - 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>	<p>- IMO Res. MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/1.4 - Lifejackets</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. III/7, - SOLAS 74 Reg. III/22, - 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.922, - IMO MSC.1/Circ.1304, - IMO MSC.1/Circ.1470.</p>	<p>- IMO Res. MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/1.5a - Immersion suits and anti-exposure suits designed to be worn in conjunction WITH a lifejacket a) immersion suit without inherent insulation,</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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.</p>	<p>- IMO Res. MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/1.5b - Immersion suits and anti-exposure suits designed to be worn in conjunction WITH a lifejacket b) immersion suit with inherent insulation,</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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.</p>	<p>- IMO Res. MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/1.5c - Immersion suits and anti-exposure suits designed to be worn in conjunction WITH a lifejacket c) anti exposure suits.</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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.</p>	<p>- IMO Res. MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/1.6a - Immersion suits and anti-exposure suits designed to be worn WITHOUT a lifejacket a) immersion suit without inherent insulation,</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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.</p>	<p>- IMO Res. MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/1.6b - Immersion suits and anti-exposure suits designed to be worn WITHOUT a lifejacket b) immersion suit with inherent insulation,</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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.</p>	<p>- IMO Res. MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/1.6c - Immersion suits and anti-exposure suits designed to be worn WITHOUT a lifejacket c) anti exposure suits.</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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.</p>	<p>- IMO Res. MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/1.7 - Thermal protective aids</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>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.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.</p>	<p>- IMO Res. MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/1.8 - Rocket parachute flares (pyrotechnics)</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. III/6, - 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) III, - IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>	<p>- IMO Res. MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/1.9 - Hand flares (pyrotechnics)</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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) III, - IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>	<p>- IMO Res. MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
MED/1.10 - Buoyant smoke signals (pyrotechnics)	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		
	Carriage and performance requirements - SOLAS 74 Reg. III/34, - IMO Res.MSC.48(66)-(LSA Code) I, - IMO Res.MSC.48(66)-(LSA Code) III.				



1	2	3	4	5	6
MED/1.11 - Line-throwing appliances	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		
	Carriage and performance requirements - SOLAS 74 Reg. III/18, - 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) VII, - IMO Res.MSC.97(73)-(2000 HSC Code) 8.				



1	2	3	4	5	6
<p>MED/1.12 - Inflatable liferafts</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. III/13, - SOLAS 74 Reg. III/21, - SOLAS 74 Reg. III/26, - 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) IV, - IMO Res.MSC.97(73)-(2000 HSC Code) 8, - IMO MSC/Circ.811, - IMO MSC.1/Circ.1328.</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>		



1	2	3	4	5	6
MED/1.13 - Rigid liferafts	Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3. Carriage and performance requirements - SOLAS 74 Reg. III/21, - SOLAS 74 Reg. III/26, - 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) IV, - IMO Res.MSC.97(73)-(2000 HSC Code) 8, - IMO MSC/Circ.811.	- IMO Res. MSC.81(70), as amended, - IMO MSC/Circ.1006.	B+D B+E B+F		



1	2	3	4	5	6
<p>MED/1.14 - Automatically self-righting liferafts</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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, - IMO Res.MSC.97(73)-(2000 HSC Code) 8, - IMO MSC/Circ.809, - IMO MSC/Circ.811, - IMO MSC.1/Circ.1328.</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>		



1	2	3	4	5	6
<p>MED/1.15 - Canopied reversible liferafts</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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, - IMO Res.MSC.97(73)-(2000 HSC Code) 8, - IMO MSC/Circ.809, - IMO MSC/Circ.811, - IMO MSC.1/Circ.1328.</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>		



1	2	3	4	5	6
<p>MED/1.16 - Float-free arrangements for liferafts (hydrostatic release units)</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. III/13, - 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, - IMO Res.MSC.97(73)-(2000 HSC Code) 8, - IMO MSC/Circ.811.</p>	<p>- IMO Res.MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/1.17a</p> <ul style="list-style-type: none"> - Lifeboats: (a) Davit-launched lifeboats: - partially enclosed, - totally enclosed. 	<p>Type approval requirements</p> <ul style="list-style-type: none"> - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3. <hr/> <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) IV, - IMO Res.MSC.97(73)-(2000 HSC Code) 8, - IMO MSC.1/Circ.1423. 	<ul style="list-style-type: none"> - IMO Res.MSC.81(70), as amended, - IMO MSC/Circ.1006. 	<p>B+D B+F G</p>		



1	2	3	4	5	6
<p>MED/1.17b - Lifeboats: (b) Free-fall lifeboats.</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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) IV, - IMO Res.MSC.97(73)-(2000 HSC Code) 8, - IMO MSC.1/Circ.1423.</p>	<p>- IMO Res.MSC.81(70), as amended, - IMO MSC/Circ.1006.</p>	<p>B+D B+F G</p>		



1	2	3	4	5	6
<p>MED/1.18 - Rigid rescue boats</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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.</p>	<p>- IMO Res.MSC.81(70), as amended, - IMO MSC/Circ.1006.</p>	<p>B+D B+F G</p>		



1	2	3	4	5	6
<p>MED/1.19 - Inflated rescue boats</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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.</p>	<p>- IMO Res.MSC.81(70), as amended, - ISO 15372:2000.</p>	<p>B+D B+F G</p>		



1	2	3	4	5	6
MED/1.20a - Fast rescue boats: (a) inflated,	Type approval requirements - SOLAS 74 Reg. III/4. 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) V, - IMO MSC/Circ.1016, - IMO MSC/Circ.1094.	- IMO Res.MSC.81(70), as amended, - IMO MSC/Circ.1006, - ISO 15372:2000.	B+D B+F G		



1	2	3	4	5	6
MED/1.20b - Fast rescue boats: (b) rigid,	Type approval requirements - SOLAS 74 Reg. III/4. <hr/> 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) V, - IMO MSC/Circ.1016, - IMO MSC/Circ.1094.	- IMO Res.MSC.81(70), as amended, - IMO MSC/Circ.1006, - ISO 15372:2000.	B+D B+F G		



1	2	3	4	5	6
MED/1.20c - Fast rescue boats: (c) rigid-inflated.	Type approval requirements - SOLAS 74 Reg. III/4. <hr/> 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) V, - IMO MSC/Circ.1016, - IMO MSC/Circ.1094.	- IMO Res.MSC.81(70), as amended, - IMO MSC/Circ.1006, - ISO 15372:2000.	B+D B+F G		



1	2	3	4	5	6
MED/1.21 - Launching appliances using falls (davits)	Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3. Carriage and performance requirements - SOLAS 74 Reg. III/23, - SOLAS 74 Reg. III/33, - 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) VI, - IMO Res.MSC.97(73)-(2000 HSC Code) 8.	- IMO Res.MSC.81(70), as amended.	B+D B+E B+F G		

Item MED/1.22 Float free launching appliances for survival craft - Item deliberately left blank



1	2	3	4	5	6
<p>MED/1.23 - Launching appliances for free-fall lifeboats</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. III/16, - SOLAS 74 Reg. III/23, - SOLAS 74 Reg. III/33, - 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) VI, - IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>	<p>- IMO Res.MSC.81(70), as amended.</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/1.24 - Liferaft launching appliances (Davits)</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. III/12, - 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) VI, - IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>	<p>- IMO Res.MSC.81(70), as amended.</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
MED/1.25 - Fast rescue boat launching appliances (Davits)	Type approval requirements - SOLAS 74 Reg. III/4. 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.	- IMO Res.MSC.81(70), as amended.	B+D B+E B+F G		



1	2	3	4	5	6
<p>MED/1.26a - Release mechanism for (a) Lifeboats and rescue boats (Launched by a fall or falls),</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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.48(66)-(LSA Code) VI, - IMO Res.MSC.97(73)-(2000 HSC Code) 8, - IMO MSC.1/Circ.1419.</p>	<p>- IMO Res.MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/1.26b - Release mechanism for (b) Liferafts (Launched by a fall or falls),</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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.48(66)-(LSA Code) VI, - IMO Res.MSC.97(73)-(2000 HSC Code) 8, - IMO MSC.1/Circ.1419.</p>	<p>- IMO Res.MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/1.26c - Release mechanism for (c) Free fall lifeboats.</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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.48(66)-(LSA Code) VI, - IMO Res.MSC.97(73)-(2000 HSC Code) 8, - IMO MSC.1/Circ.1419.</p>	<p>- IMO Res.MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/1.27 - Marine evacuation systems</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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, - IMO Res.MSC.48(66)-(LSA Code) VI, - IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>	<p>- IMO Res.MSC.81(70), as amended.</p>	<p>B+D B+F G</p>		



1	2	3	4	5	6
MED/1.28 - Means of rescue	Type approval requirements - SOLAS 74 Reg. III/4. 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.	- IMO Res.MSC.81(70), as amended, - IMO MSC/Circ.810.	B+D B+F		



1	2	3	4	5	6
<p>MED/1.29 - Embarkation ladders</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. III/11, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. III/11, - SOLAS 74 Reg. III/34, - 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.1/Circ.1285.</p>	<p>- IMO Res.MSC.81(70), as amended, - ISO 5489:2008.</p>	<p>B+D B+F</p>		



1	2	3	4	5	6
MED/1.30 - Retro-reflective materials	Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3. Carriage and performance requirements - 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.97(73)-(2000 HSC Code) 8.	- IMO Res. A.658(16).	B+D B+E B+F		

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.



1	2	3	4	5	6
<p>MED/1.33 - Radar reflector for lifeboats and rescue boats (passive)</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. III/34, - IMO Res.A.384(X), - 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.48(66)-(LSA Code) V, - IMO Res.MSC.97(73)-(2000 HSC Code) 8, - IMO Res.MSC.164(78).</p>	<p>- 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, - ISO 8729-1:2010, - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), Or, - ISO 8729-1:2010, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008).</p>	<p>B+D B+E B+F</p>		

Item MED/1.34, Compass 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.



1	2	3	4	5	6
MED/1.36 - Lifeboat / rescue boat propulsion engine	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		
	Carriage and performance requirements - SOLAS 74 Reg. III/34, - IMO Res.MSC.48(66)-(LSA Code) IV, - IMO Res.MSC.48(66)-(LSA Code) V.				



1	2	3	4	5	6
MED/1.37 - Rescue boat propulsion engine - outboard motor	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		
	Carriage and performance requirements - SOLAS 74 Reg. III/34, - IMO Res.MSC.48(66)-(LSA Code) V.				



1	2	3	4	5	6
<p>MED/1.38 - Searchlights for use in lifeboats and rescue boats</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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.48(66)-(LSA Code) V, - IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>	<p>- IMO Res.MSC.81(70), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/1.39 - Open reversible liferafts</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - IMO Res.MSC.36(63)-(1994 HSC Code) 8, - IMO Res.MSC.36(63)-(1994 HSC Code) Annex 10, - IMO Res.MSC.48(66)-(LSA Code) I, - IMO Res.MSC.97(73)-(2000 HSC Code) 8, - IMO Res.MSC.97(73)-(2000 HSC Code) Annex 11, - IMO MSC.1/Circ.1328.</p>	<p>- IMO Res.MSC.36(63)-(1994 HSC Code) Annex 10, - IMO Res.MSC.97(73)-(2000 HSC Code) Annex 11, And for extended service intervals: - IMO MSC.1/Circ.1328.</p>	<p>B+D B+F</p>		

Item MED/1.40, Mechanical pilot hoist, - moved to MED/4.48.



