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ANNEX

General note: references to 'SOLAS' Regulations refer to the provisions of the International Convention for the Safety of Life at Sea [signed in London on 1 November 1974], as amended.

**List of acronyms used**

A.1, Amendment 1 concerning Standard Documents other than IMO.

A.2, Amendment 2 concerning Standard Documents other than IMO.

AC, Amending Corrigendum concerning Standard Documents other than IMO.

CAT, Category for radar equipment as defined in section 1.3 of IEC 62388 (2007)

Circ., Circular.

COLREG, International Regulations for Preventing Collisions at Sea.

COMSAR, IMO’s Sub-Committee on Radiocommunications and Search and Rescue.

EN, European Standard.

ETSI, European Telecommunication Standardisation Institute.

FSS, International Code for Fire Safety Systems.

FTP, International Code for Application of Fire Test Procedures.

GNSS, Global Navigation Satellite System.

HSC, High Speed Craft Code.

IBC, International Bulk Chemical Code.

IACS, International Association for Classification Societies.

ICAO, International Civil Aviation Organization.

IEC, International Electrotechnical Commission.

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

IMO, International Maritime Organization.

ISO, International Organisation for Standardization.

ITU, International Telecommunication Union.

LSA, Life saving appliance.

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

MED, Marine Equipment Directive.

MEPC, Marine Environment Protection Committee.

MSC, Maritime Safety Committee.

NOx, Nitrogen Oxides.

O2/HC systems: Oxygen Hydrocarbon systems.

SOLAS, International Convention for the Safety of Life at Sea.

SOx, Sulphur Oxides.

Reg., Regulation.

Res., Resolution.

**Notes applicable to this Annex.**

* 1. General: in addition to the testing standards specifically referred to in this Annex, type-examination (type approval) requires compliance with the applicable requirements of the international conventions and the relevant resolutions and circulars of the IMO. Such compliance is referred to in the modules for conformity assessment set out in Annex II to Directive 2014/90/EU.
  2. Column 3: where two sets of testing standards are separated by “or”, each set fulfils all the testing requirements to meet IMO Performance Standards. Therefore, testing in accordance with one of those sets is sufficient to demonstrate compliance with the requirements of the relevant international instruments. On the contrary, when other separators (such as comma) are used, all the listed references apply.
  3. Column 6: in order to take into consideration the timeframes for shipbuilding, depending on the characteristics of the specific marine equipment, the term ‘placing on board’ shall be understood as meaning one of the following, as indicated in brackets after the dates:

(i) first installation of the equipment in its functional position on board an EU ship;

(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 such delivery takes place within 30 months before the first installation of the equipment in its functional position.

* 1. Where there is more than one row for one marine equipment item entry (for example MED/1.1), the lowest row contains the updated requirements of the international instruments in respect to the ones set out on the upper row or rows.
  2. In the situations referred to in point (d) where columns 5 and 6 contain no date, that indicates that there has been no change in the testing standards and that the marine equipment item concerned must comply with the requirements indicated in the (second) lower row.

1. Life-saving appliances

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| Number and item designation | Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable | Testing standards | Modules for conformity assessment | First placing on the market | Last placing on board |
| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.1  Lifebuoys  Row 1 of 2 | 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 |  | 10.10.2026  (ii) |
| 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,  - IMO MSC.1/Circ.1628. |
| MED/1.1  Lifebuoys  Row 2 of 2  - not intended for combined use with item MED/1.10- intended for combined use with item MED/1.10  *Note: if it is intended to operate the quick-release arrangement provided for the self-activated smoke signals and self-igniting lights, these items shall have a mass of not less than 4 kg (refer also to item MED/1.3).* | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102). | B+D  B+E  B+F | 10.10.2023 |  |
| 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,  - IMO Res. MSC.481(102),  - IMO MSC.1/Circ.1628 Rev. 1. |

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| MED/1.2a  Position-indicating lights for life-saving appliances:  - for survival craft and rescue boats  Row 1 of 1  Note: EN 60945’s and IEC 60945’s Electromagnetic Compatibility tests are excluded and only those referred to in IMO Res. MSC 81(70), clause 10.4 shall be carried out. | | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | | - IMO Res. MSC.81(70), as amended,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - ISO 24408: 2005.  Or:  - IMO Res. MSC.81(70), as amended,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - ISO 24408: 2005 | B+D  B+E  B+F | 12.8.2020 |  |
| 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.97(73)-(2000 HSC Code) 8,  - IMO MSC.1/Circ.1630 Rev. 2. | |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.2b  Position-indicating lights for life-saving appliances:  - for lifebuoys  Row 1 of 1  Note: EN 60945’s and IEC 60945’s Electromagnetic Compatibility tests are excluded and only those referred to in IMO Res. MSC 81(70), clause 10.4 shall be carried out. | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - ISO 24408: 2005.  Or:  - IMO Res. MSC.81(70), as amended,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - ISO 24408: 2005. | B+D  B+E  B+F | 12.8.2020 |  |
| 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.1/Circ.1628 Rev. 1. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.2c  Position-indicating lights for life-saving appliances:  - for lifejackets  Row 1 of 1  Note: EN 60945’s and IEC 60945’s Electromagnetic Compatibility tests are excluded and only those referred to in IMO Res. MSC 81(70), clause 10.4 shall be carried out. | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - ISO 24408: 2005.  Or:  - IMO Res. MSC.81(70), as amended,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - ISO 24408: 2005. | B+D  B+E  B+F | 12.8.2020 |  |
| 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) I,  - IMO Res .MSC.48(66)-(LSA Code) II,  - IMO Res. MSC.97(73)-(2000 HSC Code) 8,  - IMO MSC.1/Circ.1628 Rev. 1. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.3  Lifebuoys self-activating smoke signals  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - ISO 15736: 2006. | B+D  B+E  B+F | 12.8.2020 |  |
| 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,  - IMO MSC.1/Circ.1628 Rev. 1. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.4  Lifejackets  Row 1 of 2 | 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 |  | 10.10.2026  (ii) |
| 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,  - IMO MSC.1/Circ.1628. |
| MED/1.4  Lifejackets  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102). | B+D  B+E  B+F | 10.10.2023 |  |
| 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 Res. MSC.481(102),  - IMO MSC/Circ.922,  - IMO MSC.1/Circ.1304,  - IMO MSC.1/Circ.1470,  - IMO MSC.1/Circ.1628 Rev. 1. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.5a  Immersion suits and anti-exposure suits designed to be worn in conjunction WITH a lifejacket:  - immersion suit without inherent insulation  Row 1 of 2 | 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 |  | 10.10.2026  (ii) |
| 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,  - IMO MSC.1/Circ.1628. |
| MED/1.5a  Immersion suits and anti-exposure suits designed to be worn in conjunction WITH a lifejacket:  - immersion suit without inherent insulation  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102). | B+D  B+E  B+F | 10.10.2023 |  |
| 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 Res. MSC.481(102),  - IMO MSC/Circ.1046,  - IMO MSC.1/Circ.1628 Rev. 1. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.5b  Immersion suits and anti-exposure suits designed to be worn in conjunction WITH a lifejacket:  - immersion suit with inherent insulation  Row 1 of 2 | 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 |  | 10.10.2026  (ii) |
| 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,  - IMO MSC.1/Circ.1628. |
| MED/1.5b  Immersion suits and anti-exposure suits designed to be worn in conjunction WITH a lifejacket:  - immersion suit with inherent insulation  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102). | B+D  B+E  B+F | 10.10.2023 |  |
| 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 Res. MSC.481(102),  - IMO MSC/Circ.1046,  - IMO MSC.1/Circ.1628 Rev. 1. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.5c  Immersion suits and anti-exposure suits designed to be worn in conjunction WITH a lifejacket:  - anti-exposure suits  Row 1 of 2 | 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 |  | 10.10.2026  (ii) |
| 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,  - IMO MSC.1/Circ.1628. |
| MED/1.5c  Immersion suits and anti-exposure suits designed to be worn in conjunction WITH a lifejacket:  - anti-exposure suits  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102). | B+D  B+E  B+F | 10.10.2023 |  |
| 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 Res. MSC.481(102),  - IMO MSC/Circ.1046,  - IMO MSC.1/Circ.1628 Rev. 1. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.6a  Immersion suits and anti-exposure suits designed to be worn WITHOUT a lifejacket:  - immersion suit without inherent insulation  Row 1 of 2 | 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 |  | 10.10.2026  (ii) |
| 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,  - IMO MSC.1/Circ.1628. |
| MED/1.6a  Immersion suits and anti-exposure suits designed to be worn WITHOUT a lifejacket:  - immersion suit without inherent insulation  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102). | B+D  B+E  B+F | 10.10.2023 |  |
| 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 Res. MSC.481(102),  - IMO MSC/Circ.1046,  - IMO MSC.1/Circ.1628 Rev. 1. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.6b  Immersion suits and anti-exposure suits designed to be worn WITHOUT a lifejacket:  - immersion suit with inherent insulation  Row 1 of 2 | 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 |  | 10.10.2026  (ii) |
| 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,  - IMO MSC.1/Circ.1628. |
| MED/1.6b  Immersion suits and anti-exposure suits designed to be worn WITHOUT a lifejacket:  - immersion suit with inherent insulation  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102). | B+D  B+E  B+F | 10.10.2023 |  |
| 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 Res. MSC.481(102),  - IMO MSC/Circ.1046,  - IMO MSC.1/Circ.1628 Rev. 1. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.6c  Immersion suits and anti-exposure suits designed to be worn WITHOUT a lifejacket  - anti-exposure suits  Row 1 of 2 | 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 |  | 10.10.2026  (ii) |
| 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,  - IMO MSC.1/Circ.1628. |
| MED/1.6c  Immersion suits and anti-exposure suits designed to be worn WITHOUT a lifejacket  - anti-exposure suits  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102). | B+D  B+E  B+F | 10.10.2023 |  |
| 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 Res. MSC.481(102),  - IMO MSC/Circ.1046,  - IMO MSC.1/Circ.1628 Rev. 1. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.7  Thermal protective aids  Row 1 of 1 | 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/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,  - IMO MSC.1/Circ.1628 Rev. 1. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.8  Rocket parachute flares (pyrotechnics)  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - ISO 15736: 2006. | B+D  B+E  B+F | 12.8.2020 |  |
| 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,  - IMO MSC.1/Circ.1629. |

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| 1 | 2 | | 3 | | 4 | 5 | 6 |
| MED/1.9  Hand flares (pyrotechnics)  Row 1 of 1 | | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | | - IMO Res. MSC.81(70),as amended,  - ISO 15736: 2006. | B+D  B+E  B+F | 12.8.2020 |  |
| 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,  - IMO MSC.1/Circ.1629. | |

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| MED/1.10  Buoyant smoke signals (pyrotechnics)  Row 1 of 1  *Note: See also item MED/1.1.* | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | | - IMO Res. MSC.81(70), as amended,  - ISO 15736: 2006. | B+D  B+E  B+F | 12.8.2020 |  |
| Carriage and performance requirements  - SOLAS 74 Reg. III/7,  - SOLAS 74 Reg. III/34,  - IMO Res. MSC.48(66)-(LSA Code) I,  - IMO Res. MSC.48(66)-(LSA Code) II,  - IMO Res. MSC.48(66)-(LSA Code) III,  - IMO MSC.1/Circ.1629. | |

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| 1 | 2 | 3 | 4 | 5 | 6 | |
| MED/1.11  Line-throwing appliances  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - ISO 15736: 2006. | B+D  B+E  B+F | 12.8.2020 | |  |
| 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,  - IMO MSC.1/Circ.1633. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.12  Inflatable liferafts  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended.  And for extended service intervals:  - IMO MSC.1/Circ.1328. | B+D  B+E  B+F |  | 10.10.2026  (ii) |
| 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,  - IMO MSC.1/Circ.1630. |
| MED/1.12  Inflatable liferafts  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102).  And for extended service intervals:  - IMO MSC.1/Circ.1328. | B+D  B+E  B+F | 10.10.2023 |  |
| 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 Res. MSC.481(102),  - IMO MSC/Circ.811,  - IMO MSC.1/Circ.1328,  - IMO MSC.1/Circ.1630 Rev 2. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.13  Rigid liferafts  Row 1 of 2 | 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 |  | 10.10.2026  (ii) |
| 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.1/Circ.1630. |
| MED/1.13  Rigid liferafts  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102). | B+D  B+E  B+F | 10.10.2023 |  |
| 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 Res. MSC.481(102),  - IMO MSC.1/Circ.1630 Rev 2. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.14a  Automatically self-righting liferafts:  - inflatable  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended.  And for extended service intervals:  - IMO MSC.1/Circ.1328. | B+D  B+E  B+F |  | 10.10.2026  (ii) |
| 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,  - IMO MSC.1/Circ.1630. |
| MED/1.14a  Automatically self-righting liferafts:  - inflatable  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102).  And for extended service intervals:  - IMO MSC.1/Circ.1328. | B+D  B+E  B+F | 10.10.2023 |  |
| 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 Res. MSC.481(102),  - IMO MSC/Circ.809,  - IMO MSC/Circ.811,  - IMO MSC.1/Circ.1328,  - IMO MSC.1/Circ.1630 Rev 2. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.14b  Automatically self-righting liferafts:  - rigid  Row 1 of 2 | 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 |  | 10.10.2026  (ii) |
| 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,  - IMO MSC.1/Circ.1630. |
| MED/1.14b  Automatically self-righting liferafts:  - rigid  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102). | B+D  B+E  B+F | 10.10.2023 |  |
| 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 Res. MSC.481(102),  - IMO MSC/Circ.809,  - IMO MSC/Circ.811,  - IMO MSC.1/Circ.1328,  - IMO MSC.1/Circ.1630 Rev 2. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.15  Canopied reversible liferafts  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended.  And for extended service intervals:  - IMO MSC.1/Circ.1328. | B+D  B+E  B+F |  | 10.10.2026  (ii) |
| 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,  - IMO MSC.1/Circ.1630. |
| MED/1.15  Canopied reversible liferafts  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102).  And for extended service intervals:  - IMO MSC.1/Circ.1328. | B+D  B+E  B+F | 10.10.2023 |  |
| 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 Res. MSC.481(102),  - IMO MSC/Circ.809,  - IMO MSC/Circ.811,  - IMO MSC.1/Circ.1328,  - IMO MSC.1/Circ.1630 Rev 2. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.16  Float-free arrangements for liferafts (hydrostatic release units)  Row 1 of 1 | 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/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,  - IMO MSC.1/Circ.1630 Rev 2. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.17a  Lifeboats  Davit-launched lifeboats:  - partially enclosed  - totally enclosed  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO MSC/Circ.1006. | B+D  B+F  G |  | 10.10.2026  (ii) |
| 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,  - IMO MSC.1/Circ.1630. |
| MED/1.17a  Lifeboats  Davit-launched lifeboats:  - partially enclosed  - totally enclosed  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102),  - IMO MSC/Circ.1006. | B+D  B+F  G | 10.10.2023 |  |
| 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 Res. MSC.481(102),  - IMO MSC.1/Circ.1423,  - IMO MSC.1/Circ.1630 Rev 2. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.17b  Lifeboats  Free-fall lifeboats  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO MSC/Circ.1006. | B+D  B+F  G |  | 10.10.2026  (ii) |
| 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,  - IMO MSC.1/Circ.1630. |
| MED/1.17b  Lifeboats  Free-fall lifeboats  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102),  - IMO MSC/Circ.1006. | B+D  B+F  G | 10.10.2023 |  |
| 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 Res. MSC.481(102),  - IMO MSC.1/Circ.1423,  - IMO MSC.1/Circ.1630 Rev 2. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.17c  Davit-launched lifeboats used as a rescue boat:  - partially enclosed  - totally enclosed  Note: New item inserted by Implementing Regulation (EU) 2022/1157  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO MSC/Circ.1006. | B+D  B+F  G | 15.8.2022 | 10.10.2026  (ii) |
| 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.48(66)-(LSA Code) V,  - IMO Res. MSC.97(73)-(2000 HSC Code) 8,  - IMO MSC.1/Circ.1423,  - IMO MSC.1/Circ.1630,  - IMO MSC.1/Circ.1631. |
| MED/1.17c  Davit-launched lifeboats used as a rescue boat:  - partially enclosed  - totally enclosed  Note: New item inserted by Implementing Regulation (EU) 2022/1157  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102),  - IMO MSC/Circ.1006. | B+D  B+F  G | 10.10.2023 |  |
| 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.48(66)-(LSA Code) V,  - IMO Res. MSC.97(73)-(2000 HSC Code) 8,  - IMO Res. MSC.481(102),  - IMO MSC.1/Circ.1423,  - IMO MSC.1/Circ.1630 Rev 2,  - IMO MSC.1/Circ.1631. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.18  Rigid rescue boats  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO MSC/Circ.1006. | B+D  B+F  G |  | 10.10.2026  (ii) |
| 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,  - IMO MSC.1/Circ.1631. |
| MED/1.18  Rigid rescue boats  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102),  - IMO MSC/Circ.1006. | B+D  B+F  G | 10.10.2023 |  |
| 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,  - IMO Res. MSC.481(102),  - IMO MSC.1/Circ.1631. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.19  Inflated rescue boats  Row 1 of 3 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - ISO 15372:2000. | B+D  B+F  G |  | 10.10.2026  (ii) |
| 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,  - IMO MSC.1/Circ.1631. |
| MED/1.19  Inflated rescue boats  Row 2 of 3 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102),  - ISO 15372:2000. | B+D  B+F  G | 10.10.2023 | [OP please insert the date =  36 months after the date of entry into force of this Regulation]  (ii) |
| 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,  - IMO Res. MSC.481(102),  - IMO MSC.1/Circ.1631. |

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| MED/1.19  Inflated rescue boats  Row 3 of 3  (NEW ROW) | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102),  - ISO 15372:2000 incl. A1:2021. | B+D  B+F  G | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| 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,  - IMO Res. MSC.481(102),  - IMO MSC.1/Circ.1631. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.20a  Fast rescue boats:  - inflated  Row 1 of 3 | Type approval requirements  - SOLAS 74 Reg. III/4. | - IMO Res. MSC.81(70), as amended,  - ISO 15372:2000. | B+D  B+F  G |  | 10.10.2026  (ii) |
| 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 MSC.1/Circ.1631. |
| MED/1.20a  Fast rescue boats:  - inflated  Row 2 of 3 | Type approval requirements  - SOLAS 74 Reg. III/4. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102),  - ISO 15372:2000. | B+D  B+F  G | 10.10.2023 | [OP please insert the date =  36 months after the date of entry into force of this Regulation]  (ii) |
| 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 Res. MSC.481(102),  - IMO MSC/Circ.1016,  - IMO MSC/Circ.1094,  - IMO MSC.1/Circ.1631. |

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| MED/1.20a  Fast rescue boats:  - inflated  Row 3 of 3  (NEW ROW) | Type approval requirements  - SOLAS 74 Reg. III/4. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102),  - ISO 15372:2000 incl. A1:2021. | B+D  B+F  G | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| 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 Res. MSC.481(102),  - IMO MSC/Circ.1016,  - IMO MSC/Circ.1094,  - IMO MSC.1/Circ.1631. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.20b  Fast rescue boats:  - rigid  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4. | - IMO Res. MSC.81(70), as amended,  - IMO MSC/Circ.1006. | B+D  B+F  G |  | 10.10.2026  (ii) |
| 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 MSC.1/Circ.1631. |
| MED/1.20b  Fast rescue boats:  - rigid  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102),  - IMO MSC/Circ.1006. | B+D  B+F  G | 10.10.2023 |  |
| 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 Res. MSC.481(102),  - IMO MSC/Circ.1016,  - IMO MSC/Circ.1094,  - IMO MSC.1/Circ.1631. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.20c  Fast rescue boats:  - rigid-inflated  Row 1 of 3 | Type approval requirements  - SOLAS 74 Reg. III/4. | - IMO Res. MSC.81(70), as amended,  - IMO MSC/Circ.1006,  - ISO 15372:2000. | B+D  B+F  G |  | 10.10.2026  (ii) |
| 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 MSC.1/Circ.1631. |
| MED/1.20c  Fast rescue boats:  - rigid-inflated  Row 2 of 3 | Type approval requirements  - SOLAS 74 Reg. III/4. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102),  - IMO MSC/Circ.1006,  - ISO 15372:2000. | B+D  B+F  G | 10.10.2023 | [OP please insert the date =  36 months after the date of entry into force of this Regulation]  (ii) |
| 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 Res. MSC.481(102),  - IMO MSC/Circ.1016,  - IMO MSC/Circ.1094,  - IMO MSC.1/Circ.1631. |

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| MED/1.20c  Fast rescue boats:  - rigid-inflated  Row 3 of 3  (NEW ROW) | Type approval requirements  - SOLAS 74 Reg. III/4. | - IMO Res. MSC.81(70), as amended,  - IMO Res. MSC.481(102),  - IMO MSC/Circ.1006,  - ISO 15372:2000 incl. A1:2021. | B+D  B+F  G | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| 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 Res. MSC.481(102),  - IMO MSC/Circ.1016,  - IMO MSC/Circ.1094,  - IMO MSC.1/Circ.1631. |

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| MED/1.21  Launching appliances using falls (davits)  Row 1 of 1 | 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  G |  |  |
| 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 MSC.1/Circ.1632. |

Item MED/1.22, Float-free launching appliances for survival craft, - moved to MED/9/1.3 and deleted by Implementing Regulation (EU) 2023/1667.

