

Commission Directive 2014/93/EU of 18 July 2014 amending Council Directive 96/98/EC on marine equipment (Text with EEA relevance) (repealed)

COMMISSION DIRECTIVE 2014/93/EU

of 18 July 2014

amending Council Directive 96/98/EC on marine equipment

(Text with EEA relevance) (repealed)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Council Directive 96/98/EC of 20 December 1996 on marine equipment⁽¹⁾, and in particular Article 17 thereof,

Whereas:

- (1) For the purposes of Directive 96/98/EC, the international conventions and testing standards should apply in their up-to-date versions.
- (2) A number of amendments to the international conventions and applicable testing standards have entered into force since the adoption of the last amending act to Directive 96/98/EC. Those amendments should be incorporated into Directive 96/98/EC.
- (3) During the same period the International Maritime Organisation and the European standardisation organisations have also adopted standards, including detailed testing standards, for a number of items of equipment which are listed in Annex A.2 to Directive 96/98/EC or which, albeit not listed, are considered relevant for the purpose of that Directive. Therefore such items of equipment should be included in Annex A.1 or transferred from Annex A.2 to Annex A.1, as appropriate.
- (4) Directive 96/98/EC should therefore be amended accordingly.
- (5) It is reasonable to allow equipment newly subject to harmonised requirements under this Directive and manufactured before the expiry of the time-limit for the implementation of this Directive to be placed on the market and on board a Community ship during a transitional period.
- (6) The measures provided for in this Directive are in accordance with the opinion of the Committee on Safe Seas and the Prevention of Pollution from Ships (COSS),

HAS ADOPTED THIS DIRECTIVE:

Article 1

Annex A to Directive 96/98/EC is replaced by the text in the Annex to this Directive.

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Article 2

Equipment listed in column 1 of Annex A.1 as having been transferred from Annex A.2 which was manufactured before 14 August 2015 in conformity with procedures for type-approval already in force before that date within the territory of a Member State may continue to be placed on the market and on board a Community ship until 14 August 2017.

Article 3

1 Member States shall adopt and publish, by 14 August 2015 at the latest, the laws, regulations and administrative provisions necessary to comply with this Directive. They shall forthwith communicate to the Commission the text of those provisions.

They shall apply those provisions from 14 August 2015.

When Member States adopt those provisions, they shall contain a reference to this Directive or be accompanied by such a reference on the occasion of their official publication. Member States shall determine how such reference is to be made.

2 Member States shall communicate to the Commission the text of the main provisions of national law which they adopt in the field covered by this Directive.

Article 4

This Directive shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

Article 5

This Directive is addressed to the Member States.

ANNEX

ANNEX A

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

Annex A

General note for : 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 other. For certification purpose only the relevant product variant shall be chosen, as appropriate (Example: A.1/3.3).

Annex A

List of acronyms used

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

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ANNEX A.1

EQUIPMENT FOR WHICH DETAILED TESTING STANDARDS ALREADY EXIST IN INTERNATIONAL INSTRUMENTS

Notes applicable to the whole of Annex A.1

- 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 Annex B, 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 2012/32/EU⁽²⁾ may apply. (8th Amendment of MED Annex A).
- c) Column 1: Article 2 of Commission Directive 2013/52/EU⁽³⁾ may apply. (9th Amendment of MED Annex A).
- d) 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.
- e) 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.
- f) 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.
- g) The requirements laid down in this annex shall be without prejudice to carriage requirements in the international conventions

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

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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	B + D B + E B1 (#70).
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	—	IMO Res. MSC	B + D B + E B1 (#70).

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					HSC Code) 8.		
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 B + D B + E 81 (#70).
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 Res. MSC B + D B + E 81 (#70).

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	b) immersion suit with inherent insulation			—	Code) 8, IMO Res. MSC 48(66)-(LSA Code)		
	c) anti exposure suits			—	I, II, IMO Res. MSC 97(73)-(2000 HSC Code)		
				—	8, IMO MSC/Circ.1046.		
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)	—	IMO Res. B + D B + E MSC 81 (#70).
				—	8, IMO Res. MSC 48(66)-(LSA Code)		
				—	I, II, IMO Res. MSC 97(73)-(2000 HSC Code)		
				—	8, IMO MSC/Circ.1046.		
A.1/1.8	Rocket parachute flares (pyrotechnics)	—	Reg. III/4, Reg. X/3.	—	Reg. III/6, Reg. III/34,	—	IMO Res. B + D B + E MSC 81 (#70).

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				—	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.		
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. B + D B + E MSC 81 (70).
A.1/1.10	Buoyant smoke signals (pyrotechnics)	—	Reg. III/4, Reg. X/3.	—	Reg. III/34, IMO Res. MSC.48(66)-(LSA Code)	—	IMO Res. B + D B + E MSC 81 (70).

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				I, III.			
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
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.81(70). B + D B + E

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				—	IMO Res. MSC.97(73)-(2000 HSC Code) 8,		
				—	IMO MSC/Circ.811.		
A.1/1.13	Rigid liferafts	—	Reg. III/4,	—	Reg. III/21,	—	IMO B + D Res. B + E MSC.81 (#70), IMO MSC/Circ.1006.
		—	Reg. X/3.	—	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.		
A.1/1.14	Automatically self-righting liferafts	—	Reg. III/4,	—	Reg. III/26,	—	IMO B + D Res. B + E MSC.81 (#70).
		—	Reg. X/3.	—	Reg. III/34,		
				—	IMO Res. MSC.36(63)-(1994 HSC		

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					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.			
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 Res. B + D MSC 81(70) B + E	

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			—	IMO MSC/ Circ.811.		
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. B + D B + E 81 (#70).
A.1/1.17	(a) Davit-launched lifeboats: (b) Free-fall lifeboats.	— — —	Reg. III/4, Reg. X/3. partially enclosed, totally enclosed.	— — — — — — — — — —	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)	IMO Res. MSC.81 (70), IMO MSC/ Circ.1006.