1	2	3	4	5	6
<p>MED/1.41a - Winches for survival craft and rescue boats: (a) davit launched lifeboats,</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. III/16, - SOLAS 74 Reg. III/17, - SOLAS 74 Reg. III/23, - SOLAS 74 Reg. III/24, - 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) VI, - IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>	<p>- IMO Res.MSC.81(70), as amended.</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/1.41b - Winches for survival craft and rescue boats: (b) free-fall lifeboats,</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. III/16, - SOLAS 74 Reg. III/17, - SOLAS 74 Reg. III/23, - SOLAS 74 Reg. III/24, - 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) VI, - IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>	<p>- IMO Res.MSC.81(70), as amended.</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/1.41c - Winches for survival craft and rescue boats: (c) liferafts,</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. III/16, - SOLAS 74 Reg. III/17, - SOLAS 74 Reg. III/23, - SOLAS 74 Reg. III/24, - 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) VI, - IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>	<p>- IMO Res.MSC.81(70), as amended.</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/1.41d - Winches for survival craft and rescue boats: (d) rescue boats,</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. III/16, - SOLAS 74 Reg. III/17, - SOLAS 74 Reg. III/23, - SOLAS 74 Reg. III/24, - 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) VI, - IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>	<p>- IMO Res.MSC.81(70), as amended.</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/1.41e - Winches for survival craft and rescue boats: (e) fast rescue boats.</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. III/16, - SOLAS 74 Reg. III/17, - SOLAS 74 Reg. III/23, - SOLAS 74 Reg. III/24, - 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) VI, - IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>	<p>- IMO Res.MSC.81(70), as amended.</p>	<p>B+D B+E B+F G</p>		

Item MED/1.42, Pilot ladder, - moved to MED/4.49.



1	2	3	4	5	6
<p>MED/1.43 - Rigid/inflated rescue boats</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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.</p>	<p>- IMO Res.MSC.81(70), as amended, - IMO MSC/Circ.1006, - ISO 15372:2000.</p>	<p>B+D B+F G</p>		



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
MED/2.1 Oil-filtering equipment (for an oil content of the effluent not exceeding 15 p.p.m.)	<p>Type approval requirements - MARPOL 73/78 Annex I, Reg. 14.</p> <p>Carriage and performance requirements - MARPOL 73/78 Annex I, Reg. 14. - IMO MEPC.1/Circ. 643.</p>	<p>- IMO Res.MEPC.107(49), - IMO MEPC.1/Circ. 643.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
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		



1	2	3	4	5	6
MED/2.3 Oil-content meters	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), - IMO MEPC.1/Circ. 643.	B+D B+E B+F		

Item MED/2.4, Process units intended for attachment to existing oily water separating equipment (for an oil content of the effluent not exceeding 15 p.p.m.), - Item deliberately left blank



1	2	3	4	5	6
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.761 Rev.1, - 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.				



1	2	3	4	5	6
MED/2.6 Sewage systems	Type approval requirements - MARPOL 73/78 Annex IV, Reg. 9. Carriage and performance requirements - MARPOL 73/78 Annex IV, Reg. 9.	- IMO Res.MEPC.227(64).	B+D B+E B+F		01-01-2018 (III)
MED/2.6 Sewage systems	Type approval requirements - MARPOL 73/78 Annex IV, Reg. 9. Carriage and performance requirements - MARPOL 73/78 Annex IV, Reg. 9.	- IMO Res.MEPC.227(64). 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 passenger ships, in all areas and by passenger ships outside MARPOL Annex IV special areas).	B+D B+E B+F G	16 March 2017	



1	2	3	4	5	6
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		01-01-2018 (III)
	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 March 2017	
	Carriage and performance requirements - MARPOL 73/78 Annex VI, Reg. 16.				



1	2	3	4	5	6
MED/2.8 NOx analyzer for use on board as per NOx Technical Code 2008	<p>Type approval requirements - IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 13).</p> <p>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.</p>	- IMO Res. MEPC.177(58) - (NOx Technical code 2008), as amended.	B+D B+E B+F G		

Item MED/2.9, Equipment using other technological methods to limit SO_x emissions - Item deliberately left blank.



1	2	3	4	5	6
MED/2.10 On board exhaust gas cleaning systems	Type approval requirements - IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4), - IMO Res. MEPC.184(59).	- IMO Res.MEPC.184(59).	B+D B+E B+F G		15-05-2018
	Carriage and performance requirements - IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4),				
MED/2.10 On board exhaust gas cleaning systems	Type approval requirements - IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4), - IMO Res.MEPC.259 (68).	- IMO Res.MEPC.259(68).	Scheme A B+F G	16 March 2017	
	Carriage and performance requirements - IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4).		Scheme B G		



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
MED/3.1 Primary decks covering	Type approval requirements - SOLAS 74 Reg. II-2/4, - 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-2/4, - SOLAS 74 Reg. II-2/6, - IMO Res.MSC.36(63)-(1994 HSC Code) 7, - IMO Res.MSC.97(73)-(2000 HSC Code) 7.				



1	2	3	4	5	6
MED/3.2 Portable fire extinguishers	Type approval requirements - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 4.	- EN 3-7:2004 incl. A1:2007, - EN 3-8:2006 incl. AC:2007, - EN 3-9:2006 incl. AC:2007, - EN 3-10:2009.	B+D B+E B+F		
	Carriage and performance requirements - SOLAS 74 Reg. II-2/4, - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. II-2/18, - SOLAS 74 Reg. II-2/19, - SOLAS 74 Reg. II-2/20, - IMO Res.A.951(23), - 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/Circ.1239, - IMO MSC/Circ.1275.				



1	2	3	4	5	6
MED/3.3 Fire-fighter's outfit: protective clothing (close proximity clothing)	Type approval requirements - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 3.	- Protective clothing for fire fighting:, - EN 469:2005 incl. A1:2006 and AC:2006, Or, - Protective clothing for fire fighting - Reflective clothing for specialised fire-fighting:, - EN 1486:2007, Or, - Protective clothing for fire fighting - Protective clothing with a reflective outer surface:, - ISO 15538:2001. Note: Level 2	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.				



1	2	3	4	5	6
MED/3.4 Fire-fighter's outfit: boots	Type approval requirements - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 3.	- EN 15090:2012 .	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.				



1	2	3	4	5	6
MED/3.5 Fire-fighter's outfit: gloves	Type approval requirements - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 3.	- EN 659:2003 incl. A1:2008 and AC:2009.	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.				



1	2	3	4	5	6
MED/3.6 Fire-fighter's outfit: helmet	Type approval requirements - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 3.	- EN 443:2008.	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.				



1	2	3	4	5	6
<p>MED/3.7 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>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>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>And where the apparatus is for use in accidents with cargo:</p> <ul style="list-style-type: none"> - IMO Res.MSC.4(48)-(IBC Code) 14, - IMO Res.MSC.5(48)-(IGC Code) 14. 	<ul style="list-style-type: none"> - EN 136:1998 incl. AC:2003, - EN 137:2006, <p>And where the apparatus is for use in accidents with cargo:</p> <ul style="list-style-type: none"> - ISO 23269-3:2011. 	<p>B+D B+E B+F</p>		
<p>MED/3.7 Self-contained compressed-air-operated breathing apparatus</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. 	<ul style="list-style-type: none"> - EN 136:1998 incl. AC:2003, - EN 137:2006, <p>And where the apparatus is for use in accidents with cargo:</p> <ul style="list-style-type: none"> - ISO 23269-3:2011. 	<p>B+D B+E B+F</p>		



<p>Note: For use in accidents involving dangerous goods a positive pressure type mask is required.</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>And where the apparatus is for use in accidents with cargo:</p> <ul style="list-style-type: none"> - IMO Res.MSC.4(48)-(IBC Code) 14, - IMO Res.MSC.5(48)-(IGC Code) 14, - IMO MSC.1/Circ.1499. 				
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1	2	3	4	5	6
<p>MED/3.8 Compressed air line breathing apparatus</p>	<p>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.</p> <hr/> <p>Carriage and performance requirements - IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p>	<p>- EN 14593-1:2005, - EN 14593-2:2005 incl. AC:2005 - EN 14594:2005 incl. AC:2005 .</p>	<p>B+D B+E B+F</p>		
<p>MED/3.8 Compressed air line breathing apparatus</p>	<p>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.</p> <hr/> <p>Carriage and performance requirements - IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p>	<p>- EN 14593-1:2005, - EN 14594:2005 incl. AC:2005 .</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<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 - SOLAS 74 Reg. II-2/7, - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 8.</p> <p>Carriage and performance requirements - 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. - IMO MSC/Circ.912.</p>	<p>- IMO Res. A.800(19),as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/3.10 - Nozzles for fixed pressure water spraying fire extinguishing systems for machinery spaces and cargo pump-rooms</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 7.</p> <hr/> <p>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) 7. - IMO MSC.1/Circ.1313.</p>	<p>- IMO MSC/Circ.1165, Appendix A, as amended</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
MED/3.11a 'A' & 'B' Class divisions fire integrity (a) 'A' class divisions,	Type approval requirements - SOLAS 74 Reg. II-2/3.2.	- 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.				



1	2	3	4	5	6
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 - SOLAS 74 Reg. II-2/3.4. - SOLAS 74 Reg. II-2/9.				



1	2	3	4	5	6
<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, - SOLAS 74 Reg. II-2/16.</p> <p>Carriage and performance requirements - SOLAS 74 Reg. II-2/4, - SOLAS 74 Reg. II-2/16.</p>	<p>- P/V valves:, - IMO MSC/Circ.677, - ISO 15364:2007, - Flame arresters, detonation flame arresters and high velocity valves:, - IMO MSC/Circ.677, - EN ISO 16852:2010 .</p>	<p>For equipment other than valves: B+D B+E B+F</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, - SOLAS 74 Reg. II-2/16.</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>a) P/V valves: - IMO MSC/Circ.677, as amended, - EN ISO 16852:2010, - ISO 15364:2016. 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 equipment other than valves: B+D B+E B+F</p> <p>For valves B+F</p>		



1	2	3	4	5	6
MED/3.13 Non-combustible materials	Type approval requirements - SOLAS 74 Reg. II-2/3, - 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-2/9, - IMO Res.MSC.36(63)-(1994 HSC Code) 7, - IMO Res.MSC.97(73)-(2000 HSC Code) 7.				

Item MED/3.14, Materials other than steel for pipes penetrating "A" or "B" Class division, - included in MED/3.26 and MED/3.27.



1	2	3	4	5	6
<p>MED/3.15a Materials other than steel for pipes conveying oil or fuel oil (a) plastic pipes and fittings</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>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, - IMO Res.MSC.97(73)-(2000 HSC Code) 10, - IMO MSC/Circ.1120.</p>	<p>Pipes and fittings: - IMO Res.A.753(18), as amended, - IMO Res.MSC.307(88)-(2010 FTP Code), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/3.15b Materials other than steel for pipes conveying oil or fuel oil (b) valves</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>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, - IMO Res.MSC.97(73)-(2000 HSC Code) 10, - IMO MSC/Circ.1120.</p>	<p>Valves: - EN ISO 10497:2010.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/3.15c Materials other than steel for pipes conveying oil or fuel oil (c) flexible pipe assemblies and compensators</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/4, - SOLAS 74 Reg. X/3.</p> <hr/> <p>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, - IMO Res.MSC.97(73)-(2000 HSC Code) 10, - IMO MSC/Circ.1120.</p>	<p>Flexible pipe assemblies: - EN ISO 15540:2001, - EN ISO 15541:2001.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/3.15d Materials other than steel for pipes conveying oil or fuel oil (d) metallic pipe components with resilient and elastomeric seals</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/4, - SOLAS 74 Reg. X/3.</p> <p>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, - IMO Res.MSC.97(73)-(2000 HSC Code) 10, - IMO MSC/Circ.1120.</p>	<p>Metallic pipe components with resilient and elastomeric seals: - ISO 19921:2005, - ISO 19922:2005.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
MED/3.16 Fire Doors	Type approval requirements - SOLAS 74 Reg. II-2/9.	- IMO Res.MSC.307(88)-(2010 FTP Code), - IMO MSC.1/Circ.1319.	B+D B+E B+F		
	Carriage and performance requirements - SOLAS 74 Reg. II-2/9.				
MED/3.16 Fire Doors	Type approval requirements - SOLAS 74 Reg. II-2/9.	- IMO Res.MSC.307(88)-(2010 FTP Code), as amended, - IMO MSC.1/Circ.1319.	B+D B+E B+F		
	Carriage and performance requirements - SOLAS 74 Reg. II-2/9, - IMO MSC.1/Circ.1511.				