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.23  Launching appliances for free-fall lifeboats  Row 1 of 1 | 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  G |  |  |
| 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,  - IMO MSC.1/Circ.1632. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.24  Liferaft launching appliances  (Davits)  Row 1 of 1 | 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  G |  |  |
| 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,  - IMO MSC.1/Circ.1632. |

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| MED/1.25  Fast rescue boat launching appliances  (Davits)  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. III/4. | - IMO Res. MSC.81(70), as amended. | B+D  B+E  B+F  G |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. III/26,  - SOLAS 74 Reg. III/34,  - IMO Res. MSC.48(66)-(LSA Code) I,  - IMO Res. MSC.48(66)-(LSA Code) VI,  - IMO MSC.1/Circ.1632. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.26a  Release mechanism for:  - lifeboats and rescue boats (launched by a fall or falls)  Row 1 of 1 | 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/16,  - SOLAS 74 Reg. III/34,  - IMO Res. MSC.36(63)-(1994 HSC Code) 8,  - IMO Res. MSC.48(66)-(LSA Code) I,  - IMO Res. MSC.48(66)-(LSA Code) IV,  - IMO Res. MSC.97(73)-(2000 HSC Code) 8,  - IMO MSC.1/Circ.1419,  - IMO MSC.1/Circ.1630 Rev 2. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.26b  Release mechanism for:  - liferafts (launched by a fall or falls)  Row 1 of 1 | 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/16,  - SOLAS 74 Reg. III/34,  - IMO Res. MSC.36(63)-(1994 HSC Code) 8,  - IMO Res. MSC.48(66)-(LSA Code) I,  - IMO Res. MSC.48(66)-(LSA Code) IV,  - IMO Res. MSC.97(73)-(2000 HSC Code) 8,  - IMO MSC.1/Circ.1632. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.26c  Release mechanism for:  - free fall lifeboats  Row 1 of 1 | 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/16,  - SOLAS 74 Reg. III/34,  - IMO Res. MSC.36(63)-(1994 HSC Code) 8,  - IMO Res. MSC.48(66)-(LSA Code) I,  - IMO Res. MSC.48(66)-(LSA Code) IV,  - IMO Res. MSC.97(73)-(2000 HSC Code) 8,  - IMO MSC.1/Circ.1630 Rev 2. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.27  Marine evacuation systems  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended. | B+D  B+F  G |  |  |
| 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,  - IMO MSC.1/Circ.1632. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.28  Means of rescue  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. III/4. | - IMO Res. MSC.81(70), as amended. | B+D  B+F |  |  |
| 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 MSC.1/Circ.1632. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.29  Embarkation ladders  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. III/11,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - ISO 5489:2008. | B+D  B+E  B+F |  |  |
| 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) I,  - IMO Res. MSC.48(66)-(LSA Code) VI,  - IMO Res. MSC.97(73)-(2000 HSC Code),  - IMO MSC.1/Circ.1285,  - IMO MSC.1/Circ.1630 Rev 2. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.30  Retro-reflective materials  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. A.658(16), as amended. | B+D  B+E  B+F |  | 15.8.2025  (i) |
| 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. |
| MED/1.30  Retro-reflective materials  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.481(102). | B+D  B+E  B+F | 15.8.2022 |  |
| 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 MSC.1/Circ.1628 Rev. 1. |

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.

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.33  Radar reflector for lifeboats and rescue boats  (passive)  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - EN ISO 8729:1998,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008.  Or:  - EN ISO 8729:1998,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008.  Or:  - 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. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. III/34,  - IMO Res. A.384(X),  - IMO Res. MSC.36(63)-(1994 HSC Code) 8,  - 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). |

Item MED/1.34, Magnetic compass Class B for lifeboats and rescue boats, - moved to MED/4.23.

Item MED/1.35, Portable fire-extinguishing equipment for lifeboats and rescue boats - moved to MED/3.38.

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.36  Lifeboat / rescue boat propulsion engine  Row 1 of 1 | 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,  - IMO MSC.1/Circ.1630 Rev 2. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.37  Rescue boat propulsion engine - outboard motor  Row 1 of 1 | 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,  - IMO MSC.1/Circ.1631. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.38  Searchlights for use in lifeboats and rescue boats  Row 1 of 2 | 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 |  | 13.9.2022  (ii) |
| 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. |
| MED/1.38  Searchlights for use in lifeboats and rescue boats  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008.  Or:  - IMO Res. MSC.81(70), as amended,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008. | B+D  B+E  B+F | 13.9.2019 |  |
| 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,  - IMO MSC.1/Circ.1630 Rev 2. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.39  Open reversible liferafts  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - 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. | B+D  B+F |  | 10.10.2026  (ii) |
| 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. |
| MED/1.39  Open reversible liferafts  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.36(63)-(1994 HSC Code) Annex 10,  - IMO Res. MSC.97(73)-(2000 HSC Code) Annex 11,  - IMO Res. MSC.481(102).  And for extended service intervals:  - IMO MSC.1/Circ.1328. | B+D  B+F | 10.10.2023 |  |
| 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 Res. MSC.481(102),  - IMO MSC.1/Circ.1328. |

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

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.41a  Winches for survival craft and rescue boats:  - davit launched lifeboats  Row 1 of 1 | 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  G |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. III/16,  - 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,  - IMO MSC.1/Circ.1632. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.41b  Winches for survival craft and rescue boats:  - free-fall lifeboats  Row 1 of 1 | 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  G |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. III/16,  - SOLAS 74 Reg. III/23,  - SOLAS 74 Reg. III/24,  - SOLAS 74 Reg. III/34,  - IMO Res. MSC.48(66)-(LSA Code) I,  - IMO Res. MSC.48(66)-(LSA Code) VI,  - IMO MSC.1/Circ.1632. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.41c  Winches for survival craft and rescue boats:  - liferafts  Row 1 of 1 | 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  G |  |  |
| 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,  - IMO MSC.1/Circ.1632. |

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| MED/1.41d  Winches for survival craft and rescue boats:  - rescue boats  Row 1 of 1 | 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  G |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. III/16,  - SOLAS 74 Reg. III/17,  - SOLAS 74 Reg. III/23,  - 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 MSC.1/Circ.1632. |

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| MED/1.41e  Winches for survival craft and rescue boats:  - fast rescue boats  Row 1 of 1 | 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  G |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. III/16,  - SOLAS 74 Reg. III/17,  - SOLAS 74 Reg. III/23,  - 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 MSC.1/Circ.1632. |

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

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/1.43  Rigid-inflated rescue boats  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO MSC/Circ.1006,  - ISO 15372:2000. | B+D  B+F  G |  | 15.8.2025  (ii) |
| 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. |
| MED/1.43  Rigid-inflated rescue boats  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.81(70), as amended,  - IMO MSC/Circ.1006,  - ISO 15372:2000 + A1:2021. | B+D  B+F  G | 15.8.2022 |  |
| 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,  - IMO MSC.1/Circ.1631. |

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| MED/1.44a  Public Address and General Alarm Systems (PAGA)  - Control and distribution system  (When used as fire alarm device item A.1/3.53 shall apply.)  Note: The certificate shall specify for which of the following categories of ship and systems the equipment is suitable:  Ship:   * Cargo ship * Passenger ship (excluding Safe Return to Port) * Passenger ship (including Safe Return to Port)   Systems:   * General Alarm (GA) systems * Public Address (PA) systems * Public Address and General Alarm (PAGA) systems   New item inserted by Implementing Regulation (EU) 2022/1157(moved from MED/9/1.5)  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3,  - IMO Res.MSC.36(63)-(1994 HSC Code) 4,  - IMO Res.MSC.36(63)-(1994 HSC Code) 8,  - IMO Res.MSC.97(73)-(2000 HSC Code) 4,  - IMO Res.MSC.97(73)-(2000 HSC Code) 8. | - EN 50695:2021,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN 62923-1:2018,  - EN 62923-2:2018.  Or:  - EN 50695:2021,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 15.8.2022 |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/12,  - SOLAS 74 Reg. II-2//21,  - SOLAS 74 Reg. II-2/22,  - SOLAS 74 Reg. III/6,  - IMO Res. A.1021(26) 5,  - IMO Res. MSC.48(66)-(LSA Code) VII,  - IMO Res. MSC.36(63)-(1994 HSC Code) 4,  - IMO Res. MSC.36(63)-(1994 HSC Code) 8,  - IMO Res. MSC.97(73)-(2000 HSC Code) 4,  - IMO Res. MSC.97(73)-(2000 HSC Code) 8,  - IMO Res. MSC.302(87),  - IMO MSC.1/Circ.808,  - IMO MSC.1/Circ.1369/Add.1. |

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| MED/1.44b  Public Addres and General Alarm Systems (PAGA)  - Speakers  (When used as fire alarm device item MED/3.53 shall apply.)  New item inserted by Implementing Regulation (EU) 2022/1157(moved from MED/9/1.5)  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. III 4,  - SOLAS 74 Reg. X/3,  - IMO Res.MSC.36(63)-(1994 HSC Code) 4,  - IMO Res.MSC.36(63)-(1994 HSC Code) 8,  - IMO Res.MSC.97(73)-(2000 HSC Code) 4,  - IMO Res.MSC.97(73)-(2000 HSC Code) 8. | - EN 50695:2021,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008.  Or:  - EN 50695:2021,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008. | B+D  B+E  B+F  G | 15.8.2022 |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/12,  - SOLAS 74 Reg. II-2//21,  - SOLAS 74 Reg. II-2/22,  - SOLAS 74 Reg. III/6,  - IMO Res. A.1021(26) 5,  - IMO Res. MSC.48(66)-(LSA Code) VII,  - IMO Res. MSC.36(63)-(1994 HSC Code) 4,  - IMO Res. MSC.36(63)-(1994 HSC Code) 8,  - IMO Res. MSC.97(73)-(2000 HSC Code) 4,  - IMO Res. MSC.97(73)-(2000 HSC Code) 8,  - IMO MSC.1/Circ.808,  - IMO MSC.1/Circ.1369/Add.1. |

2. Marine pollution prevention

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

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/2.2  Oil/water interface detectors  Row 1 of 1 | Type approval requirements  - MARPOL 73/78 Annex I, Reg. 32. | - IMO Res. MEPC.5(XIII). | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - MARPOL 73/78 Annex I, Reg. 32. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/2.3  Oil-content meters  Row 1 of 1 | Type approval requirements  - MARPOL 73/78 Annex I, Reg. 14. | - IMO Res. MEPC.107(49), as amended,  - IMO MEPC.1/Circ. 643. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - MARPOL 73/78 Annex I, Reg. 14,  - IMO MEPC.1/Circ. 643. |

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

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/2.5  Oil discharge monitoring and control system for oil tankers  Row 1 of 1 | Type approval requirements  - MARPOL 73/78 Annex I, Reg. 31,  - IMO MEPC.1/Circ.858. | - IMO Res. MEPC.108(49), as amended. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - MARPOL 73/78 Annex I, Reg. 31. |

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| MED/2.6a  Sewage systems  (for use by passenger ships in all areas, including a MARPOL Annex IV special area).  Row 1 of 1 | Type approval requirements  - MARPOL 73/78 Annex IV, Reg. 9. | - IMO Res. MEPC.227(64), including section 4.2. | B+D  B+E  B+F  G | 16.3.2017 |  |
| Carriage and performance requirements  - MARPOL 73/78 Annex IV, Reg. 9. |
| MED/2.6b  Sewage systems  (for use by ships, other than passenger ships, in all areas and by passenger ships outside MARPOL Annex IV special areas).  Row 1 of 1 | Type approval requirements  - MARPOL 73/78 Annex IV, Reg. 9. | - IMO Res. MEPC.227(64), excluding section 4.2. | B+D  B+E  B+F  G | 16.3.2017 |  |
| Carriage and performance requirements  - MARPOL 73/78 Annex IV, Reg. 9. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/2.7  Shipboard incinerators  (Incinerator plants with capacities up to 4 000 kW)  Row 1 of 2 | Type approval requirements  - MARPOL 73/78 Annex VI, Reg. 16. | - IMO Res. MEPC.244(66). | B+D  B+E  B+F  G | 16.3.2017 | [OP please insert the date =  36 months after the date of entry into force of this Regulation]  (iii) |
| Carriage and performance requirements  - MARPOL 73/78 Annex VI, Reg. 16. |
| MED/2.7  Shipboard incinerators  (Incinerator plants with capacities up to 4 000 kW)  Row 2 of 2  (NEW ROW) | Type approval requirements  - MARPOL 73/78 Annex VI, Reg. 16. | - IMO Res. MEPC.244(66).  - IMO Res. MEPC.368(79). | B+D  B+E  B+F  G | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| Carriage and performance requirements  - MARPOL 73/78 Annex VI, Reg. 16. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/2.8  NOx analyser permanently placed on board and for use on board as per NOx Technical Code 2008  Row 1 of 1 | Type approval requirements  - IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 13). | - IMO Res. MEPC.177(58) - (NOx Technical Code 2008), as amended. | B+D  B+E  B+F  G |  |  |
| Carriage and performance requirements  - IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 13),  - IMO Res. MEPC.177(58) - (NOx Technical Code 2008),  - IMO Res. MEPC.291(71). |

Item MED/2.9, Equipment using other technological methods to limit SOx emissions, - moved to MED/9/2.4.

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/2.10  On board exhaust gas cleaning systems  Row 1 of 2 | 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  Scheme B:  G | 19.6.2018 | 10.10.2026  (iii) |
| Carriage and performance requirements  - IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4). |
| MED/2.10  On board exhaust gas cleaning systems  Row 2 of 2 | Type approval requirements  - IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4),  - IMO Res. MEPC.340(77). | - IMO Res. MEPC.340(77). | Scheme A:  B+F  G  Scheme B:  G | 10.10.2023 |  |
| Carriage and performance requirements  - IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4). |

3. Fire protection equipment

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| 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 deck coverings  Row 1 of 1 | 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.2  Portable fire extinguishers  Row 1 of 2 | 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 |  | 15.8.2025  (ii) |
| 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 Res.MSC.391(95)-(IGF Code) 11,  - IMO MSC/Circ.1239,  - IMO MSC/Circ.1275. |
| MED/3.2  Portable fire extinguishers  Row 2 of 2 | 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 3-8:2021,  - EN 3-9:2006 incl. AC:2007,  - EN 3-10:2009. | B+D  B+E  B+F | 15.8.2022 |  |
| 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 Res.MSC.391(95)-(IGF Code) 11,  - IMO MSC/Circ.1239,  - IMO MSC/Circ.1275. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.3a  Fire-fighter's outfit: protective clothing (close proximity clothing):  - protective non reflective clothing for firefighting  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 3. | - EN 469:2005 incl. A1:2006 and AC:2006. | B+D  B+E  B+F |  | 25.08.24  (ii) |
| 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. |
| MED/3.3a  Fire-fighter's outfit: protective clothing (close proximity clothing):  - protective non reflective clothing for firefighting  Row 2 of 3 | Type approval requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 3. | - EN 469:2020. | B+D  B+E  B+F | 25.8.2021 | [OP please insert the date =  9 (nine) months after the date of entry into force of this Regulation]  (ii) |
| 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. |

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| MED/3.3a  Fire-fighter's outfit: protective clothing (close proximity clothing):  Row 3 of 3  Note: To be exclusively certified where compliant with “level of protection” X2 and “grade of protection” Y2+Z2.  Note: Not applicable to heat-reflective (e.g. aluminised) clothing.  (NEW ROW) | Type approval requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 3. | - EN 469:2020. | B+D  B+E  B+F | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| 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. |

Item MED/3.3b, Fire-fighter's outfit: protective clothing (close proximity clothing): protective clothing for firefighting: reflective clothing for specialised firefighting - deleted by Implementing Regulation (EU) 2024/XXXX. **[OP please insert the number of this Regulation]**

Item MED/3.3c, Fire-fighter's outfit: protective clothing (close proximity clothing): protective clothing for firefighting - protective clothing with a reflective outer surface - deleted by Implementing Regulation (EU) 2024/XXXX**. [OP please insert the number of this Regulation]**

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.4  Fire-fighter's outfit: boots  Row 1 of 1 | 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,  - SOLAS 74 Reg. II-2/15,  - IMO Res. MSC.4(48)-(IBC Code) 11,  - IMO Res. MSC.5(48)-(IGC Code) 11  - IMO Res. MSC.36(63)-(1994 HSC Code) 7,  - IMO Res. MSC.97(73)-(2000 HSC Code) 7,  - IMO Res. MSC.98(73)-(FSS Code) 3. |
| MED/3.5  Fire-fighter's outfit: gloves  Row 1 of 1 | 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,  - SOLAS 74 Reg. II-2/15,  - IMO Res. MSC.4(48)-(IBC Code) 11,  - IMO Res. MSC.5(48)-(IGC Code) 11,  - IMO Res. MSC.36(63)-(1994 HSC Code) 7,  - IMO Res. MSC.97(73)-(2000 HSC Code) 7,  - IMO Res. MSC.98(73)-(FSS Code) 3. |

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| MED/3.6  Fire-fighter's outfit: helmet  Row 1 of 1 | 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,  - SOLAS 74 Reg. II-2/15,  - IMO Res. MSC.4(48)-(IBC Code) 11,  - IMO Res. MSC.5(48)-(IGC Code) 11,  - IMO Res. MSC.36(63)-(1994 HSC Code) 7,  - IMO Res.MSC.97(73)-(2000 HSC Code) 7,  - IMO Res.MSC.98(73)-(FSS Code) 3. |

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| MED/3.7  Self-contained compressed-air-operated breathing apparatus  Note: For use in accidents involving dangerous goods a positive pressure type mask is required.  (Refer to item MED/7.1)  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 3. | - ISO 23269-2:2011 (firefighting - maritime use only).  Type 1 mask shall not be used in either MED/3.7 or MED/7.1.  Note: Associated fireproof lifeline requested by ISO 23269 § 4.28 shall be MED certified as item MED 3.44 and used together with the breathing apparatus and capable of being attached by means of a snap-hook to the harness of the apparatus or to a separate belt in order to prevent the breathing apparatus becoming detached when the lifeline is operated.  The breathing apparatus module B certificate shall indicate the MED fireproof lifeline as mandatory combined component. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. II-2/15,  - SOLAS 74 Reg. II-2/19,  - IMO Res. MSC.4(48)-(IBC Code) 11,  - IMO Res. MSC.5(48)-(IGC Code) 11,  - IMO Res. MSC.36(63)-(1994 HSC Code) 7,  - IMO Res. MSC.97(73)-(2000 HSC Code) 7,  - IMO Res. MSC.98(73)-(FSS Code) 3,  - IMO MSC.1/Circ.1499,  - IMO MSC.1/Circ.1555. |

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| MED/3.8  Compressed air line breathing apparatus  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.36(63)-(1994 HSC Code) 7.  Note: This equipment is only for high-speed craft built under provisions of the 1994 HSC Code. | - EN 14593-1:2018.  Or:  - EN 14594:2018. | B+D  B+E  B+F | 13.9.2019 |  |
| Carriage and performance requirements  - IMO Res. MSC.36(63)-(1994 HSC Code) 7. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| 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).  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 1 | 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. | - IMO Res. A.800(19),as amended. | B+D  B+E  B+F |  |  |
| 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,  - IMO MSC/Circ. 1556. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.10  Nozzles for fixed pressure water spraying fire extinguishing systems for machinery spaces and cargo pump-rooms  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 7. | - IMO MSC/Circ.1165, 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) 7,  - IMO Res. MSC.391(95)-(IGF Code) 11),  - IMO MSC.1/Circ.1313. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.11a  'A' & 'B' Class divisions fire integrity:  - 'A' class division  Row 1of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/3.2,  - IMO MSC/Circ.1120. | - IMO Res. MSC.307(88)-(2010 FTP Code), as amended,  - IMO MSC.1/Circ.1435. | B+D  B+E  B+F |  | 18.5.2025  (iii) |
| 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,  - IMO MSC.1/Circ.1616. |
| MED/3.11a  'A' & 'B' Class divisions fire integrity:  - 'A' class division  Row 2of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/3.2,  - IMO MSC/Circ.1120. | - IMO Res. MSC.307(88)-(2010 FTP Code), as amended,  - IMO MSC.1/Circ.1435. | B+D  B+E  B+F | 18.5.2022 |  |
| 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,  - IMO MSC.1/Circ.1616,  - IMO MSC.1/Circ.1621. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.11b  'A' & 'B' Class divisions fire integrity:  - 'B' class divisions  Note: Where a B class bulkhead has been tested from only one side and has been designed to be installed with the untested side adjacent to the untested side of another B class bulkhead, the EC type-examination certificate shall include the conditions under which it can be installed on board ensuring that the level of protection indicated in the relevant fire integrity tables included in SOLAS Chapter II-2/Reg.9.2 Thermal and Structural Boundaries is always fulfilled.  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/3.4,  - IMO MSC/Circ.1120. | - 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,  - IMO MSC/Circ.1120,  - IMO MSC.1/Circ.1581. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.12a  Devices to prevent the passage of flame into the cargo tanks in tankers:  - P/V valves  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. II-2/16. | - IMO MSC/Circ.677, as amended,  - EN ISO 16852:2016,  - ISO 15364:2016. | B+F | 19.6.2018 | 25.8.2024  (iii) |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. II-2/16.  - IMO Res. MSC.98(73)-(FSS Code) 15. |
| MED/3.12a  Devices to prevent the passage of flame into the cargo tanks in tankers:  - P/V valves  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. II-2/16. | - IMO MSC/Circ.677, as amended,  - EN ISO 16852:2016,  - ISO 15364:2021. | B+F | 25.8.2021 |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. II-2/16.  - IMO Res. MSC.98(73)-(FSS Code) 15. |

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| MED/3.12b  Devices to prevent the passage of flame into the cargo tanks in tankers:  - flame arresters  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. II-2/16. | - IMO MSC/Circ.677, as amended,  - EN ISO 16852:2016. | B+D  B+E  B+F | 19.6.2018 |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. II-2/16.  - IMO Res. MSC.98(73)-(FSS Code) 15. |

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| MED/3.12c  Devices to prevent the passage of flame into the cargo tanks in tankers:  - detonation flame arresters  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. II-2/16. | - IMO MSC/Circ.677, as amended,  - EN ISO 16852:2016. | B+D  B+E  B+F | 19.6.2018 |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. II-2/16.  - IMO Res. MSC.98(73)-(FSS Code) 15. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.12d  Devices to prevent the passage of flame into the cargo tanks in tankers:  - high velocity vent valves  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. II-2/16. | - IMO MSC/Circ.677, as amended,  - EN ISO 16852:2016,  - ISO 15364:2016. | B+F | 19.6.2018 | 25.8.2024  (iii) |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. II-2/16.  - IMO Res. MSC.98(73)-(FSS Code) 15. |
| MED/3.12d  Devices to prevent the passage of flame into the cargo tanks in tankers:  - high velocity vent valves  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. II-2/16. | - IMO MSC/Circ.677, as amended,  - EN ISO 16852:2016,  - ISO 15364:2021. | B+F | 25.8.2021 |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. II-2/16.  - IMO Res. MSC.98(73)-(FSS Code) 15. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.13  Non-combustible materials  Row 1 of 1 | 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. |

MED/3.14, Materials other than steel for pipes penetrating “A” and “B” Class divisions – Item included in MED/3.26 and MED/3.27.

