

*Suppliment tal-Gazzetta tal-Gvern ta' Malta, Nru. 19, 135, 10 ta' Settembru, 2013*  
*Taqsim B*

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**L.N 267 of 2013**

**PRODUCT SAFETY ACT**  
**(CAP. 427)**  
**Conformity Assessment of Marine Equipment**  
**(Amendment) Regulations, 2013**

IN exercise of the powers conferred by articles 38 and 39 of the Product Safety Act, the Minister for Social Dialogue, Consumer Affairs and Civil Liberties, on the advice of the Malta Competition and Consumer Affairs Authority, has made the following regulations:-

1. (1) The title of these regulations is the Conformity Assessment of Marine Equipment (Amendment) Regulations, 2013, and they shall be read and construed as one with the Conformity Assessment of Marine Equipment Regulations, hereinafter referred to as "the principal regulations".

Citation, scope and commencement.  
S.L. 427.60.

(2) These regulations transpose Commission Directive 2012/32/EU amending Council Directive 96/98/EC on marine equipment.

(3) These regulations shall apply to equipment falling under the scope of the principal regulations.

(4) These regulations shall come into force on 30th November 2013.

2. For regulation 5(3)(b) of the principal regulations there shall be substituted the following:

Amends regulation 5 to the principal regulations.

"(b) Equipment listed in Schedule Ia as having been transferred from Schedule Ib which was manufactured before 30 November 2013 in accordance with procedures for type-approval already in force before this date, may continue to be placed on the market and on board a Community ship until 30 November 2015."

3. Schedules I, Ia and Ib to the principal regulations shall be substituted the following new Schedules:

Substitutes Schedule I, Ia and Ib of the principal regulations.

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**"Schedule I**  
**(Based on Annex A of Directive 96/98/EC)**  
**(Regulation 5)**

**List of Acronyms Used**

*General note for Schedule I: SOLAS Regulations refer to SOLAS consolidated version 2009.*

*General note for Schedule I: Within certain item designations, column 5 shows some possible product variants under the same item designation. Product variants are independently provisioned and separated by a dotted lined from each others. For certification purpose only the relevant product variant shall be chosen, as appropriate (Example: A.1/3.3).*

List of acronyms used:

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

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

AC: Amending Corrigendum concerning Standard Documents other than IMO.

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

Circ.: Circular.

COLREG: International Regulations for Preventing Collisions at Sea.

COMSAR: IMO's Sub-Committee on Radiocommunications and Search and Rescue.

EN: European Standard.

ETSI: European Telecommunication Standardisation Institute.

FSS: International Code for Fire Safety Systems.

FTP: International Code for Application of Fire Test Procedures.

HSC: High Speed Craft Code.

IBC: International Bulk Chemical Code.

ICAO: International Civil Aviation Organization.

IEC: International Electro-technical Commission.

IMO: International Maritime Organization.

ISO: International Standardisation Organisation.

ITU: International Telecommunication Union.

LSA: Life saving appliance.

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

MEPC: Marine Environment Protection Committee.

MSC: Maritime Safety Committee.

NO<sub>x</sub> : Nitrogen Oxides.

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

SO<sub>x</sub> : Sulphur Oxides.

Reg.: Regulation.

Res.: Resolution.

**Schedule Ia**  
**(Based on Annex A.1 of Directive 96/98/EC)**  
**Equipment for which detailed testing standards already**  
**exist in International Instruments**

*Notes applicable to the whole of Schedule Ia:*

- (a) General: in addition to the testing standards specifically mentioned, a number of provisions, which must be checked during type-examination (type approval) as referred to in the modules for conformity assessment in Schedule II, are to be found in the applicable requirements of the international conventions and the relevant resolutions and circulars of the IMO.
- (b) Column 1: Article 2 of Commission Directive 2010/68/EU may apply (6th amendment of MED Annex A).
- (c) Column 1: Article 2 of Commission Directive 2011/75/EU may apply (7th amendment of MED Annex A).
- (d) Column 2: When the term "systems 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.
- (e) Column 5: Where IMO Resolutions are cited, only the testing standards contained in relevant parts of the Annexes to the Resolutions are applicable and exclude the provisions of the Resolutions themselves.
- (f) Column 5: International conventions and testing standards apply in their up-to-date version. For the purpose of identifying correctly the relevant standards, test reports, certificates of conformity and declarations of conformity shall identify the specific testing standard applied and its version.
- (g) Column 5: Where two sets of identifying standards are separated by "or", each set fulfils all the testing requirements to meet IMO performance standards; thus testing to one of these sets is sufficient to demonstrate compliance with the requirements of the relevant international instruments. Conversely, when other separators (comma) are used all the listed references apply.
- (h) Column 6: Where module H appears, module H plus design-examination certificate is to be understood.
- (i) The requirements laid down in this Annex shall be without prejudice to carriage requirements in the international conventions.

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**1.Life-saving appliances**

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

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/1.1	Lifebuoys	Reg. III/4, Reg. X/3.	Reg. III/7, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, II, IMO Res. MSC.97(73)-(2000 HSC Code) 8.	IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.2	Position-indicating lights for life-saving appliances: (a) for survival craft and rescue boats, (b) for lifebuoys, (c) for lifejackets.	Reg. III/4, Reg. X/3.	Reg. III/7, Reg. III/22, Reg. III/26, Reg. III/32, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) II, IV, IMO Res. MSC.97(73)-(2000 HSC Code) 8.	IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.3	Lifebuoys self-activating smoke signals	Reg. III/4, Reg. X/3.	Reg. III/7, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, II, IMO Res. MSC.97(73)-(2000 HSC Code) 8.	IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.4	Lifejackets	Reg. III/4, Reg. X/3.	Reg. III/7, Reg. III/22, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, II, IMO Res. MSC.97(73)-(2000 HSC Code) 8, IMO MSC/Circ.922, IMO MSC.1/Circ.1304.	IMO Res. MSC.81(70).	B + D B + E B + F

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/1.5	Immersion suits and anti-exposure suits not classified as lifejackets: insulated or not insulated.	Reg. III/4, Reg. X/3.	Reg. III/7, Reg. III/22, Reg. III/32, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, II, IMO Res. MSC.97(73)-(2000 HSC Code) 8, IMO MSC/Circ.1046.	IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.6	Immersion suits and anti-exposure suits classified as lifejackets: insulated or non-insulated.	Reg. III/4, Reg. X/3.	Reg. III/7, Reg. III/22, Reg. III/32, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, II, IMO Res. MSC.97(73)-(2000 HSC Code) 8, IMO MSC/Circ.1046.	IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.7	Thermal protective aids	Reg. III/4, Reg. X/3	Reg. III/22, Reg. III/32, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, II, IMO Res. MSC.97(73)-(2000 HSC Code) 8, IMO MSC/Circ.1046.	IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.8	Rocket parachute flares (pyrotechnics)	Reg. III/4, Reg. X/3.	Reg. III/6, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, III, IMO Res. MSC.97(73)-(2000 HSC Code) 8.	IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.9	Hand flares (pyrotechnics)	Reg. III/4, Reg. X/3.	Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, III, IMO Res. MSC.97(73)-(2000 HSC Code) 8.	IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.10	Buoyant smoke signals (pyrotechnics)	Reg. III/4, Reg. X/3.	Reg. III/34, IMO Res. MSC.48(66)-(LSA Code) I, III.	IMO Res. MSC.81(70).	B + D B + E B + F

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/1.11	Line-throwing appliances	Reg. III/4, Reg. X/3.	Reg. III/18, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, VII, IMO Res. MSC.97(73)-(2000 HSC Code) 8.	IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.12	Inflatable liferafts	Reg. III/4, Reg. X/3.	Reg. III/13, Reg. III/21, Reg. III/26, Reg. III/31, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IV, IMO Res. MSC.97(73)-(2000 HSC Code) 8, IMO MSC/Circ.811.	IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.13	Rigid liferafts	Reg. III/4, Reg. X/3.	Reg. III/21, Reg. III/26, Reg. III/31, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IV, IMO Res. MSC.97(73)-(2000 HSC Code) 8, IMO MSC/Circ.811.	IMO Res. MSC.81(70), I MO MSC/ Circ.1006.	B + D B + E B + F
A.1/1.14	Automatically self-righting liferafts	Reg. III/4, Reg. X/3.	Reg. III/26, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IV, IMO Res. MSC.97(73)-(2000 HSC Code) 8, IMO MSC/Circ.809, IMO MSC/Circ.811.	IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.15	Canopied reversible liferafts	Reg. III/4, Reg. X/3.	Reg. III/26, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IV, IMO Res. MSC.97(73)-(2000 HSC Code) 8, IMO MSC/Circ.809, IMO MSC/Circ.811.	IMO Res. MSC.81(70).	B + D B + E B + F

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/1.16	Float-free arrangements for liferafts (hydrostatic release units)	Reg. III/4, Reg. X/3.	Reg. III/13, Reg. III/26, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IV, IMO Res. MSC.97(73)-(2000 HSC Code) 8, IMO MSC/Circ.811.	IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.17	Lifeboats: (a)davit-launched lifeboats: partially enclosed, totally enclosed. (b)free-fall lifeboats: totally enclosed.	Reg. III/4, Reg. X/3.	Reg. III/21,Reg. III/31, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IV, IMO Res. MSC.97(73)-(2000 HSC Code) 8.	IMO Res. MSC.81(70),IMO MSC/Circ.1006.	B + D B + F G
A.1/1.18	Rigid rescue boats	Reg. III/4, Reg. X/3.	Reg. III/21, Reg. III/31, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, V, IMO Res. MSC.97(73)-(2000 HSC Code) 8.	IMO Res. MSC.81(70),IMO MSC/Circ.1006.	B + D B + F G
A.1/1.19	Inflated rescue boats	Reg. III/4, Reg. X/3.	Reg. III/21, Reg. III/31, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, V, IMO Res. MSC.97(73)-(2000 HSC Code) 8.	IMO Res. MSC.81(70),ISO 15372 (2000).	B + D B + F G
A.1/1.20	Fast rescue boats: (a)inflated, (b)rigid, (c)rigid-inflated.	Reg. III/4.	Reg. III/26, Reg. III/34, IMO Res. MSC.48(66)-(LSA Code) I, V, IMO MSC/Circ.1016, IMO MSC/Circ.1094.	IMO Res. MSC.81(70),IMO MSC/Circ.1006,ISO 15372 (2000).	B + D B + F G

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/1.21	Launching appliances using falls (davits)	Reg. III/4, Reg. X/3.	Reg. III/23, Reg. III/33, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, VI, IMO Res. MSC.97(73)-(2000 HSC Code) 8.	IMO Res. MSC.81(70).	B + D B + E B + F G
A.1/1.22	Float free launching appliances for survival craft	Moved to A.2/1.3			
A.1/1.23	Launching appliances for free-fall lifeboats	Reg. III/4, Reg. X/3.	Reg. III/16, Reg. III/23, Reg. III/33, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, VI, IMO Res. MSC.97(73)-(2000 HSC Code) 8.	IMO Res. MSC.81(70).	B + D B + E B + F G
A.1/1.24	Liferaft launching appliances (davits)	Reg. III/4, Reg. X/3.	Reg. III/12, Reg. III/16, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, VI, IMO Res. MSC.97(73)-(2000 HSC Code) 8.	IMO Res. MSC.81(70).	B + D B + E B + F G
A.1/1.25	Fast rescue boat launching appliances (davits)	Reg. III/4.	Reg. III/26, Reg. III/34, IMO Res. MSC.48(66)-(LSA Code) I, VI.	IMO Res. MSC.81(70).	B + D B + E B + F G
A.1/1.26	Release mechanism for: (a) lifeboats and rescue boats (launched by a fall or falls), (b) liferafts (launched by a fall or falls).	Reg. III/4, Reg. X/3.	Reg. III/16, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IV, VI [3], IMO Res. MSC.97(73)-(2000 HSC Code) 8.	IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.27	Marine evacuation systems	Reg. III/4, Reg. X/3.	Reg. III/15, Reg. III/26, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, VI, IMO Res. MSC.97(73)-(2000 HSC Code) 8.	IMO Res. MSC.81(70).	B + D B + F G