1	2	3	4	5	6
<p>MED/3.17 Fire door control systems components. Note: When the term "system components" is used in column 2 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>Type approval requirements - SOLAS 74 Reg. II-2/9, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. II-2/9, - IMO Res.MSC.97(73)-(2000 HSC Code) 7.</p>	<p>- IMO Res.MSC.307(88)-(2010 FTP Code), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/3.18a Surface materials and floor coverings with low flame-spread characteristics (a) decorative veneers,</p>	<p>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.</p> <hr/> <p>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, - IMO Res.MSC.97(73)-(2000 HSC Code) 7, - IMO MSC/Circ.1120.</p>	<p>- IMO Res.MSC.307(88)-(2010 FTP Code), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
MED/3.18b Surface materials and floor coverings with low flame-spread characteristics (b) paint systems,	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, - IMO Res.MSC.97(73)-(2000 HSC Code) 7, - IMO MSC/Circ.1120.				



1	2	3	4	5	6
<p>MED/3.18c Surface materials and floor coverings with low flame-spread characteristics (c) floor coverings.</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> - SOLAS 74 Reg. II-2/3, - SOLAS 74 Reg. II-2/5, - SOLAS 74 Reg. II-2/6, - SOLAS 74 Reg. X/3. 	<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> <ul style="list-style-type: none"> - 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. 				



1	2	3	4	5	6
<p>MED/3.18d Surface materials and floor coverings with low flame-spread characteristics (d) pipe insulation covers,</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/3, - SOLAS 74 Reg. II-2/5, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. II-2/3, - SOLAS 74 Reg. II-2/5, - IMO Res.MSC.36(63)-(1994 HSC Code) 7, - IMO Res.MSC.97(73)-(2000 HSC Code) 7, - IMO MSC/Circ.1120.</p>	<p>- IMO Res.MSC.307(88)-(2010 FTP Code), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/3.18e Surface materials and floor coverings with low flame-spread characteristics (e) adhesives used in the construction of 'A', 'B' & 'C' class divisions,</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/3, - SOLAS 74 Reg. II-2/5, - SOLAS 74 Reg. II-2/9, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. II-2/3, - SOLAS 74 Reg. II-2/5, - SOLAS 74 Reg. II-2/9, - 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>B+D B+E B+F</p>		



1	2	3	4	5	6
MED/3.18f Surface materials and floor coverings with low flame-spread characteristics (f) combustible ducts membrane	Type approval requirements - SOLAS 74 Reg. II-2/3, - SOLAS 74 Reg. II-2/5, - 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-2/3, - SOLAS 74 Reg. II-2/5, - SOLAS 74 Reg. II-2/9, - IMO Res.MSC.36(63)-(1994 HSC Code) 7, - IMO Res.MSC.97(73)-(2000 HSC Code) 7, - IMO MSC/Circ.1120.				



1	2	3	4	5	6
MED/3.19 Draperies, curtains and other suspended textile materials and films	Type approval requirements - SOLAS 74 Reg. II-2/3, - SOLAS 74 Reg. II-2/9, - SOLAS 74 Reg. X/3.	- IMO Res.MSC.307(88)-(2010 FTP Code), as amended. - IMO MSC.1/Circ.1456, as amended.	B+D B+E B+F		
	Carriage and performance requirements - SOLAS 74 Reg. II-2/3, - SOLAS 74 Reg. II-2/9, - IMO Res.MSC.36(63)-(1994 HSC Code) 7, - IMO Res.MSC.97(73)-(2000 HSC Code) 7.				



1	2	3	4	5	6
MED/3.20 - Upholstered furniture	Type approval requirements - SOLAS 74 Reg. II-2/3, - SOLAS 74 Reg. II-2/5, - 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-2/3, - SOLAS 74 Reg. II-2/5, - SOLAS 74 Reg. II-2/9, - IMO Res.MSC.36(63)-(1994 HSC Code) 7, - IMO Res.MSC.97(73)-(2000 HSC Code) 7.				



1	2	3	4	5	6
MED/3.21 Bedding components	Type approval requirements - SOLAS 74 Reg. II-2/3, - 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-2/3, - SOLAS 74 Reg. II-2/9, - IMO Res.MSC.36(63)-(1994 HSC Code) 7, - IMO Res.MSC.97(73)-(2000 HSC Code) 7.				



1	2	3	4	5	6
MED/3.22 - Fire dampers	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.				

Item MED/3.23, Non combustible duct penetrations through “A” class divisions - Item deliberately left blank.

Item MED/3.24, Electric cable transits through “A” class divisions - Item deliberately left blank.



1	2	3	4	5	6
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.				



1	2	3	4	5	6
MED/3.26a Penetrations through 'A' class divisions (a) 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		12-01-2018 (III)
	Carriage and performance requirements - SOLAS 74 Reg. II-2/9.				
MED/3.26a Penetrations through 'A' class divisions (a) 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	16 March 2017	
	Carriage and performance requirements - SOLAS 74 Reg. II-2/9.				



1	2	3	4	5	6
MED/3.26b Penetrations through 'A' class divisions (b) 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		12-01-2018 (III)
	Carriage and performance requirements - SOLAS 74 Reg. II-2/9, - IMO MSC.1/Circ. 1276.				
MED/3.26b Penetrations through 'A' class divisions (b) 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	16 March 2017	
	Carriage and performance requirements - SOLAS 74 Reg. II-2/9, - IMO MSC.1/Circ. 1276.				



1	2	3	4	5	6
MED/3.27a Penetrations through 'B' class divisions (a) 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.				



1	2	3	4	5	6
MED/3.27b Penetrations through 'B' class divisions (b) pipe, duct, trunk, etc. penetrations.	Type approval requirements - SOLAS 74 Reg. II-2/9. Carriage and performance requirements - SOLAS 74 Reg. II-2/9.	- IMO Res.MSC.307(88)-(2010 FTP Code), as amended.	B+D B+E B+F		



1	2	3	4	5	6
<p>MED/3.28 Sprinkler systems (limited to sprinkler heads). (Nozzles for fixed sprinkler systems, for high speed craft (HSC) are included under this item)</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/7, - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. II-2/7, - 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, - IMO MSC/Circ.912.</p>	<p>- ISO 6182-1:2014. Or, - EN 12259-1:1999 incl. A1:2001, A2:2004 and A3:2006.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
MED/3.29 Fire hoses with diameter <= 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 14540:2004 incl. A1:2007	B+D B+E B+F		31-07-2017 (II)
MED/3.29 Fire-fighting hoses 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	16 March 2017	



1	2	3	4	5	6
MED/3.30 Portable oxygen analysis and gas detection equipment	Type approval requirements - SOLAS 74 Reg. II-2/4, - SOLAS 74 Reg. VI/3,	- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008) or IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - 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 60079-1:2007 incl. IEC 60079-1 Corrigendum 1 (2008), - EN 60079-10-1:2009, - EN 60079-11:2012, - EN 60079-15:2010, - EN 60079-26:2007.	B+D B+E B+F		01-06-2019 (II)
	Carriage and performance requirements - SOLAS 74 Reg. II-2/4, - SOLAS 74 Reg. VI/3, - IMO Res.MSC.98(73)-(FSS Code) 15.				



MED/3.30 Portable oxygen analysis and gas detection equipment	Type approval requirements - SOLAS 74 Reg. II-2/4, - SOLAS 74 Reg. VI/3, - SOLAS 74 Reg. XI-1/7.	- EN 60945:2002 incl. IEC 60945 Corr. 1:2008, or IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 60092-504:2016, - IEC 60533:2015, 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.	B+D B+E B+F	16 March 2017	
	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.				

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.



1	2	3	4	5	6
<p>MED/3.32 Fire restricting materials (except furniture) for high speed craft</p>	<p>Type approval requirements - SOLAS 74 Reg. X/3.</p> <hr/> <p>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 .</p>	<p>- IMO Res.MSC.307(88)-(2010 FTP Code), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
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.				



1	2	3	4	5	6
<p>MED/3.34 Fire resisting divisions for high speed craft</p>	<p>Type approval requirements - SOLAS 74 Reg. X/3.</p> <hr/> <p>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 .</p>	<p>- IMO Res.MSC.307(88)-(2010 FTP Code), as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
MED/3.35 Fire doors 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.				



1	2	3	4	5	6
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.				



1	2	3	4	5	6
MED/3.37a Penetrations through fire resisting divisions on high speed craft (a) electric cable transits,	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 Res.MSC.307(88)-(2010 FTP Code), as amended.	B+D B+E B+F		



1	2	3	4	5	6
<p>MED/3.37b Penetrations through fire resisting divisions on high speed craft (b) pipe, duct, trunk etc. penetrations.</p>	<p>Type approval requirements - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - 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>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/3.38 - Portable fire-extinguishing equipment for lifeboats and rescue boats</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. X/3.</p> <p>Carriage and performance requirements - SOLAS 74 Reg. III/34, - IMO Res.A.951(23), - 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.48(66)-(LSA Code) V, - IMO Res.MSC.97(73)-(2000 HSC Code) 8.</p>	<p>- EN 3-7:2004 incl. A1:2007, - EN 3-8:2006 incl. AC:2007, - EN 3-9:2006 incl. AC:2007, - EN 3-10:2009.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/3.39 Nozzles for equivalent water-mist fire extinguishing systems for machinery spaces and cargo pump rooms</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 7.</p> <hr/> <p>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) 7. - IMO MSC.1/Circ.1313, - IMO MSC.1/Circ.1458.</p>	<p>- IMO MSC/Circ.1165, as amended.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
MED/3.40 Low-location lighting systems (components only)	Type approval requirements - SOLAS 74 Reg. II-2/13, - IMO Res.MSC.98(73)-(FSS Code) 11.	- IMO Res.A.752(18), - ISO 15370:2010.	B+D B+E B+F		
	Carriage and performance requirements - SOLAS 74 Reg. II-2/13, - IMO Res.A.752(18), - IMO Res.MSC.98(73)-(FSS Code) 11.				



1	2	3	4	5	6
MED/3.41 Emergency escape breathing devices (EEBD)	Type approval requirements - SOLAS 74 Reg. II-2/13.	- ISO 23269-1:2008 , and alternatively:	B+D B+E B+F		
	Carriage and performance requirements - SOLAS 74 Reg. II-2/13. - IMO Res.MSC.98(73)-(FSS Code) 3, - IMO MSC/Circ.849.	- For self-contained: open-circuit compressed air breathing apparatus with full mask or mouthed piece assembly for escape:, - EN 402:2003; - For self-contained open-circuit compressed air breathing apparatus with a hood for escape:, - EN 1146:2005; - For self-contained: closed-circuit compressed air breathing apparatus:, - EN 13794:2002.			



1	2	3	4	5	6
MED/3.42 Inert gas systems components	Type approval requirements - SOLAS 74 Reg. II-2/4. <hr/> Carriage and performance requirements - SOLAS 74 Reg. II-2/4. - IMO Res.A.567(14), - IMO Res.MSC.98(73)-(FSS Code) 15, - IMO MSC/Circ.353, - IMO MSC/Circ.485, - IMO MSC/Circ.731, - IMO MSC/Circ.1120.	- IMO MSC/Circ.353, as amended.	B+D B+E B+F G		



1	2	3	4	5	6
<p>MED/3.43 Nozzles for deep fat cooking equipment fire extinguishing systems (automatic or manual type).</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/1, - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. II-2/1, - SOLAS 74 Reg. II-2/10, - IMO Res.MSC.97(73)-(2000 HSC Code) 7, - IMO MSC.1/Circ.1433.</p>	<p>- ISO 15371:2009.</p>	<p>B+D B+E B+F</p>		<p>15-11-2018 (III)</p>
<p>MED/3.43 Nozzles for deep fat cooking equipment fire extinguishing systems (automatic or manual type).</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/1, - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. II-2/1, - SOLAS 74 Reg. II-2/10, - IMO Res.MSC.97(73)-(2000 HSC Code) 7, - IMO MSC.1/Circ.1433.</p>	<p>- ISO 15371:2015.</p>	<p>B+D B+E B+F</p>	<p>16 March 2017</p>	



1	2	3	4	5	6
MED/3.44 Fire-fighters outfit - lifeline	Type approval requirements - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 3.	- IMO Res.MSC.98(73)-(FSS Code) 3, as amended, - IMO Res.MSC.307(88)-(2010 FTP Code), as amended.	B+D B+E B+F		
	Carriage and performance requirements - SOLAS 74 Reg. II-2/10, - 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.				