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.15a  Materials other than steel for pipes conveying oil or fuel oil:  - plastic pipes and fittings  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. X/3. | - IMO Res. A.753(18), 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-2/4,  - 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.15b  Materials other than steel for pipes conveying oil or fuel oil:  - valves  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. X/3. | - EN ISO 10497:2010. | B+D  B+E  B+F |  | [OP please insert the date =  36 months after the date of entry into force of this Regulation]  (iii) |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/4,  - IMO Res. MSC.36(63)-(1994 HSC Code) 7,  - IMO Res. MSC.36(63)-(1994 HSC Code) 10,  - IMO Res. MSC.97(73)-(2000 HSC Code) 7,  - IMO Res. MSC.97(73)-(2000 HSC Code) 10,  - IMO MSC/Circ.1120. |
| MED/3.15b  Materials other than steel for pipes conveying oil or fuel oil:  - valves  Row 2 of 2  (NEW ROW) | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. X/3. | - EN ISO 10497:2022. | B+D  B+E  B+F | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.15c  Materials other than steel for pipes conveying oil or fuel oil:  - flexible pipe assemblies and compensators  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. X/3. | - ISO 15540:2016,  - ISO 15541:2016. | B+D  B+E  B+F | 19.6.2018 |  |
| 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.15d  Materials other than steel for pipes conveying oil or fuel oil:  - metallic pipe components with resilient and elastomeric seals  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. X/3. | - ISO 19921:2005,  - ISO 19922:2005. | B+D  B+E  B+F |  |  |
| 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,  - IMO MSC/Circ.1527. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.16  Fire Doors  Row 1 of 1  Note: Fire door control system components are subject to conformity assessment in accordance with item MED/3.17. | 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.17  Fire door control systems components  Note: When the term "system components" is used it may be that a single component, a group of components or a whole system needs to be tested to ensure that the international requirements are fulfilled.  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/9,  - SOLAS 74 Reg. X/3. | - IMO Res. MSC.307(88)-(2010 FTP Code), as amended. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/9,  - IMO Res. MSC.97(73)-(2000 HSC Code) 7. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.18a  Surface materials and floor coverings with low flame-spread characteristics:  - decorative veneers  Row 1 of 1 | 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.18b  Surface materials and floor coverings with low flame-spread characteristics:  - paint systems  Row 1 of 1 | 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.18c  Surface materials and floor coverings with low flame-spread characteristics:  - floor coverings  Row 1 of 1 | 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.18d  Surface materials and floor coverings with low flame-spread characteristics:  - pipe insulation covers  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/3,  - SOLAS 74 Reg. II-2/5,  - 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,  - IMO Res. MSC.36(63)-(1994 HSC Code) 7,  - IMO Res. MSC.97(73)-(2000 HSC Code) 7,  - IMO MSC/Circ.1120. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.18e  Surface materials and floor coverings with low flame-spread characteristics:  - adhesives used in the construction of 'A', 'B' & 'C' class divisions  Row 1 of 1 | 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.18f  Surface materials and floor coverings with low flame-spread characteristics:  - combustible ducts membrane  Row 1 of 1 | 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.19  Draperies, curtains and other suspended textile materials and films  Row 1 of 1 | 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.20a  Upholstered furniture:  - complete piece of furniture (including cover material, filling material and non- combustible rack)  Row 1 of 1 | 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 | 12.8.2020 |  |
| 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. |
| MED/3.20b  Upholstered furniture:  - cover material for any filling material  Row 1 of 1 | 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), Annex 1 Part 8 Appendix 3, as amended. | B+D  B+E  B+F | 12.8.2020 |  |
| 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. |
| MED/3.20c  Upholstered furniture:  - cover material for flame-retardant filling material (tested in specific combination as intended for further application)  Row 1 of 1 | 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), Annex 1 Part 8 Appendix 3, as amended. | B+D  B+E  B+F | 12.8.2020 |  |
| 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. |
| MED/3.20d  Upholstered furniture:  - flame-retardant filling material  Row 1 of 1 | 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), Annex 1 Part 8 Appendix 3, as amended. | B+D  B+E  B+F | 12.8.2020 |  |
| 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.21  Bedding components  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 1 | 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.22  Fire dampers  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/9. | - IMO Res. MSC.307(88)-(2010 FTP Code), as amended. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/9,  - IMO Res. MSC.1/Circ.1655. |

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.

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.25  "A" and "B" class fireproof windows and side scuttles  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/9. | - IMO Res. MSC.307(88)-(2010 FTP Code), as amended. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/9,  - IMO Res. MSC.5(48)-(IGC Code) 3,  - IMO MSC/Circ.1120. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.26a  Penetrations through 'A' class divisions:  - electric cable transits  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/9. | - IMO Res. MSC.307(88)-(2010 FTP Code), as amended,  - IMO MSC.1/Circ. 1488. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/9,  - IMO Res. MSC.1/Circ.1655. |

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| 1 | 2 | 3 | | 4 | 5 | 6 |
| MED/3.26b  Penetrations through 'A' class divisions:  - pipe, duct, trunk, etc. penetrations  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/9. | | - IMO Res .MSC.307(88)-(2010 FTP Code), as amended,  - IMO MSC.1/Circ. 1488. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/9,  - IMO Res. MSC.1/Circ.1276 Rev.1,  - IMO Res. MSC.1/Circ.1655. | |

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| 1 | 2 | 3 | | 4 | 5 | 6 |
| MED/3.26c  Penetrations through 'A' class divisions:  - busbar trunking penetration systems  Row 1 of 1  New item inserted by Implementing Regulation (EU) 2022/1157 | Type approval requirements  - SOLAS 74 Reg. II-2/9. | | - IMO Res .MSC.307(88)-(2010 FTP Code), as amended,  - IMO MSC.1/Circ. 1488. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/9,  - IMO Res. MSC.1/Circ.1655. | |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.27a  Penetrations through 'B' class divisions:  - electric cable transits  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/9. | - IMO Res. MSC.307(88)-(2010 FTP Code), as amended. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/9,  - IMO Res. MSC.1/Circ.1655. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.27b  Penetrations through 'B' class divisions:  - pipe, duct, trunk, etc. penetrations  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/9. | - IMO Res. MSC.307(88)-(2010 FTP Code), as amended. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/9,  - IMO Res. MSC.1/Circ.1655. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.28  Sprinkler systems (limited to sprinkler heads)  (Nozzles for fixed sprinkler systems, for high-speed craft (HSC) are included under this item).  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/7,  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3. | - ISO 6182-1:2014.  Or:  - EN 12259-1:1999 incl. A1:2001, A2:2004 and A3:2006. | B+D  B+E  B+F |  | 15.8.2025  (iii) |
| 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,  - IMO MSC.1/Circ.1556. |
| MED/3.28  Sprinkler systems (limited to sprinkler heads)  (Nozzles for fixed sprinkler systems, for high-speed craft (HSC) are included under this item).  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/7,  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3. | - ISO 6182-1:2021.  Or:  - EN 12259-1:1999 incl. A1:2001, A2:2004 and A3:2006. | B+D  B+E  B+F | 15.8.2022 |  |
| 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,  - IMO MSC.1/Circ.1556. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.29  Fire-fighting hoses:  - non-percolating lay flat firefighting hoses (range of the inside diameter from 25 mm to 52 mm)  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3. | - EN 14540:2014. | 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. |

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| MED/3.30a  Portable oxygen analysis and/or gas detection equipment:  - category 1: (safe area)  Row 1 of 3 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. VI/3,  - SOLAS 74 Reg. XI-1/7. | - EN 50104:2010,  - EN 60079-29-1:2016,  - 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. | B+D  B+E  B+F | 12.8.2020 | 25.8.2024  (ii) |
| 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,  - IMO MSC.1/Circ.1581. |
| MED/3.30a  Portable oxygen analysis and/or gas detection equipment:  - category 1: (safe area)  Row 2 of 3 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. VI/3,  - SOLAS 74 Reg. XI-1/7. | - EN 50104:2019,  - EN 60079-29-1:2016,  - 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. | B+D  B+E  B+F | 25.8.2021 | [OP please insert the date =  36 months after the date of entry into force of this Regulation]  (ii) |
| 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,  - IMO MSC.1/Circ.1581. |

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| MED/3.30a  Portable oxygen analysis and/or gas detection equipment:  - category 1: (safe area)  Row 3 of 3  (NEW ROW) | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. VI/3,  - SOLAS 74 Reg. XI-1/7. | - EN 50104:2019 incl. EN 50104:2019/A1:2023,  - EN 60079-29-1:2016 incl. EN 60079-29-1:2016/A1:2022 and EN 60079-29-1:2016/A11.2022,  - 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. | B+D  B+E  B+F | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| 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,  - IMO MSC.1/Circ.1581. |

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| MED/3.30b  Portable oxygen analysis and/or gas detection equipment:  - category 2: (explosive gas atmospheres)  Row 1 of 5 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. VI/3,  - SOLAS 74 Reg. XI-1/7. | - EN 50104:2010,  - EN 60079-29-1:2016,  - EN IEC 60079-0:2018,  - EN 60079-1:2014,  - EN 60079-10-1:2015,  - EN 60079-11:2012,  - EN 60079-15:2010,  - EN 60079-26:2015,  - 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. | B+D  B+E  B+F | 12.8.2020 | 25.8.2024  (ii) |
| 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,  - IMO MSC.1/Circ.1581. |
| MED/3.30b  Portable oxygen analysis and/or gas detection equipment:  - category 2: (explosive gas atmospheres)  Row 2 of 5 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. VI/3,  - SOLAS 74 Reg. XI-1/7. | - EN 50104:2019,  - EN 60079-29-1:2016,  - EN IEC 60079-0:2018, incl. AC:2020,  - EN 60079-1:2014,  - EN 60079-10-1:2015,  - EN 60079-11:2012,  - EN 60079-15:2010,  - EN 60079-26:2015,  - 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. | B+D  B+E  B+F | 25.8.2021 | 15.8.2025  (ii) |
| 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,  - IMO MSC.1/Circ.1581. |
| MED/3.30b  Portable oxygen analysis and/or gas detection equipment:  - category 2: (explosive gas atmospheres)  Row 3 of 5 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. VI/3,  - SOLAS 74 Reg. XI-1/7. | - EN 50104:2019,  - EN 60079-29-1:2016,  - EN IEC 60079-0:2018, incl. AC:2020,  - EN 60079-1:2014, incl.AC:2018-09,  - EN 60079-10-1:2021,  - EN 60079-11:2012,  - EN 60079-15:2010,  - EN 60079-26:2015,  - 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. | B+D  B+E  B+F | 15.8.2022 | 10.10.2026  (ii) |
| 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,  - IMO MSC.1/Circ.1581. |

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| MED/3.30b  Portable oxygen analysis and/or gas detection equipment:  - category 2: (explosive gas atmospheres)  Row 4 of 5 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. VI/3,  - SOLAS 74 Reg. XI-1/7. | - EN 50104:2019,  - EN IEC 60079-0:2018, incl. AC:2020,  - EN 60079-1:2014, incl.AC:2018-09,  - EN IEC 60079-10-1:2021,  - EN 60079-11:2012,  - EN IEC 60079-15:2019,  - EN 60079-26:2015,  - EN 60079-29-1:2016 incl. A1:2022 and A11:2022,  - 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. | B+D  B+E  B+F | 10.10.2023 | [OP please insert the date =  36 months after the date of entry into force of this Regulation]  (ii) |
| 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,  - IMO MSC.1/Circ.1581. |

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| MED/3.30b  Portable oxygen analysis and/or gas detection equipment:  - category 2: (explosive gas atmospheres)  Row 5 of 5  (NEW ROW) | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. VI/3,  - SOLAS 74 Reg. XI-1/7. | - EN 50104:2019 incl. EN 50104:2019/A1:2023,  - EN IEC 60079-0:2018, incl. AC:2020,  - EN 60079-1:2014, incl.AC:2018-09,  - EN IEC 60079-10-1:2021,  - EN 60079-11:2012,  - EN IEC 60079-15:2019,  - EN 60079-26:2015,  - EN 60079-29-1:2016 incl. A1:2022 and A11:2022,  - 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. | B+D  B+E  B+F | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| 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,  - IMO MSC.1/Circ.1581. |

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.

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.32  Fire restricting materials (except furniture) for high-speed craft  Row 1 of 1 | 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,  - IMO MSC.1/Circ.1457. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.33  Fire restricting materials for furniture for high-speed craft  Row 1 of 1 | 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.34  Fire resisting divisions for high-speed craft  Row 1 of 1 | 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,  - IMO MSC.1/Circ.1457. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.35  Fire doors on high-speed craft  Row 1 of 1  Note: Fire door control system components are subject to conformity assessment in accordance with item MED/3.17. | 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.36  Fire dampers on high-speed craft  Row 1 of 1 | 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.37a  Penetrations through fire resisting divisions on high-speed craft:  - electric cable transits  Row 1 of 1 | 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.37b  Penetrations through fire resisting divisions on high-speed craft:  - pipe, duct, trunk etc. penetrations  Row 1 of 1 | 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.38  Portable fire-extinguishing equipment for lifeboats and rescue boats  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - 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 |  | 25.8.2025  (ii) |
| 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. |
| MED/3.38  Portable fire-extinguishing equipment for lifeboats and rescue boats  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. X/3. | - EN 3-7:2004 incl. A1:2007,  - EN 3-8:2021,  - EN 3-9:2006 incl. AC:2007,  - EN 3-10:2009. | B+D  B+E  B+F | 25.8.2022 |  |
| 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.39  Nozzles for equivalent water-mist fire extinguishing systems for machinery spaces and cargo pump rooms  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 7. | - IMO MSC/Circ.1165, 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) 7,  - IMO MSC.1/Circ.1313,  - IMO MSC.1/Circ.1458. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.40  Low-location lighting systems (components only)  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 3 | 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 |  | 25.8.2024  (ii) |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/13,  - IMO Res. A.752(18),  - IMO Res. MSC.98(73)-(FSS Code) 11. |
| MED/3.40  Low-location lighting systems (components only)  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 2 of 3 | Type approval requirements  - SOLAS 74 Reg. II-2/13,  - IMO Res. MSC.98(73)-(FSS Code) 11. | - IMO Res. A.752(18),  - ISO 15370:2021. | B+D  B+E  B+F | 25.8.2021 | [OP please insert the date =  36 months after the date of entry into force of this Regulation]  (ii) |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/13,  - IMO Res. A.752(18),  - IMO Res. MSC.98(73)-(FSS Code) 11. |
| MED/3.40  Low-location lighting systems (components only)  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 3 of 3  (NEW ROW) | Type approval requirements  - SOLAS 74 Reg. II-2/13,  - IMO Res. MSC.98(73)-(FSS Code) 11. | - ISO 15370:2021 incl. ISO 15370:2021 /Amd1:2023. | B+D  B+E  B+F | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/13,  - IMO Res. A.752(18),  - IMO Res. MSC.98(73)-(FSS Code) 11. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.41a  Emergency escape breathing devices (EEBD):  - self-contained open-circuit compressed air breathing apparatus with full mask or mouthed piece assembly for escape  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/13. | - ISO 23269-1:2008,  - EN 402:2003. | 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. |
| MED/3.41b  Emergency escape breathing devices (EEBD):  - self-contained open-circuit compressed air breathing apparatus with a hood for escape  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/13. | - ISO 23269-1:2008,  - EN 1146:2005. | 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. |
| MED/3.41c  Emergency escape breathing devices (EEBD):  - self-contained closed-circuit compressed air breathing apparatus  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/13. | - ISO 23269-1:2008,  - EN 13794:2002. | 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.42a  Inert gas systems:  Whole system.  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/4. | - IMO MSC/Circ.353, as amended. | G | 12.8.2020 | 10.10.2026  (iii) |
| 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. |
| MED/3.42a  Inert gas systems:  Whole system.  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/4. | - IMO MSC/Circ.353, as amended,  - IMO Res.MSC.98(73)-(FSS Code) 15. | G | 10.10.2023 |  |
| 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. |

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| MED/3.42b  Inert gas systems:  - single components:   * + inert gas scrubbers   Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/4. | - IMO MSC/Circ.353, as amended. | B+D  B+E  B+F  G |  |  |
| 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. |
| MED/3.42c  Inert gas systems:  - single components:   * + inert gas blowers   Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/4. | - IMO MSC/Circ.353, as amended. | B+D  B+E  B+F  G |  |  |
| 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.43  Nozzles for deep fat cooking equipment fire extinguishing systems (automatic or manual type)  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/1,  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3. | - ISO 15371:2015. | B+D  B+E  B+F | 16.3.2017 |  |
| 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.44  Fire-fighters outfit – lifeline  - lifelines for breathing apparatus approved under item MED/3.7 and item MED/7.1  Row 1 of 1 | 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,  - ISO 23269-2:2011. | B+D  B+E  B+F | 13.9.2019 |  |
| 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.45  Equivalent fixed gas fire extinguishing systems components (extinguishing medium, head valves and nozzles) for machinery spaces and cargo pump rooms  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 5. | - IMO MSC/Circ.848, as amended. | B+D  B+E  B+F |  | 15.8.2025  (iii) |
| 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. |
| MED/3.45  Equivalent fixed gas fire extinguishing systems components (extinguishing medium, head valves and nozzles) for machinery spaces and cargo pump rooms  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 5. | - IMO MSC/Circ.848, as amended. | B+D  B+E  B+F | 15.8.2022 |  |
| 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 Res. MSC.391(95)-(IGF Code) 11,  - IMO MSC/Circ.848,  - IMO MSC.1/Circ.1313. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.46  Equivalent fixed gas fire extinguishing systems for machinery spaces (aerosol systems)  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 5. | - IMO MSC/Circ.1270 incl. Corr.1, as amended. | B+D  B+E  B+F |  | 15.8.2025  (iii) |
| 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. |
| MED/3.46  Equivalent fixed gas fire extinguishing systems for machinery spaces (aerosol systems)  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 5. | - IMO MSC/Circ.1270 incl. Corr.1, as amended. | B+D  B+E  B+F | 15.8.2022 |  |
| 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 Res. MSC.391(95)-(IGF Code) 11,  - IMO MSC/Circ.1270 incl. Corr.1,  - IMO MSC.1/Circ.1313. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.47  Concentrate for fixed high expansion foam fire extinguishing systems for machinery spaces and cargo pump rooms  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.  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/10. | - IMO MSC/Circ.670. | B+D  B+E  B+F |  | 15.8.2025  (iii) |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/10,  - IMO Res. MSC.98(73)-(FSS Code) 6. |
| MED/3.47  Concentrate for fixed high expansion foam fire extinguishing systems for machinery spaces and cargo pump rooms  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.  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/10. | - IMO MSC/Circ.670. | B+D  B+E  B+F | 15.8.2022 |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/10,  - IMO Res. MSC.98(73)-(FSS Code) 6,  - IMO Res. MSC.391(95)-(IGF Code) 11. |

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| MED/3.48  Fixed water based local application fire-fighting systems components for use in category A machinery spaces  (Nozzles and performance tests).  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3. | - IMO MSC.1/Circ.1387. | 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.49a  Fixed water-based fire-fighting systems for roro spaces, vehicle spaces and special category spaces:  - prescriptive-based systems as per IMO MSC.1/Circ.1430, Revision 3  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/19,  - SOLAS 74 Reg. II-2/20,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 7. | - IMO MSC.1/Circ.1430, Revision 3. | B+D  B+E  B+F | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.49b  Fixed water-based firefighting systems for roro spaces, vehicle spaces and special category spaces:  - performance-based systems as per IMO MSC.1/Circ. 1430, Revision 3  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/19,  - SOLAS 74 Reg. II-2/20,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 7. | - IMO MSC.1/Circ.1430, Revision 3. | B+D  B+E  B+F | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| 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. |

MED/3.50, Protective clothing resistant to chemical attack, - item moved to MED/9/3.9.

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| 1 | 2 | 3 | 4 | 5 | 6 |
| 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:  - control and indicating equipment  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/7,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 9. | Electrical installations in ships:  - EN 54-2:1997 incl. AC:1999 and A1:2006.  And, as applicable, electrical and electronic installations in ships:  - IEC 60092-504:2016,  - IEC 60533:2015. | B+D  B+E  B+F | 19.6.2018 | 15.8.2025  (iii) |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/7,  - IMO Res. MSC.36(63)-(1994 HSC Code) 7,  - IMO Res. MSC.97(73)-(2000 HSC Code) 7,  - IMO Res. MSC.98(73)-(FSS Code) 9,  - IMO Res. MSC.391(95)-(IGF Code) 11,  - IMO MSC.1/Circ.1242,  - IMO MSC.1/Circ.1487,  - IMO MSC.1/Circ.1528. |
| 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:  - control and indicating equipment  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/7,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 9. | Electrical installations in ships:  - EN 54-2:1997 incl. AC:1999 and A1:2006.  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or,  - EN 54-2:1997 incl. AC:1999 and A1:2006.  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  And, as applicable, electrical and electronic installations in ships:  - IEC 60092-504:2016,  - IEC 60533:2015. | B+D  B+E  B+F | 15.8.2022 |  |
| 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 Res. MSC.302(87),  - IMO Res. MSC.391(95)-(IGF Code) 11,  - IMO MSC.1/Circ.1242,  - IMO MSC.1/Circ.1487,  - IMO MSC.1/Circ.1528. |

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| MED/3.51b  Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:  - power supply equipment  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/7,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 9. | - EN 54-4:1997 incl. AC:1999, A1:2002 and A2:2006.  And, as applicable, electrical and electronic installations in ships:  - IEC 60092-504:2016,  - IEC 60533:2015. | B+D  B+E  B+F | 19.6.2018 |  |
| 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 Res. MSC.391(95)-(IGF Code) 11,  - IMO MSC.1/Circ.1242,  - IMO MSC.1/Circ.1554. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| 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:  - heat detectors - point detectors  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/7,  - SOLAS 74 Reg. X/3,  - IMO Res.MSC.98(73)-(FSS Code) 9. | - EN 54-5:2017 incl. A1:2018.  And, as applicable, electrical and electronic installations in ships:  - IEC 60092-504:2016,  - IEC 60533:2015. | B+D  B+E  B+F | 12.8.2020 |  |
| 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 Res. MSC.391(95)-(IGF Code) 11,  - IMO MSC.1/Circ.1242. |

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| 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:  - smoke detectors: point detectors using scattered light, transmitted light or ionization  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/7,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 9. | - EN 54-7:2018.  And, as applicable, electrical and electronic installations in ships:  - IEC 60092-504:2016,  - IEC 60533:2015. | B+D  B+E  B+F | 13.9.2019 |  |
| 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 Res. MSC.391(95)-(IGF Code) 11,  - IMO MSC.1/Circ.1242. |

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| MED/3.51e  Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces:  - flame detectors: point detectors  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/7,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 9. | - EN 54-10:2002 incl. A1:2005,  And, as applicable, electrical and electronic installations in ships:  - IEC 60092-504:2016,  - IEC 60533:2015. | B+D  B+E  B+F | 19.6.2018 |  |
| 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 Res. MSC.391(95)-(IGF Code) 11,  - IMO MSC.1/Circ.1242. |

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| 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:  - manual call points  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/7,  - SOLAS 74 Reg. X/3,  - IMO Res.MSC.98(73)-(FSS Code) 9. | - EN 54-11:2001 incl. A1:2005.  And, as applicable, electrical and electronic installations in ships:  - IEC 60092-504:2016,  - IEC 60533:2015. | B+D  B+E  B+F | 19.6.2018 |  |
| 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 Res. MSC.391(95)-(IGF Code) 11,  - IMO MSC.1/Circ.1242. |

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| 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:  - short circuit isolators  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/7,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 9. | - EN 54-17:2005 incl. AC:2007.  And, as applicable, electrical and electronic installations in ships:  - IEC 60092-504:2016,  - IEC 60533:2015. | B+D  B+E  B+F | 19.6.2018 |  |
| 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 Res. MSC.391(95)-(IGF Code) 11,  - IMO MSC.1/Circ.1242. |

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| 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:  - input/output devices  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/7,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 9. | - EN 54-18:2005 incl. AC:2007.  And, as applicable, electrical and electronic installations in ships:  - IEC 60092-504:2016,  - IEC 60533:2015. | B+D  B+E  B+F | 19.6.2018 |  |
| 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 Res. MSC.391(95)-(IGF Code) 11,  - IMO MSC.1/Circ.1242. |