No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/1.28	Means of rescue	Reg. III/4.	Reg. III/26, Reg. III/34, IMO Res. MSC.48(66)-(LSA Code) I, VI.	IMO Res. MSC.81(70),IMO MSC/Circ.810.	B + D B + F
A.1/1.29	Embarkation ladders	Reg. III/4, Reg. III/11, Reg. X/3.	Reg. III/11, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code), IMO Res. MSC.48(66)-(LSA Code),IMO Res. MSC.97(73)-(2000 HSC Code), IMOMSC.1/Circ.1285.	IMO Res. MSC.81(70),ISO 5489 (2008).	B + D B + F
A.1/1.30	Retro-reflective materials	Reg. III/4, Reg. X/3.	Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IMO Res. MSC.97(73)-(2000 HSC Code) 8.	IMO Res. A.658(16).	B + D B + E B + F
A.1/1.31	Survival craft two-way VHF radio telephone apparatus	Moved to A.1/5.17 and A.1/5.18			
A.1/1.32	9 GHz SAR transponder (SART)	Moved to A.1/4.18			

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/1.33	Radar reflector for lifeboats and rescue boats (passive)	Reg. III/4, Reg. X/3.	Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IV, V, IMO Res. MSC.97(73)-(2000 HSC Code) 8, IMO Res. MSC.164(78).	EN ISO 8729(1998), EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008).or EN ISO 8729(1998), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).or ISO 8729-1 (2010), EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008).or ISO 8729-1 (2010), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F
A.1/1.34	Compass for lifeboats and rescue boats	Moved to A.1/4.23			
A.1/1.35	Portable fire-extinguishing equipment for lifeboats and rescue boats	Moved to A.1/3.38			
A.1/1.36	Lifeboat/rescue boat propulsion engine	Reg. III/4, Reg. X/3.	Reg. III/34, IMO Res. MSC.48(66)-(LSA Code) IV, V.	IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.37	Rescue boat propulsion engine outboard motor	Reg. III/4, Reg. X/3.	Reg. III/34, IMO Res. MSC.48(66)-(LSA Code) V.	IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.38	Searchlights for use in lifeboats and rescue boats	Reg. III/4, Reg. X/3.	Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IV, V, IMO Res. MSC.97(73)-(2000 HSC Code) 8.	IMO Res. MSC.81(70).	B + D B + E B + F

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/1.39	Open reversible liferafts	Reg. III/4, Reg. X/3.	IMO Res. MSC.36(63)-(1994 HSC Code) 8, Annex 10, IMO Res. MSC.48(66)-(LSA Code) I, IMO Res. MSC.97(73)-(2000 HSC Code) 8, Annex 11.	IMO Res. MSC.36(63)-(1994 HSC Code) Annex 10, IMO Res. MSC.97(73)-(2000 HSC Code) Annex 11.	B + D B + F
A.1/1.40	Mechanical pilot hoist	Moved to A.1/4.48			
A.1/1.41	Winches for survival craft and rescue boats (a) davit-launched lifeboats, (b) free-fall lifeboats, (c) liferafts, (d) rescue boats, (e) fast rescue boats.	Reg. III/4, Reg. X/3.	Reg. III/16, Reg. III/17, Reg. III/23, Reg. III/24, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, VI, IMO Res. MSC.97(73)-(2000 HSC Code) 8.	IMO Res. MSC.81(70).	B + D B + E B + F G
A.1/1.42	Pilot ladder	Moved to A.1/4.49			
A.1/1.43 Refer to note (b) of this Annex A.1	Rigid/inflated rescue boats	Reg. III/4, Reg. X/3.	Reg. III/21, Reg. III/31, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, V, IMO Res. MSC.97(73)-(2000 HSC Code) 8.	IMO Res. MSC.81(70), IMO MSC/Circ.1006, ISO 15372 (2000).	B + D B + F G
<b>2. Marine pollution prevention</b>					
A.1/2.1	Oil-filtering equipment (for an oil content of the effluent not exceeding 15 p.p.m.)	Annex I, Reg.14.	Annex I, Reg. 14, IMO MEPC.1 /Circ.643.	IMO Res. MEPC.107(49), IMO MEPC.1 /Circ.643.	B + D B + E B + F
A.1/2.2	Oil/water interface detectors	Annex I, Reg. 32.	Annex I, Reg. 32.	IMO Res. MEPC.5(XIII).	B + D B + E B + F
A.1/2.3	Oil-content meters	Annex I, Reg. 14.	Annex I, Reg. 14, IMO MEPC.1 /Circ.643.	IMO Res. MEPC.107(49), IMO MEPC.1 /Circ.643.	B + D B + E B + F

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/2.4	Process units intended for attachment to existing oily water separating equipment (for an oil content of the effluent not exceeding 15 p.p.m.)	Deliberately left blank			
A.1/2.5	Oil discharge monitoring and control system for oil tankers	Annex I, Reg. 31.	Annex I, Reg. 31.	IMO Res. MEPC.108(49).	B + D B + E B + F
A.1/2.6	Sewage systems	Annex IV, Reg. 9.	Annex IV, Reg. 9.	IMO Res. MEPC.159(55).	B + D B + E B + F
A.1/2.7	Shipboard incinerators	Annex VI, Reg. 16.	Annex VI, Reg.16.	IMO Res. MEPC.76(40).	B + D B + E B + F G
A.1/2.8	On board NOx analysers using the direct measurement and monitoring method of NOx Technical Code 2008	IMO Res. MEPC.176(58) (Revised Marpol Annex VI, Reg. 13)	IMO Res. MEPC.176(58) (Revised Marpol Annex VI, Reg. 13); IMO Res. MEPC.177(58) (NOx Technical Code 2008) IMO MEPC.1 /Circ.638.	IMO Res. MEPC.177(58) (NOx Technical Code 2008) Code 2008) EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). or IMO Res. MEPC.177(58) (NOx Technical Code 2008) IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F G
A.1/2.9	Equipment using other technological methods to limit SOx emissions	Moved to A.2/2.4			

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/2.10 Refer to note (c) of this Annex A.1	On board exhaust gas cleaning systems	IMO Res. MEPC.176(58) (Revised Marpol Annex VI, Reg. 4), IMO Res. MEPC.184(59).	IMO Res. MEPC.176(58) (Revised Marpol Annex VI, Reg. 4).	IMO Res. MEPC.184(59).	B + D B + E B + F G
<b>3. Fire protection equipment</b>					
A.1/3.1	Primary decks covering	Reg. II-2/4, Reg. II-2/6, Reg. X/3.	Reg. II-2/4, Reg. II-2/6, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7.	IMO Res. MSC.307(88)- (2010 FTP Code), IMO MSC /Circ.1102.	B + D B + E B + F
A.1/3.2	Portable fire extinguishers	Reg. II-2/10, Reg. X/3, IMO Res. MSC.98(73) (FSS Code) 4.	Reg. II-2/4, Reg. II-2/10, Reg. II-2/18, Reg. II-2/19, Reg. II-2/20, IMO Res. A.951(23), IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7, IMO Res. MSC.98 (73)-(FSS Code) 4, IMO MSC/Circ.1239, IMO MSC/Circ.1275.	EN 3-7 (2004) including A.1 (2007), EN 3-8 (2006) including AC (2007), EN 3-9 (2006) including AC (2007), EN 3-10 (2009).	B + D B + E B + F

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.3	Fire-fighter's outfit: protective clothing (close proximity clothing)	Reg. II-2/10, Reg. X/3, IMO Res. MSC.98(73)-(FSS Code) 3.	Reg. II-2/10, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7, IMO Res. MSC.98 (73)-(FSS Code) 3.	Protective clothing for fire-fighting: EN 469 (2005) including A1 (2006) and AC (2006). Protective clothing for fire-fighting Reflective clothing for specialised fire-fighting: EN 1486 (2007). Protective clothing for fire-fighting Protective clothing with a reflective outer surface: ISO 15538 (2001).	B + D B + E B + F
A.1/3.4	Fire-fighter's outfit: boots	Reg. II-2/10, Reg. X/3, IMO Res. MSC.98(73)-(FSS Code) 3.	Reg. II-2/10, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7, IMO Res. MSC.98 (73)-(FSS Code) 3.	EN 15090 (2006),	B + D B + E B + F
A.1/3.5	Fire-fighter's outfit: gloves	Reg. II-2/10, Reg. X/3, IMO Res. MSC.98(73)-(FSS Code) 3.	Reg. II-2/10, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7, IMO Res. MSC.98 (73)-(FSS Code) 3.	EN 659 (2003) including A1 (2008) and AC (2009).	B + D B + E B + F
A.1/3.6	Fire-fighter's outfit: helmet	Reg. II-2/10, Reg. X/3, IMO Res. MSC.98(73)-(FSS Code) 3.	Reg. II-2/10, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7, IMO Res. MSC.98 (73)-(FSS Code) 3.	EN 443 (2008).	B + D B + E B + F

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.7	Self-contained compressed-air-operated breathing apparatus Note: For use in accidents involving dangerous goods a positive pressure type mask is required.	Reg. II-2/10, Reg. X/3, IMO Res. MSC.98(73)-(FSS Code) 3.	Reg. II-2/10, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7, IMO Res. MSC.98 (73)-(FSS Code) 3. And where the apparatus is for use in accidents with cargo: IMO Res. MSC.4 (48)-(IBC Code) 14, IMO Res. MSC.5 (48)-(IGC Code) 14.	EN 136 (1998) including AC (2003), EN 137 (2006). And where the apparatus is for use in accidents with cargo: ISO 23269-3(2011).	B + D B + E B + F
A.1/3.8	Compressed air line breathing apparatus	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.	IMO Res. MSC.36 (63)-(1994 HSC Code) 7.	EN 14593-1 (2005), EN 14593-2 (2005) including AC (2005), EN 14594 (2005) including AC (2005).	B + D B + E B + F

B 3218

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.9	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)	Reg. II-2/7, Reg. II-2/10, Reg. X/3, IMO Res. MSC.98(73)-(FSS Code) 8.	Reg. II-2/7, Reg. II-2/9, 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 Res.A. 800(19).	B + D B + E B + F
A.1/3.10	Nozzles for fixed pressure water spraying fire extinguishing systems for machinery spaces and cargo pump-rooms	Reg. II-2/10, Reg. X/3, IMO Res. MSC.98 (73)-(FSS Code) 7.	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/ Circ.1165, Appendix A.	B + D B + E B + F
A.1/3.11	"A" and "B" class divisions fire integrity (a)"A" class divisions,(b)"B" class divisions.	"A" class: Reg. II-2/3.2."B" class: Reg. II-2/3.4.	Reg.II-2/9, and, "A" class: Reg. II-2/3.2, IMO MSC/Circ. 1005 (for light weight constructions). "B" class: Reg. II-2/3.4.	IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.12	Devices to prevent the passage of flame into the cargo tanks in tankers	Reg. II-2/4, Reg. II-2/16.	Reg.II-2/4, Reg.II-2/16.	EN 12874 (2001), ISO 15364 (2007), IMO MSC /Circ.677.	For equipment other than valves: B + DB + EB + F For valves: B + F



No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.13	Non-combustible materials	Reg. II-2/3, Reg. X/3.	Reg. II-2/3, Reg. II-2/5, Reg. II-2/9, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7.	IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.14	Materials other than steel for pipes penetrating "A" or "B" class division	Item included in A.1/3.26 and A.1/3.27			
A.1/3.15	Materials other than steel for pipes conveying oil or fuel oil (a) pipes and fittings, (b) valves, (c) flexible pipe assemblies, (d) metallic pipe components with resilient and elastomeric seals.	Reg. II-2/4, Reg. X/3.	Reg. II-2/4, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, 10, IMO Res. MSC.97 (73)-(2000 HSC Code) 7, 10, IMO MSC/Circ.1120.	Pipes and fittings: IMO Res. A.753 (18). Valves: ISO 10497 (2010). Flexible pipe assemblies: EN ISO 15540 (2001) EN ISO 15541 (2001). Metallic pipe components with resilient and elastomeric seals: ISO 19921 (2005), ISO 19922 (2005).	B + D B + E B + F
A.1/3.16	Fire doors	Reg. II-2/9.	Reg. II-2/9.	IMO Res. MSC.307(88)-(2010 FTP Code). IMO MSC.1 /Circ.1319.	B + D B + E B + F
A.1/3.17	Fire door control systems components.	Reg. II-2/9, Reg. X/3.	Reg. II-2/9, IMO Res. MSC.97(73)-(2000 HSC Code) 7.	IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F