1	2	3	4	5	6
<p>MED/3.45 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 - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 5.</p> <hr/> <p>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) 5. - IMO MSC/Circ.848, - IMO MSC.1/Circ.1313, - IMO MSC.1/Circ.1316.</p>	<p>- IMO MSC/Circ.848, as amended, - IMO MSC.1/Circ.1316.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/3.46 Equivalent fixed gas fire extinguishing systems for machinery spaces (aerosol systems)</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 5.</p>	<p>- IMO MSC/Circ.1270 incl. Corr.1, as amended.</p>	<p>B+D B+E B+F</p>		
	<p>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) 5. - IMO MSC/Circ.1270 incl. Corr.1, - IMO MSC.1/Circ.1313.</p>				



1	2	3	4	5	6
<p>MED/3.47 Concentrate for fixed high expansion foam fire extinguishing systems for machinery spaces and cargo pump rooms.</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>Type approval requirements - SOLAS 74 Reg. II-2/10.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. II-2/10. - IMO Res.MSC.98(73)-(FSS Code) 6.</p>	<p>- IMO MSC/Circ.670.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/3.48 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 - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3.</p> <hr/> <p>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.</p>	<p>- IMO MSC.1/Circ.1387.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/3.49a Fixed water-based fire-fighting systems for ro-ro spaces, vehicle spaces and special category spaces a) Prescriptive-based systems as per Circ.1430 Clause 4.</p>	<p>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.</p> <p>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, - IMO Res.MSC.97(73)-(2000 HSC Code) 7, - IMO Res.MSC.98(73)-(FSS Code) 7.</p>	<p>- IMO MSC.1/Circ.1430.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/3.49b Fixed waterbased firefighting systems for ro-ro spaces, vehicle spaces and special category spaces b) Performance-based systems as per Circ. 1430 Clause 5.</p>	<p>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.</p> <hr/> <p>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, - IMO Res.MSC.97(73)-(2000 HSC Code) 7, - IMO Res.MSC.98(73)-(FSS Code) 7.</p>	<p>- IMO MSC.1/Circ.1430.</p>	<p>B+D B+E B+F</p>		

Item MED/3.50, Protective clothing resistant to chemical attack - Item deliberately left blank.



1	2	3	4	5	6
<p>MED/3.51a Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: (a) Control and indicating equipment</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/7, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 9.</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>- Control and indicating equipment. Electrical installations in ships: - EN 54-2:1997 incl. AC:1999 and A1:2006.</p> <p>And, as applicable, electrical and electronic installations in ships: - IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011, - IEC 60533:1999.</p>	<p>B+D B+E B+F</p>		<p>01-06-2019 (III)</p>
<p>MED/3.51a Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: (a) Control and indicating equipment</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/7, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 9.</p> <p>Carriage and performance requirements - SOLAS 74 Reg. II-2/7, - IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p>	<p>- Control and indicating equipment. Electrical installations in ships: - EN 54-2:1997 incl. AC:1999 and A1:2006.</p> <p>And, as applicable, electrical and electronic installations in ships: - IEC 60092-504:2016, - IEC 60533:2015.</p>	<p>B+D B+E B+F</p>	<p>16 March 2017</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 MSC.1/Circ.1242,- IMO MSC.1/Circ.1487.				
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1	2	3	4	5	6
<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: (b) Power supply equipment,</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/7, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 9.</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>- Power supply equipment: - EN 54-4:1997 incl. AC:1999, A1:2002 and A2:2006. And, as applicable, electrical and electronic installations in ships: - IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011, - IEC 60533:1999.</p>	<p>B+D B+E B+F</p>		<p>01-06-2019 (III)</p>
<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: (b) Power supply equipment,</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/7, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 9.</p> <p>Carriage and performance requirements - SOLAS 74 Reg. II-2/7, - IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p>	<p>- Power supply equipment: - 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.</p>	<p>B+D B+E B+F</p>	<p>16 March 2017</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 MSC.1/Circ.1242.				
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1	2	3	4	5	6
<p>MED/3.51c Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: (c) Heat detectors - Point detectors,</p>	<p>Type approval requirements - 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 - 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>- Heat detectors - Point detectors: - EN 54-5:2000 incl. A1:2002. And, as applicable, electrical and electronic installations in ships: - IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011, - IEC 60533:1999.</p>	<p>B+D B+E B+F</p>		<p>01-06-2019 (III)</p>
<p>MED/3.51c Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: (c) Heat detectors - Point detectors,</p>	<p>Type approval requirements - 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 - SOLAS 74 Reg. II-2/7, - IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p>	<p>Heat detectors - Point detectors: - EN 54-5:2000 incl. A1:2002. And, as applicable, electrical and electronic installations in ships: - IEC 60092-504:2016, - IEC 60533:2015.</p>	<p>B+D B+E B+F</p>	<p>16 March 2017</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 MSC.1/Circ.1242.				
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1	2	3	4	5	6
<p>MED/3.51d Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: (d) Smoke detectors: Point detectors using scattered light, transmitted light or ionization,</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/7, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 9.</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>- Smoke detectors - Point detectors using scattered light, transmitted light or ionisation: - EN 54-7:2000 incl. A1:2002 and A2:2006.</p> <p>And, as applicable, electrical and electronic installations in ships: - IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011, - IEC 60533:1999.</p>	<p>B+D B+E B+F</p>		<p>01-06-2019 (III)</p>
<p>MED/3.51d Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: (d) Smoke detectors: Point detectors using scattered light, transmitted light or ionization,</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/7, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 9.</p> <p>Carriage and performance requirements - SOLAS 74 Reg. II-2/7, - IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p>	<p>- Smoke detectors - Point detectors using scattered light, transmitted light or ionisation:., - EN 54-7:2015.</p> <p>And, as applicable, electrical and electronic installations in ships: - IEC 60092-504:2016, - IEC 60533:2015.</p>	<p>B+D B+E B+F</p>	<p>16 March 2017</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 MSC.1/Circ.1242.				
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1	2	3	4	5	6
<p>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: (e) Flame detectors: Point detectors,</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/7, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 9.</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>- Flame detectors - Point detectors: - 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.</p>	<p>B+D B+E B+F</p>		<p>01-06-2019 (III)</p>
<p>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: (e) Flame detectors: Point detectors,</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/7, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 9.</p> <p>Carriage and performance requirements - SOLAS 74 Reg. II-2/7, - IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p>	<p>- Flame detectors - Point detectors:, - EN 54-10:2002 incl. A1:2005, And, as applicable, electrical and electronic installations in ships: - IEC 60092-504:2016, - IEC 60533:2015.</p>	<p>B+D B+E B+F</p>	<p>16 March 2017</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 MSC.1/Circ.1242.				
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1	2	3	4	5	6
<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: (f) Manual call points,</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/7, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 9.</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>- Manual call points: - EN 54-11:2001 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.</p>	<p>B+D B+E B+F</p>		<p>01-06-2019 (III)</p>
<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: (f) Manual call points,</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/7, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 9.</p> <p>Carriage and performance requirements - SOLAS 74 Reg. II-2/7, - IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p>	<p>- Manual call points: - EN 54-11:2001 incl. A1:2005. And, as applicable, electrical and electronic installations in ships: - IEC 60092-504:2016, - IEC 60533:2015.</p>	<p>B+D B+E B+F</p>	<p>16 March 2017</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 MSC.1/Circ.1242.				
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1	2	3	4	5	6
<p>MED/3.51g Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: (g) Short circuit isolators,</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/7, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 9.</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>- Short circuit isolators: - EN 54-17:2007 incl. AC:2007. And, as applicable, electrical and electronic installations in ships: - IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011, - IEC 60533:1999.</p>	<p>B+D B+E B+F</p>		<p>01-06-2019 (III)</p>
<p>MED/3.51g Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: (g) Short circuit isolators,</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/7, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 9.</p> <p>Carriage and performance requirements - SOLAS 74 Reg. II-2/7, - IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p>	<p>- Short circuit isolators: - EN 54-17:2007 incl. AC:2007. And, as applicable, electrical and electronic installations in ships: - IEC 60092-504:2016, - IEC 60533:2015.</p>	<p>B+D B+E B+F</p>	<p>16 March 2017</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 MSC.1/Circ.1242.				
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1	2	3	4	5	6
<p>MED/3.51h Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: (h) Input/output devices,</p>	<p>Type approval requirements - 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 - 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>- Input/output devices: - EN 54-18 (2005) including AC(2007). And, as applicable, electrical and electronic installations in ships: - IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011, - IEC 60533:1999.</p>	<p>B+D B+E B+F</p>		<p>01-06-2019 (III)</p>
<p>MED/3.51h Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: (h) Input/output devices,</p>	<p>Type approval requirements - 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 - SOLAS 74 Reg. II-2/7, - IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p>	<p>- Input/output devices: - EN 54-18:2005 incl. AC:2007. And, as applicable, electrical and electronic installations in ships: - IEC 60092-504:2016, - IEC 60533:2015.</p>	<p>B+D B+E B+F</p>	<p>16 March 2017</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 MSC.1/Circ.1242.				
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1	2	3	4	5	6
<p>MED/3.51i Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: (i) Cables.</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/7, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 9.</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>- Cables:; - EN 60332-1-2:2004, - IEC 60092-376:2003, And, as applicable, electrical and electronic installations in ships:; - IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011, - IEC 60533:1999.</p>	<p>B+D B+E B+F</p>		<p>01-06-2019 (III)</p>
<p>MED/3.51i Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: (i) Cables.</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/7, - SOLAS 74 Reg. X/3, - IMO Res.MSC.98(73)-(FSS Code) 9.</p> <p>Carriage and performance requirements - SOLAS 74 Reg. II-2/7, - IMO Res.MSC.36(63)-(1994 HSC Code) 7,</p>	<p>- Cables: - EN 60332-1-2:2004, - IEC 60092-376:2003. And, as applicable, electrical and electronic installations in ships: - IEC 60092-504:2016, - IEC 60533:2015.</p>	<p>B+D B+E B+F</p>	<p>16 March 2017</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 MSC.1/Circ.1242.				
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1	2	3	4	5	6
<p>MED/3.52 Non-portable and transportable fire extinguishers</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3.</p> <hr/> <p>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)-(2000 HSC Code) 7.</p>	<p>- EN 1866-1:2007,- - EN 1866-3:2013, Or, - ISO 11601:2008.</p>	<p>B+D B+E B+F</p>		
<p>MED/3.52 Non-portable and transportable fire extinguishers</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3.</p> <hr/> <p>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)-(2000 HSC Code) 7.</p>	<p>- EN 1866-1:2007 , - EN 1866-2:2014. Or, - EN 1866-1:2007, - EN 1866-3:2013. Or, - ISO 11601:2008.</p>	<p>B+D B+E B+F</p>	<p>16 March 2017</p>	



1	2	3	4	5	6
MED/3.53 Fire alarm devices - Sounders	<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. <hr/> <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. 	Sounders: <ul style="list-style-type: none"> - EN 54-3:2001 incl. A1:2002 and A2:2006, - IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011, - IEC 60533:1999. 	B+D B+E B+F		01-06-2019 (III)
MED/3.53 Fire alarm devices - Sounders	<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. <hr/> <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, 	Sounders: <ul style="list-style-type: none"> - EN 54-3:2014, - IEC 60092-504:2016, - IEC 60533:2015. 	B+D B+E B+F	16 March 2017	



	<ul style="list-style-type: none">- IMO Res.MSC.97(73)-(2000 HSC Code) 7,- IMO Res.MSC.98(73)-(FSS Code) 9.- IMO MSC.1/Circ.1242,- IMO MSC.1/Circ.1487 .				
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1	2	3	4	5	6
MED/3.54 Fixed oxygen analysis and gas detection equipment	Type approval requirements - SOLAS 74 Reg. II-2/4, - SOLAS 74 Reg. VI/3.	- IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011, - IEC 60533:1999.	B+D B+E B+F		01-06-2019 (III)
	Carriage and performance requirements - 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.	And, as applicable, to: - 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 60079-29-1:2007. For combined O2/HC systems, additionally: - IMO MSC.1/Circ.1370.			
MED/3.54 Fixed oxygen analysis and gas detection equipment	Type approval requirements - SOLAS 74 Reg. II-2/4, - SOLAS 74 Reg. VI/3.	- IEC 60092-504:2016, - IEC 60533:2015.	B+D B+E B+F	16 March 2017	
	Carriage and performance requirements - SOLAS 74 Reg. II-2/4, - SOLAS 74 Reg. VI/3. - IMO Res.MSC.98(73)-(FSS Code) 15,	And as applicable to: - a) Category 4: (safe area), - EN 50104:2010, - b) Category 3: (explosive gas atmospheres), - EN 50104:2010, - EN 60079-0:2012 incl. A11:2013,			



	<p>- for combined O2/HC systems additionally, - IMO MSC.1/Circ.1370.</p>	<p>- EN 60079-29-1:2007. For combined O2/HC systems, additionally: - IMO MSC.1/Circ.1370.</p>			
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1	2	3	4	5	6
MED/3.55 Dual purpose type nozzles (spray/jet type)	Type approval requirements - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3.	- 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, - 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.	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.				
MED/3.55 Dual purpose type nozzles (spray/jet type)	Type approval requirements - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3.	- 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, - 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.	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.				