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| 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:  - cables  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/7,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 9. | - EN 60332-1-2:2004 incl. A1:2015 and A11:2016,  - IEC 60092-376:2017.  And, as applicable, electrical and electronic installations in ships:  - IEC 60092-504:2016,  - IEC 60533:2015.  - IEC 60332-1-2:2004 incl. A1:2015.  And/or:  Fire Resistant Cables:  - IEC 60092-376:2017,  - IEC 60331-1:2018 or IEC 60331-2:2018.  And, as applicable, electrical and electronic installations in ships:  - IEC 60092-504:2016,  - IEC 60533:2015,  - IEC 60332-1-2:2004 incl. A1:2015. | B+D  B+E  B+F | 13.9.2019 | 15.8.2025  (iii) |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/7,  - IMO Res. MSC.36(63)-(1994 HSC Code) 7,  - IMO Res. MSC.97(73)-(2000 HSC Code) 7,  - IMO Res. MSC.98(73)-(FSS Code) 9,  - IMO Res. MSC.391(95)-(IGF Code) 11,  - IMO MSC.1/Circ.1242. |
| 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:  - cables  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/7,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 9. | - EN 60332-1-2:2004 incl. A1:2015, A11:2016 and A12:2020,  - IEC 60092-376:2017.  And, as applicable, electrical and electronic installations in ships:  - IEC 60092-504:2016,  - IEC 60533:2015.  - IEC 60332-1-2:2004 incl. A1:2015.  And/or:  Fire Resistant Cables:  - IEC 60092-376:2017,  - IEC 60331-1:2018 or IEC 60331-2:2018.  And, as applicable, electrical and electronic installations in ships:  - IEC 60092-504:2016,  - IEC 60533:2015,  - IEC 60332-1-2:2004 incl. A1:2015. | B+D  B+E  B+F | 15.8.2022 |  |
| 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 Res. MSC.391(95)-(IGF Code) 11,  - IMO MSC.1/Circ.1242. |

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| MED/3.52  Non-portable and transportable fire extinguishers  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3. | - EN 1866-1:2007,  - EN 1866-2:2014.  Or:  - EN 1866-1:2007,  - EN 1866-3:2013.  Or:  - ISO 11601:2017. | B+D  B+E  B+F | 13.9.2019 |  |
| 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. |

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| MED/3.53  Fire alarm devices – sounders  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/7,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 9. | - EN 54-3:2014,  - IEC 60092-504:2016,  - IEC 60533:2015. | B+D  B+E  B+F | 16.3.2017 | 12.8.2023  (iii) |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/7,  - IMO Res. MSC.36(63)-(1994 HSC Code) 7,  - IMO Res. MSC.97(73)-(2000 HSC Code) 7,  - IMO Res. MSC.98(73)-(FSS Code) 9.  - IMO MSC.1/Circ.1242,  - IMO MSC.1/Circ.1487. |
| MED/3.53  Fire alarm devices – sounders  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/7,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.98(73)-(FSS Code) 9. | - EN 54-3:2014 incl. A1:2019,  - IEC 60092-504:2016,  - IEC 60533:2015. | B+D  B+E  B+F | 12.8.2020 |  |
| 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,  - IMO MSC.1/Circ.1487. |

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| MED/3.54a  Fixed oxygen analysis and/or gas detection equipment:  - category 4: (safe area)  Row 1 of 3 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. VI/3. | - EN 50104:2010,  - IEC 60092-504:2016,  - IEC 60533:2015.  For combined O2/HC systems, additionally:  - IMO MSC.1/Circ.1370. | B+D  B+E  B+F | 12.8.2020 | 25.8.2024  (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. |
| MED/3.54a  Fixed oxygen analysis and/or gas detection equipment:  - category 4: (safe area)  Row 2 of 3 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. VI/3. | - EN 50104:2019,  - IEC 60092-504:2016,  - IEC 60533:2015.  For combined O2/HC systems, additionally:  - IMO MSC.1/Circ.1370. | B+D  B+E  B+F | 25.8.2021 | [OP please insert the date =  36 months after the date of entry into force of this Regulation]  (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. |
| MED/3.54a  Fixed oxygen analysis and/or gas detection equipment:  - category 4: (safe area)  Row 3 of 3  (NEW ROW) | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. VI/3. | - EN 50104:2019 incl. EN 50104:2019/A1:2023,  - IEC 60092-504:2016,  - IEC 60533:2015.  For combined O2/HC systems, additionally:  - IMO MSC.1/Circ.1370. | B+D  B+E  B+F | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| 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. |

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| MED/3.54b  Fixed oxygen analysis and/or gas detection equipment:  - category 3: (explosive gas atmospheres)  Row 1 of 4 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. VI/3. | - EN 50104:2010,  - EN 60079-0:2012 incl. A11:2013,  - EN 60079-29-1:2016,  - IEC 60092-504:2016,  - IEC 60533:2015.  For combined O2/HC systems, additionally:  - IMO MSC.1/Circ.1370. | B+D  B+E  B+F | 19.6.2018 | 12.8.2023  (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. |
| MED/3.54b  Fixed oxygen analysis and/or gas detection equipment:  - category 3: (explosive gas atmospheres)  Row 2 of 4 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. VI/3. | - EN 50104:2010,  - EN IEC 60079-0:2018,  - EN 60079-29-1:2016,  - IEC 60092-504:2016,  - IEC 60533:2015.  For combined O2/HC systems, additionally:  - IMO MSC.1/Circ.1370. | B+D  B+E  B+F | 12.8.2020 | 25.8.2024  (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. |
| MED/3.54b  Fixed oxygen analysis and/or gas detection equipment:  - category 3: (explosive gas atmospheres)  Row 3 of 4 | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. VI/3. | - EN 50104:2019,  - EN IEC 60079-0:2018 incl. AC:2020,  - EN 60079-29-1:2016,  - IEC 60092-504:2016,  - IEC 60533:2015.  For combined O2/HC systems, additionally:  - IMO MSC.1/Circ.1370. | B+D  B+E  B+F | 25.8.2021 | [OP please insert the date =  36 months after the date of entry into force of this Regulation]  (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. |

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| MED/3.54b  Fixed oxygen analysis and/or gas detection equipment:  - category 3: (explosive gas atmospheres)  Row 4 of 4  (NEW ROW) | Type approval requirements  - SOLAS 74 Reg. II-2/4,  - SOLAS 74 Reg. VI/3. | - EN 50104:2019 incl. EN 50104:2019/A1:2023,  - EN IEC 60079-0:2018 incl. AC:2020,  - EN 60079-29-1:2016 incl. EN 60079-29-1:2016/A1:2022 and EN 60079-29-1:2016/A11.2022,  - IEC 60092-504:2016,  - IEC 60533:2015.  For combined O2/HC systems, additionally:  - IMO MSC.1/Circ.1370. | B+D  B+E  B+F | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.55a  Dual purpose type nozzles (spray/jet type):  - Hand-held branch pipes for fire service use - Combination branch pipes PN 16  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3. | - EN 15182-1:2007 incl. A1:2009,  - EN 15182-2:2007 incl. A1:2009. | B+D  B+E  B+F |  | 12.8.2023  (iii) |
| 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/3.55a  Dual purpose type nozzles (spray/jet type):  - Hand-held branch pipes for fire service use - Combination branch pipes PN 16  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3. | - EN 15182-1:2019,  - EN 15182-2:2019. | B+D  B+E  B+F | 12.8.2020 |  |
| 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. |

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| MED/3.55b  Dual purpose type nozzles (spray/jet type):  - Hand-held branch pipes for fire service use - Smooth bore jet and/or one fixed spray jet angle branch pipes PN 16  Row 1 of 3 | Type approval requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3. | - EN 15182-1:2007 incl. A1:2009,  - EN 15182-3:2007 incl. A1:2009. | B+D  B+E  B+F |  | 12.8.2023  (iii) |
| 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/3.55b  Dual purpose type nozzles (spray/jet type):  - Hand-held branch pipes for fire service use - Smooth bore jet and/or one fixed spray jet angle branch pipes PN 16  Row 2 of 3 | Type approval requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3. | - EN 15182-1:2019,  - EN 15182-3:2019. | B+D  B+E  B+F | 12.8.2020 | [OP please insert the date =  9 (nine) months after the date of entry into force of this Regulation]  (iii) |
| 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/3.55b  Dual purpose type nozzles (spray/jet type):  - Hand-held branch pipes for fire service use - Smooth bore jet and/or one fixed spray jet angle branch pipes PN 16  Note: Minimum spray angle of 30°.  Row 3 of 3  (NEW ROW) | Type approval requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3. | - EN 15182-1:2019,  - EN 15182-3:2019. | B+D  B+E  B+F | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.56  Fixed firefighting hose systems:  - hose reels with semi-rigid hose  Row 1 of 1 | 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.57  Medium Expansion Foam Fire Extinguishing Systems components - Fixed Deck Foam for Tankers  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/10. | - IMO MSC/Circ.798. | B+D  B+E  B+F |  | [OP please insert the date =  36 months after the date of entry into force of this Regulation]  (iii) |
| 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. |
| MED/3.57  Medium Expansion Foam Fire Extinguishing Systems components - Fixed Deck Foam for Tankers  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 2 of 2  (NEW ROW) | Type approval requirements  - SOLAS 74 Reg. II-2/10. | - IMO MSC/Circ.798. | B+D  B+E  B+F | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| 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 Rev 1. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.58  Fixed Low Expansion Foam Fire Extinguishing Systems Components for Machinery Spaces and Tanker Deck Protection  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/10. | - IMO MSC.1/Circ.1312,  - IMO MSC.1/Circ.1312/Corr.1. | B+D  B+E  B+F |  | [OP please insert the date =  36 months after the date of entry into force of this Regulation]  (iii) |
| 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. |
| MED/3.58  Fixed Low Expansion Foam Fire Extinguishing Systems Components for Machinery Spaces and Tanker Deck Protection  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 2 of 2  (NEW ROW) | Type approval requirements  - SOLAS 74 Reg. II-2/10. | - IMO MSC.1/Circ.1312,  - IMO MSC.1/Circ.1312/Corr.1. | B+D  B+E  B+F | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| 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 Rev 1 |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.59  Expansion Foam for Fixed Fire Extinguishing Systems for Chemical Tankers  Row 1 of 1 | 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.60  Nozzles for fixed pressure water-spraying fire-extinguishing systems for cabin balconies  Row 1 of 1 | 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.61a  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  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.  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/10. | - IMO MSC.1/Circ.1384. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/10,  - IMO Res. MSC.98(73)-(FSS Code) 6,  - IMO MSC.1/Circ.1528. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.61b  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  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.  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/10. | - IMO MSC.1/Circ.1384. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/10,  - IMO Res. MSC.98(73)-(FSS Code) 6,  - IMO MSC.1/Circ.1528. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.62  Dry chemical powder extinguishing systems  Row 1 of 1  (NEW ROW) | Type approval requirements  - SOLAS 74 Reg. II-2/1. | - IMO MSC.1/Circ. 1315 Rev1. | B+D  B+E  B+F | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/1.  - IMO Res. MSC.5(48)-(IGC Code) 11,  - IMO Res. MSC.391(95)-(IGF Code) 11,  - IMO MSC.1/Circ. 1617. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.63a  Sample extraction smoke detection systems components:  - control and indicating equipment. Electrical installations in ships  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 3 | 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,  - EN 54-2:1997 incl. AC:1999 and A1:2006.  And, as applicable, electrical and electronic installations in ships:  - IEC 60092-504:2016,  - IEC 60533:2015.  And, as applicable for explosive atmospheres:  - EN 60079-0:2012 incl. A11:2013. | B+D  B+E  B+F | 19.6.2018 | 12.8.2023  (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/3.63a  Sample extraction smoke detection systems components:  - control and indicating equipment. Electrical installations in ships  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 2 of 3 | 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,  - EN 54-2:1997 incl. AC:1999 and A1:2006.  And, as applicable, electrical and electronic installations in ships:  - IEC 60092-504:2016,  - IEC 60533:2015.  And, as applicable for explosive atmospheres:  - EN IEC 60079-0:2018. | B+D  B+E  B+F | 12.8.2020 | 25.8.2024  (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/3.63a  Sample extraction smoke detection systems components:  - control and indicating equipment. Electrical installations in ships  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 3 of 3 | 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.  - EN 54-2:1997 incl. AC:1999 and A1:2006.  And, as applicable, electrical and electronic installations in ships:  - IEC 60092-504:2016,  - IEC 60533:2015.  And, as applicable for explosive atmospheres:  - EN IEC 60079-0:2018incl. AC:2020. | B+D  B+E  B+F | 25.8.2021 |  |
| 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. |

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| MED/3.63b  Sample extraction smoke detection systems components:  - power supply equipment  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 3 | 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,  - 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.  And, as applicable for explosive atmospheres:  - EN 60079-0:2012 incl. A11:2013. | B+D  B+E  B+F | 19.6.2018 | 12.8.2023  (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/3.63b  Sample extraction smoke detection systems components:  - power supply equipment  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 2 of 3 | 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,  - 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.  And, as applicable for explosive atmospheres:  - EN IEC 60079-0:2018. | B+D  B+E  B+F | 12.8.2020 | 25.8.2024  (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/3.63b  Sample extraction smoke detection systems components:  - power supply equipment  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 3 of 3 | 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.  - 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.  And, as applicable for explosive atmospheres:  - EN IEC 60079-0:2018 **incl. AC:2020**. | B+D  B+E  B+F | 25.8.2021 |  |
| 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. |

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| MED/3.63c  Sample extraction smoke detection systems components:  - aspiring smoke detectors  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 3 | 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,  - EN 54-20:2006 incl. AC:2008.  And, as applicable, electrical and electronic installations in ships:  - IEC 60092-504:2016,  - IEC 60533:2015.  And, as applicable for explosive atmospheres:  - EN 60079-0:2012 incl. A11:2013. | B+D  B+E  B+F | 19.6.2018 | 12.8.2023  (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/3.63c  Sample extraction smoke detection systems components:  - aspiring smoke detectors  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 2 of 3 | 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,  - EN 54-20:2006 incl. AC:2008.  And, as applicable, electrical and electronic installations in ships:  - IEC 60092-504:2016,  - IEC 60533:2015.  And, as applicable for explosive atmospheres:  - EN IEC 60079-0:2018. | B+D  B+E  B+F | 12.8.2020 | 25.8.2024  (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/3.63c  Sample extraction smoke detection systems components:  - aspiring smoke detectors  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 3 of 3 | 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,  - EN 54-20:2006 incl. AC:2008.  And, as applicable, electrical and electronic installations in ships:  - IEC 60092-504:2016,  - IEC 60533:2015.  And, as applicable for explosive atmospheres:  - EN IEC 60079-0:2018 incl. AC:2020. | B+D  B+E  B+F | 25.8.2021 |  |
| 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. |

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| MED/3.64  C class divisions  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/3.10. | - IMO Res. MSC.307(88)-(2010 FTP Code), as amended. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/3.10,  - SOLAS 74 Reg. II-2/3.33,  - SOLAS 74 Reg. II-2/9,  - IMO MSC/Circ.1120. |

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| MED/3.65  Fixed hydrocarbon gas detection system  Row 1 of 4 | Type approval requirements  - SOLAS 74 Reg. II-2/4. | - IMO MSC.1/Circ.1370,  - EN 60079-0:2012 incl. A11:2013,  - EN 60079-29-1:2016,  - IEC 60092-504:2016,  - IEC 60533:2015. | B+D  B+E  B+F | 19.6.2018 | 12.8.2023  (iii) |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/4,  - IMO Res. MSC.98(73)-(FSS Code) 16,  - IMO MSC.1/Circ.1370,  - IMO MSC.1/Circ.1527. |
| MED/3.65  Fixed hydrocarbon gas detection system  Row 2 of 4 | Type approval requirements  - SOLAS 74 Reg. II-2/4. | - IMO MSC.1/Circ.1370,  - EN IEC 60079-0:2018,  - EN 60079-29-1:2016,  - IEC 60092-504:2016,  - IEC 60533:2015. | B+D  B+E  B+F | 12.8.2020 | 25.8.2024  (iii) |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/4,  - IMO Res. MSC.98(73)-(FSS Code) 16,  - IMO MSC.1/Circ.1370,  - IMO MSC.1/Circ.1527. |
| MED/3.65  Fixed hydrocarbon gas detection system  Row 3 of 4 | Type approval requirements  - SOLAS 74 Reg. II-2/4. | - IMO MSC.1/Circ.1370,  - EN IEC 60079-0:2018 incl. AC:2020,  - EN 60079-29-1:2016,  - IEC 60092-504:2016,  - IEC 60533:2015. | B+D  B+E  B+F | 25.8.2021 | [OP please insert the date =  36 months after the date of entry into force of this Regulation]  (iii) |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/4,  - IMO Res. MSC.98(73)-(FSS Code) 16,  - IMO MSC.1/Circ.1370,  - IMO MSC.1/Circ.1527. |
| MED/3.65  Fixed hydrocarbon gas detection system  Row 4 of 4  (NEW ROW) | Type approval requirements  - SOLAS 74 Reg. II-2/4. | - IMO MSC.1/Circ.1370,  - EN IEC 60079-0:2018 incl. AC:2020,  - EN 60079-29-1:2016 incl. EN 60079-29-1:2016/A1:2022 and EN 60079-29-1:2016/A11.2022,  - IEC 60092-504:2016,  - IEC 60533:2015. | B+D  B+E  B+F | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/4,  - IMO Res. MSC.98(73)-(FSS Code) 16,  - IMO MSC.1/Circ.1370,  - IMO MSC.1/Circ.1527. |

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| MED/3.66  Evacuation guidance systems used as an alternative to low-location lighting systems  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/13. | - IMO MSC.1/Circ.1168. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/13,  - IMO MSC.1/Circ.1168. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.67  Helicopter facility foam fire-fighting appliances  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/18. | - EN 13565-1:2019. | B+D  B+E  B+F | 12.8.2020 |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/18,  - IMO Res. MSC.98(73)-(FSS Code) 17. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.68  Galley exhaust duct dixed fire extinguishing systems components  Note: For products used as spare parts of existing installations the relevant standards at the time of placing on board can still be applied.  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/9. | - ISO 15371:2015. | B+D  B+E  B+F | 16.3.2017 |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/9. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| 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  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg.II-2/10. | - IMO MSC.1/Circ.1472. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg.II-2/10,  - SOLAS 74 Reg.II-2/19,  - IMO Res. MSC.98(73)-(FSS Code) 12,  - IMO MSC.1/Circ.1472,  - IMO MSC.1/Circ.1550. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.70  Fire-fighting hoses:  - semi-rigid hoses for fixed systems  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3. | - EN 694:2014. | 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/3.71  Fixed firefighting hose systems  - hose systems with lay-flat hose  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. X/3. | - EN 671-2:2012. | B+D  B+E  B+F | 16.3.2017 |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/10,  - IMO Res. MSC.36(63)-(1994 HSC Code) 7,  - IMO Res. MSC.97(73)-(2000 HSC Code) 7. |

4. Navigation equipment

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| 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  Note: IMO Res. MSC.302(87) only applies when the equipment can raise and electronically send (an) alert(s) to a third piece of equipment.  Row 1 of 1 | | Type approval requirements  - SOLAS 74 Reg. V/18,  - SOLAS 74 Reg. X/3, | - ISO 1069:1973,  - ISO 25862:2019,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008.  Or:  - ISO 1069:1973,  - ISO 25862:2019,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008.  Note: And where IMO Res. MSC.302(87) is applicable:  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  End of Note on IMO Res. MSC.302(87) | B+D  B+E  B+F  G | 12.8.2020 |  |
| 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). |

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| MED/4.2  Transmitting heading device THD (magnetic method)  Row 1 of 2 | Type approval requirements  - 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. | - ISO 22090-2:2014,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - ISO 22090-2:2014,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| Carriage and performance requirements  - SOLAS 74 Reg. V/19,  - IMO Res. A.694(17),  - IMO Res. MSC.36(63)-(1994 HSC Code) 13,  - IMO Res. MSC.97(73)-(2000 HSC Code) 13,  - IMO Res. MSC.116(73),  - IMO Res. MSC.191(79),  - IMO Res. MSC.302(87). |
| MED/4.2  Transmitting heading device THD (magnetic method)  Row 2 of 2 | Type approval requirements  - 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. | - ISO 22090-2:2014,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - ISO 22090-2:2014,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 15.8.2022 |  |
| 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). |

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| MED/4.3  Gyro compass  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. V/18. | - ISO 8728:2014,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - ISO 8728:2014,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 13.9.2019 |  |
| 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). |
| MED/4.3  Gyro compass  Moved to MED/4.65  Row 2 of 2 | Type approval requirements  For new certificates refer to item MED/4.65. | Testing Standards  For new certificates refer to item MED/4.65. | For new certificates refer to item MED/4.65. | 25.8.2021 |  |
| Carriage and performance requirements  For new certificates refer to item MED/4.65. |

MED/4.4, Radar equipment – item moved to MED/4.34, MED/4.35 and MED/4.36.

MED/4.5, Automatic radar plotting aid (ARPA) – item moved to MED/4.34.

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| MED/4.6  Echo-sounding equipment  Row 1 of 3 | 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. | | - EN ISO 9875:2001 incl. ISO Technical Corr. 1:2006,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - ISO 9875:2000 incl. ISO Technical Corr. 1:2006,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | | B+D  B+E  B+F  G | 13.9.2019 | | 1.7.2025  (i) |
| 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). | |
| MED/4.6  Echo-sounding equipment  Row 2 of 3 | 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. | | - EN ISO 9875:2001 incl. ISO Technical Corr. 1:2006,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - ISO 9875:2000 incl. ISO Technical Corr. 1:2006,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | | B+D  B+E  B+F  G | 15.8.2022 | | [OP please insert the date =  36 months after the date of entry into force of this Regulation]  (i) |
| 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). | |

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| MED/4.6  Echo-sounding equipment  Row 3 of 3  (NEW ROW) | 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. | - ISO 9875:2023,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - ISO 9875:2023,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| 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). |

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| MED/4.7  Speed and distance measuring equipment (SDME)  Row 1 of 2 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61023:2007,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61023:2007,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| 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). |
| MED/4.7  Speed and distance measuring equipment (SDME)  Row 2 of 2 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61023:2007,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61023:2007,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 15.8.2022 |  |
| 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). |

MED/4.8, Rudder angle, rpm, pitch indicator – item moved to MED/4.20, MED/4.21 and MED/4.22.

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| MED/4.9  Rate-of-turn indicator  Row 1 of 3 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ISO 20672:2007 incl. Corr. 1:2008,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - ISO 20672:2007 incl Corr 1:2008,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| 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). |
| MED/4.9  Rate-of-turn indicator  Row 2 of 3 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ISO 20672:2007 incl. Corr. 1:2008,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - ISO 20672:2007 incl Corr 1:2008,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 15.8.2022 | 10.10.2026  (i) |
| 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). |
| MED/4.9  Rate-of-turn indicator  Row 3 of 3 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ISO 20672:2022,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - ISO 20672:2022,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 10.10.2023 |  |
| 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). |

Item MED/4.10, Direction finder, - Item deliberately left blank.