B 3220

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.18	Surface materials and floor coverings with low flame-spread characteristics (a)decorative veneers,(b)paint systems,(c)floor coverings,(d)pipe insulation covers,(e)adhesives used in the construction of "A", "B" and "C" class divisions,(f)combustible ducts.	Reg. II-2/3, Reg. II-2/5, Reg. II-2/6, Reg. II-2/9, Reg. X/3.	Reg. II-2/3, Reg. II-2/5, Reg. II-2/6, 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.	IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.19	Draperies, curtains and other suspended textile materials and films	Reg. II-2/3, Reg. II-2/9, Reg. X/3.	Reg. II-2/3, Reg. II-2/9, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7.	IMO Res. MSC.307(88)-(2010 FTP Code), IMO MSC /Circ.1102.	B + D B + E B + F
A.1/3.20	Upholstered furniture	Reg. II-2/3, Reg. II-2/5, Reg. II-2/9, Reg.X/3.	Reg. II-2/3, Reg. II-2/5, Reg. II-2/9, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7.	IMO Res. MSC.307(88)-(2010 FTP Code),IMO MSC/ Circ.1102.	B + D B + E B + F
A.1/3.21	Bedding components	Reg. II-2/3, Reg. II-2/9, Reg. X/3.	Reg. II-2/3, Reg. II-2/9, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7.	IMO Res. MSC.307(88)-(2010 FTP Code),IMO MSC/ Circ.1102.	B + D B + E B + F
A.1/3.22	Fire dampers	Reg. II-2/9.	Reg. II-2/9.	IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.23	Non-combustible duct penetrations through "A" class divisions	Moved to A.1/3.26			
A.1/3.24	Electric cable transits through "A" class divisions	Moved to A.1/3.26(a)			
A.1/3.25	"A" and "B" class fire-proof windows and side scuttles	Reg. II-2/9.	Reg. II-2/9, IMO MSC/Circ.1120.	IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.26	Penetrations through "A" class divisions (a)electric cable transits,(b)pipe, duct, trunk, etc. penetrations.	Reg. II-2/9.	Reg. II-2/9,IMO MSC.1/Circ.1276.	IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.27	Penetrations through "B" class divisions (a)electric cable transits, (b)pipe, duct, trunk, etc. penetrations.	Reg. II-2/9.	Reg. II-2/9.	IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E E B + F
A.1/3.28	Sprinkler systems (limited to sprinkler heads). (Nozzles for fixed sprinkler systems, for high-speed craft (HSC) are included under this item)	Reg. II-2/7, Reg. II-2/10, Reg. X/3.	Reg. II-2/7, 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.	ISO 6182-1 (2004). or EN 12259-1 (1999) including A1 (2001), A2 (2004) and A3 (2006).	B + D B + E B + F
A.1/3.29	Fire hoses	Reg. II-2/10, Reg. X/3.	Reg. II-2/10, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7.	EN 14540 (2004) including A.1 (2007).	B + D B + E B + F

B 3222

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.30	Portable oxygen analysis and gas detection equipment	Reg. II-2/4, Reg. VI/3.	Reg. II-2/4, Reg. VI/3, IMO Res. MSC.98 (73)-(FSS Code) 15.	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008) or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), IEC 60533 (1999),and as applicable to: (a)Category 1: (safe area):EN 50104 (2010), EN 60079-29-1 (2007). (b)Category 2: (explosive gas atmospheres): EN 50104 (2010), EN 60079-29-1 (2007), EN 60079-0 (2009), EN 60079-1 (2007) including IEC 60079-1 Corrigendum 1 (2008), EN 60079-10-1 (2009), EN 60079-11 (2007), EN 60079-15 (2010), EN 60079-26 (2007).	B + D B + E B + F

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.31	Nozzles for fixed sprinkler systems, for high-speed craft (HSC)	Item deleted as it is covered by A.1/3.9 and A.1/3.28			
A.1/3.32	Fire restricting materials (except furniture) for high-speed craft	Reg. X/3.	IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7.	IMO Res. MSC.307 (88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.33	Fire restricting materials for furniture for high-speed craft	Reg. X/3.	IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7, IMO MSC/Circ.1102.	IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.34	Fire resisting divisions for high-speed craft	Reg. X/3.	IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7.	IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.35	Fire doors on high-speed craft	Reg. X/3.	IMO Res. MSC.36(63)-(1994 HSC Code) 7,IMO Res. MSC.97(73)-(2000 HSC Code) 7.	IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.36	Fire dampers on high-speed craft	Reg. X/3.	IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7, IMO MSC/Circ.1102.	IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.37	Penetrations through fire resisting divisions on high-speed craft (a)electric cable transits, (b)pipe, duct, trunk etc. penetrations.	Reg. X/3.	IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7.	IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F

B 3224

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.38	Portable fire-extinguishing equipment for lifeboats and rescue boats	Reg. III/4, Reg. X/3, IMO Res. MSC.98(73) -(FSS Code) 4.	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, IV, V, IMO Res. MSC.97 (73)-(2000 HSC Code), IMO Res. MSC.98 (73)-(FSS Code) 4, IMO MSC.1 /Circ.1313.	EN 3-7 (2004) including A1 (2007), EN 3-8 (2006) including AC (2007), EN 3-9 (2006) including AC (2007), EN 3-10 (2009).	B + D B + E B + F
A.1/3.39	Nozzles for equivalent water-mist fire extinguishing systems for machinery spaces and cargo pump rooms	Reg. II-2/10, Reg. X/3.	Reg. II-2/10, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7, IMO Res. MSC.98 (73)-(FSS Code) 7, IMO MSC.1 /Circ.1313.	IMO MSC/ Circ.1165.	B + D B + E B + F
A.1/3.40	Low-location lighting systems (components only)	Reg. II-2/13, IMO Res. MSC.98(73) -(FSS Code) 11.	Reg. II-2/13, IMO Res. A.752(18), IMO Res. MSC.98 (73)-(FSS Code) 11.	IMO Res. A.752(18).or ISO 15370 (2010).	B + D B + E B + F

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.41	Emergency escape breathing devices (EEBD)	Reg. II-2/13.	Reg. II-2/13, IMO Res. MSC.98 (73)-(FSS Code) 3, IMO MSC/Circ.849.	ISO 23269-1 (2008), and alternatively: For self-contained open-circuit compressed air breathing apparatus with full mask or mouthed piece assembly for escape: EN 402(2003). For self-contained open-circuit compressed air breathing apparatus with a hood for escape: EN 1146(2005). For self-contained: closed-circuit compressed air breathing apparatus: EN 13794(2002).	B + D B + E B + F
A.1/3.42	Inert gas systems components	Reg. II-2/4.	Reg. II-2/4, IMO Res. A.567(14), IMO Res. MSC.98 (73)-(FSS Code) 15, IMO MSC/Circ.353, IMO MSC/Circ.387, IMO MSC/Circ.485, IMO MSC/Circ.450 Rev.1, IMO MSC/Circ.731, IMO MSC/Circ.1120.	IMO MSC/Circ.353.	B + D B + E B + F G
A.1/3.43	Nozzles for deep fat cooking equipment fire extinguishing systems (automatic or manual type).	Reg. II-2/1, Reg. II-2/10, Reg. X/3.	Reg. II-2/1, Reg. II-2/10, IMO Res. MSC.97 (73)-(2000 HSC Code) 7.	ISO 15371 (2009).	B + D B + E B + F

B 3226

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.44	Fire-fighters outfit lifeline	Reg. II-2/10, Reg. X/3, IMO Res. MSC.98(73) -(FSS Code) 3.	Reg. II-2/10, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7, IMO Res. MSC.98 (73)-(FSS Code) 3.	IMO Res. MSC.98(73)-(FSS Code) 3, IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.45	Equivalent fixed gas fire extinguishing systems components (extinguishing medium, head valves and nozzles) for machinery spaces and cargo pump rooms	Reg. II-2/10, Reg. X/3, IMO Res. MSC.98(73) -(FSS Code) 5.	Reg. II-2/10, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7, IMO Res. MSC.98 (73)-(FSS Code) 5, IMO MSC/Circ.848, IMO MSC.1 /Circ.1313, IMO MSC.1 /Circ.1316, IMO MSC.1 /Circ.1317.	IMO MSC/ Circ.848,IMO MSC.1/ Circ.1317.	B + D B + E B + F
A.1/3.46	Equivalent fixed gas fire extinguishing systems for machinery spaces (aerosol systems)	Reg. II-2/10, Reg. X/3, IMO Res. MSC.98(73) -(FSS Code) 5.	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.1 /Circ.1270, IMO MSC.1 /Circ.1313.	IMO MSC.1/ Circ.1270 including Corrigendum 1.	B + D B + E B + F



No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.47	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.	Reg. II-2/10.	Reg. II-2/10, IMO Res. MSC.98 (73)-(FSS Code) 6.	IMO MSC/Circ.670.	B + D B + E B + F
A.1/3.48	Fixed water-based local application fire-fighting systems components for use in category "A" machinery spaces (nozzles and performance tests).	Reg. II-2/10, Reg. X/3.	Reg. II-2/10, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7.	IMO MSC.1/Circ.1387.	B + D B + E B + F

## B 3228

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.49	Nozzles for fixed water-based fire-fighting systems for ro-ro spaces and special category spaces equivalent to that referred to in resolution A.123(V)	Reg. II-2/19, Reg. II-2/20, Reg. X/3.	Reg. II-2/19, Reg. II-2/20, IMO Res. A.123(V), IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7.	IMO MSC.1/Circ.1272.	B + D B + E B + F
A.1/3.50	Protective clothing resistant to chemical attack	Moved to A.2/3.9			

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.51	Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces	Reg. II-2/7, Reg. X/3, IMO Res. MSC.98(73)-(FSS Code) 9.	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.1313.	Control and indicating equipment. Electrical installations in ships: EN 54-2 (1997) including AC(1999) and A1(2006). Power supply equipment: EN 54-4 (1997) including AC(1999), A1(2002) and A2(2006). Heat detectors Point detectors: EN 54-5 (2000) including A1(2002). Smoke detectors Point detectors using scattered light, transmitted light or ionisation: EN 54-7 (2000) including A1(2002) and A2(2006). Flame detectors Point detectors: EN 54-10 (2002) including A1(2005). Manual call points: EN 54-11 (2001) including A1(2005). Short circuit isolators: EN 54-17 (2007) including AC(2007). Input/output devices: EN 54-18 (2005) including AC(2007). Cables: EN 60332-1-1 (2004). And, as	B + D B + E B + F

B 3230

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.52	Non-portable and transportable fire extinguishers	Reg. II-2/10, Reg. X/3.	Reg. II-2/4, Reg. II-2/10, Reg. X/3, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7.	EN 1866-1 (2007).or ISO 11601 (2008).	B + D B + E B + F
A.1/3.53	Fire alarm devices Sounders	Reg. II-2/7, Reg. X/3, IMO Res. MSC.98(73)-(FSS Code) 9.	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.1313.	Sounders: EN 54-3 (2001) including A1(2002) and A2(2006), IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), IEC 60533 (1999).	B + D B + E B + F

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.54	Fixed oxygen analysis and gas detection equipment	Reg. II-2/4, Reg. VI/3.	Reg. II-2/4, Reg. VI/3, IMO Res. MSC.98 (73)-(FSS Code) 15.	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008) or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), IEC 60533 (1999), and as applicable to: (a)Category 4: (safe area):EN 50104 (2010). (b)Category 3: (explosive gas atmospheres):E N 50104 (2010), EN 60079-0 (2009), EN 60079-29-1 (2007).	B + D B + E B + F

B 3232

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.55	Dual-purpose type nozzles (spray/jet type)	Reg. II-2/10, Reg. X/3.	Reg. II-2/10, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7.	Hand-held branch pipes for fire service use Combination branch pipes PN 16: EN 15182-1 (2007) including A1(2009), EN 15182-2 (2007) including A1(2009). Hand-held branch pipes for fire service use Smooth bore jet and/or one fixed spray jet angle branch pipes PN 16: EN 15182-1 (2007) including A1(2009), EN 15182-3 (2007) including A1(2009).	B + D B + E B + F
A.1/3.56	Fire hoses (reel type)	Reg. II-2/10, Reg. X/3.	Reg. II-2/10, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7.	EN 671-1 (2001) including AC (2002).	B + D B + E B + F
A.1/3.57	Medium expansion foam fire extinguishing systems components Fixed deck foam for tankers	Reg. II-2/10.	Reg. II-2/10.8.1, IMO Res. MSC.98(73)-(FSS Code) 14, IMO MSC.1/Circ.1239, IMO MSC.1/Circ.1276.	IMO MSC /Circ.798.	B + D B + E B + F