1	2	3	4	5	6
MED/3.56 Fixed firefighting hose systems Hose reels with semi-rigid hose	Type approval requirements - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3.	- EN 671-1:2012	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.				



1	2	3	4	5	6
<p>MED/3.57 Medium Expansion Foam Fire Extinguishing Systems components - Fixed Deck Foam for Tankers</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/10.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. II-2/10.8.1, - IMO Res.MSC.98(73)-(FSS Code) 14, - IMO MSC/Circ.1239, - IMO MSC.1/Circ.1276.</p>	<p>- IMO MSC/Circ.798.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/3.58 Fixed Low Expansion Foam Fire Extinguishing Systems Components for Machinery Spaces and Tanker Deck Protection.</p>	<p>Type approval requirements - SOLAS 74 Reg. II-2/10.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. II-2/10. - IMO Res.MSC.98(73)-(FSS Code) 6, - IMO Res.MSC.98(73)-(FSS Code) 14, - IMO MSC/Circ.1239, - IMO MSC.1/Circ.1276.</p>	<p>- IMO MSC.1/Circ.1312, - IMO MSC.1/Circ.1312/Corr.1.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
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.				



1	2	3	4	5	6
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		
	Carriage and performance requirements - SOLAS 74 Reg. II-2/10, - IMO Res.MSC.98(73)-(FSS Code) 7. - IMO MSC.1/Circ.1313.				



1	2	3	4	5	6
<p>MED/3.61a a) 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 - SOLAS 74 Reg. II-2/10.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. II-2/10. - IMO Res.MSC.98(73)-(FSS Code) 6.</p>	<p>- IMO MSC.1/Circ.1384.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/3.61b b) 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 - SOLAS 74 Reg. II-2/10.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. II-2/10. - IMO Res.MSC.98(73)-(FSS Code) 6.</p>	<p>- IMO MSC.1/Circ.1384.</p>	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
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.				



1	2	3	4	5	6
MED/3.63 Sample extraction smoke detection systems components	Type approval 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. And for: - Control and indicating equipment. Electrical installations in ships: - EN 54-2:1997 incl. AC:1999 and A1:2006; - 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 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011, - IEC 60533:1999. And, as applicable for explosive atmospheres: - EN 60079-0:2012 incl. A11:2013.	B+D B+E B+F		01-06-2019 (III)
	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/3.63 Sample extraction smoke detection systems components	Type approval 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. And for: - Control and indicating equipment. Electrical installations in ships:	B+D B+E B+F	16 March 2017	
	Carriage and performance requirements				



	<ul style="list-style-type: none"> - 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. 	<ul style="list-style-type: none"> - EN 54-2:1997 incl. AC:1999 and A1:2006; - 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. <p>And, as applicable, electrical and electronic installations in ships:</p> <ul style="list-style-type: none"> - IEC 60092-504:2016 - IEC 60533:2015 <p>And, as applicable for explosive atmospheres:</p> <ul style="list-style-type: none"> - EN 60079-0:2012 incl. A11:2013. 			
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1	2	3	4	5	6
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-2/9.				



1	2	3	4	5	6
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		01-06-2019 (III)
	Carriage and performance requirements - SOLAS 74 Reg. II-2/4. - IMO Res.MSC.98(73)-(FSS Code) 16, - IMO MSC.1/Circ.1370.				
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 60092-504:2016, - IEC 60533:2015.	B+D B+E B+F	16 March 2017	
	Carriage and performance requirements - SOLAS 74 Reg. II-2/4. - IMO Res.MSC.98(73)-(FSS Code) 16, - IMO MSC.1/Circ.1370.				



1	2	3	4	5	6
MED/3.66 Evacuation guidance systems used as an alternative to low-location lighting systems	Type approval requirements - SOLAS 74 Reg. II-2/13. <hr/> Carriage and performance requirements - SOLAS 74 Reg. II-2/13. - IMO MSC.1/Circ.1168.	- IMO MSC.1/Circ.1168.	B+D B+E B+F		



1	2	3	4	5	6
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		
	Carriage and performance requirements - SOLAS 74 Reg. II-2/18. - IMO MSC.1/Circ.1431.				



1	2	3	4	5	6
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 Galley Exhaust Duct Fixed Fire Extinguishing Systems components	Type approval requirements - SOLAS 74 Reg. II-2/9.	- ISO 15371:2015.	B+D B+E B+F	16 March 2017	
	Carriage and performance requirements - SOLAS 74 Reg. II-2/9.				



1	2	3	4	5	6
<p>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</p> <p>(new item)</p>	<p>Type approval requirements - SOLAS 74 Reg.II-2/10.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg.II-2/10. - MSC.1/Circ.1472.</p>	<p>- MSC.1/Circ.1472.</p>	<p>B+D B+E B+F</p>	<p>16 March 2017</p>	



1	2	3	4	5	6
MED/3.70 Fire-fighting hoses Semi-rigid hoses for fixed systems (new item)	Type approval requirements - SOLAS 74 Reg. II-2/10, - SOLAS 74 Reg. X/3. - IMO Res.MSC.36(63)-(1994 HSC Code) 7, - IMO Res.MSC.97(73)-(2000 HSC Code) 7. 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 694 (2014).	B+D B+E B+F	16 March 2017	



1	2	3	4	5	6
MED/3.71 Fixed firefighting hose systems Hose systems with lay-flat hose (new item)	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 671-2:2012.	B+D B+E B+F	16 March 2017	



4: Navigation equipment

Notes applicable to section 4: Navigation equipment.

Column 2: 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.

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
MED/4.1 Magnetic compass Class A for ships	Type approval requirements - SOLAS 74 Reg. V/18, - SOLAS 74 Reg. X/3, Carriage and performance requirements - SOLAS 74 Reg. V/19, - 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, - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), Or, - ISO 1069:1973, - ISO 25862:2009, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008).	B+D B+E B+F G		



1	2	3	4	5	6
<p>MED/4.2 Transmitting heading device THD (magnetic method)</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> - 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. <hr/> <p>Carriage and performance requirements</p> <ul style="list-style-type: none"> - 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). 	<ul style="list-style-type: none"> - ISO 22090-2:2014, - 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. <p>Or,</p> <ul style="list-style-type: none"> - ISO 22090-2:2014, - 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. 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>B+D B+E B+F G</p>		



1	2	3	4	5	6
MED/4.3 Gyro compass	Type approval requirements - SOLAS 74 Reg. V/18.	- ISO 8728:1998, - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series, - IEC 62288 Ed. 2.0 (2014-07) Or, - ISO 8728:1997, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series, - IEC 62288 Ed. 2.0 (2014-07).	B+D B+E B+F G		25 July 2017 (III)
	Carriage and performance requirements - SOLAS 74 Reg. V/19, - IMO Res.A.424(XI), - IMO Res.A.694(17), - IMO Res.MSC.191(79).				
MED/4.3 Gyro compass	Type approval requirements - SOLAS 74 Reg. V/18.	- ISO 8728:2014, - 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. Or, - ISO 8728:2014, - 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) 	B+D B+E B+F G	16 March 2017	
	Carriage and performance requirements - SOLAS 74 Reg. V/19, - IMO Res.A.424(XI), - IMO Res.A.694(17), - IMO Res.MSC.191(79), - IMO Res.MSC.302(87).				



		<ul style="list-style-type: none"> • 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>- IEC 62288 Ed. 2.0 (2014-07).</p>			
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Item MED/4.4, Radar equipment, - moved to MED/4.34, MED/4.35 and MED/4.3.6

Item MED/4.5. Automatic radar plotting aid (ARPA), - moved to MED/4.34.



1	2	3	4	5	6
<p>MED/4.6 Echo-sounding equipment</p>	<p>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.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. V/19, - IMO Res.A.224(VII), - 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.74(69) Annex 4, - IMO Res.MSC.302(87).</p>	<p>- EN ISO 9875:2001 incl. ISO Technical Corr. 1:2006, - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 62288:2014. Or, - ISO 9875:2000 incl. ISO Technical Corr. 1:2006 , - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 62288 Ed. 2.0 (2014-07).</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/4.7 Speed and distance measuring equipment (SDME)</p>	<p>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.</p> <hr/> <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, - IMO Res.MSC.97(73)-(2000 HSC Code) 13. - IMO Res.MSC.191(79), - IMO Res.MSC.302(87).</p>	<p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61023:2007, - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 62288:2014, Or, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61023 (2007), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 62288 Ed. 2.0 (2014-07).</p>	<p>B+D B+E B+F G</p>		

Item MED/4.8, Rudder angle, rpm, pitch indicator, - moved to items MED/4.20, MED/4.21 and MED/4.22.



1	2	3	4	5	6
<p>MED/4.9 Rate-of-turn indicator</p>	<p>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.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. V/19, - 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).</p>	<p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- ISO 20672:2007 incl Corr 1 (2008), - EN 62288:2014, Or, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- ISO 20672:2007 incl Corr 1 (2008), - IEC 62288 Ed. 2.0 (2014-07).</p>	<p>B+D B+E B+F G</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.



1	2	3	4	5	6
<p>MED/4.14 GPS equipment</p>	<p>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.</p> <hr/> <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)-(2000 HSC Code) 13. - IMO Res.MSC.112(73), - IMO Res.MSC.191(79), - IMO Res.MSC.302(87).</p>	<p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61108-1:2003, - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 62288:2014. Or, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61108-1 Ed. 2.0 (2003), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 62288 Ed. 2.0 (2014-07).</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/4.15 GLONASS equipment</p>	<p>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.</p> <hr/> <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)-(2000 HSC Code) 13 - IMO Res.MSC.113(73), - IMO Res.MSC.191(79), - IMO Res.MSC.302(87).</p>	<p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61108-2:1998, - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 62288:2014, Or, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61108-2 Ed. 1.0 (1998), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 62288 Ed. 2.0 (2014-07).</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/4.16 Heading control system (HCS)</p>	<p>Type approval requirements - SOLAS 74 Reg. V/18.</p> <hr/> <p>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).</p>	<p>- ISO 11674:2006, - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 62288:2014. Or, - ISO 11674:2006, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 62288 Ed. 2.0 (2014-07).</p>	<p>B+D B+E B+F G</p>		

Item MED/4.17, Mechanical pilot hoist, - moved to MED/1.40.



1	2	3	4	5	6
<p>MED/4.18 Search and rescue locating devices (SRLD): 9 GHz SAR transponder (SART)</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> - SOLAS 74 Reg. III/4, - SOLAS 74 Reg. IV/14, - 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. <hr/> <p>Carriage and performance requirements</p> <ul style="list-style-type: none"> - 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, - IMO Res.MSC.36(63)-(1994 HSC Code) 14, - IMO Res.MSC.97(73)-(2000 HSC Code) 8, - IMO Res.MSC.97(73)-(2000 HSC Code) 14, - ITU-R M.628-5 (03/2012), - IMO Res.MSC.302(87). 	<ul style="list-style-type: none"> - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61097-1:2007. <p>Or,</p> <ul style="list-style-type: none"> - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61097-1 (2007). 	<p>B+D B+E B+F G</p>		

Item MED/4.19, Radar equipment for high speed craft, - moved to MED /4.37.