Item MED/4.11, Loran equipment, – Item deliberately left blank.

Item MED/4.12, Chayka equipment, – Item deliberately left blank.

Item MED/4.13, Decca navigator equipment, - Item deliberately left blank.

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| MED/4.14  GPS equipment  Row 1 of 2 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61108-1:2003,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61108-1 Ed. 2.0: 2003,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| 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). |
| MED/4.14  GPS equipment  Moved to MED/4.63.  Row 2 of 2 | Type approval requirements  For new certificates refer to item MED/4.63. | Testing Standards  For new certificates refer to item MED/4.63. | For new certificates refer to item MED/4.63. | 25.8.2021 |  |
| Carriage and performance requirements  For new certificates refer to item MED/4.63. |

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| MED/4.15  GLONASS equipment  Row 1 of 2 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61108-2:1998,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61108-2 Ed. 1.0:1998,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| 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). |
| MED/4.15  GLONASS equipment  Moved to MED/4.63.  Row 2 of 2 | Type approval requirements  For new certificates refer to item MED/4.63. | Testing Standards  For new certificates refer to item MED/4.63. | For new certificates refer to item MED/4.63. | 25.8.2021 |  |
| Carriage and performance requirements  For new certificates refer to item MED/4.63. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/4.16  Heading control system (HCS)  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. V/18. | - ISO 11674:2019,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - ISO 11674:2019,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 12.8.2020 | 1.7.2025  (i) |
| Carriage and performance requirements  - SOLAS 74 Reg. V/18,  - SOLAS 74 Reg. V/19,  - IMO Res. A.342(IX),  - IMO Res. A.694(17),  - IMO Res. MSC.191(79),  - IMO Res. MSC.64(67) Annex 3,  - IMO Res. MSC.302(87). |
| MED/4.16  Heading control system (HCS)  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. V/18. | - ISO 11674:2019,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - ISO 11674:2019,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 15.8.2022 |  |
| 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). |

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

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/4.18  Search and rescue locating devices (SRLD):  - 9 GHz SAR transponder (SART)  Row 1 of 2 | Type approval requirements  - 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61097-1:2007.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-1: 2007. | B+D  B+E  B+F  G |  | 10.10.2026  (ii) |
| Carriage and performance requirements  - 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). |
| MED/4.18  Search and rescue locating devices (SRLD):  - 9 GHz SAR transponder (SART)  Row 2 of 2 | Type approval requirements  - 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61097-1:2007.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-1: 2007. | B+D  B+E  B+F  G | 10.10.2023 |  |
| Carriage and performance requirements  - SOLAS 74 Reg. III/6,  - SOLAS 74 Reg. IV/7,  - SOLAS 74 Reg. III/26,  - 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,  - IMO Res. MSC.510(105),  - ITU-R M.628-5 (03/2012). |

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

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/4.20  Rudder angle indicator  Row 1 of 3 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018,  - ISO 20673:2007.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018,  - ISO 20673:2007. | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| 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). |
| MED/4.20  Rudder angle indicator  Row 2 of 3 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018,  - ISO 20673:2007.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018,  - ISO 20673:2007. | B+D  B+E  B+F  G | 15.8.2022 | 10.10.2026  (i) |
| 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). |
| MED/4.20  Rudder angle indicator  Row 3 of 3 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018,  - ISO 20673:2022.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018,  - ISO 20673:2022. | B+D  B+E  B+F  G | 10.10.2023 |  |
| 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). |

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| MED/4.21  Propeller revolution indicator  Row 1 of 2 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018,  - ISO 22554:2015.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018,  - ISO 22554:2015. | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| 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). |
| MED/4.21  Propeller revolution indicator  Row 2 of 2 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018,  - ISO 22554:2015.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018,  - ISO 22554:2015. | B+D  B+E  B+F  G | 15.8.2022 |  |
| 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). |

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| MED/4.22  Pitch indicator  Row 1 of 3 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018,  - ISO 22555:2007.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018,  - ISO 22555:2007. | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| 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). |
| MED/4.22  Pitch indicator  Row 2 of 3 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018,  - ISO 22555:2007.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018,  - ISO 22555:2007. | B+D  B+E  B+F  G | 15.8.2022 | 10.10.2026  (i) |
| 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). |
| MED/4.22  Pitch indicator  Row 3 of 3 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018,  - ISO 22555:2022.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018,  - ISO 22555:2022. | B+D  B+E  B+F  G | 10.10.2023 |  |
| 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). |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/4.23  Magnetic compass:  - class B for lifeboats and rescue boats  Row 1 of 1 | 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. | - ISO 1069:1973,  - ISO 25862:2019,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008. | B+D  B+E  B+F  G | 12.8.2020 |  |
| 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. |

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.

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/4.29  Voyage data recorder (VDR)  Row 1 of 2 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 61996-1:2013 incl. IEC 61996-1 Corr. 1:2014,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 61996-1 Ed. 2.0: 2013-05 incl. IEC 61996-1 Corr. 1:2014,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| Carriage and performance requirements  - 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). |
| MED/4.29  Voyage data recorder (VDR)  Row 2 of 2 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 61996-1:2013+A1:2021  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 61996-1 Ed. 2.0: 2013+A1:2021,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 15.8.2022 |  |
| Carriage and performance requirements  - 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). |

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| MED/4.30  Electronic chart display and information system (ECDIS) with backup, and raster chart display system (RCDS)  Row 1 of 1  (NEW ROW) | Type approval requirements  - SOLAS 74 Reg. V/18,  - SOLAS 74 Reg. V/27,  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.36(63)-(1994 HSC Code) 13,  - IMO Res. MSC.97(73)-(2000 HSC Code) 13. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 61174:2015,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Note Annex S (normative) of EN 61174 may additionally be tested in accordance to IEC PAS 61174-1:2021.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 61174 Ed. 4.0: 2015,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  Note Annex S (normative of IEC 61174 may additionally be tested in accordance to IEC PAS 61174-1:2021. | B+D  B+E  B+F  G | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| 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 Res. MSC.302(87),  - IMO MSC.1/Circ.1503. Rev.1 or Rev 2.  [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]. |

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| MED/4.31  Gyro compass for high-speed craft  Row 1 of 2 | 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. | - ISO 16328:2014,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - ISO 16328:2014,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 13.9.2018 | 1.7.2025  (i) |
| 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. |
| MED/4.31  Gyro compass for high-speed craft  Moved to MED/4.65.  Row 2 of 2 | Type approval requirements  For new certificates refer to item MED/4.6. | Testing Standards  For new certificates refer to item MED/4.65. | For new certificates refer to item MED/4.65. | 25.8.2021 |  |
| Carriage and performance requirements  For new certificates refer to item MED/4.65. |

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| MED/4.32  Universal automatic identification system equipment (AIS)  Row 1 of 2 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 61993-2:2018,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 61993-2:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| 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),  - IMO Res. MSC.302(87),  - 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). |
| MED/4.32  Universal automatic identification system equipment (AIS)  Row 2 of 2 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 61993-2:2018,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 61993-2:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 15.8.2022 |  |
| 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),  - IMO Res. MSC.302(87),  - 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). |

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| MED/4.33  Track control system (working at ship's speed from minimum manoeuvring speed up to 30 knots)  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. V/18. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62065:2014,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62065 Ed. 2.0:2014-02,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| Carriage and performance requirements  - SOLAS 74 Reg. V/19,  - IMO Res. A.694(17),  - IMO Res. MSC.74(69),  - IMO Res. MSC.191(79),  - IMO Res. MSC.302(87). |
| MED/4.33  Track control system (working at ship's speed from minimum manoeuvring speed up to 30 knots)  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. V/18. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62065:2014,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62065 Ed. 2.0:2014-02,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 15.8.2022 |  |
| 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). |

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| MED/4.34  Radar equipment CAT 1  Moved to MED/4.64  Row 1 of 1 | | Type approval requirements  For new certificates refer to item MED/4.64. | Testing Standards  For new certificates refer to item MED/4.64. | For new certificates refer to item MED/4.64. | 25.8.2021 |  |
| Carriage and performance requirements  For new certificates refer to item MED/4.64. |

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| 1 | 2 | | 3 | 4 | 5 | 6 |
| MED/4.35  Radar equipment CAT 2  Moved to MED/4.64.  Row 1 of 1 | | Type approval requirements  For new certificates refer to item MED/4.64. | Testing Standards  For new certificates refer to item MED/4.64. | For new certificates refer to item MED/4.64. | 25.8.2021 |  |
| Carriage and performance requirements  For new certificates refer to item MED/4.64. |

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| MED/4.36  Radar equipment CAT 3  Moved to MED/4.64.  Row 1 of 1 | Type approval requirements  For new certificates refer to item MED/4.64. | Testing Standards  For new certificates refer to item MED/4.64. | For new certificates refer to item MED/4.64. | 25.8.2021 |  |
| Carriage and performance requirements  For new certificates refer to item MED/4.64. |

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| MED/4.37  Radar equipment for high-speed craft applications (CAT 1H and CAT 2H)  Moved to MED/4.64.  Row 1 of 1 | Type approval requirements  For new certificates refer to item MED/4.64. | Testing Standards  For new certificates refer to item MED/4.64. | For new certificates refer to item MED/4.64. | 25.8.2021 |  |
| Carriage and performance requirements  For new certificates refer to item MED/4.64. |

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| MED/4.38a  Radar equipment approved with a chart option, namely:  - CAT 1C  Note: New certification shall be carried out in accordance with MED/4.64 CAT 1.  Row 1 of 1 | Type approval requirements  For new certificates refer to item MED/4.64. | Testing Standards  For new certificates refer to item MED/4.64. | For new certificates refer to item MED/4.64. | 25.8.2021 |  |
| Carriage and performance requirements  For new certificates refer to item MED/4.64. |

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| MED/4.38b  Radar equipment approved with a chart option, namely:  - CAT 2C  Note: New certification shall be carried out in accordance with MED/4.64 CAT 2.  Row 1 of 1 | Type approval requirements  For new certificates refer to item MED/4.64. | Testing Standards  For new certificates refer to item MED/4.64. | For new certificates refer to item MED/4.64. | 25.8.2021 |  |
| Carriage and performance requirements  For new certificates refer to item MED/4.64. |

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| MED/4.38c  Radar equipment approved with a chart option, namely:  - CAT 1HC  Note: New certification shall be carried out in accordance with MED/4.64 CAT 1H.  Row 1 of 1 | Type approval requirements  Refer to item MED/4.64. | | Testing Standards  For new certificates refer to item MED/4.64. | For new certificates refer to item MED/4.64. | 25.8.2021 |  |
| Carriage and performance requirements  For new certificates refer to item MED/4.64. | |

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| MED/4.38d  Radar equipment approved with a chart option, namely:  - CAT 2HC  Note: New certification shall be carried out in accordance with MED/4.64 CAT 2H.  Row 1 of 1 | Type approval requirements  For new certificates refer to item MED/4.64. | Testing Standards  For new certificates refer to item MED/4.64. | For new certificates refer to item MED/4.64. | 25.8.2021 |  |
| Carriage and performance requirements  For new certificates refer to item MED/4.64. |

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| MED/4.39  Radar reflector - passive type  Row 1 of 1 | 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. | - 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. | B+D  B+E  B+F  G |  |  |
| 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). |

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| MED/4.40  Heading control system for high-speed craft  Row 1 of 2 | 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. | - ISO 16329:2003,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - ISO 16329:2003,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| Carriage and performance requirements  - IMO Res. A.694(17),  - IMO Res. A.822(19),  - IMO Res. MSC.36(63)-(1994 HSC Code) 13,  - IMO Res. MSC.97(73)-(2000 HSC Code) 13,  - IMO Res. MSC.191(79),  - IMO Res. MSC.302(87),  - IMO MSC.1/Circ.1349. |
| MED/4.40  Heading control system for high-speed craft  Row 2 of 2 | 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. | - ISO 16329:2003,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - ISO 16329:2003,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 15.8.2022 |  |
| 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/4.41  Transmitting heading device THD (GNSS method)  Row 1 of 2 | 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. | - ISO 22090-3:2014,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');),  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - ISO 22090-3:2014,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');),  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  And as applicable:  - EN 61162 series:  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  IEC 61162-450:2018.  Or:  - IEC 61162 series:  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018. | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| Carriage and performance requirements  - SOLAS 74 Reg. V/19,  - IMO Res. A.694(17),  - IMO Res. MSC.36(63)-(1994 HSC Code) 13,  - IMO Res. MSC.97(73)-(2000 HSC Code) 13,  - IMO Res. MSC.116(73),  - IMO Res. MSC.191(79),  - IMO Res. MSC.302(87). |
| MED/4.41  Transmitting heading device THD (GNSS method)  Row 2 of 2 | 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. | - ISO 22090-3:2014,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');),  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - ISO 22090-3:2014,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');),  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  And as applicable:  - EN 61162 series:  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  IEC 61162-450:2018.  Or:  - IEC 61162 series:  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018. | B+D  B+E  B+F  G | 15.8.2022 |  |
| 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). |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/4.42  Searchlight for high-speed craft  Row 1 of 1 | 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. | - 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. | B+D  B+E  B+F  G |  |  |
| 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/4.43  Night vision equipment for high-speed craft  Row 1 of 2 | 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. | - 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. | B+D  B+E  B+F  G |  | 1.7.2025  (i) |
| 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). |
| MED/4.43  Night vision equipment for high-speed craft  Row 2 of 2 | 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. | - ISO 16273:2020,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN IEC 62288:2022.  Or:  - ISO 16273:2020,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 62288 Ed. 3.0:2021. | B+D  B+E  B+F  G | 15.8.2022 |  |
| 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). |

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| 1 | | 2 | 3 | 4 | 5 | 6 |
| MED/4.44  Differential beacon receiver for DGPS and DGLONASS Equipment  Row 1 of 2 | | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61108-4: 2004,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61108-4: 2004,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018. | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| 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). |
| MED/4.44  Differential beacon receiver for DGPS and DGLONASS Equipment  Moved to MED/4.63  Row 2 of 2 | Type approval requirements  For new certificates refer to item MED/4.63. | | Testing Standards  For new certificates refer to item MED/4.63. | For new certificates refer to item MED/4.63. | 25.8.2021 |  |
| Carriage and performance requirements  For new certificates refer to item MED/4.63. | |

Item MED/4.45, Chart facilities for shipborne radar, - item deleted, as it is covered by MED/4.38.

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/4.46  Transmitting heading device THD (Gyroscopic method)  Row 1 of 2 | 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. | - ISO 22090-1:2014,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - ISO 22090-1:2014,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| Carriage and performance requirements  - SOLAS 74 Reg. V/19,  - IMO Res. A.694(17),  - IMO Res. MSC.36(63)-(1994 HSC Code) 13,  - IMO Res. MSC.97(73)-(2000 HSC Code) 13,  - IMO Res. MSC.116(73),  - IMO Res. MSC.191(79),  - IMO Res. MSC.302(87). |
| MED/4.46  Transmitting heading device THD (Gyroscopic method)  Row 2 of 2 | 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. | - ISO 22090-1:2014,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - ISO 22090-1:2014,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 15.8.2022 |  |
| 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). |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/4.47  Simplified voyage data recorder (S-VDR)  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. V/20. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 61996-2:2008,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 61996-2: 2007,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| Carriage and performance requirements  - SOLAS 74 Reg. V/20,  - IMO Res. A.694(17),  - IMO Res. MSC.163(78),  - IMO Res. MSC.191(79),  - IMO Res. MSC.302(87). |
| MED/4.47  Simplified voyage data recorder (S-VDR)  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. V/20. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 61996-2:2008,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 61996-2: 2007,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 15.8.2022 |  |
| 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). |

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”)

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/4.49  Pilot ladder  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. V/23,  - SOLAS 74 Reg. X/3. | - IMO Res. A.1045(27), as amended,  - ISO 799-1:2019. | B+D  B+E  B+F  G | 12.8.2020 |  |
| Carriage and performance requirements  - SOLAS 74 Reg. V/23,  - IMO Res. A.1045(27),  - IMO MSC/Circ.1428. |

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| 1 | 2 | 3 | | 4 | 5 | 6 |
| MED/4.50  DGPS Equipment  Row 1 of 2 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61108-1:2003,  - EN 61108-4:2004,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61108-1: 2003,  - IEC 61108-4: 2004,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| 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.114(73),  - IMO Res. MSC.191(79),  - IMO Res. MSC.302(87). |
| MED/4.50  DGPS equipment  Moved to MED/4.63.  Row 2 of 2 | Type approval requirements  For new certificates refer to item MED/4.63. | | Testing Standards  For new certificates refer to item MED/4.63. | For new certificates refer to item MED/4.63. | 25.8.2021 |  |
| Carriage and performance requirements  For new certificates refer to item MED/4.63. | |

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| 1 | | 2 | 3 | 4 | 5 | 6 |
| MED/4.51  DGLONASS Equipment  Row 1 of 2 | | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61108-2:1998,  - EN 61108-4:2004,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61108-2 Ed. 1.0:1998,  - IEC 61108-4: 2004,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| 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.114(73),  - IMO Res. MSC.191(79),  - IMO Res. MSC.302(87). |
| MED/4.51  DGLONASS equipment  Moved to MED/4.63  Row 2 of 2 | Type approval requirements  For new certificates refer to item MED/4.63. | | Testing Standards  For new certificates refer to item MED/4.63. | For new certificates refer to item MED/4.63. | 25.8.2021 |  |
| Carriage and performance requirements  For new certificates refer to item MED/4.63. | |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/4.52  Daylight signalling lamp  Row 1 of 1 | 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,  - ISO 25861:2007.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - ISO 25861:2007. | B+D  B+E  B+F |  |  |
| 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.95(72),  - IMO Res. MSC.97(73)-(2000 HSC Code). |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/4.53  Radar target enhancer  Row 1 of 1 | 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. | - 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. | 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) 13,  - IMO Res. MSC.97(73)-(2000 HSC Code) 13,  - IMO Res. MSC.164(78),  - ITU-R M.1176-1 (02/13). |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/4.54  Compass bearing device  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. V/18. | - ISO 25862:2019,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008.  Or:  - ISO 25862:2019,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008. | B+D  B+E  B+F  G | 12.8.2020 |  |
| Carriage and performance requirements  - SOLAS 74 Reg. V/19. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/4.55  Search and rescue locating devices (SRLD):  AIS SART equipment  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. III/4,  - SOLAS 74 Reg. IV/14. | - 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 |  |  |
| 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. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/4.56  Galileo Equipment  Row 1 of 2 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61108-3:2010,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62288:2014,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61108-3:2010,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| 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.233(82),  - IMO Res. MSC.302(87). |
| MED/4.56  Galileo equipment  Moved to MED/4.63.  Row 2 of 2 | Type approval requirements  For new certificates refer to item MED/4.63. | Testing Standards  For new certificates refer to item MED/4.63. | For new certificates refer to item MED/4.63. | 25.8.2021 |  |
| Carriage and performance requirements  For new certificates refer to item MED/4.63. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/4.57  Bridge Navigational Watch Alarm System (BNWAS)  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. V/18. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62288:2014,  - EN 62616:2010 incl. IEC 62616 Corr. 1:2012,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62616:2010 incl. IEC 62616 Corr. 1:2012,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| 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),  - IMO MSC.1/Circ.1474. |
| MED/4.57  Bridge Navigational Watch Alarm System (BNWAS)  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. V/18. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN 62616:2010 incl. IEC 62616 Corr. 1:2012,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62616:2010 incl. IEC 62616 Corr. 1:2012,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 15.8.2022 |  |
| 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),  - IMO MSC.1/Circ.1474. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/4.58  Sound reception system  Row 1 of 2 | 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:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018,  - ISO 14859:2012.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018,  - ISO 14859:2012. | B+D  B+E  B+F  G | 13.9.2019 | 1.7.2025  (i) |
| 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). |
| MED/4.58  Sound reception system  Row 2 of 2 | 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:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018,  - ISO 14859:2012.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018,  - ISO 14859:2012. | B+D  B+E  B+F  G | 15.8.2022 |  |
| 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). |

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| 1 | 2 | | 3 | 4 | 5 | 6 |
| MED/4.59  Integrated navigation system  Row 1 of 2 | | Type approval requirements  - 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN 61924-2:2013 incl. IEC 61924-2 Corr. 1:2013,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or :  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. With A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 61924-2:2012 incl. IEC 61924-2 Corr. 1:2013,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 15.8.2022 | 10.10.2026  (i) |
| 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.252(83),  - IMO Res. MSC.302(87). |
| MED/4.59  Integrated navigation system  Row 2 of 2 | | Type approval requirements  - 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  - EN IEC 61924-2:2021.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. With A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  - IEC 61924-2:2021. | B+D  B+E  B+F  G | 10.10.2023 |  |
| 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.252(83),  - IMO Res. MSC.302(87). |

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| MED/4.60  Radar equipment approved with a chart option, namely:  - CAT 3C  Note: New certification shall be carried out in accordance with MED/4.64 CAT 3.  Row 1 of 1 | Type approval requirements  For new certificates refer to item MED/4.64. | Testing Standards  For new certificates refer to item MED/4.64. | For new certificates refer to item MED/4.64. | 25.8.2021 |  |
| Carriage and performance requirements  For new certificates refer to item MED/4.64. |

Item MED/4.61, Radar equipment for high-speed craft applications CAT 3H - item deleted.

Item MED/4.62, Radar equipment for high-speed craft applications CAT 3HC - item deleted.