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.58	Fixed low expansion foam fire extinguishing systems components for machinery spaces and tanker deck protection.	Reg. II-2/10.	Reg. II-2/10, IMO Res. MSC.98 (73)-(FSS Code) 6, 14, IMO MSC.1 /Circ.1239, IMO MSC.1 /Circ.1276, IMO MSC.1 /Circ.1313.	IMO MSC.1/ Circ.1312.	B + D B + E B + F
A.1/3.59	Expansion foam for fixed fire extinguishing systems for chemical tankers	Reg. II-2/1, IMO Res. MSC.4 (48)-(IBC Code).	IMO Res. MSC.4 (48)-(IBC Code), IMO MSC/Circ.553.	IMO MSC.1 /Circ.1312.	B + D B + E B + F
A.1/3.60	Nozzles for fixed pressure water-spraying fire-extinguishing systems for cabin balconies	Reg. II-2/10.	Reg. II-2/10, IMO Res. MSC.98 (73)-(FSS Code) 7, IMO MSC.1 /Circ.1313.	IMO MSC.1/ Circ.1268.	B + D B + E B + F
A.1/3.61	Inside air high expansion foam systems for the protection of machinery spaces and cargo pump rooms Note: Inside air high expansion foam systems for the protection of machinery spaces and cargo pump rooms shall be tested with the approved concentrate to the satisfaction of the administration.	Reg. II-2/10.	Reg. II-2/10.	IMO MSC.1/ Circ.1271.	B + D B + E B + F

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.62 Refer to note (c) of this Annex A.1	Dry chemical powder extinguishing systems	Reg. II-2/1.	Reg. II-2/1, International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk: Chapter 11.	IMO MSC.1/Circ.1315.	B + D B + E B + F



No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.63 Ex. A.2/3.15	Sample extraction smoke detection systems components	Reg. II-2/7, Reg. II-2/19, Reg. II-2/20.	Reg. II-2/7, Reg. II-2/19, Reg. II-2/20, IMO Res. MSC.98 (73)-(FSS Code) 10.	IMO Res. MSC.98 (73)-(FSS Code) 10, and for: Control and indicating equipment. Electrical installations in ships: EN 54-2 (1997) including AC(1999) and A1(2006).Power supply equipment: EN 54-4 (1997) including AC(1999), A1(2002) and A2(2006). Aspiring smoke detectors: EN 54-20 (2006) including AC(2008). And, as applicable, electrical and electronic installations in ships: IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), IEC 60533 (1999). And, as applicable for explosive atmospheres: EN 60079-0 (2009).	B + D B + E B + F
A.1/3.64 Ex. A.2/3.25	"C" class divisions	Reg. II-2/3.	Reg. II-2/3.	IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/3.65 (New item)	Fixed hydrocarbon gas detection system	Reg. II-2/4.	Reg. II-2/4, IMO Res. MSC.98(73)- (FSS Code) 16, IMO MSC.1/Circ.1370.	IMO MSC.1 /Circ.1370, EN 60079-29-1 (2007) IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), IEC 60533 (1999), EN/IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F
A.1/3.66 (New item)	Evacuation guidance systems used as an alternative to low-location lighting systems	Reg. II-2/13.	Reg. II-2/13, IMO MSC.1 /Circ.1168.	IMO MSC.1/ Circ.1168.	B + D B + E B + F

#### 4. Navigation equipment

*Notes applicable to Section 4: Navigation equipment.*

Column 5: IEC 61162 series refer to the following reference standards for Maritime navigation and radiocommunication equipment and systems Digital interfaces:

- (a) IEC 61162-1 ed4.0 (2010-11) Part 1: Single talker and multiple listeners
- (b) IEC 61162-2 ed1.0 (1998-09) Part 2: Single talker and multiple listeners, high-speed transmission
- (c) IEC 61162-3 ed1.1 Consol. with am1 (2010-11) Part 3: Serial data instrument network
  - IEC 61162-3 ed1.0 (2008-05) Part 3: Serial data instrument network
  - IEC 61162-3-am1 ed1.0 (2010-06) Amendment 1 Part 3: Serial data instrument network
- (d) IEC 61162-400 ed1.0 (2001-11) Part 400: Multiple talkers and multiple listeners

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- IEC 61162-401 ed1.0 (2001-11) Part 401: Multiple talkers and multiple listeners Ship systems interconnection Application profile
- IEC 61162-402 ed1.0 (2005-09) Part 402: Multiple talkers and multiple listeners Ship systems interconnection Documentation and test requirements
- IEC 61162-410 ed1.0 (2001-11) Part 410: Multiple talkers and multiple listeners Ship systems interconnection Transport profile requirements and basic transport profile
- IEC 61162-420 ed1.0 (2001-11) Part 420: Multiple talkers and multiple listeners Ship systems interconnection Companion standard requirements and basic companion standards
- IEC 61162-450 ed1.0 (2011-06) Part 450: Multiple talkers and multiple listeners Ethernet interconnection
- EN 61162 series refer to the following reference standards for Maritime navigation and radiocommunication equipment and systems Digital interfaces:
  - (a) EN 61162-1 (2011) Part 1: Single talker and multiple listeners
  - (b) EN 61162-2 (1998) Part 2: Single talker and multiple listeners, high-speed transmission
  - (c) EN 61162-3 (2008) Part 3: Serial data instrument network
    - EN 61162-3-am1 (2010) Amendment 1 Part 3: Serial data instrument network
  - (d) EN 61162-400 (2002) Part 400: Multiple talkers and multiple listeners Ship systems interconnection Introduction and general principles
    - EN 61162-401 (2002) Part 401: Multiple talkers and multiple listeners Ship systems interconnection Application profile
    - EN 61162-402 (2005) Part 402: Multiple talkers and multiple listeners Ship systems interconnection Documentation and test requirements
    - EN 61162-410 (2002) Part 410: Multiple talkers and multiple listeners Ship systems interconnection Transport profile requirements and basic transport profile
    - EN 61162-420 (2002) Part 420: Multiple talkers and multiple listeners Ship systems interconnection Companion standard requirements and basic companion standards
    - EN 61162-450 (2011) Part 450: Multiple talkers and multiple listeners Ethernet interconnection

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.1	Magnetic compass (a)Class A for ships, (b)Class B for lifeboats and rescue boats.	Reg. V/18.	Reg. V/19, IMO Res. A.382(X), IMO Res. A.694(17).	ISO 1069 (1973), ISO 25862 (2009), EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008).or ISO 1069 (1973), ISO 25862 (2009), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F G
A.1/4.2	Transmitting heading device THD (magnetic method)	Reg. V/18, Reg. V/19, Reg. X/3, IMO Res. MSC.36(63) -(1994 HSC Code) 13, IMO Res. MSC.97(73) -(2000 HSC Code) 13.	Reg. V/19, IMO Res. A.694(17), IMO Res. MSC.36 (63)-(1994 HSC Code) 13, IMO Res. MSC.97 (73)-(2000 HSC Code) 13, IMO Res. MSC.116 (73), IMO Res. MSC.191(79).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series; ISO 22090-2 (2004), including Corrigendum 2005, EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series.ISO 22090-2 (2004), including Corrigendum 2005,IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.3	Gyro compass	Reg. V/18.	Reg. V/19, IMO Res. A.424(XI), IMO Res. A.694(17), IMO Res. MSC.191 (79).	EN ISO 8728 (1998), EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008). or ISO 8728 (1997), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.4	Radar equipment	Moved to A.1/4.34, A.1/4.35 and A.1/4.36			
A.1/4.5	Automatic radar plotting aid (ARPA)	Moved to A.1/4.34			

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.6	Echo-sounding equipment	Reg. V/18, Reg. X/3, IMO Res. MSC.36 (63)-(1994 HSC Code) 13, IMO Res. MSC.97(73) -(2000 HSC Code) 13.	Reg. V/19, IMO Res. A.224(VII), IMO Res. A.694(17), IMO Res. MSC.36 (63)-(1994 HSC Code) 13, IMO Res. MSC.74(69) Annex 4, IMO Res. MSC.97 (73)-(2000 HSC Code) 13, IMO Res. MSC.191 (79).	EN ISO 9875 (2001) including ISO Technical Corrigendum 1: 2006, EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008). or ISO 9875 (2000) including ISO Technical Corrigendum 1: 2006, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.7	Speed and distance measuring equipment (SDME)	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. V/19, IMO Res. A.694(17), IMO Res. A.824(19), IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.96(72), IMO Res. MSC.97(73)-(2000 HSC Code) 13, IMO Res. MSC.191(79).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61023 (2007), EN 61162 series, EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61023 (2007), IEC 61162 series, IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.8	Rudder angle, rpm, pitch indicator	Moved to A.1/4.20, A.1/4.21 and A.1/4.22			

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.9	Rate-of-turn indicator	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. V/19, IMO Res. A.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).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ISO 20672 (2007), EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, ISO 20672 (2007), IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.10	Direction finder	Deliberately left blank			
A.1/4.11	Loran-C equipment	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. V/19, IMO Res. A.694(17), IMO Res. A.818(19), IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13, IMO Res. MSC.191(79).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61075 (1993), EN 61162 series, EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61075 (1991), IEC 61162 series, IEC 62288 Ed.1.0(2008).	B + D B + E B + F G



No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.12	Chayka equipment	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. V/19, IMO Res. A.694 (17), IMO Res. A.818 (19), IMO Res. MSC.36 (63)-(1994 HSC Code) 13, IMO Res. MSC.97 (73)-(2000 HSC Code) 13, IMO Res. MSC.191 (79).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61075 (1993), EN 61162 series, EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61075 (1991), IEC 61162 series, IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.13	Decca navigator equipment	Deliberately left blank			
A.1/4.14	GPS equipment	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. V/19, IMO Res. A.694(17), IMO Res. MSC.36 (63)-(1994 HSC Code), IMO Res. MSC.97 (73)-(2000 HSC Code), IMO Res. MSC.112 (73), IMO Res. MSC.191 (79).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61108-1 (2003), EN 61162 series, EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61108-1 (2003), IEC 61162 series, IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.15	GLONASS equipment	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. V/19, IMO Res. A.694(17), IMO Res. 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).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61108-2 (1998), EN 61162 series, EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61108-2 (1998), IEC 61162 series, IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.16	Heading control system (HCS)	Reg. V/18.	Reg. V/19, IMO Res. A.342(IX), IMO Res. A.694(17), IMO Res. MSC.64(67) Annex 3, IMO Res. MSC.191(79).	ISO 11674 (2006), EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008). or ISO 11674 (2006), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.17	Mechanical pilot hoist	Moved to A.1/1.40			

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.18	9 GHz SAR transponder (SART)	Reg. III/4, Reg. IV/14, Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. III/6, Reg. IV/7, IMO Res. A.530(13), IMO Res. A.802(19), IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC Code) 8, 14, IMO Res. MSC.97(73)-(2000 HSC Code) 8, 14, ITU-R M.628-3 (11/93).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61097-1 (2007). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-1 (2007).	B + D B + E B + F G
A.1/4.19	Radar equipment for high-speed craft	Moved to A.1/4.37			
A.1/4.20	Rudder angle indicator	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. V/19, IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13, IMO Res. MSC.191(79).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ISO 20673 (2007), EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, ISO 20673 (2007), IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.21	Propeller revolution indicator	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. V/19, IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13, IMO Res. MSC.191(79).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ISO 22554 (2007), EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, ISO 22554 (2007), IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.22	Pitch indicator	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. V/19, IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13, IMO Res. MSC.191(79).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ISO 22555 (2007), EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, ISO 22555 (2007), IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.23	Compass for lifeboats and rescue boats	Reg. III/4, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. III/34, IMO Res. MSC.48 (66)-(LSA Code) IV, V, IMO Res. MSC.36 (63)-(1994 HSC Code) 8, 13, IMO Res. MSC.97 (73)-(2000 HSC Code) 8, 13.	ISO 25862 (2009).	B + D B + E B + F G
A.1/4.24	Automatic radar plotting aid (ARPA) for high-speed craft	Moved to A.1/4.37			
A.1/4.25	Automatic tracking aid (ATA)	Moved to A.1/4.35			
A.1/4.26	Automatic tracking aid (ATA) for high-speed craft	Moved to A.1/4.38			
A.1/4.27	Electronic plotting aid (EPA)	Moved to A.1/4.36			
A.1/4.28	Integrated bridge system	Moved to A.2/4.30			