1	2	3	4	5	6
<p>MED/4.20 Rudder angle indicator</p>	<p>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.</p> <hr/> <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)-(2000 HSC Code) 13. - IMO Res.MSC.191(79), - IMO Res.MSC.302(87).</p>	<p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 62288:2014, - ISO 20673:2007. Or, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 62288 Ed. 2.0 (2014-07), - ISO 20673:2007.</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
MED/4.21 Propeller revolution indicator	<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)-(2000 HSC Code) 13. <hr/> <p>Carriage and performance requirements</p> <ul style="list-style-type: none"> - 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). 	<ul style="list-style-type: none"> - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series, - IEC 62288 Ed. 2.0 (2014-07), - ISO 22554:2007. <p>Or,</p> <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), - ISO 22554:2007. 	B+D B+E B+F G		15-03-2018 (I)
MED/4.21 Propeller revolution indicator	<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)-(2000 HSC Code) 13. <hr/> <p>Carriage and performance requirements</p> <ul style="list-style-type: none"> - SOLAS 74 Reg. V/19, - IMO Res.A.694(17), - IMO Res.MSC.36(63)-(1994 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, - ISO 22554:2015. <p>Or,</p> <ul style="list-style-type: none"> - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), 	B+D B+E B+F G	16 March 2017	



	<ul style="list-style-type: none"> - IMO Res.MSC.97(73)-(2000 HSC Code) 13. - IMO Res.MSC.191(79), - IMO Res.MSC.302(87). 	<ul style="list-style-type: none"> - 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. 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 22554:2015. 			
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1	2	3	4	5	6
<p>MED/4.22 Pitch indicator</p>	<p>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.</p> <hr/> <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)-(2000 HSC Code) 13. - IMO Res.MSC.191(79), - IMO Res.MSC.302(87).</p>	<p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 62288:2014, - ISO 22555:2007. Or, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- ISO 22555:2007, - IEC 62288 Ed. 2.0 (2014-07).</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/4.23 Compass for lifeboats and rescue boats</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - 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>Carriage and performance requirements - SOLAS 74 Reg. III/34, - IMO Res.MSC.48(66)-(LSA Code) IV, - IMO Res.MSC.48(66)-(LSA Code) V, - IMO Res.MSC.36(63)-(1994 HSC Code) 8, - IMO Res.MSC.36(63)-(1994 HSC Code) 13, - IMO Res.MSC.97(73)-(2000 HSC Code) 8, - IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<p>- ISO 1069:1973, - ISO 25862:2009, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008).</p>	<p>B+D B+E B+F G</p>		
<p>MED/4.23 Magnetic compass Class B for lifeboats and rescue boats</p>	<p>Type approval requirements - SOLAS 74 Reg. III/4, - 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 1069:1973, - ISO 25862:2009, - 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> <ul style="list-style-type: none"> - SOLAS 74 Reg. III/34, - IMO Res.MSC.48(66)-(LSA Code) IV, - IMO Res.MSC.48(66)-(LSA Code) V, - IMO Res.MSC.36(63)-(1994 HSC Code) 8, - IMO Res.MSC.36(63)-(1994 HSC Code) 13, - IMO Res.MSC.97(73)-(2000 HSC Code) 8, - IMO Res.MSC.97(73)-(2000 HSC Code) 13. 				
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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.



1	2	3	4	5	6
<p>MED/4.29 Voyage data recorder (VDR)</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> - SOLAS 74 Reg. V/18, - SOLAS 74 Reg. V/20, - SOLAS 74 Reg. X/3, - IMO Res.MSC.36(63)-(1994 HSC Code) 13, - IMO Res.MSC.97(73)-(2000 HSC Code) 13. <hr/> <p>Carriage and performance requirements</p> <ul style="list-style-type: none"> - SOLAS 74 Reg. V/20, - 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). 	<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 61996-1:2013 incl. IEC 61996-1 Corr.1 (2014), - EN 62288:2014. <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 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 61996-1 Ed. 2.0 (2013-05) incl. IEC 61996-1 Corr.1 (2014), - IEC 62288 Ed. 2.0 (2014-07). 	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/4.30 Electronic chart display and information system (ECDIS) with backup, and raster chart display system (RCDS)</p>	<p>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.</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)-(2000 HSC Code) 13. - IMO Res.MSC.191(79), - IMO Res.MSC.232(82), - IMO SN.1/Circ.266, [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>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series, - EN 61174 (2008), - IEC 62288 Ed. 2.0 (2014-07). Or, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series, - IEC 61174 (2008), - IEC 62288 Ed. 2.0 (2014-07).</p>	<p>B+D B+E B+F G</p>		<p>31-08-2017 (I)</p>
<p>MED/4.30 Electronic chart display and information system (ECDIS) with backup, and raster chart display system (RCDS)</p>	<p>Type approval requirements - SOLAS 74 Reg. V/18, - SOLAS 74 Reg. X/3, - IMO Res.MSC.36(63)-(1994 HSC Code) 13,</p>	<p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series: • EN 61162-1 (2011)</p>	<p>B+D B+E B+F G</p>	<p>16 March 2017</p>	



	<p>- IMO Res.MSC.97(73)-(2000 HSC Code) 13.</p>	<ul style="list-style-type: none"> • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), 			
	<p>Carriage and performance requirements</p> <ul style="list-style-type: none"> - 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.232(82), - IMO Res.MSC.302(87), - IMO SN.1/Circ.266. <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>	<ul style="list-style-type: none"> - EN 61174:2015, - EN 62288:2014. <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 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 61174 Ed. 4.0 (2015), - IEC 62288 Ed. 2.0 (2014-07). 			



1	2	3	4	5	6
<p>MED/4.31 Gyro compass for high-speed craft</p>	<p>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.</p> <hr/> <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), - IMO MSC.1/Circ.1349.</p>	<p>- ISO 16328:2014, - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 62288:2014. Or, - ISO 16328:2014, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 62288 Ed. 2.0 (2014-07).</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/4.32 Universal automatic identification system equipment (AIS)</p>	<p>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.</p> <hr/> <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)-(2000 HSC Code) 13.- IMO Res.MSC.74(69), - IMO Res.MSC.191(79), - 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>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 61993-2:2013, - EN 62288:2014.</p> <p>Or,</p> <p>- IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 61993-2 (2012), - IEC 62288 Ed. 2.0 (2014-07).</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/4.33 Track control system (working at ship's speed from minimum manoeuvring speed up to 30 knots)</p>	<p>Type approval requirements - SOLAS 74 Reg. V/18.</p> <hr/> <p>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>	<p>- EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 62065 (2014), - EN 62288:2014.</p> <p>Or,</p> <p>- IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 62065 Ed. 2.0 (2014-02), - IEC 62288 Ed. 2.0 (2014-07)._</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/4.34 Radar equipment CAT 1</p>	<p>Type approval requirements - SOLAS 74 Reg. V/18.</p> <hr/> <p>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).</p>	<p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 62288:2014, - EN 62388:2013. Or, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 62288 Ed. 2.0 (2014-07), - IEC 62388 Ed. 2.0 (2013-06).</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/4.35 Radar equipment CAT 2</p>	<p>Type approval requirements - SOLAS 74 Reg. V/18.</p> <hr/> <p>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).</p>	<p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 62388:2013, - EN 62288:2014. Or, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 62388 Ed. 2.0 (2013-06), - IEC 62288 Ed. 2.0 (2014-07).</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/4.36 Radar equipment CAT 3</p>	<p>Type approval requirements - SOLAS 74 Reg. V/18.</p> <hr/> <p>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).</p>	<p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 62288:2014, - EN 62388:2013, Or, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 62288 Ed. 2.0 (2014-07), - IEC 62388 Ed. 2.0 (2013-06).</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/4.37 Radar equipment for high speed craft applications (CAT 1H and CAT 2H)</p>	<p>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.</p> <hr/> <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.- 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).</p>	<p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 62288:2014, - EN 62388:2013, Or, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 62288 Ed. 2.0 (2014-07), - IEC 62388 Ed. 2.0 (2013-06).</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/4.38a Radar equipment approved with a chart option, namely: (a) CAT 1C,</p>	<p>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.</p> <hr/> <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. - IMO Res.MSC.191(79), - IMO Res.MSC.192(79), - IMO Res.MSC.302(87), - ITU-R M.1177-4 (04/11).</p>	<p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 62288:2014, - EN 62388:2013. Or, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 62288 Ed. 2.0 (2014-07), - IEC 62388 Ed. 2.0 (2013-06).</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/4.38b Radar equipment approved with a chart option, namely: (b) CAT 2C,</p>	<p>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.</p> <hr/> <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. - IMO Res.MSC.191(79), - IMO Res.MSC.192(79), - IMO Res.MSC.302(87), - ITU-R M.1177-4 (04/11).</p>	<p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 62288:2014, - EN 62388:2013. Or, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 62288 Ed. 2.0 (2014-07), - IEC 62388 Ed. 2.0 (2013-06).</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/4.38c Radar equipment for high speed craft applications approved with a chart option, namely: (c) CAT 1HC</p>	<p>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.</p> <hr/> <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. - 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.</p>	<p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 62288:2014, - EN 62388:2013. Or, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 62288 Ed. 2.0 (2014-07), - IEC 62388 Ed. 2.0 (2013-06).</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/4.38d Radar equipment for high speed craft applications approved with a chart option, namely: (d) CAT 2HC</p>	<p>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.</p> <hr/> <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. - IMO Res.MSC.191(79), - IMO Res.MSC.192(79), - IMO Res.MSC.302(87), - IMO MSC.1/Circ.1349, - ITU-R M.1177-4 (04/11).</p>	<p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 62288:2014, - IEC 62388 Ed. 2.0 (2013-06). Or, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 62288 Ed. 2.0 (2014-07), - EN 62388:2013.</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/4.39 Radar reflector - passive type</p>	<p>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.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. V/19, - IMO Res.MSC.36(63)-(1994 HSC Code) 13, - IMO Res.MSC.97(73)-(2000 HSC Code) 13. - IMO Res.MSC.164(78).</p>	<p>- ISO 8729-1:2010, - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008). Or, - ISO 8729-1:2010, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008).</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/4.40 Heading control system for high speed craft</p>	<p>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.</p>	<p>- ISO 16329:2003, - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 62288:2014. Or, - ISO 16329:2003, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 62288 Ed. 2.0 (2014-07).</p>	<p>B+D B+E B+F G</p>		
	<p>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.</p>				



1	2	3	4	5	6
<p>MED/4.41 Transmitting heading device THD (GNSS method)</p>	<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)-(2000 HSC Code) 13. 	<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. <p>Or,</p> <ul style="list-style-type: none"> - ISO 22090-3:2014, - 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. 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>B+D B+E B+F G</p>		
	<p>Carriage and performance requirements</p> <ul style="list-style-type: none"> - 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). 				



1	2	3	4	5	6
<p>MED/4.42 Searchlight for high speed craft</p>	<p>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.</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>	<p>- ISO 17884:2004, - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008). Or, - ISO 17884:2004, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008).</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/4.43 Night vision equipment for high speed craft</p>	<p>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.</p> <p>Carriage and performance requirements - 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).</p>	<p>- ISO 16273:2003, - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 62288 Ed. 2.0 (2014-07). Or, - ISO 16273:2003, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 62288 Ed. 2.0 (2014-07).</p>	<p>B+D B+E B+F G</p>		<p>26-03-2017 (III)</p>
<p>MED/4.43 Night vision equipment for high speed craft</p>	<p>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.</p> <p>Carriage and performance requirements - 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).</p>	<p>- ISO 16273:2003, - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 62288:2014. Or, - ISO 16273:2003, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 62288 Ed. 2.0 (2014-07).</p>	<p>B+D B+E B+F G</p>		





1	2	3	4	5	6
<p>MED/4.44 Differential beacon receiver for DGPS and DGLONASS Equipment</p>	<p>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.</p> <hr/> <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)-(2000 HSC Code) 13. - IMO Res.MSC.114(73).</p>	<p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61108-4 (2004), - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>Or, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61108-4 (2004), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06). 	<p>B+D B+E B+F G</p>		

Item MED/4.45, Chart facilities for shipborne radar - intentionally left blank, as it is covered by MED/4.38.