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| MED/4.63  GNSS Equipment  Incorporating one or more of the following elements:   * GPS equipment   (Moved from Ex MED/4.14)   * GLONASS equipment   (Moved from Ex MED/4.15)   * DGPS Equipment   (Moved from Ex MED/4.50)   * DGLONASS Equipment   (Moved from Ex MED/4.51)   * Galileo Equipment (   (Moved from Ex. MED/4.56)   * Beidou (BDS)   Row 1 of 2 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  And for:  GPS Equipment:  - EN 61108-1:2003.  GLONASS equipment:  - EN 61108-2:1998,  DGPS Equipment:  - EN 61108-1:2003,  - EN 61108-4:2004.  DGLONASS Equipment:  - EN 61108-2:1998,  - EN 61108-4:2004.  Galileo Equipment:  - EN 61108-3:2010.  Beidou (BDS):  - EN IEC 61108-5:2020.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  And for:  GPS Equipment:  - IEC 61108-1 Ed. 2.0: 2003.  GLONASS equipment:  - IEC 61108-2 Ed. 1.0:1998.  DGPS Equipment:  - IEC 61108-1 Ed. 2.0: 2003,  - IEC 61108-4: 2004.  DGLONASS Equipment:  - IEC 61108-2 Ed. 1.0:1998,  - IEC 61108-4: 2004.  Galileo Equipment:  - IEC 61108-3:2010.  Beidou (BDS):  - EN IEC 61108-5:2020. | B+D  B+E  B+F  G | 25.8.2021 | 1.7.2025  (i) |
| 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).  And for:  GPS Equipment:  - IMO Res. MSC.112(73).  GLONASS equipment:  - IMO Res. MSC.113(73).  DGPS Equipment:  - IMO Res. MSC.112(73),  - IMO Res. MSC.114(73).  DGLONASS Equipment:  - IMO Res. MSC.113(73),  - IMO Res. MSC.114(73),  Galileo Equipment:  - IMO Res. MSC.233(82).  Beidou:  - IMO Res. MSC 379(93). |
| MED/4.63  GNSS Equipment  Incorporating one or more of the following elements:   * GPS equipment   (Moved from Ex MED/4.14)   * GLONASS equipment   (Moved from Ex MED/4.15)   * DGPS Equipment   (Moved from Ex MED/4.50)   * DGLONASS Equipment   (Moved from Ex MED/4.51)   * Galileo Equipment (   (Moved from Ex. MED/4.56)   * Beidou (BDS)   Row 2 of 2 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  And for:  GPS Equipment:  - EN 61108-1:2003.  GLONASS equipment:  - EN 61108-2:1998,  DGPS Equipment:  - EN 61108-1:2003,  - EN 61108-4:2004.  DGLONASS Equipment:  - EN 61108-2:1998,  - EN 61108-4:2004.  Galileo Equipment:  - EN 61108-3:2010.  Beidou (BDS):  - EN IEC 61108-5:2020.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  And for:  GPS Equipment:  - IEC 61108-1 Ed. 2.0: 2003.  GLONASS equipment:  - IEC 61108-2 Ed. 1.0:1998.  DGPS Equipment:  - IEC 61108-1 Ed. 2.0: 2003,  - IEC 61108-4: 2004.  DGLONASS Equipment:  - IEC 61108-2 Ed. 1.0:1998,  - IEC 61108-4: 2004.  Galileo Equipment:  - IEC 61108-3:2010.  Beidou (BDS):  - EN IEC 61108-5:2020. | B+D  B+E  B+F  G | 15.8.2022 |  |
| 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).  And for:  GPS Equipment:  - IMO Res. MSC.112(73).  GLONASS equipment:  - IMO Res. MSC.113(73).  DGPS Equipment:  - IMO Res. MSC.112(73),  - IMO Res. MSC.114(73).  DGLONASS Equipment:  - IMO Res. MSC.113(73),  - IMO Res. MSC.114(73),  Galileo Equipment:  - IMO Res. MSC.233(82).  Beidou:  - IMO Res. MSC 379(93). |
| MED/4.63  GNSS Equipment  Incorporating one or more of the following elements:   * GPS equipment   (Moved from Ex MED/4.14)   * GLONASS equipment   (Moved from Ex MED/4.15)   * DGPS Equipment   (Moved from Ex MED/4.50)   * DGLONASS Equipment   (Moved from Ex MED/4.51)   * Galileo Equipment   (Moved from Ex. MED/4.56)   * Beidou (BDS) * SBAS Equipment   Row 3 of 3  SBAS Equipment - New subitem inserted by Implementing Regulation (EU) 2024/XXXX [OP please insert number of this Regulation] | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  EN 61162-2:1998  EN 61162-3:2008 +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  And for:  GPS Equipment:  - EN 61108-1:2003.  GLONASS Equipment:  - EN 61108-2:1998,  DGPS Equipment:  - EN 61108-1:2003,  - EN 61108-4:2004.  DGLONASS Equipment:  - EN 61108-2:1998,  - EN 61108-4:2004.  Galileo Equipment:  - EN 61108-3:2010.  Beidou (BDS):  - EN IEC 61108-5:2020.  SBAS Equipment:  - IEC 61108-7:2024.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  IEC 61162-2 Ed.1.0:1998-09  IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11 and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  And for:  GPS Equipment:  - IEC 61108-1 Ed. 2.0: 2003.  GLONASS equipment:  - IEC 61108-2 Ed. 1.0:1998.  DGPS Equipment:  - IEC 61108-1 Ed. 2.0: 2003,  - IEC 61108-4: 2004.  DGLONASS Equipment:  - IEC 61108-2 Ed. 1.0:1998,  - IEC 61108-4: 2004.  Galileo Equipment:  - IEC 61108-3:2010.  Beidou (BDS):  - EN IEC 61108-5:2020.  SBAS Equipment:  - IEC 61108-7:2024. | B+D  B+E  B+F  G | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| 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).  And for:  GPS Equipment:  - IMO Res. MSC.112(73).  GLONASS equipment:  - IMO Res. MSC.113(73).  DGPS Equipment:  - IMO Res. MSC.112(73),  - IMO Res. MSC.114(73).  DGLONASS Equipment:  - IMO Res. MSC.113(73),  - IMO Res. MSC.114(73),  Galileo Equipment:  - IMO Res. MSC.233(82).  Beidou:  - IMO Res. MSC 379(93).  SBAS Equipment:  - IMO Res. MSC.112(73). |

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| MED/4.64  Radar equipment  - CAT 1  (Moved from Ex MED/4.34)  - CAT 2  (Moved from Ex MED/4.35)  - CAT 3  (Moved from Ex MED/4.36)  - CAT 1H  (Moved from Ex MED/4.37)  - CAT 2H  (Moved from Ex MED/4.37)  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg. V/18,  And for High-Speed Craft:  - SOLAS 74 Reg. X/3,  - IMO Res. MSC.36(63)-(1994 HSC Code) 13,  - IMO Res. MSC.97(73)-(2000 HSC Code) 13. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN 62388:2013 incl. IEC 62388 Corr 1:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62388 Ed. 2.0: 2013-06 incl. IEC 62388 Corr 1:2014,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | 15.8.2022 |  |
| Carriage and performance requirements  - SOLAS 74 Reg. V/19,  - 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). |

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| MED/4.65  Gyro compass  (Moved from Ex MED/4.3)  (Moved from Ex MED/4.31)  Row 1 of 2 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  And additionally, for gyro compass:  - ISO 8728:2014.  And additionally, for gyro compass for HSC:  - ISO 16328:2014.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 2.0:2014-07,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  And additionally, for gyro compass:  - ISO 8728:2014.  And additionally, for gyro compass for HSC:  - ISO 16328:2014. | B+D  B+E  B+F  G | 25.8.2021 | 1.7.2025  (i) |
| Carriage and performance requirements  For gyro compass:  - 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).  For gyro compass for HSC:  - 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. |
| MED/4.65  Gyro compass  (Moved from Ex MED/4.3)  (Moved from Ex MED/4.31)  Row 2 of 2 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  And additionally, for gyro compass:  - ISO 8728:2014.  And additionally, for gyro compass for HSC:  - ISO 16328:2014.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  And additionally, for gyro compass:  - ISO 8728:2014.  And additionally, for gyro compass for HSC:  - ISO 16328:2014. | B+D  B+E  B+F  G | 15.8.2022 |  |
| Carriage and performance requirements  For gyro compass:  - 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).  For gyro compass for HSC:  - 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. |

Item MED/4.66 - deliberately left blank.

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| MED/4.67  Electronic Inclinometer Equipment  Row 1 of 1  New item inserted by Implementing Regulation (EU) 2024/XXXX [OP please insert number of this Regulation] | Type approval requirements  - SOLAS 74 Reg. V/18.  - SOLAS 74 Reg. X/3. | - ISO 19697:2016,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - ISO 19697:2016,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F  G | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| Carriage and performance requirements  - SOLAS 74 Reg. V/19,  - IMO Res. MSC.363(92),  - IMO Res. A.694(17),  - IMO Res. MSC.191(79),  - IMO Res. MSC.302(87). |

5. Radio-communication equipment

Notes applicable to section 5: Radio-communication equipment.

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

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Number and item designation | Regulation SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable | | | Testing standards | Modules for conformity assessment | First placing on the market | Last placing on board |
| 1 | 2 | | | 3 | 4 | 5 | 6 |
| MED/5.1  VHF radio capable of transmitting and receiving DSC and radiotelephony  Row 1 of 5 | 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. | | | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  IEC 61162-450:2018,  - ETSI EN 300 338-1 V1.4.1:2017-02,  - ETSI EN 300 338-2 V1.4.1:2017-02,  - ETSI EN 301 843-2 V2.2. 1:2017-11,  - ETSI EN 301 925 V1.5.1:2017-10,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  Or:  - IMO MSC/Circ.862,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-7: 1996 with A1: 2018,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 13.9.2019 | 12.8.2023  (iii) |
| 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 Res. MSC.302(87),  - 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). | | |
| MED/5.1  VHF radio capable of transmitting and receiving DSC and radiotelephony  Row 2 of 5 | | 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. | | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI EN 300 338-1 V1.5.1:2019-09,  - ETSI EN 300 338-2 V1.4.1:2017-02,  - ETSI EN 301 843-2 V2.2. 1:2017-11,  - ETSI EN 301 925 V1.5.1:2017-10,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IMO MSC/Circ.862,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-7: 1996 with A1: 2018,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 12.8.2020 | 25.8.2024  (iii) |
| 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 Res. MSC.302(87),  - IMO MSC/Circ.862,  - IMO MSC.1/Circ.1460,  - IMO COMSAR/Circ.32,  - ITU-R M.489-2 (10/95),  - ITU-R M.493-15 (01/19),  - ITU-R M.541-10 (10/15). | |
| MED/5.1  VHF radio capable of transmitting and receiving DSC and radiotelephony  Row 3 of 5 | | | 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. | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI EN 300 338-1 V1.5.1:2019-09,  - ETSI EN 300 338-2 V1.5.1:2020-06,  - ETSI EN 301 843-2 V2.2. 1:2017-11,  - ETSI EN 301 925 V1.6.1:2020-10,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IMO MSC/Circ.862,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-7: 1996 with A1: 2018,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 25.8.2021 | 1.1.2024  (iii) |
| 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 Res. MSC.302(87),  - IMO MSC/Circ.862,  - IMO MSC.1/Circ.1460,  - IMO COMSAR/Circ.32,  - ITU-R M.489-2 (10/95),  - ITU-R M.493-15 (01/19),  - ITU-R M.541-10 (10/15). |
| MED/5.1  VHF radio capable of transmitting and receiving DSC and radiotelephony  Row 4 of 5 | | | 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. | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI EN 300 338-1 V1.5.1:2019-09,  - ETSI EN 300 338-2 V1.5.1:2020-06,  - ETSI EN 301 843-2 V2.2. 1:2017-11,  - ETSI EN 301 925 V1.6.1:2020-10,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IMO MSC/Circ.862,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-7: 1996 with A1: 2018,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 15.8.2022 | 10.10.2026  (iii) |
| 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 Res. MSC.302(87),  - IMO MSC/Circ.862,  - IMO MSC.1/Circ.1460 Revision 2,  - IMO COMSAR/Circ.32,  - ITU-R M.489-2 (10/95),  - ITU-R M.493-15 (01/19),  - ITU-R M.541-10 (10/15). |
| MED/5.1  VHF radio capable of transmitting and receiving DSC and radiotelephony  Note: Regardless of the current availability of IMO Res.MSC 511(105), such a resolution has not been included in the current certification scheme or this MED IR because of the lack of related testing standards. Thus, in accordance with the IMO MSC.1/Circ 1676, the IMO Res.A. 803(19) can be still applied for certification purposes until 1 January 2028. Where the related testing standards to IMO Res.MSC 511(105), will be available, the Resolucion IMO Res.MSC 511(105), will be included into the MED IR to all its effects.  Row 5 of 5 | | | 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. | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI EN 300 338-1 V1.6.1:2021-05,  - ETSI EN 300 338-2 V1.5.1:2020-06,  - ETSI EN 300 338-7 V1.1.1:2022-04,  - ETSI EN 301 843-2 V2.2. 1:2017-11,  - ETSI EN 301 925 V1.6.1:2020-10,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IMO MSC/Circ.862,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-7: 1996 with A1: 2018,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F |  |  |
| 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 Res. MSC.191(79),  - IMO Res. MSC.302(87),  - IMO COMSAR/Circ.32 Revision 2,  - IMO MSC/Circ.862,  - IMO MSC.1/Circ.1460 Revision 4,  - IMO MSC.1/Circ.1676,  - ITU-R M.489-2 (10/95),  - ITU-R M.493-15 (01/19),  - ITU-R M.541-10 (10/15). |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/5.2  VHF DSC watch-keeping receiver  Row 1 of 4 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  IEC 61162-450:2018,  - ETSI EN 300 338-1 V1.4.2:2017-11,  - ETSI EN 300 338-2 V1.4.1:2017-02,  - ETSI EN 301 033 V1.4.1:2013-09,  - ETSI EN 301 843-2 V2.2.1:2017-11,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-8:1998,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 13.9.2019 | 12.8.2023  (iii) |
| Carriage and performance requirements  - SOLAS 74 Reg. IV/7,  - SOLAS 74 Reg. X/3,  - IMO Res. A.694(17),  - IMO Res. A.803(19),  - IMO Res. MSC.36(63)-(1994 HSC Code) 14,  - IMO Res. MSC.97(73)-(2000 HSC Code) 14,  - IMO Res. MSC.302(87),  - IMO COMSAR/Circ.32,  - ITU-R M.489-2 (10/95),  - ITU-R M.493-14 (09/15),  - ITU-R M.541-10 (10/15). |
| MED/5.2  VHF DSC watch-keeping receiver  Row 2 of 4 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI EN 300 338-1 V1.5.1:2019-09  - ETSI EN 300 338-2 V1.4.1:2017-02,  - ETSI EN 301 033 V1.4.1:2013-09,  - ETSI EN 301 843-2 V2.2.1:2017-11,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-8:1998,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 12.8.2020 | 25.8.2024  (iii) |
| Carriage and performance requirements  - SOLAS 74 Reg. IV/7,  - SOLAS 74 Reg. X/3,  - IMO Res. A.694(17),  - IMO Res. A.803(19),  - IMO Res. MSC.36(63)-(1994 HSC Code) 14,  - IMO Res. MSC.97(73)-(2000 HSC Code) 14,  - IMO Res. MSC.302(87),  - IMO COMSAR/Circ.32,  - ITU-R M.489-2 (10/95),  - ITU-R M.493-15 (01/19),  - ITU-R M.541-10 (10/15). |
| MED/5.2  VHF DSC watch-keeping receiver  Row 3 of 4 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI EN 300 338-1 V1.5.1:2019-09,  - ETSI EN 300 338-2 V1.5.1:2020-06,  - ETSI EN 301 033 V1.4.1:2013-09,  - ETSI EN 301 843-2 V2.2.1:2017-11,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-8:1998,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 25.8.2021 | 10.10.2026  (iii) |
| Carriage and performance requirements  - SOLAS 74 Reg. IV/7,  - SOLAS 74 Reg. X/3,  - IMO Res. A.694(17),  - IMO Res. A.803(19),  - IMO Res. MSC.36(63)-(1994 HSC Code) 14,  - IMO Res. MSC.97(73)-(2000 HSC Code) 14,  - IMO Res. MSC.302(87),  - IMO COMSAR/Circ.32,  - ITU-R M.489-2 (10/95),  - ITU-R M.493-15 (01/19),  - ITU-R M.541-10 (10/15). |
| MED/5.2  VHF DSC watch-keeping receiver  Note: Regardless of the current availability of IMO Res.MSC 511(105), such a resolution has not been included in the current certification scheme or this MED IR because of the lack of related testing standards. Thus, in accordance with the IMO MSC.1/Circ 1676, the IMO Res.A. 803(19) can be still applied for certification purposes until 1 January 2028. Where the related testing standards to IMO Res.MSC 511(105), will be available, the Resolution IMO Res.MSC 511(105), will be included into the MED IR to all its effects.  Row 4 of 4 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI EN 300 338-1 V1.6.1:2021-05,  - ETSI EN 300 338-2 V1.5.1:2020-06,  - ETSI EN 300 338-7 V1.1.1:2022-04,  - ETSI EN 301 033 V1.4.1:2013-09,  - ETSI EN 301 843-2 V2.2.1:2017-11,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-8:1998,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. IV/7,  - SOLAS 74 Reg. X/3,  - IMO Res. A.694(17),  - IMO Res. A.803(19),  - IMO Res. MSC.36(63)-(1994 HSC Code) 14,  - IMO Res. MSC.97(73)-(2000 HSC Code) 14,  - IMO Res. MSC.191(79),  - IMO Res. MSC.302(87),  - IMO COMSAR/Circ.32 Revision 2,  - IMO MSC.1/Circ.1460 Revision 4,  - IMO MSC.1/Circ.1676,  - ITU-R M.489-2 (10/95),  - ITU-R M.493-15 (01/19),  - ITU-R M.541-10 (10/15). |

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| MED/5.3  NAVTEX receiver  Row 1 of 3 | 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. | | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  IEC 61162-450:2018,  - ETSI EN 300 065-1 V1.2.1:2009-01,  - ETSI EN 301 843-2 V2.2.1:2017-11,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 61097-6:2005,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | | B+D  B+E  B+F | | 13.9.2019 | | 12.8.2023  (iii) | |
| Carriage and performance requirements  - 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 Res. MSC.302(87),  - IMO COMSAR/Circ.32,  - ITU-R M.540-2 (06/90),  - ITU-R M.625-4 (03/12). | |
| MED/5.3  NAVTEX receiver  Row 2 of 3 | 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. | | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI EN 300 065-1 V1.2.1:2009-01,  - ETSI EN 301 843-2 V2.2.1:2017-11,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 61097-6:2005 +A1:2011+A2:2019,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | | B+D  B+E  B+F | | 12.8.2020 | | 10.10.2026  (iii) | |
| Carriage and performance requirements  - 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 Res. MSC.302(87),  - IMO COMSAR/Circ.32,  - ITU-R M.540-2 (06/90),  - ITU-R M.625-4 (03/12). | |
| MED/5.3  NAVTEX receiver  Row 3 of 3 | | 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. | | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI EN 300 065-1 V1.2.1:2009-01,  - ETSI EN 301 843-2 V2.2.1:2017-11,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 61097-6:2005 +A1:2011+A2:2019,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | | B+D  B+E  B+F | |  | |  |
| Carriage and performance requirements  - 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.191(79),  - IMO Res. MSC.302(87),  - IMO Res. MSC.508(105),  - IMO COMSAR/Circ.32 Revision 2,  - ITU-R M.540-2 (06/90),  - ITU-R M.625-4 (03/12). | |

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| MED/5.4  EGC receiver  Row 1 of 3 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  IEC 61162-450:2018,  - ETSI ETS 300 460 Ed.1:1996-05,  - ETSI ETS 300 460/A1:1997-11,  - ETSI EN 301 843-1 V2.2.1:2017-11,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-4 2012,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 13.9.2019 | 12.8.2023  (iii) |
| Carriage and performance requirements  - 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.302(87),  - IMO Res. MSC.306(87),  - IMO COMSAR/Circ.32. |
| MED/5.4  EGC receiver  Row 2 of 3 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI ETS 300 460 Ed.1:1996-05,  - ETSI ETS 300 460/A1:1997-11,  - ETSI EN 301 843-1 V2.2.1:2017-11,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-4:2012 +A1:2016+A2:2019,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 12.8.2020 | 10.10.2026  (iii) |
| Carriage and performance requirements  - 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.302(87),  - IMO Res. MSC.306(87),  - IMO Res. MSC.431(98) (new provision),  - IMO COMSAR/Circ.32. |
| MED/5.4  EGC receiver  Row 3 of 3 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI ETS 300 460 Ed.1:1996-05,  - ETSI ETS 300 460/A1:1997-11,  - ETSI EN 301 843-1 V2.2.1:2017-11,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-4:2012 +A1:2016+A2:2019,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - 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.191(79),  - IMO Res. MSC.302(87),  - IMO Res. MSC.306(87),  - IMO COMSAR/Circ.32 Revision 2. |

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| MED/5.5  HF marine safety information (MSI) equipment (HF NBDP receiver)  Row 1 of 2 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI ETS 300 067 Ed.1:1990-11,  - ETSI ETS 300 067/A1 Ed.1:1993-10,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - ETSI ETS 300 067 Ed.1:1990-11,  - ETSI ETS 300 067/A1 Ed.1:1993-10,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 13.9.2019 | 10.10.2026  (iii) |
| Carriage and performance requirements  - 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 Res. MSC.302(87),  - IMO MSC.1/Circ.1460,  - IMO COMSAR/Circ.32,  - ITU-R M.492-6 (10/95),  - ITU-R M.540-2 (06/90),  - ITU-R M.625-4 (03/12),  - ITU-R M.688 (06/90). |
| MED/5.5  HF marine safety information (MSI) equipment (HF NBDP receiver)  Note: Regardless of the current availability of IMO Res.MSC 512(105), such a resolution has not been included in the current certification scheme or this MED IR because of the lack of related testing standards. Thus, in accordance with the IMO MSC.1/Circ 1676, the IMO Res.A. 806(19) can be still applied for certification purposes until 1 January 2028. Where the related testing standards to IMO Res.MSC 512(105), will be available, the Resolution IMO Res.MSC 512(105), will be included into the MED IR to all its effects.  Row 2 of 2 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI ETS 300 067 Ed.1:1990-11,  - ETSI ETS 300 067/A1 Ed.1:1993-10,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - ETSI ETS 300 067 Ed.1:1990-11,  - ETSI ETS 300 067/A1 Ed.1:1993-10,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - 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 Res. MSC.191(79),  - IMO Res. MSC.302(87),  - IMO COMSAR/Circ.32 Revision 2,  - IMO MSC.1/Circ.1460 Revision 4,  - IMO MSC.1/Circ.1676,  - 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). |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/5.6  406 MHz EPIRB (COSPAS-SARSAT)  Row 1 of 1 | 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. | - IMO MSC/Circ.862,  Note: IMO MSC/Circ.862 is applicable only to the optional remote activation device, not to the EPIRB itself.  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-2 ed4.0:2021. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - SOLAS 74 Reg. IV/7,  - IMO Res. A.662(16),  - 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.471(101),  - IMO MSC/Circ.862,  - IMO COMSAR/Circ.32, Revision 2,  - ITU-R M.633-4 (12/10),  - ITU-R M.690-3 (03/15). |

Item MED/5.7, L band 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.