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.29	Voyage data recorder (VDR)	Reg. V/18, Reg. V/20, Reg. X/3, IMO Res. MSC.36 (63)-(1994 HSC Code) 13, IMO Res. MSC.97 (73)-(2000 HSC Code) 13.	Reg. V/20, IMO Res. A.694 (17), IMO Res. A.861 (20), IMO Res. MSC.36 (63)-(1994 HSC Code) 13, IMO Res. MSC.97 (73)-(2000 HSC Code) 13, IMO Res. MSC.191 (79)	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 61996-1 (2008), EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 61996-1 (2007-11), IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.30	Electronic chart display and information system (ECDIS) with backup, and raster chart display system (RCDS)	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. V/19, IMO Res. A.694(17), IMO Res. MSC.36 (63)-(1994 HSC Code) 13, IMO Res. MSC.97 (73)-(2000 HSC Code) 13, IMO Res. MSC.191 (79), IMO Res. MSC.232 (82), IMO SN.1/Circ.266. [ECDIS back-up and RCDS are only applicable when this functionality is included in the ECDIS. The module B certificate shall indicate whether these options were tested.]	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 61174 (2008), EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 61174 (2008), IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.31	Gyro compass for high-speed craft	Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	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).	ISO 16328 (2001), EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008). or ISO 16328 (2001), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.32	Universal automatic identification system equipment (AIS)	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. V/19, IMO Res. A.694 (17), IMO Res. MSC.36 (63)-(1994 HSC Code) 13, IMO Res. MSC.74 (69), IMO Res. MSC.97 (73)-(2000 HSC Code) 13, IMO Res. MSC.191 (79), ITU-R M.1371-4(2010). Note: ITU-R M. 1371-4(2010) shall only be applicable in accordance with requirements of IMO Res.MSC.74(69).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 61993-2 (2001), EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 61993-2 (2001), IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.33	Track control system (working at ship's speed from minimum manoeuvring speed up to 30 knots)	Reg. V/18.	Reg. V/19, IMO Res. A.694(17), IMO Res. MSC.74 (69), IMO Res. MSC.191 (79).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62065 (2002), EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62065 (2002), IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.34	Radar equipment CAT 1	Reg. V/18.	Reg. V/19. IMO Res. A.278(VIII), IMO Res. A.694(17), IMO Res. A.823(19), IMO Res. MSC.191 (79), IMO Res. MSC.192 (79), ITU-R M.1177-3(06/03).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008), EN 62388 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008). IEC 62388 Ed.1.0(2007).	B + D B + E B + F G



No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.35	Radar equipment CAT 2	Reg. V/18.	Reg. V/19, IMO Res. A.278(VIII), IMO Res. A.694(17), IMO Res. MSC.191 (79), IMO Res. MSC.192 (79), ITU-R M.1177-3(06/ 03).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008), EN 62388 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008). IEC 62388 Ed.1.0(2007).	B + D B + E B + F G
A.1/4.36	Radar equipment CAT 3	Reg. V/18.	Reg. V/19, IMO Res. A.278(VIII), IMO Res. A.694(17), IMO Res. MSC.191 (79), IMO Res. MSC.192 (79), ITU-R M.1177-3(06/ 03).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008), EN 62388 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008). IEC 62388 Ed.1.0(2007).	B + D B + E B + F G

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.37	Radar equipment for high-speed craft applications (CAT 1H and CAT 2H)	Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	IMO Res. A.278(VIII), IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13, IMO Res. MSC.191(79), IMO Res. MSC.192(79), ITU-R M.1177-3(06/03).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008), EN 62388 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008), IEC 62388 Ed.1.0(2007).	B + D B + E B + F G
A.1/4.38	Radar equipment approved with a chart option, namely: (a)CAT 1C, (b)CAT 2C, (c)CAT 1HC for HSC, (d)CAT 2HC for HSC.	Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	IMO Res. A.278(VIII), IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13, IMO Res. MSC.191(79), IMO Res. MSC.192(79), ITU-R M.1177-3(06/03).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008), EN 62388 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008), IEC 62388 Ed.1.0(2007).	B + D B + E B + F G

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.39	Radar reflector passive type	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. V/19, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13, IMO Res. MSC.164(78).	ISO 8729-1 (2010), EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). or ISO 8729-1 (2010), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F G
A.1/4.40	Heading control system for high-speed craft	Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	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).	ISO 16329 (2003), EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008). or ISO 16329 (2003), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.41	Transmitting heading device THD (GNSS method)	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. V/19, IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13, IMO Res. MSC.116(73), IMO Res. MSC.191(79).	ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008). or ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.42	Searchlight for high-speed craft	Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	ISO 17884 (2004), EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). or ISO 17884 (2004), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F G

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.43	Night vision equipment for high-speed craft	Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	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.	ISO 16273 (2003), EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). or ISO 16273 (2003), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F G
A.1/4.44	Differential beacon receiver for DGPS and DGLONASS equipment	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. V/19, IMO Res. A.694 (17), IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13, IMO Res. MSC.114(73).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61108-4 (2004), EN 61162 series. or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61108-4 (2004), IEC 61162 series.	B + D B + E B + F G
A.1/4.45	Chart facilities for shipborne radar	Item deleted, as it is covered by A.1/4.38			

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.46	Transmitting heading device THD (gyroscopic method)	Reg. V/18. Reg. X/3, IMO Res. MSC.36 (63)-(1994 HSC Code) 13, IMO Res. MSC.97(73) (2000 HSC Code) 13.	Reg. V/19, IMO Res. A.694 (17), IMO Res. MSC.36 (63)-(1994 HSC Code) 13, IMO Res. MSC.97 (73)-(2000 HSC Code) 13, IMO Res. MSC.116 (73), IMO Res. MSC.191 (79).	ISO 22090-1 (2002) including Corr.1 (2005), EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008). or ISO 22090-1 (2002) including Corr.1 (2005), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1./4.47	Simplified voyage data recorder (S-VDR)	Reg. V/20.	Reg. V/20, IMO Res. A.694(17), IMO Res. MSC.163 (78), IMO Res. MSC.191 (79).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 61996-2 (2008), EN 62288 (2008).or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 61996-2 (2007), IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.48	Mechanical pilot hoist	Deliberately left blank (as IMO Res. MSC.308(88) ), in force on 1 July 2012, quotes: "Mechanical pilot hoists shall not be used")			
A.1/4.49	Pilot ladder	Reg. V/23, Reg. X/3.	Reg. V/23, IMO Res. A.889(21), IMO MSC/Circ.773.	IMO Res. A.889(21), IS O 799 (2004).	B + D B + E B + F G

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.50	DGPS equipment	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. V/19, IMO Res. A.694 (17), IMO Res. 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).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61108-1 (2003), EN 61108-4 (2004), EN 61162 series, EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61108-1 (2003), IEC 61108-4 (2004), IEC 61162 series, IEC 62288 Ed.1.0(2008).	B + D B + E B + F G



No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.51	DGLONASS equipment	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. V/19, IMO Res. A.694 (17), IMO Res. 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).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61108-2 (1998), EN 61108-4 (2004), EN 61162 series, EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61108-2 (1998), IEC 61108-4 (2004), IEC 61162 series, IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.52 Refer to note (b) of this Annex A.1	Daylight signalling lamp	Reg. V/18, Reg. X/3, IMO Res. MSC.36 (63)-(1994 HSC Code), IMO Res. MSC.97(73)-(2000 HSC Code).	Reg. V/19, IMO Res. A.694(17), IMO Res. MSC.36 (63)-(1994 HSC Code), IMO Res. MSC.95 (72), IMO Res. MSC.97 (73)-(2000 HSC Code).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), ISO 25861 (2007).or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), ISO 25861 (2007).	B + D B + E B + F

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/4.53 Refer to note (c) of this Annex A.1	Radar target enhancer	Reg. V/18, Reg. X/3, IMO Res. MSC.36 (63)-(1994 HSC Code) 13, IMO Res. MSC.97(73) (2000 HSC Code) 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.164 (78), ITU-R M.1176 (10/95)	ISO 8729-2 (2009), EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). or ISO 8729-2 (2009), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F G
A.1/4.54 Refer to note (c) of this Annex A.1	Bearing device	Reg. V/18.	Reg. V/19.	ISO 25862 (2009), EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). or ISO 25862 (2009), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F G
A.1/4.55 Refer to note (c) of this Annex A.1	AIS SART equipment	Reg. III/4, Reg. IV/14.	Reg. III/6, Reg. IV/7, IMO Res. MSC.246 (83), IMO Res. MSC.247 (83), IMO Res. MSC.256 (84), ITU-R M.1371-4(2010).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61097-14 (2010), EN 61162 series. or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-14 (2010), IEC 61162 series.	B + D B + E B + F G

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
<p>A.1/4.56 Refer to note (c) of this Annex A.1</p>	<p>Galileo receiver</p>	<p>Reg. V/18, Reg. X/3, IMO Res. MSC.36 (63)-(1994 HSC Code) 13, IMO Res. MSC.97 (73)-(2000 HSC Code) 13.</p>	<p>Reg. V/19, IMO Res. A.694(17), IMO Res. A.813(19), IMO Res. MSC.36 (63)-(1994 HSC Code) 13, IMO Res. MSC.97 (73)-(2000 HSC Code) 13, IMO Res. MSC.191 (79), IMO Res. MSC.233 (82).</p>	<p>EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61108-3 (2010), EN 61162 series, EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61108-3 (2010), IEC 61162 series, IEC 62288 Ed.1.0(2008).</p>	<p>B + D B + E B + F G</p>
<p>A.1/4.57 Refer to note (c) of this Annex A.1</p>	<p>Bridge navigational watch alarm system (BNWAS)</p>	<p>Reg. V/18.</p>	<p>IMO Res. A.694(17), IMO Res. MSC.128 (75), IMO Res. MSC.191 (79).</p>	<p>EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008), IEC 62616(2010). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008), IEC 62616(2010).</p>	<p>B + D B + E B + F G</p>

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## 5. Radiocommunication equipment

*Notes applicable to Section 5: Radiocommunication equipment.*

Column 5: 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 5: IEC 61162 series refer to the following reference standards for Maritime navigation and radiocommunication equipment and systems Digital interfaces:

- (a) IEC 61162-1 ed4.0 (2010-11) Part 1: Single talker and multiple listeners
- (b) IEC 61162-2 ed1.0 (1998-09) Part 2: Single talker and multiple listeners, high-speed transmission
- (c) IEC 61162-3 ed1.1 Consol. with am1 (2010-11) Part 3: Serial data instrument network
  - IEC 61162-3 ed1.0 (2008-05) Part 3: Serial data instrument network
  - IEC 61162-3-am1 ed1.0 (2010-06) Amendment 1 Part 3: Serial data instrument network
- (d) IEC 61162-400 ed1.0 (2001-11) Part 400: Multiple talkers and multiple listeners Ship systems interconnection Introduction and general principles
  - IEC 61162-401 ed1.0 (2001-11) Part 401: Multiple talkers and multiple listeners Ship systems interconnection Application profile
  - IEC 61162-402 ed1.0 (2005-09) Part 402: Multiple talkers and multiple listeners Ship systems interconnection Documentation and test requirements
  - IEC 61162-410 ed1.0 (2001-11) Part 410: Multiple talkers and multiple listeners Ship systems interconnection Transport profile requirements and basic transport profile
  - IEC 61162-420 ed1.0 (2001-11) Part 420: Multiple talkers and multiple listeners Ship systems interconnection Companion standard requirements and basic companion standards
  - IEC 61162-450 ed1.0 (2011-06) Part 450: Multiple talkers and multiple listeners Ethernet interconnection

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

- (a) EN 61162-1 (2011) Part 1: Single talker and multiple listeners
- (b) EN 61162-2 (1998) Part 2: Single talker and multiple listeners, high-speed transmission

- (c) EN 61162-3 (2008) Part 3: Serial data instrument network
  - EN 61162-3-am1 (2010) Amendment 1 Part 3: Serial data instrument network
- (d) EN 61162-400 (2002) Part 400: Multiple talkers and multiple listeners Ship systems interconnection Introduction and general principles
  - EN 61162-401 (2002) Part 401: Multiple talkers and multiple listeners Ship systems interconnection Application profile
  - EN 61162-402 (2005) Part 402: Multiple talkers and multiple listeners Ship systems interconnection Documentation and test requirements
  - EN 61162-410 (2002) Part 410: Multiple talkers and multiple listeners Ship systems interconnection Transport profile requirements and basic transport profile
  - EN 61162-420 (2002) Part 420: Multiple talkers and multiple listeners Ship systems interconnection Companion standard requirements and basic companion standards
  - EN 61162-450 (2011) Part 450: Multiple talkers and multiple listeners Ethernet interconnection