1	2	3	4	5	6
<p>MED/4.46 Transmitting heading device THD (Gyroscopic method)</p>	<p>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.</p> <hr/> <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)-(2000 HSC Code) 13. - IMO Res.MSC.116(73), - IMO Res.MSC.191(79), - IMO Res.MSC.302(87).</p>	<p>- ISO 22090-1:2014, - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 62288:2014, Or, - ISO 22090-1:2014, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008),</p> <p>- IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 62288 Ed. 2.0 (2014-07).</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
<p>MED/4.47 Simplified voyage data recorder (S-VDR)</p>	<p>Type approval requirements - SOLAS 74 Reg. V/20.</p> <hr/> <p>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>	<p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 61996-2:2008, - EN 62288:2014.</p> <p>Or,</p> <p>- IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 61996-2 (2007), - IEC 62288 Ed. 2.0 (2014-07).</p>	<p>B+D B+E B+F G</p>		

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")





1	2	3	4	5	6
MED/4.49 Pilot ladder	Type approval requirements - SOLAS 74 Reg. V/23, - SOLAS 74 Reg. X/3. Carriage and performance requirements - SOLAS 74 Reg. V/23, - IMO Res. A.1045(27), - IMO MSC/Circ.1428.	- IMO Res. A.1045(27), - ISO 799:2004.	B+D B+E B+F G		



1	2	3	4	5	6
<p>MED/4.50 DGPS Equipment</p>	<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)-(2000 HSC Code) 13. <hr/> <p>Carriage and performance requirements</p> <ul style="list-style-type: none"> - 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.112(73), - IMO Res.MSC.114(73), - IMO Res.MSC.191(79), - IMO Res.MSC.302(87). 	<ul style="list-style-type: none"> - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61108-1:2003, - EN 61108-4:2004, - 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. <p>Or,</p> <ul style="list-style-type: none"> - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61108-1 (2003), - IEC 61108-4 (2004), - 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. 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>B+D B+E B+F G</p>		



1	2	3	4	5	6
MED/4.51 DGLONASS Equipment	<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)-(2000 HSC Code) 13. <hr/> <p>Carriage and performance requirements</p> <ul style="list-style-type: none"> - 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.113(73), - IMO Res.MSC.114(73), - IMO Res.MSC.191(79), - IMO Res.MSC.302(87). 	<ul style="list-style-type: none"> - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61108-2:1998, - EN 61108-4:2004, - 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. <p>Or,</p> <ul style="list-style-type: none"> - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61108-2 Ed. 1.0 (1998), - IEC 61108-4 (2004), - 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. 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). 	B+D B+E B+F G		



1	2	3	4	5	6
MED/4.52 Daylight signalling lamp	<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). <hr/> <p>Carriage and performance requirements</p> <ul style="list-style-type: none"> - SOLAS 74 Reg. V/19, - 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). 	<ul style="list-style-type: none"> - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - ISO 25861:2007. Or, <ul style="list-style-type: none"> - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - ISO 25861:2007. 	B+D B+E B+F		



1	2	3	4	5	6
<p>MED/4.53 Radar target enhancer</p>	<p>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.</p> <hr/> <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)-(2000 HSC Code) 13. - IMO Res.MSC.164(78), - ITU-R M.1176-1 (02/13).</p>	<p>- ISO 8729-2:2009, - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008). Or, - ISO 8729-2:2009, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008).</p>	<p>B+D B+E B+F G</p>		



1	2	3	4	5	6
MED/4.54 Bearing Device	Type approval requirements - SOLAS 74 Reg. V/18. Carriage and performance requirements - SOLAS 74 Reg. V/19.	- ISO 25862:2009, - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008). Or, - ISO 25862:2009, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008).	B+D B+E B+F G		
MED/4.54 Compass Bearing Device	Type approval requirements - SOLAS 74 Reg. V/18. Carriage and performance requirements - SOLAS 74 Reg. V/19.	- ISO 25862:2009, - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008). Or, - ISO 25862:2009, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008).	B+D B+E B+F G		



1	2	3	4	5	6
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), - IMO Res.MSC.302(87).	- 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		



1	2	3	4	5	6
MED/4.56 Galileo Equipment	<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)-(2000 HSC Code) 13. <hr/> <p>Carriage and performance requirements</p> <ul style="list-style-type: none"> - SOLAS 74 Reg. V/19, - IMO Res.A.694(17), - IMO Res.A.813(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.233(82), - IMO Res.MSC.302(87). 	<ul style="list-style-type: none"> - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61108-3:2010, - 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. <p>Or,</p> <ul style="list-style-type: none"> - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61108-3 (2010), - 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. 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). 	B+D B+E B+F G		



1	2	3	4	5	6
<p>MED/4.57 Bridge Navigational Watch Alarm System (BNWAS)</p>	<p>Type approval requirements - SOLAS 74 Reg. V/18.</p> <hr/> <p>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.</p>	<p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <p>- EN 62288:2014, - IEC 62616(2010) incl. IEC 62616 Corr. 1 (2012). Or, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- IEC 62288 Ed. 2.0 (2014-07), - IEC 62616(2010) incl. IEC 62616 Corr. 1 (2012).</p>	<p>B+D B+E B+F G</p>		





1	2	3	4	5	6
MED/4.58 Sound reception system	Type approval requirements - 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).	- 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 G		
	Carriage and performance requirements - SOLAS 74 Reg. V/19, - 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).	- EN 62288:2014, - ISO 14859:2012. Or, - 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. 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 14859:2012.			



1	2	3	4	5	6
<p>MED/4.59 Integrated navigation system</p>	<p>Type approval requirements</p> <ul style="list-style-type: none"> - SOLAS 74 Reg. V/15, - 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>Carriage and performance requirements</p> <ul style="list-style-type: none"> - 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.252(83), - IMO Res. MSC.302(87). 	<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, - IEC 61924-2 Ed. 1.0 (2012-12). <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 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 61924-2 Ed. 1.0 (2012-12). 	<p>B+D B+E B+F G</p>		



5: Radio-communication equipment

Notes applicable to section 5: Radiocommunication 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.

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
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)-(2000 HSC Code) 14. 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. - IMO MSC/Circ.862, - IMO MSC.1/Circ.1460, - IMO COMSAR Circ.32,	- 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), - ETSI EN 301 925 V1.4.1 (2013-05) .	B+D B+E B+F		21-03-2019 (III)



	<ul style="list-style-type: none"> - 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). 				
MED/5.1 VHF radio capable of transmitting and receiving DSC and radiotelephony	<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 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), - 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 V2.1. 1 (2016-03), - ETSI EN 301 925 V1.4.1 (2013-05) . 	B+D B+E B+F	16 March 2017	
	<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.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. - 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). 				



1	2	3	4	5	6
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, - IMO Res.MSC.97(73)-(2000 HSC Code) 14. <hr/> <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), - 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.493-13 (10/09), - ITU-R M.541-9 (05/04) 	<ul style="list-style-type: none"> - 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 301 843-2 V1.2.1 (2004-06). 	B+D B+E B+F		21-03-2019 (III)
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, - IMO Res.MSC.97(73)-(2000 HSC Code) 14. <hr/> <p>Carriage and performance requirements</p>	<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 March 2017	



	<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), - 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). 	<ul style="list-style-type: none"> - 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 301 843-2 V2.1.1 (2016-03). 			
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1	2	3	4	5	6
MED/5.3 NAVTEX 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. <hr/> <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.MSC.36(63)-(1994 HSC Code) 14, - IMO Res.MSC.97(73)-(2000 HSC Code) 14. - IMO Res.MSC.148(77), - IMO COMSAR Circ.32, - ITU-R M.540-2 (06/90), - ITU-R M.625-4 (03/12). 	<ul style="list-style-type: none"> - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - ETSI EN 300 065-1 V1.2.1 (2009-01), - ETSI EN 301 843-4 V1.2.1 (2004-06), Or, <ul style="list-style-type: none"> - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61097-6 (2012-01). 	B+D B+E B+F		21-03-2019 (III)
MED/5.3 NAVTEX 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. <hr/> <p>Carriage and performance requirements</p> <ul style="list-style-type: none"> - SOLAS 74 Reg. IV/7, 	<ul style="list-style-type: none"> - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - ETSI EN 300 065-1 V1.2.1 (2009-01), - ETSI EN 301 843-4 V2.1.1 (2016-03). Or, <ul style="list-style-type: none"> - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61097-6 (2012-01). 	B+D B+E B+F	16 March 2017	



	<ul style="list-style-type: none">- SOLAS 74 Reg. X/3,- 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.148(77),- IMO COMSAR Circ.32,- ITU-R M.540-2 (06/90),- ITU-R M.625-4 (03/12).				
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1	2	3	4	5	6
MED/5.4 EGC 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. <hr/> <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.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), - IMO COMSAR Circ.32. 	<ul style="list-style-type: none"> - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - 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>Or,</p> <ul style="list-style-type: none"> - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61097-4 (2012). 	B+D B+E B+F		21-03-2019 (III)
MED/5.4 EGC 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. <hr/> <p>Carriage and performance requirements</p> <ul style="list-style-type: none"> - SOLAS 74 Reg. IV/7, - SOLAS 74 Reg. X/3, 	<ul style="list-style-type: none"> - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - ETSI ETS 300 460 ed.1 (1996-05), - ETSI ETS 300 460/A1 (1997-11), - ETSI EN 301 843-1 V2.1.1 (2016-03). <p>Or,</p> <ul style="list-style-type: none"> - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61097-4 (2012). 	B+D B+E B+F	16 March 2017	



	<ul style="list-style-type: none">- 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),- IMO COMSAR Circ.32.				
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1	2	3	4	5	6
<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)-(2000 HSC Code) 14. <hr/> <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.699(17), - IMO Res.A.700(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 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). 	<ul style="list-style-type: none"> - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - EN 61162 series, - ETSI ETS 300 067 ed.1 (1990-11), - ETSI ETS 300 067/A1 ed.1 (1993-10), <p>Or,</p> <ul style="list-style-type: none"> - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series, - ETSI ETS 300 067 ed.1 (1990-11), - ETSI ETS 300 067/A1 ed.1 (1993-10). 	<p>B+D B+E B+F</p>		
<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, 	<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) 	<p>B+D B+E B+F</p>		



	<p>- IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<ul style="list-style-type: none"> • EN 61162-2 (1998) • EN 61162-3 (2008) 			
	<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.699(17), - IMO Res.A.700(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 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). 	<ul style="list-style-type: none"> • EN 61162-450 (2011), <p>- ETSI ETS 300 067 ed.1 (1990-11), - ETSI ETS 300 067/A1 ed.1 (1993-10), Or, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61162 series:</p> <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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06), <p>- ETSI ETS 300 067 ed.1 (1990-11), - ETSI ETS 300 067/A1 ed.1 (1993-10).</p>			



1	2	3	4	5	6
MED/5.6 406 MHz EPIRB (COSPAS-SARSAT)	<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/7, - IMO Res.A.662(16), - IMO Res.A.694(17), - IMO Res.A.696(17), - IMO Res.A.810(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.633-4 (12/10), - ITU-R M.690-3 (03/15). 	<p>- IMO MSC/Circ.862, Note: IMO MSC/Circ.862 is applicable only to the optional remote activation device, not to the EPIRB itself.</p> <p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008),</p> <p>- ETSI EN 300 066 V1.3.1 (2001-01),</p> <p>Or,</p> <p>- IMO MSC/Circ.862, 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>	B+D B+E B+F		

Item MED/5.7 "Lband EPIRB (INMARSAT)", - deliberately left blank.

Item MED/5.8 "MF DSC Receiver", - deliberately left blank.

Item MED/5.9 "Two-tone alarm generator", - deliberately left blank.