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/5.10  MF radio capable of transmitting and receiving DSC and radiotelephony  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.  Row 1 of 4 | 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. | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  IEC 61162-450:2018,  - ETSI EN 300 338-1 V1.4.2:2017-11,  - ETSI EN 300 338-2 V1.4.1:2017-02,  - ETSI EN 300 373-1 V1.4.1:2013-09,  - ETSI EN 301 843-5 V2.2.1:2017-11,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-9: 1997,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 13.9.2019 | 12.8.2023  (iii) |
| Carriage and performance requirements  - 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 Res. MSC.302(87),  - 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). |
| MED/5.10  MF radio capable of transmitting and receiving DSC and radiotelephony  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.  Row 2 of 4 | 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. | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI EN 300 338-1 V1.5.1:2019-09,  - ETSI EN 300 338-2 V1.4.1:2017-02,  - ETSI EN 300 373-1 V1.4.1:2013-09,  - ETSI EN 301 843-5 V2.2.1:2017-11,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-9: 1997,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 12.8.2020 | 25.8.2024  (iii) |
| Carriage and performance requirements  - 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 Res. MSC.302(87),  - IMO MSC.1/Circ.1460,  - IMO COMSAR/Circ.32,  - ITU-R M.493-15 (01/19),  - ITU-R M.541-10 (10/15),  - ITU-R M.1173-1 (03/12). |
| MED/5.10  MF radio capable of transmitting and receiving DSC and radiotelephony  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.  Row 3 of 4 | 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. | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI EN 300 338-1 V1.5.1:2019-09,  - ETSI EN 300 338-2 V1.5.1:2020-06,  - ETSI EN 300 373-1 V1.4.1:2013-09,  - ETSI EN 301 843-5 V2.2.1:2017-11,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-9: 1997,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 25.8.2021 | 10.10.2026  (iii) |
| Carriage and performance requirements  - 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 Res. MSC.302(87),  - IMO MSC.1/Circ.1460,  - IMO COMSAR/Circ.32,  - ITU-R M.493-15 (01/19),  - ITU-R M.541-10 (10/15),  - ITU-R M.1173-1 (03/12). |
| MED/5.10  MF radio capable of transmitting and receiving DSC and radiotelephony  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.  Note: Regardless of the current availability of IMO Res.MSC 512(105), such a resolution has not been included in the current certification scheme or this MED IR because of the lack of related testing standards. Thus, in accordance with the IMO MSC.1/Circ 1676, the IMO Res.A. 804(19) can be still applied for certification purposes until 1 January 2028. Where the related testing standards to IMO Res.MSC 512(105), will be available, the Resolution IMO Res.MSC 512(105), will be included into the MED IR to all its effects.  Row 4 of 4 | 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. | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI EN 300 338-1 V1.6.1:2021-05,  - ETSI EN 300 338-2 V1.5.1:2020-06,  - ETSI EN 300 338-7 V1.1.1:2022-04,  - ETSI EN 300 373-1 V1.4.1:2013-09,  - ETSI EN 301 843-5 V2.2.1:2017-11,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-9: 1997,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. With A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - 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 Res. MSC.191(79),  - IMO Res. MSC.302(87),  - IMO COMSAR/Circ.32 Revision 2,  - IMO MSC.1/Circ.1676,  - ITU-R M.493-15 (01/19),  - ITU-R M.541-10 (10/15),  - ITU-R M.1173-1 (03/12). |

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| 1 | 2 | | 3 | 4 | | 5 | 6 |
| MED/5.11  MF DSC watch-keeping receiver  Row 1 of 4 | 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. | | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  IEC 61162-450 :2018,  - ETSI EN 300 338-1 V1.4.2 :2017-11,  - ETSI EN 300 338-2 V1.4.1:2017-02,  - ETSI EN 301 033 V1.4.1:2013-09,  - ETSI EN 301 843-5 V2.2.1 :2017-11,  - IEC 62923-1 :2018,  - IEC 62923-2 :2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-8:1998,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. With A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | | 13.9.2019 | 12.8.2023  (iii) |
| Carriage and performance requirements  - 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 Res. MSC.302(87),  - IMO COMSAR/Circ.32,  - ITU-R M.493-14 (09/15),  - ITU-R M.541-10 (10/15),  - ITU-R M.1173-1 (03/12). | |
| MED/5.11  MF DSC watch-keeping receiver  Row 2 of 4 | | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450 :2018,  - ETSI EN 300 338-1 V1.5.1:2019-09,  - ETSI EN 300 338-2 V1.4.1:2017-02,  - ETSI EN 301 033 V1.4.1:2013-09,  - ETSI EN 301 843-5 V2.2.1:2017-11,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-8:1998,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. With A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | | B+D  B+E  B+F | 12.8.2020 | 25.8.2024  (iii) |
| Carriage and performance requirements  - 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 Res. MSC.302(87),  - IMO COMSAR/Circ.32,  - ITU-R M.493-15 (01/19),  - ITU-R M.541-10 (10/15),  - ITU-R M.1173-1 (03/12). |
| MED/5.11  MF DSC watch-keeping receiver  Row 3 of 4 | | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450 :2018,  - ETSI EN 300 338-1 V1.5.1:2019-09,  - ETSI EN 300 338-2 V1.5.1:2020-06,  - ETSI EN 301 033 V1.4.1:2013-09,  - ETSI EN 301 843-5 V2.2.1:2017-11,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-8:1998,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. With A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | | B+D  B+E  B+F | 25.8.2021 | 10.10.2026  (iii) |
| Carriage and performance requirements  - 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 Res. MSC.302(87),  - IMO COMSAR/Circ.32,  - ITU-R M.493-15 (01/19),  - ITU-R M.541-10 (10/15),  - ITU-R M.1173-1 (03/12). |
| MED/5.11  MF DSC watch-keeping receiver  Note: Regardless of the current availability of IMO Res.MSC 512(105), such a resolution has not been included in the current certification scheme or this MED IR because of the lack of related testing standards. Thus, in accordance with the IMO MSC.1/Circ 1676, the IMO Res.A. 804(19) can be still applied for certification purposes until 1 January 2028. Where the related testing standards to IMO Res.MSC 512(105), will be available, the Resolution IMO Res.MSC 512(105), will be included into the MED IR to all its effects.  Row 4 of 4 | | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI EN 300 338-1 V1.6.1:2021-05,  - ETSI EN 300 338-2 V1.5.1:2020-06,  - ETSI EN 300 338-7 V1.1.1:2022-04,  - ETSI EN 301 033 V1.4.1:2013-09,  - ETSI EN 301 843-5 V2.2.1:2017-11,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-8:1998,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - 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 Res. MSC.191(79),  - IMO Res. MSC.302(87),  - IMO COMSAR/Circ.32 Revision 2,  - IMO MSC.1/Circ 1676,  - ITU-R M.493-15 (01/19),  - ITU-R M.541-10 (10/15),  - ITU-R M.1173-1 (03/12). |

MED/5.12 Inmarsat-B SES this item has been deleted as Inmarsat-B SES Service has been discontinued on 31 December 2016.

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/5.13  Inmarsat-C SES  Row 1 of 2 | 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. | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  IEC 61162-450:2018,  - ETSI ETS 300 460 Ed.1:1996-05,  - ETSI ETS 300 460/A1:1997-11,  - ETSI EN 301 843-1 V2.2.1:2017-11,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-4: 2012,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 13.9.2019 | 12.8.2023  (iii) |
| 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.664(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.302(87),  - IMO Res. MSC.306(87),  - IMO MSC/Circ.862,  - IMO COMSAR/Circ.32. |
| MED/5.13  Inmarsat-C SES  Note: Regardless of the current availability of IMO Res.MSC 513(105), such a resolution has not been included in the current certification scheme for this MED IR because of the lack of related testing standards. Thus, in accordance with the IMO MSC.1/Circ 1676, the IMO Res.A. 807(19) can be still applied for certification purposes until 1 January 2028. Where the related testing standards to IMO Res.MSC 513(105), will be available, the Resolution IMO Res.MSC 513(105), will be included into the MED IR to all its effects.  Row 2 of 2 | 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. | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI ETS 300 460 Ed.1:1996-05,  - ETSI ETS 300 460/A1:1997-11,  - ETSI EN 301 843-1 V2.2.1:2017-11,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-4: 2012 +A1:2016+A2:2019,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F |  |  |
| 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.664(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.302(87),  - IMO Res. MSC.306(87),  - IMO MSC/Circ.862,  - IMO MSC.1/Circ.1676,  - IMO COMSAR/Circ.32 Revision 2. |

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| --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | | 3 | 4 | 5 | 6 |
| MED/5.14  MF/HF radio capable of transmitting and receiving DSC, NBDP and radiotelephony  Note: In line with IMO and ITU decisions, the requirements for two-tone alarm generator and transmission on A3H are no longer applicable in testing standards.  Row 1 of 5 | 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. | | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  IEC 61162-450:2018,  - ETSI ETS 300 067 Ed.1:1990-11,  - ETSI ETS 300 067/A1 Ed.1:1993-10,  - ETSI EN 300 338-1 V1.4.2:2017-11,  - ETSI EN 300 338-2 V1.4.1:2017-02,  - ETSI EN 300 373-1 V1.4.1:2013-09,  - ETSI EN 301 843-5 V2.2.1:2017-11,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  Or:  - IMO MSC/Circ.862,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-9: 1997,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 13.9.2019 | 12.8.2023  (iii) |
| Carriage and performance requirements  - 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 Res. MSC.302(87),  - 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). | |
| MED/5.14  MF/HF radio capable of transmitting and receiving DSC, NBDP and radiotelephony  Note: In line with IMO and ITU decisions, the requirements for two-tone alarm generator and transmission on A3H are no longer applicable in testing standards.  Row 2 of 5 | | 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. | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI ETS 300 067 Ed.1:1990-11,  - ETSI ETS 300 067/A1 Ed.1:1993-10,  - ETSI EN 300 338-1 V1.5.1:2019-09,  - ETSI EN 300 338-2 V1.4.1:2017-02,  - ETSI EN 300 373-1 V1.4.1:2013-09,  - ETSI EN 301 843-5 V2.2.1:2017-11,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IMO MSC/Circ.862,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-9: 1997,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 12.8.2020 | 25.8.2024  (iii) |
| Carriage and performance requirements  - 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 Res. MSC.302(87),  - 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.493-15 (01/19),  - ITU-R M.541-10 (10/15)  - ITU-R M.625-4 (03/12),  - ITU-R M.1173-1 (03/12). |
| MED/5.14  MF/HF radio capable of transmitting and receiving DSC, NBDP and radiotelephony  Note: In line with IMO and ITU decisions, the requirements for two-tone alarm generator and transmission on A3H are no longer applicable in testing standards.  Row 3 of 5 | | 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. | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI ETS 300 067 Ed.1:1990-11,  - ETSI ETS 300 067/A1 Ed.1:1993-10,  - ETSI EN 300 338-1 V1.5.1:2019-09,  - ETSI EN 300 338-2 V1.5.1:2020-06,  - ETSI EN 300 373-1 V1.4.1:2013-09,  - ETSI EN 301 843-5 V2.2.1:2017-11,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IMO MSC/Circ.862,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-9: 1997,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 25.8.2021 | 15.8.2025  (iii) |
| Carriage and performance requirements  - 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 Res. MSC.302(87),  - 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.493-15 (01/19),  - ITU-R M.541-10 (10/15)  - ITU-R M.625-4 (03/12),  - ITU-R M.1173-1 (03/12). |
| MED/5.14  MF/HF radio capable of transmitting and receiving DSC, NBDP and radiotelephony  Note: In line with IMO and ITU decisions, the requirements for two-tone alarm generator and transmission on A3H are no longer applicable in testing standards.  Row 4 of 5 | | 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. | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI ETS 300 067 Ed.1:1990-11,  - ETSI ETS 300 067/A1 Ed.1:1993-10,  - ETSI EN 300 338-1 V1.6.1:2021-05,  - ETSI EN 300 338-2 V1.5.1:2020-06,  - ETSI EN 300 373-1 V1.4.1:2013-09,  - ETSI EN 301 843-5 V2.2.1:2017-11,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IMO MSC/Circ.862,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-9: 1997,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 15.8.2022 | 10.10.2026  (iii) |
| Carriage and performance requirements  - 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 Res. MSC.302(87),  - 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.493-15 (01/19),  - ITU-R M.541-10 (10/15)  - ITU-R M.625-4 (03/12),  - ITU-R M.1173-1 (03/12). |
| MED/5.14  MF/HF radio capable of transmitting and receiving DSC, NBDP and radiotelephony  Note: In line with IMO and ITU decisions, the requirements for two-tone alarm generator and transmission on A3H are no longer applicable in testing standards.  Note: Regardless of the current availability of IMO Res.MSC 512(105), that resolution has not been included in the current certification scheme for this MED IR because of the lack of related testing standards. In accordance with IMO MSC.1/Circ 1676, IMO Res.A. 806(19) can be still applied for certification purposes until 1 January 2028. When the related testing standards to IMO Res.MSC 512(105), will be available, the Resolution IMO Res.MSC 512(105) will be included.  Row 5 of 5 | | 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. | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI ETS 300 067 Ed.1:1990-11,  - ETSI ETS 300 067/A1 Ed.1:1993-10,  - ETSI EN 300 338-1 V1.6.1:2021-05,  - ETSI EN 300 338-2 V1.5.1:2020-06,  - ETSI EN 300 338-7 V1.1.1:2022-04,  - ETSI EN 300 373-1 V1.4.1:2013-09,  - ETSI EN 301 843-5 V2.2.1:2017-11,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IMO MSC/Circ.862,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-9: 1997,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - 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 Res. MSC.191(79),  - IMO Res. MSC.302(87),  - IMO COMSAR/Circ.32 Revision 2,  - IMO MSC/Circ.862,  - IMO MSC.1/Circ.1676,  - ITU-R M.476-5 (10/95),  - ITU-R M.492-6 (10/95),  - ITU-R M.493-15 (01/19),  - ITU-R M.541-10 (10/15)  - ITU-R M.625-4 (03/12),  - ITU-R M.1173-1 (03/12). |

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| 1 | 2 | | 3 | | 4 | 5 | 6 |
| MED/5.15  MF/HF DSC scanning watch keeping receiver  Row 1 of 5 | 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. | | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  IEC 61162-450:2018,  - ETSI EN 300 338-1 V1.4.2:2017-11,  - ETSI EN 300 338-2 V1.4.1:2017-02,  - ETSI EN 301 033 V1.4.1:2013-09,  - ETSI EN 301 843-5 V2.2.1:2017-11,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-8:1998,  - IEC 61097-9: 1997,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | | B+D  B+E  B+F | 13.9.2019 | 12.8.2023  (iii) |
| Carriage and performance requirements  - 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 Res. MSC.302(87),  - IMO COMSAR/Circ.32,  - ITU-R M.493-14 (09/15),  - ITU-R M.541-10 (10/15),  - ITU-R M.1173-1 (03/12). | |
| MED/5.15  MF/HF DSC scanning watch keeping receiver  Row 2 of 5 | | 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. | | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI EN 300 338-1 V1.5.1:2019-09,  - ETSI EN 300 338-2 V1.4.1:2017-02,  - ETSI EN 301 033 V1.4.1:2013-09,  - ETSI EN 301 843-5 V2.2.1:2017-11,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-8:1998,  - IEC 61097-9: 1997,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 12.8.2020 | 25.8.2024  (iii) |
| Carriage and performance requirements  - 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 Res. MSC.302(87),  - IMO COMSAR/Circ.32,  - ITU-R M.493-15 (01/19),  - ITU-R M.541-10 (10/15),  - ITU-R M.1173-1 (03/12). | |
| MED/5.15  MF/HF DSC scanning watch keeping receiver  Row 3 of 5 | | 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. | | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI EN 300 338-1 V1.5.1:2019-09,  - ETSI EN 300 338-2 V1.5.1:2020-06,  - ETSI EN 301 033 V1.4.1:2013-09,  - ETSI EN 301 843-5 V2.2.1:2017-11,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-8:1998,  - IEC 61097-9: 1997,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 25.8.2021 | 15.8.2025  (iii) |
| Carriage and performance requirements  - 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 Res. MSC.302(87),  - IMO COMSAR/Circ.32,  - ITU-R M.493-15 (01/19),  - ITU-R M.541-10 (10/15),  - ITU-R M.1173-1 (03/12). | |
| MED/5.15  MF/HF DSC scanning watch keeping receiver  Row 4 of 5 | | 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. | | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI EN 300 338-1 V1.6.1:2021-05,  - ETSI EN 300 338-2 V1.5.1:2020-06,  - ETSI EN 301 033 V1.4.1:2013-09,  - ETSI EN 301 843-5 V2.2.1:2017-11,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-8:1998,  - IEC 61097-9: 1997,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 15.8.2022 | 10.10.2026  (iii) |
| Carriage and performance requirements  - 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 Res. MSC.302(87),  - IMO COMSAR/Circ.32,  - ITU-R M.493-15 (01/19),  - ITU-R M.541-10 (10/15),  - ITU-R M.1173-1 (03/12). | |
| MED/5.15  MF/HF DSC scanning watch keeping receiver.  Note: Regardless of the current availability of IMO Res.MSC 512(105), that resolution has not been included in the current certification scheme for this MED IR because of the lack of related testing standards. In accordance with IMO MSC.1/Circ 1676, IMO Res.A. 806(19) can be still applied for certification purposes until 1 January 2028. When the related testing standards to IMO Res.MSC 512(105), will be available, the Resolution IMO Res.MSC 512(105) will be included.  Row 5 of 5 | | 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. | | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - ETSI EN 300 338-1 V1.6.1:2021-05,  - ETSI EN 300 338-2 V1.5.1:2020-06,  - ETSI EN 300 338-7 V1.1.1:2022-04  - ETSI EN 301 033 V1.4.1:2013-09,  - ETSI EN 301 843-5 V2.2.1:2017-11,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61097-3: 2017,  - IEC 61097-8:1998,  - IEC 61097-9: 1997,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62288 Ed. 3.0:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  - 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 Res. MSC.191(79),  - IMO Res. MSC.302(87),  - IMO COMSAR/Circ.32 Revision 2,  - IMO MSC.1/Circ.1676,  - ITU-R M.493-15 (01/19),  - ITU-R M.541-10 (10/15),  - ITU-R M.1173-1 (03/12). | |

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| MED/5.16  Aeronautical two-way VHF radio telephone apparatus  Ex. MED/9/5.8  Row 1 of 1  New item inserted by Implementing Regulation (EU) 2020/1170 | 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. | - ETSI EN 301 688 V1.2.1:2016-03,  - EN 60945:2002 incl. IEC 60945 Corr.1:2008.  Or:  - ETSI EN 301 688 V1.2.1:2016-03,  - IEC 60945:2002 incl. IEC 60945 Corr.1:2008. | B+D  B+E  B+F |  |  |
| Carriage and performance requirements  SOLAS 74/2009 Reg. IV/7,  - IMO Res. A.694(17),  - IMO Res. MSC.36(63)-(1994 HSC Code) 14,  - IMO Res. MSC.97(73)-(2000 HSC Code) 14,  - IMO Res. MSC.80(70),  - IMO COMSAR/Circ.32 Revision 2,  - ICAO Convention, Annex 10, Radio Regulations. |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| MED/5.17  Portable survival craft two-way VHF radiotelephone apparatus  Row 1 of 2 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - ETSI EN 300 225 V1.5.1:2015-12,  - ETSI EN 301 843-2 V2.2.1:2017-11.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr.1:2008,  - IEC 61097-12: 1996 +A1:2017. | B+D  B+E  B+F | 13.9.2019 | 10.10.2026  (ii) |
| Carriage and performance requirements  - SOLAS 74 Reg. III/6,  - 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,  - IMO Res. MSC.149(77),  - ITU-R M.489-2 (10/95). |
| MED/5.17  Portable survival craft two-way VHF radiotelephone apparatus  Row 2 of 2 | 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. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - ETSI EN 300 225 V1.5.1:2015-12,  - ETSI EN 301 843-2 V2.2.1:2017-11.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr.1:2008,  - IEC 61097-12: 1996 +A1:2017. | B+D  B+E  B+F | 10.10.2023 |  |
| Carriage and performance requirements  - SOLAS 74 Reg. III/6,  - 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,  - IMO Res. MSC.149(77),  - IMO Res. MSC.515(105),  - ITU-R M.489-2 (10/95). |

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| MED/5.18  Fixed survival craft two-way VHF radiotelephone apparatus  Row 1 of 1 | 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. | - 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 + A1:2017. | B+D  B+E  B+F | 19.6.2018 |  |
| 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). |

MED/5.19 – Item deleted as the Inmarsat F77 service has been discontinued as from 1 December 2020.