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/5.1	VHF radio capable of transmitting and receiving DSC and radiotelephony	Reg. IV/14, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14.	Reg. IV/7, Reg. X/3, IMO Res. A.385 (X), IMO Res. A.524 (13), IMO Res. A.694 (17), IMO Res. A.803 (19), IMO Res. MSC.36 (63)-(1994 HSC Code) 14, IMO Res. MSC.97 (73)-(2000 HSC Code) 14, IMO MSC/Circ.862, IMO Comsar Circ.32, ITU-R M.489-2 (10/95), ITU-R M.493-13 (10/09), ITU-R M.541-9 (05/04), ITU-R M.689-2 (09/94).	IMO MSC/Circ.862, EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ETSI EN 300 338-1 V1.3.1 (2010-02), ETSI EN 300 338-2 V1.3.1 (2010-02), ETSI EN 301 843-2 V1.2.1 (2004-06), ETSI EN 301 925 V1.3.1 (2010-09). or IMO MSC/Circ.862, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-3 (1994), IEC 61097-7 (1996), IEC 61162 series.	B + D B + E B + F

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/5.2	VHF DSC watchkeeping receiver	Reg. IV/14, Reg. X/3, IMO Res. MSC.36(63) -(1994 HSC Code) 14, IMO Res. MSC.97(73) -(2000 HSC Code) 14.	Reg. IV/7, Reg. X/3, IMO Res. A.694 (17), IMO Res. A.803 (19), IMO Res. MSC.36 (63)-(1994 HSC Code) 14, IMO Res. MSC.97 (73)-(2000 HSC Code) 14, IMO Comsar Circ.32, ITU-R M.489-2 (10/95), ITU-R M.493-13 (10/09), ITU-R M.541-9 (05/04).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ETSI EN 300 338-1 V1.3.1 (2010-02), ETSI EN 300 338-2 V1.3.1 (2010-02), ETSI EN 301 033 V1.3.1 (2010-09), ETSI EN 301 843-2 V1.2.1 (2004-06).or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-3 (1994), IEC 61097-8 (1998), IEC 61162 series.	B + D B + E B + F

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/5.3	Navtex receiver	Reg. IV/14, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14.	Reg. IV/7, Reg. X/3, IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14, IMO Res. MSC.148(77), IMO Comsar Circ.32, ITU-R M.540-2 (06/90), ITU-R M.625-3 (10/95).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), ETSI EN 300 065-1 V1.2.1 (2009-01), ETSI EN 301 843-4 V1.2.1 (2004-06). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-6 (2005-12).	B + D B + E B + F
A.1/5.4	EGC receiver	Reg. IV/14, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14.	Reg. IV/7, Reg. X/3, IMO Res. A.570 (14), IMO Res. A.664 (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 Comsar Circ.32.	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), ETSI ETS 300 460 Ed.1 (1996-05), ETSI ETS 300 460/A1 (1997-11), ETSI EN 300 829 V1.1.1 (1998-03), ETSI EN 301 843-1 V1.2.1 (2004-06). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-4 (2007).	B + D B + E B + F



No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/5.5	HF marine safety information (MSI) equipment (HF NBDP receiver)	Reg. IV/14, Reg. X/3, IMO Res. MSC.36 (63)-(1994 HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14	Reg. IV/7, Reg. X/3, IMO Res. A.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 Comsar Circ.32, ITU-R M.491-1 (07/86), ITU-R M.492-6 (10/95), ITU-R M.540-2 (06/90), ITU-R M.625-3 (10/95), ITU-R M.688 (06/90).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ETSI ETS 300 067 Ed.1 (1990-11), ETSI ETS 300 067/A1 Ed.1 (1993-10), or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, ETSI ETS 300 067 Ed.1 (1990-11), ETSI ETS 300 067/A1 Ed.1 (1993-10).	B + D B + E B + F

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/5.6	406 MHz EPIRB (Cospas-Sarsat)	Reg. IV/14, Reg. X/3, IMO Res. MSC.36(63) -(1994 HSC Code) 14, IMO Res. MSC.97(73) -(2000 HSC Code) 14.	Reg. IV/7, Reg. X/3, IMO Res. A.662 (16), IMO Res. A.694 (17), IMO Res. A.696 (17), IMO Res. A.810 (19), IMO Res. MSC.36 (63)-(1994 HSC Code) 14, IMO Res. MSC.97 (73)-(2000 HSC Code) 14, IMO MSC/Circ.862, IMO Comsar Circ.32, ITU-R M.633-3 (05/04), ITU-R M.690-1 (10/95).	IMO MSC/Circ.862, EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), ETSI EN 300 066 V 1.3.1 (2001-01).or IMO MSC/Circ.862, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-2 (2008).Note: IMO MSC/Circ. 862 is applicable only to the optional remote activation device, not to the EPIRB itself.	B + D B + E B + F
A.1/5.7	L-band EPIRB (Inmarsat)	Deliberately left blank			
A.1/5.8	2182 kHz watch receiver	Deliberately left blank			
A.1/5.9	Two-tone alarm generator	Deliberately left blank			

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/5.10	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	Reg. IV/14, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14.	Reg. IV/9, Reg. IV/10, Reg. X/3, IMO Res. A.694 (17), IMO Res. A.804 (19), IMO Res. MSC.36 (63)-(1994 HSC Code) 14, IMO Res. MSC.97 (73)-(2000 HSC Code) 14, IMO Comsar Circ.32, ITU-R M.493-13 (10/09), ITU-R M.541-9 (05/04).	IMO MSC/Circ.862, EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ETSI EN 300 338-1 V1.3.1 (2010-02), ETSI EN 300 338-2 V1.3.1 (2010-02), ETSI ETS 300 373-1 V1.2.1 (2002-10), ETSI EN 301 843-5 V1.1.1 (2004-06). or IMO MSC/Circ.862, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-3 (1994), IEC 61097-9 (1997), IEC 61162 series.	B + D B + E B + F

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/5.11	MF DSC watchkeeping receiver	Reg. IV/14, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14.	Reg. IV/9, Reg. IV/10, Reg. X/3, IMO Res. A.694(17), IMO Res. A.804(19), IMO Res. MSC.36(63)-(1994 HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14, IMO Comsar Circ.32, ITU-R M.493-13 (10/09), ITU-R M.541-9 (05/04), ITU-R M.1173 (10/95).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ETSI EN 300 338-1 V1.3.1 (2010-02), ETSI EN 300 338-2 V1.3.1 (2010-02), ETSI EN 301 033 V1.2.1 (2005-12), ETSI EN 301 843-5 V1.1.1 (2004-06). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-3 (1994), IEC 61097-8 (1998), IEC 61162 series.	B + D B + E B + F
A.1/5.12	Inmarsat-B SES	Reg. IV/14, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14.	Reg. IV/10, Reg. X/3, IMO Res. A.570 (14), IMO Res. A.694 (17), IMO Res. A.808 (19), IMO Res. MSC.36(63)-(1994 HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14, IMO MSC /Circ.862, IMO Comsar Circ.32.	IMO MSC/ Circ 862, EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). or IMO MSC/Circ 862, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/5.13	Inmarsat-C SES	Reg. IV/14, Reg. X/3, IMO Res. MSC.36(63) -(1994 HSC Code) 14, IMO Res. MSC.97(73) -(2000 HSC Code) 14.	Reg. IV/10, Reg. X/3, IMO Res. A.570 (14), IMO Res. A.664 (16), (applicable only if the Inmarsat C SES comprises 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 MSC/Circ.862, IMO Comsar Circ.32.	IMO MSC / Circ.862, EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ETSI ETS 300 460 Ed.1 (1996-05), ETSI ETS 300 460/A1 (1997-11), ETSI EN 300 829 V1.1.1 (1998-03), ETSI EN 301 843-1 V1.2.1 (2004-06). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-4 (2007), IEC 61162 series.	B + D B + E B + F

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/5.14	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.	Reg. IV/14, Reg. X/3, IMO Res. MSC.36 (63)-(1994 HSC Code) 14, IMO Res. MSC.97(73) (2000 HSC Code) 14.	Reg. IV/10, Reg. X/3, IMO Res. A.694 (17), IMO Res. A.806 (19), IMO Res. MSC.36 (63)-(1994 HSC Code) 14, IMO Res. MSC.97 (73) (2000 HSC Code) 14, IMO MSC /Circ.862, IMO Comsar Circ.32, ITU-R M.476-5 (10/95), ITU-R M.491-1 (07/86), ITU-R M.492-6 (10/95), ITU-R M.493-13 (10/09), ITU-R M.541-9 (05/04), ITU-R M.625-3 (10/95), ITU-R M.1173 (10/95).	IMO MSC / Circ.862, EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ETSI ETS 300 067 Ed.1 (1990-11), ETSI ETS 300 067/A1 Ed.1 (1993-10), ETSI EN 300 338-1 V1.3.1 (2010-02), ETSI EN 300 338-2 V1.3.1 (2010-02), ETSI ETS 300 373-1 V1.3.1 (2011-01), ETSI EN 301 843-5 V1.1.1 (2004-06). or IMO MSC/ Circ.862, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-3 (1994), IEC 61097-9 (1997), IEC 61162 series.	B + D B + E B + F

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/5.15	MF/HF DSC scanning watchkeeping receiver	Reg. IV/14, Reg. X/3, IMO Res. MSC.36(63) -(1994 HSC Code) 14, IMO Res. MSC.97(73) -(2000 HSC Code) 14.	Reg. IV/10, Reg. X/3, IMO Res. A.694 (17), IMO Res. A.806 (19), IMO Res. MSC.36 (63)-(1994 HSC Code) 14, IMO Res. MSC.97 (73)-(2000 HSC Code) 14, IMO Comsar Circ.32, ITU-R M.493-13 (10/09), ITU-R M.541-9 (05/04).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ETSI EN 300 338-1 V1.3.1 (2010-02), ETSI EN 300 338-2 V1.3.1 (2010-02), ETSI EN 301 033 V1.3.1 (2010-09), ETSI EN 301 843-5 V1.1.1 (2004-06).or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-3 (1994), IEC 61097-8 (1998), IEC 61162 series.	B + D B + E B + F
A.1/5.16	Aeronautical two-way VHF radio telephone apparatus	Moved to A.2/5.8			

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/5.17	Portable survival craft two-way VHF radiotelephone apparatus	Reg. IV/14, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14.	Reg. III/6, IMO Res. A.694(17), IMO Res. A.809 (19), IMO Res. MSC.36 (63)-(1994 HSC Code) 8, 14, IMO Res. MSC.97 (73)-(2000 HSC Code) 8, 14, IMO Res. MSC.149 (77), ITU-R M.489-2 (10/95).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), ETSI EN 300 225 V1.4.1 (2004-12), ETSI EN 301 843-2 V1.2.1 (2004-06). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-12 (1996).	B + D B + E B + F
A.1/5.18	Fixed survival craft two-way VHF radiotelephone apparatus	Reg. IV/14, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14.	Reg. III/6, IMO Res. A.694 (17), IMO Res. A.809 (19), IMO Res. MSC.36 (63)-(1994 HSC Code) 8, 14, IMO Res. MSC.97 (73)-(2000 HSC Code) 8, 14, ITU-R M.489-2 (10/95).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), ETSI EN 301 466 V1.1.1 (2000-10). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-12 (1996).	B + D B + E B + F



No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A1/5.19	Inmarsat-F77	Reg. IV/14, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14.	Reg. IV/10, IMO Res. A.570 (14), IMO Res. A.808 (19), IMO Res. A.694 (17), IMO Res. MSC.36 (63)-(1994 HSC Code) 14, IMO Res. MSC.97 (73)-(2000 HSC Code) 14, IMO MSC /Circ.862, IMO Comsar Circ.32.	IMO MSC/ Circ.862, EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-13 (2003). or IMO MSC/ Circ.862, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-13 (2003).	B + D B + E B + F

**6. Equipment required under Colreg 72**

No	Item designation	Regulation Colreg 72 where "type approval" is required	Regulations of Colreg and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/6.1	Navigation lights	Colreg Annex I/14.	Colreg Annex I/14, IMO Res. A.694 (17), IMO Res. MSC.253 (83).	EN 14744 (2005) including AC (2006), EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). or EN 14744 (2005) including AC (2006), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F G

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**7. Bulk carrier safety equipment***No items in Schedule 1a.***8. Equipment under SOLAS Chapter II-1. Construction structure, subdivision and stability, machinery and electrical installations**