1	2	3	4	5	6
<p>MED/5.10 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, - 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, - 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, - IMO COMSAR Circ.32, - ITU-R M.493-13 (10/09), - ITU-R M.541-9 (05/04). 	<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), - ETSI EN 300 373-1 V1.4.1 (2013-09), - ETSI EN 301 843-5 V1.1.1(2004-06). 	<p>B+D B+E B+F</p>		<p>21-03-2019</p> <p>(III)</p>
<p>MED/5.10 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</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. <p>Carriage and performance requirements</p>	<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) 	<p>B+D B+E B+F</p>	<p>16 March 2017</p>	



<p>transmission on H3E are no longer applicable in the testing standards</p>	<ul style="list-style-type: none"> - 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, - 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"> • EN 61162-450 (2011), - 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 V2.1.1 (2016-03). 			
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1	2	3	4	5	6
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. <hr/> <p>Carriage and performance requirements</p> <ul style="list-style-type: none"> - 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)-(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), - ITU-R M.1173-1 (03/12). 	<ul style="list-style-type: none"> - 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). 	B+D B+E B+F		21-03-2019 (III)
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. 	<ul style="list-style-type: none"> - 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), 	B+D B+E B+F	16 March 2017	



	<p>Carriage and performance requirements</p> <ul style="list-style-type: none"> - 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)-(1994 HSC Code) 14, - IMO Res.MSC.97(73)-(2000 HSC Code) 14. - 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"> - ETSI EN 301 033 V1.4.1 (2013-09), - ETSI EN 301 843-5 V2.1.1 (2016-03). 			
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1	2	3	4	5	6
<p>MED/5.12 Inmarsat-B SES Note: The service will be discontinued on and after 31 December 2016.</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. <hr/> <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.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 MSC/Circ.862, - IMO COMSAR Circ.32. 	<ul style="list-style-type: none"> - IMO MSC/Circ.862, - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), <p>Or,</p> <ul style="list-style-type: none"> - IMO MSC/Circ.862, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008). 	<p>B+D B+E B+F</p>		



1	2	3	4	5	6
<p>MED/5.13 Inmarsat-C SES</p>	<p>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)-(2000 HSC Code) 14.</p> <hr/> <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 SES supports EGC functions - 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.</p>	<p>- IMO MSC/Circ.862, - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - 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). Or, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61097-4 (2012), - IEC 61162 Series.</p>	<p>B+D B+E B+F</p>		<p>21-03-2019 (III)</p>
<p>MED/5.13 Inmarsat-C SES</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:</p>	<p>B+D B+E B+F</p>	<p>16 March 2017</p>	



	<p>- IMO Res.MSC.97(73)-(2000 HSC Code) 14.</p>	<ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) 			
	<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.570(14), - IMO Res.A.664(16), <p>Note for Res. A.664(16): applicable only if the Inmarsat C SES supports EGC functions</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"> • EN 61162-450 (2011), <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> <ul style="list-style-type: none"> - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61097-4 (2012), - 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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06). 			



1	2	3	4	5	6
<p>MED/5.14 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>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/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 MSC/Circ.862, - IMO MSC.1/Circ.1460, - IMO COMSAR Circ.32, - ITU-R M.476-5 (10/95), - ITU-R M.492-6 (10/95), - ITU-R M.493-13 (10/09), - ITU-R M.541-9 (05/04), - ITU-R M.625-4 (03/12), - ITU-R M.1173-1 (03/12). 	<ul style="list-style-type: none"> - IMO MSC/Circ.862, - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - 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>B+D B+E B+F</p>		<p>21-03-2019</p> <p>(III)</p>
<p>MED/5.14 MF/HF radio capable of transmitting and receiving DSC, NBDP and</p>	<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), 	<p>B+D B+E B+F</p>	<p>16 March 2017</p>	



<p>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>	<ul style="list-style-type: none"> - 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/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 MSC/Circ.862, - IMO MSC.1/Circ.1460, - IMO COMSAR Circ.32, - ITU-R M.476-5 (10/95), - ITU-R M.492-6 (10/95), - ITU-R M.493-14 (09/15), - ITU-R M.541-10 (10/15) - ITU-R M.625-4 (03/12), - ITU-R M.1173-1 (03/12). 	<p>- EN 61162 series:</p> <ul style="list-style-type: none"> • EN 61162-1 (2011) • EN 61162-2 (1998) • EN 61162-3 (2008) • EN 61162-450 (2011), <ul style="list-style-type: none"> - 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 V2.1.1 (2016-03). 			
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1	2	3	4	5	6
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, - IMO Res.MSC.97(73)-(2000 HSC Code) 14. <hr/> <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, - 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) 	<ul style="list-style-type: none"> - 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), <p>Or,</p> <ul style="list-style-type: none"> - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61097-3 (1994), - IEC 61097-8 (1998), - IEC 61162 Series. 	B+D B+E B+F		21-03-2019 (III)
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, - 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 (2011) • EN 61162-2 (1998) 	B+D B+E B+F	16 March 2017	



	<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, - IMO Res.MSC.97(73)-(2000 HSC Code) 14. - 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"> • EN 61162-3 (2008) • EN 61162-450 (2011), - 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 V2.1.1 (2016-03). <p>Or,</p> <ul style="list-style-type: none"> - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61097-3 (1994), - IEC 61097-8 (1998), - 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. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) • IEC 61162-450 ed1.0 (2011-06). 			
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Item MED/5.16 "Aeronautical two way VHF radio telephone apparatus - Item deliberately left blank.



1	2	3	4	5	6
<p>MED/5.17 Portable survival craft two-way VHF radiotelephone apparatus</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. <hr/> <p>Carriage and performance requirements</p> <ul style="list-style-type: none"> - SOLAS 74 Reg. III/6, - IMO Res.A.694(17), - IMO Res.A.809(19), - IMO Res.MSC.36(63)-(1994 HSC Code) 8, - IMO Res.MSC.36(63)-(1994 HSC Code) 14, - IMO Res.MSC.97(73)-(2000 HSC Code) 8, - IMO Res.MSC.97(73)-(2000 HSC Code) 14. - IMO Res.MSC.149(77), - ITU-R M.489-2 (10/95). 	<ul style="list-style-type: none"> - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - ETSI EN 300 225 V1.4.1 (2004-12), - ETSI EN 301 843-2 V1.2.1 (2004-06), <p>Or,</p> <ul style="list-style-type: none"> - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61097-12 (1996). 	<p>B+D B+E B+F</p>		<p>07-12-2018 (III)</p>
<p>MED/5.17 Portable survival craft two-way VHF radiotelephone apparatus</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. <hr/> <p>Carriage and performance requirements</p>	<ul style="list-style-type: none"> - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - ETSI EN 300 225 V1.5.1 (2015-12), - ETSI EN 301 843-2 V2.1.0 (2015-12). <p>Or,</p> <ul style="list-style-type: none"> - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), 	<p>B+D B+E B+F</p>	<p>16 March 2017</p>	



	<ul style="list-style-type: none"> - SOLAS 74 Reg. III/6, - IMO Res.A.694(17), - IMO Res.A.809(19), - IMO Res.MSC.36(63)-(1994 HSC Code) 8, - IMO Res.MSC.36(63)-(1994 HSC Code) 14, - IMO Res.MSC.97(73)-(2000 HSC Code) 8, - IMO Res.MSC.97(73)-(2000 HSC Code) 14. - IMO Res.MSC.149(77), - ITU-R M.489-2 (10/95). 	<ul style="list-style-type: none"> - IEC 61097-12 (1996). 			
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1	2	3	4	5	6
<p>MED/5.18 Fixed survival craft two-way VHF radiotelephone apparatus</p>	<p>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)-(2000 HSC Code) 14.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. III/6, - IMO Res.A.694(17), - IMO Res.A.809(19), - IMO Res.MSC.36(63)-(1994 HSC Code) 8, - IMO Res.MSC.36(63)-(1994 HSC Code) 14, - IMO Res.MSC.97(73)-(2000 HSC Code) 8, - IMO Res.MSC.97(73)-(2000 HSC Code) 14. - ITU-R M.489-2 (10/95).</p>	<p>- EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - ETSI EN 301 466 V1.1.1 (2000-10), Or, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61097-12 (1996).</p>	<p>B+D B+E B+F</p>		<p>07-12-2018 (III)</p>
<p>MED/5.18 Fixed survival craft two-way VHF radiotelephone apparatus</p>	<p>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)-(2000 HSC Code) 14.</p> <hr/> <p>Carriage and performance requirements - SOLAS 74 Reg. III/6,</p>	<p>- 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).</p>	<p>B+D B+E B+F</p>	<p>16 March 2017</p>	



	<ul style="list-style-type: none">- IMO Res.A.694(17),- IMO Res.A.809(19),- IMO Res.MSC.36(63)-(1994 HSC Code) 8,- IMO Res.MSC.36(63)-(1994 HSC Code) 14,- IMO Res.MSC.97(73)-(2000 HSC Code) 8,- IMO Res.MSC.97(73)-(2000 HSC Code) 14.- ITU-R M.489-2 (10/95).				
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1	2	3	4	5	6
<p>MED/5.19 Inmarsat-F77</p>	<p>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)-(2000 HSC Code) 14.</p> <hr/> <p>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 MSC/Circ.862, - IMO COMSAR Circ.32.</p>	<p>- IMO MSC/Circ.862, - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61097-13 (2003). Or, - IMO MSC/Circ.862, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), - IEC 61097-13 (2003).</p>	<p>B+D B+E B+F</p>		



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
MED/6.1 Navigation lights	Type approval requirements - COLREG 72 Annex I/14.	- EN 14744:2005 incl. AC:2006, - EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008). Or, - EN 14744:2005 incl. AC:2006, - IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008).	B+D B+E B+F G		
	Carriage and performance requirements - COLREG 72 Annex I/14, - IMO Res.A.694(17), - IMO Res.MSC.253(83).				



7: Bulk carrier safety equipment

This chapter currently has no items.

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
MED/8.1 - Water level detectors	Type approval requirements - SOLAS 74 Reg. II-1/22-1, - SOLAS 74 Reg. II-1/25, - SOLAS 74 Reg. XII/12. Carriage and performance requirements - 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.1464 Rev.1.	- 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.	B+D B+E B+F		22-11-2019 (III)
MED/8.1 - Water level detectors	Type approval requirements - SOLAS 74 Reg. II-1/22-1, - SOLAS 74 Reg. II-1/25, - SOLAS 74 Reg. XII/12.	- 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 March 2017	



	<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.1464 Rev.1.				
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Annex 2

The following amendments are made to Annex 2 of MSN 1874.

In Table 1. (Life-Saving Appliances):

For the Item Designation “Public address & general emergency alarm system (when used as fire alarm device Item A.1/3.5 shall apply)” re name “Public address & general emergency alarm system (when used as fire alarm device item MED/3.53 in Annex 1 shall apply)

Add new item:

Immersion suit materials	- Reg III/4 - Reg III/34	- IMO Res. MSC.48(66)-(LSA Code).	
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In Table 3. Fire Protection Equipment:

The Item with Designation “Galley Exhaust Dict Fixed Fire Extinguishing System Components” is deleted.

Add new item:

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)	
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In Table 4. Navigation equipment:

For the Item Designation “Track control system for –high speed craft” re-name “Track control system (working at ship’s speed from 30 knots and above”.

Add items:

Loran-C equipment	-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. 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).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -IEC 62288 Ed. 2.0 (2014-07). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 62288 Ed. 2.0 (2014-07).
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Chayka equipment	-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. 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).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -IEC 62288 Ed. 2.0 (2014-07). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 62288 Ed. 2.0 (2014-07).
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In table 5. Radiocommunication equipment:

Add Item:

L-band EPIRB (INMARSAT)	- Reg. IV/14 - 2004 Reg. X/3 - IMO Res.MSC.36(63)-(1994 HSC Code) 14 - IMO Res.MSC.97(73)-(2000 HSC Code) 14	- 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)	ETSI ETS 300 372 ed.1 (1996-05) EN 60945:2002 IEC 61097-5 (1997) IMO MSC/Circ.862
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In table 7. Bulk carrier safety equipment:

Add Item:

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)
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