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| 1 | 2 | **3** | 4 | 5 | 6 |
| MED/5.20  Fire-fighter's two-way radiotelephone apparatus  New item inserted by Implementing Regulation 2019/1397  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/2.  - SOLAS 74 Reg. II-2/10. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - ETSI EN 301 843-1 V2.2.1:2017-11,  - ETSI EN 301 843-2 V2.2. 1:2017-11,  - ATEX Directive 2014/34/EU.  a) UHF portable radios:  - ETSI EN 300 720 V2.1.1:2017-01,  b) VHF portable radios:  - ETSI EN 301 178 V.2.2.2 :2017-04.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - ETSI EN 301 843-1 V2.2.1:2017-11,  - ETSI EN 301 843-2 V2.2. 1:2017-11,  - ATEX Directive 2014/34/EU.  a) UHF portable radios:  - ETSI EN 300 720 V2.1.1:2017-01,  b) VHF portable radios:  - ETSI EN 301 178 V.2.2.2 :2017-04. | B+D  B+E  B+F | 13.9.2019 | 10.10.2026  (ii) |
| Carriage and performance requirements  - SOLAS 74/2014 Reg. II-2/10.  - IMO Res. A.694(17),  - IMO MSC.1Circ 1616,  - ITU-R M.489-2 (10/95),  - ITU-R M.1174-4 (10/2019). |
| MED/5.20  Fire-fighter's two-way radiotelephone apparatus  New item inserted by Implementing Regulation 2019/1397  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. II-2/2.  - SOLAS 74 Reg. II-2/10. | - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - ETSI EN 301 843-1 V2.2.1:2017-11,  - ETSI EN 301 843-2 V2.2. 1:2017-11,  - EN 60079 series  a) UHF portable radios:  - ETSI EN 300 720 V2.1.1:2017-01,  b) VHF portable radios:  - ETSI EN 301 178 V.2.2.2 :2017-04.  Or:  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - ETSI EN 301 843-1 V2.2.1:2017-11,  - ETSI EN 301 843-2 V2.2. 1:2017-11,  - EN 60079 series  a) UHF portable radios:  - ETSI EN 300 720 V2.1.1:2017-01,  b) VHF portable radios:  - ETSI EN 301 178 V.2.2.2 :2017-04. | B+D  B+E  B+F | 10.10.2023 |  |
| Carriage and performance requirements  - SOLAS 74/2014 Reg. II-2/10.  - IMO Res. A.694(17),  - IMO MSC.1Circ 1616,  - ITU-R M.489-2 (10/95),  - ITU-R M.1174-4 (10/2019) |

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| MED/5.21  Integrated communication system (ICS)  New item inserted by Implementing Regulation 2019/1397  Row 1 of 2 | Type approval requirements  - SOLAS 74 Reg. IV/14,  - SOLAS 74 Reg. X/3.  Carriage and performance requirements  - SOLAS 74 Reg. IV/14,  - SOLAS 74 Reg. X/3,  - IMO Res. A694(17),  - IMO Res. A.811(19),  - IMO Res. MSC.36(63)-(1994 HSC Code) 14,  - IMO Res. MSC.97(73)-(2000 HSC Code) 14,  - IMO Res. MSC.191(79),  - IMO Res. MSC.302(87),  - IMO MSC.1/Circ.1389 ,  - IMO COMSAR/Circ.32.  - For GMDSS functions and units included in the ICS, the performance requirements for those functions and units apply. | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62940:2017,  - EN 61924-2:2013 incl. IEC 61924-2: Corr. 1:2013,  - EN 62288:2014,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  - For GMDSS functions and units included in the ICS, the test requirements for those functions and units apply.  Or:  - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62940:2016,  - IEC 61924-2:2012 incl. IEC 61924-2 Corr. 1:2013,  - IEC 62288:2014,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  - For GMDSS functions and units included in the ICS, the test requirements for those functions and units apply. | B+D  B+E  B+F | 13.9.2019 | 1.7.2025  (i) |

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| MED/5.21  Integrated communication system (ICS)  New item inserted by Implementing Regulation 2019/1397  Row 2 of 2 | Type approval requirements  - SOLAS 74 Reg. IV/14,  - SOLAS 74 Reg. X/3.  Carriage and performance requirements  - SOLAS 74 Reg. IV/14,  - SOLAS 74 Reg. X/3,  - IMO Res. A694(17),  - IMO Res. A.811(19),  - IMO Res. MSC.36(63)-(1994 HSC Code) 14,  - IMO Res. MSC.97(73)-(2000 HSC Code) 14,  - IMO Res. MSC.191(79),  - IMO Res. MSC.302(87),  - IMO MSC.1/Circ.1389 ,  - IMO COMSAR/Circ.32 Revision 2.  - For GMDSS functions and units included in the ICS, the performance requirements for those functions and units apply. | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN 62940:2017,  - EN IEC 62288:2022,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  - For GMDSS functions and units included in the ICS, the test requirements for those functions and units apply.  Or:  - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 62940:2016,  - IEC 62288 Ed. 3.0:2021  - IEC 62923-1:2018,  - IEC 62923-2:2018.  - For GMDSS functions and units included in the ICS, the test requirements for those functions and units apply. | B+D  B+E  B+F |  |  |

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| MED/5.22  Ship Earth station for use in the GMDSS  New item inserted by Implementing Regulation (EU) 2020/1170  Ex MED/9/5.9.  Row 1 of 3 | Type approval requirements  - SOLAS 74 Reg. IV/14,  - SOLAS 74 Reg. X/3.  Carriage and performance requirements  - SOLAS 74 Reg. IV/10,  - IMO Res. A694(17),  - IMO Res. MSC.36(63)-(1994 HSC Code) 14,  - IMO Res. MSC.97(73)-(2000 HSC Code) 14,  - IMO Res. MSC.302(87),  - IMO Res. MSC.434(98),  - IMO MSC/Circ.862,  - IMO COMSAR/Circ.32. | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018,  - ETSI EN 301 441 V2.1.1:2016,  - IEC 61097-16:2019.  Or:  - IMO MSC/Circ.862,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - ETSI EN 301 441 V2.1.1:2016,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 61097-16:2019,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  And additionally, for Inmarsat equipment:  - ETSI ETS 300 460:1996 + A1:1997. | B+D  B+E  B+F | 12.8.2020 | 25.8.2024  (iii) |

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| MED/5.22  Ship Earth station for use in the GMDSS  Inmarsat C equipment:  New item inserted by Implementing Regulation (EU) 2020/1170  Inmarsat Fleet Broad Band (FBB)equipment and Iridium equipment:  New item inserted by Implementing Regulation  (EU) 2021/1158  Ex MED/9/5.9.  Row 2 of 3 | Type approval requirements  - SOLAS 74 Reg. IV/14,  - SOLAS 74 Reg. X/3.  Carriage and performance requirements  - SOLAS 74 Reg. IV/10,  - IMO Res. A694(17),  - IMO Res. MSC.36(63)-(1994 HSC Code) 14,  - IMO Res. MSC.97(73)-(2000 HSC Code) 14,  - IMO Res. MSC.302(87),  - IMO Res. MSC.434(98),  - IMO MSC/Circ.862,  - IMO COMSAR/Circ.32. | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018,  - IEC 61097-16:2019.  And additionally, for Inmarsat C equipment:  - ETSI ETS 300 460:1996 + A1:1997.  And additionally, for Inmarsat Fleet Broad Band (FBB)equipment:  - ETSI EN 301 444 V2.1.2:2016.  And additionally, for Iridium equipment:  - ETSI EN 301 441 V2.1.1:2016.  Or:  - IMO MSC/Circ.862,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 61097-16:2019,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  And additionally, for Inmarsat C equipment:  - ETSI ETS 300 460:1996 + A1:1997.  And additionally, for Inmarsat Fleet Broad Band (FBB)equipment:  - ETSI EN 301 444 V2.1.2:2016.  And additionally, for Iridium equipment:  - ETSI EN 301 441 V2.1.1:2016. | B+D  B+E  B+F | 25.8.2021 | 15.8.2025  (iii) |

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| MED/5.22  Ship Earth station for use in the GMDSS  Inmarsat C equipment:  New item inserted by Implementing Regulation (EU) 2020/1170  Inmarsat Fleet Broad Band (FBB)equipment and Iridium equipment:  New item inserted by Implementing Regulation  (EU) 2021/1158  Ex MED/9/5.9.  Row 3 of 3 | Type approval requirements  - SOLAS 74 Reg. IV/14,  - SOLAS 74 Reg. X/3.  Carriage and performance requirements  - SOLAS 74 Reg. IV/10,  - IMO Res. A694(17),  - IMO Res. MSC.36(63)-(1994 HSC Code) 14,  - IMO Res. MSC.97(73)-(2000 HSC Code) 14,  - IMO Res. MSC.302(87),  - IMO Res. MSC.434(98),  - IMO MSC/Circ.862,  - IMO COMSAR/Circ.32 Revision 2. | - IMO MSC/Circ.862,  - EN 60945:2002 incl. IEC 60945 Corr. 1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018,  - IEC 61097-16:2019.  And additionally, for Inmarsat C equipment:  - ETSI ETS 300 460:1996 + A1:1997.  And additionally, for Inmarsat Fleet Broad Band (FBB)equipment:  - ETSI EN 301 444 V2.2.1:2021.  And additionally, for Iridium equipment:  - ETSI EN 301 441 V2.1.1:2016.  Or:  - IMO MSC/Circ.862,  - IEC 60945:2002 incl. IEC 60945 Corr. 1:2008,  - IEC 61162 series:  IEC 61162-1:2016  [IEC 61162-2 Ed.1.0:1998-09](javascript:doHTTPGetLayer('PrintDetail','23250');)  [IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11](javascript:doHTTPGetLayer('PrintDetail','44625');) and A2 Ed. 1.0:2014-07  IEC 61162-450:2018,  - IEC 61097-16:2019,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  And additionally, for Inmarsat C equipment:  - ETSI ETS 300 460:1996 + A1:1997.  And additionally, for Inmarsat Fleet Broad Band (FBB)equipment:  - ETSI EN 301 444 V2.2.1:2021.  And additionally, for Iridium equipment:  - ETSI EN 301 441 V2.1.1:2016. | B+D  B+E  B+F |  |  |

6. Equipment required under COLREG 72

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| 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  Row 1 of 1 | 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. Other safety equipment

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| 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/7.1  Self-contained compressed-air-operated breathing apparatus for entry and work in gas-filled space  (New item inserted by Implementing Regulation (EU) 2018/773 *[Should this remark be kept in the list? It seems to have no legal consequence, because it is not mentioned in Article 3 of this draft.]*, refer to item MED/3.7)  Row 1 of 1 | Type approval requirements  - SOLAS 74 Reg.II-2/10,  - IMO Res. MSC.98(73)-(FSS Code) 3. | - ISO 23269-3:2011.  Note: Associated fireproof lifeline under the item MED/3.44 shall be used together with the breathing apparatus and capable of being attached by means of a snap-hook to the harness of the apparatus or to a separate belt for preventing the breathing apparatus of becoming detached when the lifeline is operated. The declaration of conformity to this item shall indicate the equipment has to be used together with a lifeline item MED/3.44 and provide the user with the location where the lifeline is to be fitted. | B+D  B+E  B+F  G | 19.6.2018 |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-2/10,  - SOLAS 74 Reg. II-2/15,  - IMO Res. MSC.98(73)-(FSS Code) 3,  - IMO Res. MSC.4(48)-(IBC Code) 14,  - IMO Res. MSC.5(48)-(IGC Code) 14,  - IMO MSC.1/Circ.1499. |

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  Row 1 of 4 | 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 | 16.3.2017 | 13.9.2022  (iii) |
| 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. |
| MED/8.1  Water level detectors  Row 2 of 4 | 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 incl. Corr1:2013 and Corr2:2015,  - IMO Res. MSC.188(79),  - IMO MSC.1/Circ.1291. | B+D  B+E  B+F | 13.9.2019 | 15.8.2025]  (iii) |
| 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.1572. |
| MED/8.1  Water level detectors  Row 3 of 4 | 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 incl. Corr1:2013 and Corr2:2015,  - IEC 60529 Ed. 2.2:2013 incl. Corr1:2013 and Corr2:2015,  - IMO Res. MSC.188(79),  - IMO MSC.1/Circ.1291,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC-60092-504:2016,  - IEC 60529 Ed. 2.2:2013 incl. Corr1:2013 and Corr2:2015,  - IMO Res. MSC.188(79),  - IMO MSC.1/Circ.1291,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | 15.8.2022 | [OP please insert the date =  36 months after the date of entry into force of this Regulation]  (iii) |
| 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 Res. MSC.302(87),  - IMO MSC.1/Circ.1572, Revision 1. |
| MED/8.1  Water level detectors  Row 4 of 4  (NEW ROW) | Type approval requirements  - SOLAS 74 Reg. II-1/22-1,  - SOLAS 74 Reg. II-1/25,  - SOLAS 74 Reg. II-1/25-1,  - SOLAS 74 Reg. XII/12. | - IEC-60092-504:2016,  - IEC 60529 Ed. 2.2:2013 incl. Corr1:2013 and Corr2:2015,  - IEC 60529 Ed. 2.2:2013 incl. Corr1:2013 and Corr2:2015,  - IMO Res. MSC.188(79) Revision 2,  - IMO MSC.1/Circ.1291,  - EN IEC 62923-1:2018,  - EN IEC 62923-2:2018.  Or:  - IEC-60092-504:2016,  - IEC 60529 Ed. 2.2:2013 incl. Corr1:2013 and Corr2:2015,  - IMO Res. MSC.188(79) Revision 2,  - IMO MSC.1/Circ.1291,  - IEC 62923-1:2018,  - IEC 62923-2:2018. | B+D  B+E  B+F | [OP please insert the date =  Date of entry into force of this Regulation] |  |
| Carriage and performance requirements  - SOLAS 74 Reg. II-1/25,  - SOLAS 74 Reg. II-1/25-1,  - SOLAS 74 Reg. XII/12.  - IMO Res. A.1021(26),  - IMO Res. MSC.188(79) Revision 2,  - IMO Res. MSC.302(87),  - IMO MSC.1/Circ.1572, Revision 1. |

9. Equipment not subject to MED certification

The following list is for information only.

9.1. Life-saving appliances

|  |  |
| --- | --- |
| MED/9/1.5  Public address & general emergency alarm system (when used as fire alarm device item MED/3.53 shall apply) | Moved to MED/1.44a and MED/1.44b by Implementing Regulation (EU) 2022/1157. |

9.2. Marine pollution prevention equipment

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| --- | --- | --- |
| Number and item designation | Regulation MARPOL 73/78, as amended, and the relevant resolutions and circulars of the IMO, as applicable | Testing standards |
| MED/9/2.4  Equipment using other technological methods to limit SOx emissions | Type approval requirements  - IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4),  - IMO Res.MEPC.184(59). |  |
| Carriage and performance requirements  - IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4). |

9.3. Fire protection equipment

| Number and item designation | Regulation of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable | Testing standards |
| --- | --- | --- |
| MED/9/3.8  Electric safety lamp | Type approval requirements  - SOLAS 74/2009 Reg. II-2/10,  - SOLAS 74/2009 Reg. X/3,  - IMO Res.MSC.98(73)-(FSS Code) 3. | - EN 60079 series. |
| Carriage and performance requirements  - SOLAS 74/2009 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. |
| MED/9/3.9  Protective clothing resistant to chemical attack | Type approval requirements  - SOLAS 74/2009 Reg. II-2/19. | - EN 943-1:2015 incl. A1:2019,  - EN 943-2:2019,  - EN 13832-1:2018,  - EN 13832-2:2018,  - EN 13832-3:2018,  - EN 14605:2005 incl. A1:2009,  - EN ISO 6530:2005,  - ISO 6529:2013,  - IMO MSC/Circ.1120. |
| Carriage and performance requirements  - SOLAS 74/2009 Reg. II-2/19,  - IMO Res.MSC.36(63)-(1994 HSC Code) 7,  - IMO Res.MSC.97(73)-(2000 HSC Code) 7,  - IMO Res.MSC.4(48)-(IBC Code) 14,  - IMO Res.MSC.5(48)-(IGC Code) 14. |
| MED/9/3.21  Paint lockers and flammable liquid lockers fire extinguishing systems components | Type approval requirements  - SOLAS 74/2009 Reg. II-2/10. |  |
| Carriage and performance requirements  - SOLAS 74/2009 Reg. II-2/10,  - IMO MSC/Circ.1239. |
| MED/9/3.24  Portable Foam Applicator Units | Type approval requirements  - SOLAS 74/2009 Reg. II-2/10,  - SOLAS 74/2009 Reg. II-2/20,  - SOLAS 74/2009 Reg. X/3. |  |
| Carriage and performance requirements  - SOLAS 74/2009 Reg. II-2/10,  - SOLAS 74/2009 Reg. II-2/20,  - IMO Res.MSC.36(63)-(1994 HSC Code) 7,  - IMO Res.MSC.97(73)-(2000 HSC Code) 7,  - IMO Res.MSC.98(73)-(FSS Code) 4,  - IMO MSC/Circ.1239,  - IMO MSC.1/Circ.1313. |
| MED/9/3.26  Gaseous Fuel Systems Used for Domestic Purposes (components) | Type approval requirements  - SOLAS 74/2009 Reg. II-2/4. |  |
| Carriage and performance requirements  - SOLAS 74/2009 Reg. II-2/4,  - IMO MSC.1/Circ.1276. |
| MED/9/3.27  Fixed Gas Fire Extinguishing Systems (CO2) components | Type approval requirements  - SOLAS 74/2009 Reg. II-2/10,  - SOLAS 74/2009 Reg. X/3. | Electrical automatic control and delay devices:  - EN 12094-1:2003,  Non-electrical automatic control and delay devices:  - EN 12094-2:2003,  Manual triggering and stop devices:  - EN 12094-3:2003,  Container valve assemblies and their actuators:  - EN 12094-4:2004,  High- and low-pressure selector valves and their actuators:  - EN 12094-5:2006,  Non-electrical disable devices:  - EN 12094-6:2006,  Nozzles for CO2 Systems:  - EN 12094-7:2000 incl. A1:2005,  Connectors:  - EN 12094-8:2006,  Pressure gauges and pressure switches:  - EN 12094-10:2003,  Mechanical weighing devices:  - EN 12094-11:2003,  Check valves and non-return valves:  - EN 12094-13:2001 incl. AC:2002,  Odorizing devices for CO2 low pressure systems:  - EN 12094-16:2003. |
| Carriage and performance requirements  - SOLAS 74/2009 Reg. II-2/10.,  - SOLAS 74/2009 Reg. II-2/20,  - IMO Res.MSC.36(63)-(1994 HSC Code) 7,  - IMO Res.MSC.97(73)-(2000 HSC Code) 7,  - IMO Res.MSC.98(73)-(FSS Code) 5,  - IMO MSC.1/Circ.1313,  - MSC.1/Circ.1318/Rev.1,  - IMO MSC.1/Circ.1456. |
| MED/9/3.31  Water Spraying Hand Operated System | Type approval requirements  - SOLAS 74/2009 Reg. II-2/10,  - SOLAS 74/2009 Reg. II-2/19. |  |
| Carriage and performance requirements  - SOLAS 74/2009 Reg. II-2/10,  - SOLAS 74/2009 Reg. II-2/19. |
| MED/9/3.33  Fire hoses with diameter > 52 mm | Type approval requirements  - SOLAS 74/2009 Reg. II-2/10,  - SOLAS 74/2009 Reg. X/3. |  |
| Carriage and performance requirements  - SOLAS 74/2009 Reg. II-2/10,  - IMO Res.MSC.36(63)-(1994 HSC Code) 7,  - IMO Res.MSC.97(73)-(2000 HSC Code) 7. |
| MED/9/3.74  Alcohol-resistant foam system  Added by Implementing Regulation (EU) 2022/1157. | Type approval requirements  - SOLAS 74 Reg.II-1/56,  - SOLAS 74 Reg.II-1/57. |  |
| Carriage and performance requirements  - SOLAS 74 Reg.II-1/56,  - IMO Res.MSC.391(95)-(IGF Code),  - IMO MSC..1/Circ.1621. |
| MED/9/3.75  Flexible hoses suitable for methyl/ethyl alcohol for fuel piping systems  Added by Implementing Regulation (EU) 2022/1157. | Type approval requirements  - SOLAS 74 Reg.II-1/56,  - SOLAS 74 Reg.II-1/57. |  |
| Carriage and performance requirements  - SOLAS 74 Reg.II-1/56,  - IMO Res.MSC.391(95)-(IGF Code),  - IMO MSC..1/Circ.1621. |
| MED/9/3.76  Vapour outlets suitable for methyl/ethyl alcohol fuel tanks  Added by Implementing Regulation (EU) 2022/1157. | Type approval requirements  - SOLAS 74 Reg.II-1/56,  - SOLAS 74 Reg.II-1/57. |  |
| Carriage and performance requirements  - SOLAS 74 Reg.II-1/56,  - IMO Res. MSC.5(48)-(IGC Code),  - IMO MSC..1/Circ.1621. |

9.4. Navigation equipment

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| --- | --- | --- |
| Number and item designation | Regulation SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable | Testing standards |
| MED/9/4.20  Track control system for - high-speed craft | Type approval requirements  - SOLAS 74/2009 Reg. X/3,  - IMO Res.MSC.36(63)-(1994 HSC Code),  - IMO Res.MSC.97(73)-(2000 HSC Code). | - EN 60945:2002 incl. IEC 60945:2002/COR1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018.  - IEC 62288:2014,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  Or  - IEC 60945:2002 incl. IEC 60945:2002/COR1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018.  - IEC 62288:2014,  - IEC 62923-1:2018,  - IEC 62923-2:2018. |
| Carriage and performance requirements  - IMO Res.A.694(17),  - IMO Res.MSC.36(63)-(1994 HSC Code),  - IMO Res.MSC.97(73)-(2000 HSC Code),  - IMO Res.MSC.191(79). |
| MED/9/4.21  Electronic Record Book (ERB)  Added by Implementing Regulation (EU) 2024/XXXX. [OP please insert number of this Regulation] | 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. | - EN 60945:2002 incl. IEC 60945:2002/COR1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018.  - IEC 62288:2014,  - IEC 62923-1:2018,  - IEC 62923-2:2018,  - ISO 21745:2019.  Or  - IEC 60945:2002 incl. IEC 60945:2002/COR1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018.  - IEC 62288:2014,  - IEC 62923-1:2018,  - IEC 62923-2:2018,  - ISO 21745:2019. |
| 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,  - IMO Res.MSC.191(79),  - IMO Res.MSC.302(87).  Comment: A specific SOLAS carriage requirement (eg SOLAS V/19) is not available for the time being |

9.5. Radiocommunication equipment

|  |  |  |
| --- | --- | --- |
| Number and item designation | Regulation SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable | Testing standards |
| MED/9/5.8  Aeronautical two-way VHF radio telephone apparatus | Moved to MED/5.16 by Implementing Regulation (EU) 2020/1170. | |

9.6. Equipment required under COLREG 72

|  |  |  |
| --- | --- | --- |
| Number and item designation | Regulation of COLREG 72, as amended, and the relevant resolutions and circulars of the IMO, as applicable | Testing standards |
| MED/9/6.2  Sound signal appliances | Type approval requirements  - COLREG 72 Annex III/3. | - EN 60945:2002 incl. IEC 60945:2002/COR1:2008,  - Whistles - COLREG 72 Annex III/1 (Performance),  - Bells or Gongs - COLREG 72 Annex III/2 (Performance),  Or  - IEC 60945:2002 incl. IEC 60945:2002/COR1:2008,  - Whistles - COLREG 72 Annex III/1 (Performance),  - Bells or Gongs - COLREG 72 Annex III/2 (Performance). |
| Carriage and performance requirements  - COLREG 72 Annex III/3,  - IMO Res.A.694(17). |
| MED/9/6.3  Navigation lights controller  Added by Implementing Regulation (EU) 2024/XXXX. [OP please insert number of this Regulation] | Type approval requirements  - COLREG 72 Annex I/14. | - EN 60945:2002 incl. IEC 60945:2002/COR1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018.  - IEC 62288:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018.  Or  - IEC 60945:2002 incl. IEC 60945:2002/COR1:2008,  - EN 61162 series:  EN 61162-1:2016  [EN 61162-2:1998](javascript:doHTTPGetLayer('PrintDetail','23250');)  [EN 61162-3:2008](javascript:doHTTPGetLayer('PrintDetail','39399');) +A1:2010+A2:2014  EN IEC 61162-450:2018.  - IEC 62288:2021,  - IEC 62923-1:2018,  - IEC 62923-2:2018. |
| Carriage and performance requirements  - COLREG 72 Annex I/14.  - IMO Res.A.694(17),  - IMO Res.MSC.191(79),  - IMO Res.MSC.253(83),  - IMO Res.MSC.302(87).  Comment: A specific carriage requirement is not available for the time being. |

9.7. Other safety equipment

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| Number and item designation | Regulation SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable | Testing standards |
| MED/9/7.1  Loading instrument  Note: Please see IACS Recommendation No. 48. | Type approval requirements  - SOLAS 74/2009 Reg. XII/11,  - 1997 SOLAS Conference Res. 5. | - IMO MSC.1/Circ.1229. |
| Carriage and performance requirements  - SOLAS 74/2009 Reg. XII/11,  - 1997 SOLAS Conference Res. 5. |

9.8. SOLAS Chapter II-1 equipment

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| --- | --- | --- |
| Number and item designation | Regulation SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable | Testing standards |
| MED/9/8.1  Cold weather starting of generator sets (starting devices) | Type approval requirements  - SOLAS 74/2009 Reg. II-1/44,  - SOLAS 74/2009 Reg. X/3. |  |
| Carriage and performance requirements  - SOLAS 74/2009 Reg. II-1/44,  - IMO Res.MSC.36(63)-(1994 HSC Code) 12,  - IMO Res.MSC.97(73)-(2000 HSC Code) 12,  - IMO MSC.1/Circ.1572/Rev.1. |

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