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment	
1	2	3	4	5	6	
A.1/8.1 Refer to note (b) of this Annex A.1	Water level detectors	Reg. II-1/22-1, Reg. II-1/25, Reg. XII/12.	Reg. II-1/25, Reg. XII/12, IMO Res.A.1021(26), IMO Res. MSC.188 (79).	IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), IEC 60529 (2001) including: Corrigendum 1 (2003), Corrigendum 2 (2007), Corrigendum 3 (2009), IMO Res. MSC.188 (79), IMO MSC.1/ Circ. 1291.	B + D B + E B + F	

**Schedule Ib****(Based on Annex A.2 of Directive 96/98/EC)****Equipment for which no detailed testing standards already exist in International Instruments****1. Life-saving appliances**

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

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.2/1.1	Radar reflector for liferafts	Reg. III/4, Reg. III/34, Reg. X/3.	IMO Res. MSC.48(66)-(LSA Code).		
A.2/1.2	Immersion suit materials	Deliberately left blank			
A.2/1.3	Float-free launching appliances for survival craft	Reg. III/4, Reg. III/34.	Reg. III/13, Reg. III/16, Reg. III/26, Reg. III/34, IMO Res. MSC.36 (63)-(1994 HSC Code) 8, IMO Res. MSC.48 (66)-(LSA Code) I, IV, VI, IMO Res. MSC.97 (73)-(2000 HSC Code) 8.		
A.2/1.4	Embarkation ladders	Moved to A.1/1.29			
A.2/1.5	Public address and general emergency alarm system (when used as fire alarm device, item A.1/3.53 shall apply)	Reg. III/6.	IMO Res. A.1021 (26), IMO Res. MSC.36 (63)-(1994 HSC Code), IMO Res. MSC.48 (66)-(LSA Code), IMO Res. MSC.97 (73)-(2000 HSC Code), IMO MSC/Circ.808.	ISO 27991 (2008)	

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<b>2. Marine pollution prevention</b>					
No	Item designation	Regulation Marpol 73/78, as amended, where "type approval" is required	Regulations of Marpol 73/78, as amended, and the relevant resolutions and circulars of the IMO, applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.2/2.1	On board NOx monitoring and recording devices	Moved to A.1/2.8			
A.2/2.2	On board exhaust gas cleaning systems	Moved to A.1/2.10			
A.2/2.3	Equipment using other equivalent methods to reduce on board NOx emissions	Annex VI, Reg. 4.	Annex VI, Reg. 4.		
A.2/2.4	Equipment using other technological methods to limit SOx emissions	IMO Res. MEPC.176 (58) (Revised Marpol Annex VI, Reg. 4), IMO Res. MEPC.184(59).	IMO Res. MEPC.176(58) (Revised Marpol Annex VI, Reg. 4).		
A.2/2.5 (new item)	On board NOx analysers using a measurement method other than the direct measurement and monitoring method of the NOx Technical Code 2008	IMO Res. MEPC.176 (58) (Revised Marpol Annex VI, Reg. 4)	IMO Res. MEPC.176 (58) (Revised Marpol Annex VI, Reg. 4)		

### 3. Fire protection equipment

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2 z	3	4	5	6
A.2/3.1	Non-portable and transportable extinguishers	Moved to A.1/3.52			
A.2/3.2	Nozzles for fixed pressure water-spraying fire-extinguishing systems for special category spaces, ro-ro cargo spaces, ro-ro spaces and vehicle spaces	Moved to A.1/3.49			
A.2/3.3	Cold-weather starting of generator sets (starting devices)	Moved to A.2/8.1			
A.2/3.4	Dual-purpose type nozzles (spray/jet type)	Moved to A.1/3.55			
A.2/3.5	Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, machinery spaces and unattended machinery spaces	Moved to A.1/3.51			
A.2/3.6	Smoke detectors	Moved to A.1/3.51			
A.2/3.7	Heat detectors	Moved to A.1/3.51			

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2 z	3	4	5	6
A.2/3.8	Electric safety lamp	Reg. II-2/10, Reg. X/3, IMO Res. MSC.98(73)-(FSS Code) 3.	Reg. II-2/10, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7, IMO Res. MSC.98 (73)-(FSS Code), 3.	IEC 60079 series.	
A.2/3.9	Protective clothing resistant to chemical attack	Reg. II-2/19.	Reg. II-2/19, IMO Res. MSC.36 (63)-(1994 HSC Code) 7, IMO Res. MSC.97 (73)-(2000 HSC Code) 7.	EN 943-1 (2002) including AC (2005), EN 943-2 (2002), EN ISO 6529 (2001), EN ISO 6530 (2005), EN 14605 (2005) including A1(2009), IMO MSC/ Circ.1120.	
A.2/3.10	Low-location lighting systems	Moved to A.1/3.40			
A.2/3.11	Nozzles for fixed pressure water spraying fire extinguishing systems for machinery spaces	Moved to A.1/3.10			
A.2/3.12	Equivalent fixed gas fire extinguishing systems for machinery spaces and cargo pump rooms	Moved to A.1/3.45			

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2 z	3	4	5	6
A.2/3.13	Compressed airline breathing apparatus (high-speed craft)	Item deleted			
A.2/3.14	Fire hoses (reel type)	Moved to A.1/3.56			
A.2/3.15	Sample extraction smoke detection systems components	Moved to A.1/3.63			
A.2/3.16	Flame detectors	Moved to A.1/3.51			
A.2/3.17	Manual call points	Moved to A.1/3.51			
A.2/3.18	Alarm devices	Moved to A.1/3.53			
A.2/3.19	Fixed water-based local application fire-fighting systems components for use in category "A" machinery spaces	Moved to A.1/3.48			
A.2/3.20	Upholstered furniture	Moved to A.1/3.20			
A.2/3.21	Paint lockers and flammable liquid lockers fire extinguishing systems components	Reg. II-2/10.	Reg. II-2/10, IMO MSC.1 / Circ.1239.		
A.2/3.22	Galley exhaust duct fixed fire extinguishing systems components	Reg. II-2/9.	Reg. II-2/9.		
A.2/3.23	Helicopter deck fire extinguishing systems components	Reg. II-2/18.	Reg. II-2/18.	EN 13565-1 (2003) including A1 (2007).	

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2 z	3	4	5	6
A.2/3.24	Portable foam applicator units	Reg. II-2/10, Reg. II-2/20, Reg. X/3.	Reg. II-2/10, Reg. II-2/20, IMO Res. MSC.36 (63)- (1994 HSC Code) 7, IMO Res. MSC.97 (73)- (2000 HSC Code) 7, IMO Res. MSC.98 (73)- (FSS Code) 4, IMO MSC.1 / Circ.1239, IMO MSC.1 / Circ.1313.		
A.2/3.25	"C" class divisions	Moved to A.1/3.64			
A.2/3.26	Gaseous fuel systems used for domestic purposes (components)	Reg. II-2/4.	Reg. II-2/4, IMO MSC.1 / Circ.1276.		



No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2 z	3	4	5	6
A.2/3.27	Fixed gas fire extinguishing systems (CO2) components	Reg. II-2/10, Reg. X/3.	Reg. II-2/10, Reg. II-2/20, IMO Res. MSC.36 (63)- (1994 HSC Code) 7, IMO Res. MSC.97 (73)- (2000 HSC Code) 7, IMO Res. MSC.98 (73)- (FSS Code) 5, IMO MSC.1 / Circ.1313, IMO MSC.1 / Circ.1318.	Electrical automatic control and delay devices: EN 12094-1 (2003). Non-electrical automatic control and delay devices: EN 12094-2 (2003). Manual triggering and stop devices: EN 12094-3 (2003). Container valve assemblies and their actuators: EN 12094-4 (2004). High and low pressure selector valves and their actuators: EN 12094-5 (2006). Non-electrical disable devices: EN 12094-6 (2006). Nozzles for CO2 systems: EN 12094-7 (2000) including A1 (2005). Connectors: EN 12094-8 (2006). Pressure gauges and pressure switches: EN 12094-10 (2003). Mechanical weighing devices: EN 12094-11 (2003).	

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2 z	3	4	5	6
				Check valves and non-return valves: EN 12094-13 (2001) including AC (2002). Odouring devices for CO2 low pressure systems: EN 12094-16 (2003).	
A.2/3.28	Medium expansion foam fire extinguishing systems components Fixed deck foam for tankers	Moved to A.1/3.57			
A.2/3.29	Fixed low expansion foam fire extinguishing systems components for machinery spaces and tanker deck protection	Moved to A.1/3.58			
A.2/3.30	Expansion foam for fixed fire extinguishing systems for chemical tankers	Moved to A.1/3.59			
A.2/3.31	Water spraying hand-operated system	Reg. II-2/10.	Reg. II-2/10.		
A.2/3.32	Dry chemical powder extinguishing systems	Moved to A.1/3.62			

#### 4. Navigation equipment

##### *Notes applicable to Section 4: Navigation equipment*

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

Column 5: IEC 61162 series refer to the following reference standards for Maritime navigation and radiocommunication equipment and systems Digital interfaces:

- (a) IEC 61162-1 ed4.0 (2010-11) Part 1: Single talker and multiple listeners
- (b) IEC 61162-2 ed1.0 (1998-09) Part 2: Single talker and multiple listeners, high-speed transmission
- (c) IEC 61162-3 ed1.1 Consol. with am1 (2010-11) Part 3: Serial data instrument network
  - IEC 61162-3 ed1.0 (2008-05) Part 3: Serial data instrument network
  - IEC 61162-3-am1 ed1.0 (2010-06) Amendment 1 Part 3: Serial data instrument network
- (d) IEC 61162-400 ed1.0 (2001-11) Part 400: Multiple talkers and multiple listeners Ship systems interconnection Introduction and general principles
  - IEC 61162-401 ed1.0 (2001-11) Part 401: Multiple talkers and multiple listeners Ship systems interconnection Application profile
  - IEC 61162-402 ed1.0 (2005-09) Part 402: Multiple talkers and multiple listeners Ship systems interconnection Documentation and test requirements
  - IEC 61162-410 ed1.0 (2001-11) Part 410: Multiple talkers and multiple listeners Ship systems interconnection Transport profile requirements and basic transport profile
  - IEC 61162-420 ed1.0 (2001-11) Part 420: Multiple talkers and multiple listeners Ship systems interconnection Companion standard requirements and basic companion standards
  - IEC 61162-450 ed1.0 (2011-06) Part 450: Multiple talkers and multiple listeners Ethernet interconnection

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

- (a) EN 61162-1 (2011) Part 1: Single talker and multiple listeners

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- (b) EN 61162-2 (1998) Part 2: Single talker and multiple listeners, high-speed transmission
- (c) EN 61162-3 (2008) Part 3: Serial data instrument network
  - EN 61162-3-am1 (2010) Amendment 1 Part 3: Serial data instrument network
- (d) EN 61162-400 (2002) Part 400: Multiple talkers and multiple listeners Ship systems interconnection Introduction and general principles
  - EN 61162-401 (2002) Part 401: Multiple talkers and multiple listeners Ship systems interconnection Application profile
  - EN 61162-402 (2005) Part 402: Multiple talkers and multiple listeners Ship systems interconnection Documentation and test requirements
  - EN 61162-410 (2002) Part 410: Multiple talkers and multiple listeners Ship systems interconnection Transport profile requirements and basic transport profile
  - EN 61162-420 (2002) Part 420: Multiple talkers and multiple listeners Ship systems interconnection Companion standard requirements and basic companion standards
  - EN 61162-450 (2011) Part 450: Multiple talkers and multiple listeners Ethernet interconnection

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2 z	3	4	5	6
A.2/4.1	Gyro compass for high-speed craft	Moved to A.1/4.31			
A.2/4.2	Heading control system for high-speed craft (formerly auto-pilot)	Moved to A.1/4.40			
A.2/4.3	Transmitting heading device THD (GNSS method)	Moved to A.1/4.41			
A.2/4.4	Daylight signalling lamp	Moved to A.1/4.52			

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2 z	3	4	5	6
A.2/4.5	Searchlight for high-speed craft	Moved to A.1/4.42			
A.2/4.6	Night vision equipment for high-speed craft	Moved to A.1/4.43			
A.2/4.7	Track control system	Moved to A.1/4.33			
A.2/4.8	Electronic chart display and information system (ECDIS).	Moved to A.1/4.30			
A.2/4.9	Electronic chart display and information system (ECDIS) backup	Moved to A.1/4.30			
A.2/4.10	Raster chart display system (RCDS)	Moved to A.1/4.30			

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2 z	3	4	5	6
A.2/4.11	Combined GPS/GLONASS equipment	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code), IMO Res. MSC.97(73)-(2000 HSC Code).	Reg. V/19, IMO Res. A.694 (17), IMO Res. MSC.36 (63)-(1994 HSC Code), IMO Res. MSC.97 (73)-(2000 HSC Code), IMO Res. MSC. 115 (73), IMO Res. MSC. 191 (79).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61108-1 (2003), EN 61108-2 (1998), EN 61162 series, EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61108-1 (2003), IEC 61108-2 (1998), IEC 61162 series, IEC 62288 Ed.1.0(2008).	
A.2/4.12	DGPS, DGLONASS equipment	Moved to A.1/4.44, A.1/4.50 and A.1/4.51			
A.2/4.13	Gyro compass for high-speed craft	Moved to A.1/4.31			
A.2/4.14	Voyage data recorder (VDR)	Moved to A.1/4.29			

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2 z	3	4	5	6
A.2/4.15	Integrated navigation system	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. V/19, IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.86(70), IMO Res. MSC.97(73)-(2000 HSC Code) 13, IMO Res. MSC.191(79).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 61924 (2006), EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 61924 (2006), IEC 62288 Ed.1.0(2008).	
A.2/4.16	Bridge equipment system	Deliberately left blank			
A.2/4.17	Radar target enhancer	Moved to A.1/4.53			
A.2/4.18	Sound reception system	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code), IMO Res. MSC.97(73)-(2000 HSC Code).	Reg. V/19, IMO Res. A.694 (17), IMO Res. MSC.36 (63)-(1994 HSC Code), IMO Res. MSC.86 (70), IMO Res. MSC.97 (73)-(2000 HSC Code), IMO Res. MSC.191 (79).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008).	

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2 z	3	4	5	6
A.2/4.19	Magnetic compass for high-speed craft	Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code), IMO Res. MSC.97(73)-(2000 HSC Code).	IMO Res. A.382 (X), IMO Res. A.694 (17), IMO Res. MSC.36 (63)-(1994 HSC Code), IMO Res. MSC.97 (73)-(2000 HSC Code).	ISO 1069 (1973), ISO 25862(2009), EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). or ISO 1069 (1973), ISO 25862(2009), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	
A.2/4.20	Track control system for high-speed craft	Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code), IMO Res. MSC.97(73)-(2000 HSC Code).	IMO Res. A.694 (17), IMO Res. MSC.36 (63)-(1994 HSC Code), IMO Res. MSC.97 (73)-(2000 HSC Code), IMO Res. MSC. 191 (79).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008).	
A.2/4.21	Chart facilities for shipborne radar	Moved to A.1/4.45			
A.2/4.22	Transmitting heading device THD (gyroscopic method)	Moved to A.1/4.46			



No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2 z	3	4	5	6
A.2/4.23	Transmitting heading device THD (magnetic method)	Moved to A.1/4.2			
A.2/4.24	Thrust indicator	Reg. V/18, Reg. X/3, IMO Res. MSC.36 (63)-(1994 HSC Code), IMO Res. MSC.97 (73)-(2000 HSC Code).	Reg. V/19, IMO Res. A.694 (17), IMO Res. MSC.36 (63)-(1994 HSC Code), IMO Res. MSC.97 (73)-(2000 HSC Code), IMO Res. MSC. 191 (79).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008).	
A.2/4.25	Lateral thrust, pitch and mode indicators	Reg. V/18, Reg. X/3, IMO Res. MSC.36 (63)-(1994 HSC Code), IMO Res. MSC.97 (73)-(2000 HSC Code).	Reg. V/19, IMO Res. A.694 (17), IMO Res. MSC.36 (63)-(1994 HSC Code), IMO Res. MSC.97 (73)-(2000 HSC Code), IMO Res. MSC.191(79).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008).	
A.2/4.26	Rate-of-turn indicator	Moved to A.1/4.9			
A.2/4.27	Rudder angle indicator	Moved to A.1/4.20			

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2 z	3	4	5	6
A.2/4.28	Propeller revolution indicator	Moved to A.1/4.21			
A.2/4.29	Pitch indicator	Moved to A.1/4.22			
A.2/4.30	Bridge equipment system	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. V/19, IMO Res. A.694 (17), IMO Res. MSC.36 (63)-(1994 HSC Code) 15, IMO Res. MSC.97 (73)-(2000 HSC Code) 15, IMO Res. MSC. 191(79), IMO SN.1 / Circ.288.	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 61209 (1999), EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 61209 (1999), IEC 62288 Ed.1.0(2008).	
A.2/4.31	Bearing device	Moved to A.1/4.54			
A.2/4.32	Bridge navigational watch alarm system (BNWAS)	Moved to A.1/4.57			

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2 z	3	4	5	6
A.2/4.33	Track control system (working at ship's speed from 30 knots and above)	Reg. V/18, Reg. X/3.	Reg. V/19, IMO Res. A.694 (17), IMO Res. MSC.36 (63)- (1994 HSC Code), IMO Res. MSC.97 (73)- (2000 HSC Code), IMO Res. MSC.191 (79).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008).	
A.2/4.34	Equipment with long range identification and tracking (LRIT) capability	Reg. V/19	Reg. V/19, IMO Res. A.694 (17), IMO Res. A.813 (19), IMO Res. MSC. 202 (81), IMO Res. MSC. 211(81), IMO Res. MSC.263 (84), IMO MSC.1/ Circ 1307.	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series. or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series.	
A.2/4.35	Galileo receiver	Moved to A.1/4.56			
A.2/4.36	AIS SART equipment	Moved to A.1/4.55			

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## 5. Radiocommunication equipment

*Notes applicable to Section 5: Radiocommunication equipment.*

Column 5: IEC 61162 series refer to the following reference standards for Maritime navigation and radiocommunication equipment and systems Digital interfaces:

- (a) IEC 61162-1 ed4.0 (2010-11) Part 1: Single talker and multiple listeners
- (b) IEC 61162-2 ed1.0 (1998-09) Part 2: Single talker and multiple listeners, high-speed transmission
- (c) IEC 61162-3 ed1.1 Consol. with am1 (2010-11) Part 3: Serial data instrument network
  - IEC 61162-3 ed1.0 (2008-05) Part 3: Serial data instrument network
  - IEC 61162-3-am1 ed1.0 (2010-06) Amendment 1 Part 3: Serial data instrument network
- (d) IEC 61162-400 ed1.0 (2001-11) Part 400: Multiple talkers and multiple listeners Ship systems interconnection Introduction and general principles
  - IEC 61162-401 ed1.0 (2001-11) Part 401: Multiple talkers and multiple listeners Ship systems interconnection Application profile
  - IEC 61162-402 ed1.0 (2005-09) Part 402: Multiple talkers and multiple listeners Ship systems interconnection Documentation and test requirements
  - IEC 61162-410 ed1.0 (2001-11) Part 410: Multiple talkers and multiple listeners Ship systems interconnection Transport profile requirements and basic transport profile
  - IEC 61162-420 ed1.0 (2001-11) Part 420: Multiple talkers and multiple listeners Ship systems interconnection Companion standard requirements and basic companion standards
  - IEC 61162-450 ed1.0 (2011-06) Part 450: Multiple talkers and multiple listeners Ethernet interconnection

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

- (a) EN 61162-1 (2011) Part 1: Single talker and multiple listeners
- (b) EN 61162-2 (1998) Part 2: Single talker and multiple listeners, high-speed transmission
- (c) EN 61162-3 (2008) Part 3: Serial data instrument network
  - EN 61162-3-am1 (2010) Amendment 1 Part 3: Serial data instrument network

- (d) EN 61162-400 (2002) Part 400: Multiple talkers and multiple listeners Ship systems interconnection Introduction and general principles
- EN 61162-401 (2002) Part 401: Multiple talkers and multiple listeners Ship systems interconnection Application profile
  - EN 61162-402 (2005) Part 402: Multiple talkers and multiple listeners Ship systems interconnection Documentation and test requirements
  - EN 61162-410 (2002) Part 410: Multiple talkers and multiple listeners Ship systems interconnection Transport profile requirements and basic transport profile
  - EN 61162-420 (2002) Part 420: Multiple talkers and multiple listeners Ship systems interconnection Companion standard requirements and basic companion standards
  - EN 61162-450 (2011) Part 450: Multiple talkers and multiple listeners Ethernet interconnection

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.2/5.1	VHF EPIRB	Reg. IV/14, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code), IMO Res. MSC.97(73)-(2000 HSC Code).	Reg.IV/8,IMO Res. A.662(16),IMO Res. A.694(17),IMO Res. A.805(19),IMO Res. MSC.36(63)-(1994 HSC Code),IMO Res. MSC.97(73)-(2000 HSC Code),ITU-R M.489-2 (10/95),ITU-R M.693 (06/90).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008).or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	

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No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.2/5.2	Radio reserve source of energy	Reg. IV/14, Reg. X/3, IMO Res. MSC.36 (63)- (1994 HSC Code), IMO Res. MSC.97 (73)- (2000 HSC Code).	Reg. IV/13, IMO Res. A.694(17), IMO Res. MSC.36 (63)- (1994 HSC Code), IMO Res. MSC.97 (73)- (2000 HSC Code), IMO Comsar Circ.16, IMO Comsar Circ.32.	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008).or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	
A.2/5.3	Inmarsat-F SES	Moved to A.1/5.19.			
A.2/5.4	Distress panel	Reg. IV/14, Reg. X/3, IMO Res. MSC.36(63)- (1994 HSC Code), IMO Res. MSC. 97(73)- (2000 HSC Code).	Reg. IV/6, IMO Res. A.694(17), IMO Res. MSC.36 (63)- (1994 HSC Code), IMO Res. MSC.97 (73)- (2000 HSC Code), IMO MSC/ Circ. 862, IMO Comsar Circ.32.	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	
A.2/5.5	Distress alarm or alert panel	Reg. IV/14, Reg. X/3, IMO Res. MSC.36 (63)- (1994 HSC Code), IMO Res. MSC.97 (73)- (2000 HSC Code).	Reg. IV/6, IMO Res.A.694(17) , IMO Res. MSC.36 (63)- (1994 HSC Code), IMO Res. MSC.97 (73)- (2000 HSC Code), IMO MSC/ Circ.862, IMO Comsar Circ.32.	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008).or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.2/5.6	L-band EPIRB (Inmarsat)	Deliberately left blank			
A.2/5.7	Ship security alert system		Reg. XI-2/6, IMO Res. A.694(17), IMO Res. MSC.147 (77), IMO MSC/ Circ.1072.	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series. or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series.	
A.2/5.8 Ex A.1/5.16	Aeronautical two-way VHF radio telephone apparatus	Reg. IV/14, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14.	Reg. IV/7, IMO Res. A.694(17), IMO Res. MSC.36 (63)-(1994 HSC Code) 14, IMO Res. MSC.97 (73)-(2000 HSC Code) 14, IMO Res. MSC.80 (70), IMO Comsar Circ.32, ICAO Convention, Annex 10, Radio Regulations.	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), ETSI EN 301 688 V1.1.1 (2000-07).or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), ETSI EN 301 688 V1.1.1 (2000-07).	

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**6. Equipment required under Colreg 72**

No	Item designation	Regulation Colreg 72 where "type approval" is required	Regulations of Colreg and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.2/6.1	Navigation lights	Moved to A.1/6.1.			
A.2/6.2	Sound signal appliances	Colreg 72 Annex III/3.	Colreg 72 Annex III/3, IMO Res. A.694(17).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), Whistles Colreg 72 Annex III/1 (performance), Bells or gongs Colreg 72 Annex III/2 (performance). or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), Whistles Colreg 72 Annex III/1 (performance), Bells or gongs Colreg 72 Annex III/2 (performance).	

**7. Bulk carrier safety equipment**

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.2/7.1	Loading instrument	Reg. XII/11, 1997 SOLAS Conference Res. 5.	Reg. XII/11, 1997 SOLAS Conference Res. 5.	IMO MSC.1/Circ 1229.	
A.2/7.2	Water level detectors on bulk carriers	Item deleted			



**8. SOLAS Chapter II-1 equipment**

No	Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.2/8.1	Cold-weather starting of generator sets (starting devices)	Reg. II-1/44, Reg. X/3.	Reg. II-1/44, IMO Res. MSC.36(63)-(1994 HSC Code) 12, IMO Res. MSC.97 (73)-(2000 HSC Code) 12.		

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