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				—	I, IV, IMO Res. MSC.97(73)- (2000 HSC Code) 8, IMO MSC.1/ Circ.1423.		
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 B + D Res. B + F MSC.81(70), IMO MSC/ Circ.1006.
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 B + D Res. B + F MSC.81(70), ISO 15372 (2000).

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				—	IMO Res. MSC 48(66)-(LSA Code) I, V,		
				—	IMO Res. MSC 97(73)-(2000 HSC Code) 8.		
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. B + D B + F MSC 81(70), IMO MSC/ Circ.1006, ISO 15372 (2000).
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)-	—	IMO Res. B + D B + E MSC 81(70). G

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				(2000 HSC Code) 8.				
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.36(63)- (1994 HSC Code) 8, IMO Res. MSC.48(66)- (LSA Code) I, VI, IMO Res. MSC.97(73)- (2000 HSC Code) 8.	B + D B + E B1 (#70). 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.36(63)- (1994 HSC Code) 8,	B + D B + E B1 (#70). G

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				—	IMO Res. MSC 48(66)-(LSA Code) I, VI,		
				—	IMO Res. MSC 97(73)-(2000 HSC Code) 8.		
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 G
A.1/1.26	Release mechanism for (a) Lifeboats and rescue boats (launched by a fall or falls) (b) Liferrafts (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, IMO Res. MSC 97(73)-(2000 HSC Code) 8,	—	IMO Res. MSC 81(70). B + D B + E

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				—	IMO MSC.1/ Circ.1419.		
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. B + D B + F 81(70).
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. IMO MSC/ Circ.810. B + D B + F 81(70), 810.
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. ISO 5489 (2008). B + D B + F 81(70),

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				—	IMO Res. MSC 48(66)-(LSA Code),		
				—	IMO Res. MSC 97(73)-(2000 HSC Code),		
				—	IMO MSC.1/Circ.1285.		
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(B) F B + D B + E
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					
A.1/1.33	Radar reflector for lifeboats and rescue boats (passive)	—	Reg. III/4, Reg. X/3.	—	Reg. III/34, IMO Res. A.384(X), IMO Res.	—	EN ISO 8729 (1998), EN 60945 (2002) B + D B + E B + F

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			<p>MSC 36(63)- including (1994 IEC HSC 60945 Code) Corrigendum 8, 1 — IMO (2008). Res. Or, MSC 48(66)- EN (LSA ISO Code) 8729 I, (1998), IV, — IEC V, 60945 — IMO (2002) Res. including MSC 97(73)- IEC (2000 60945 HSC Corrigendum Code) 1 8, (2008). — IMO Or, Res. — ISO MSC 164(78). 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).</p>
A.1/1.34	Compass for lifeboats and rescue boats	Moved to A.1/4.23	
A.1/1.35	Portable fire — extinguishing	Moved to A.1/3.38	

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	equipment for lifeboats and rescue boats							
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	B + D B + E B1 (#70).
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	B + D B + E B1 (#70).
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	B + D B + E B1 (#70).
A.1/1.39	Open reversible liferafts	— —	Reg. III/4, Reg. X/3.	—	IMO Res. MSC.36(63)- (1994 HSC Code) 8,	—	IMO Res. MSC.36(63)- (1994 HSC Code)	B + D B + F MSC.36(63)- (1994 HSC Code)

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					Annex 10, IMO Res. MSC 48(66)- (LSA Code) I, IMO Res. MSC 97(73)- (2000 HSC Code) 8, Annex 11.	Annex 10, IMO Res. MSC 97(73)- (2000 HSC Code) Annex 11.		
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). G	B + D B + E
A.1/1.42	Pilot ladder	Moved to A.1/4.49						

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A.1/1.43	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 B + F
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2. Marine pollution prevention

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, as applicable	Testing standards	Modules for conformity assessment		
1	2	3	4	5	6		
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

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A.1/2.2	Oil/water interface detectors	—	Annex I, Reg. 32.	—	Annex I, Reg. 32.	—	IMO Res. MEPC.35(49).	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
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, IMO MEPC.1/Circ.761 Rev.1.	—	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.	Until 31 December 2015: — As from 1 January 2016: —	IMO Res. MEPC.159(55). IMO Res. MEPC.227(64).	B + D B + E B + F
A.1/2.7	Shipboard incinerators	—	Annex VI, Reg. 16.	—	Annex VI, Reg. 16, IMO MEPC.1/Circ.793	—	IMO Res. MEPC.376(40). G	B + D B + E B + F
A.1/2.8	NOx analyser of	—	IMO Res.	—	IMO Res.	—	IMO Res.	B + D B + E

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	Chemiluminescent detector (CLD) or heated Chemiluminescent detector (HCLD) type for use in on board direct measurement		MEPC.176(58) (Revised MARPOL Annex VI, Reg. 13)		MEPC.176(58) (Revised MARPOL Annex VI, Reg. 13); IMO Res. MEPC.177(58) (NOx Technical code 2008), IMO Res. MEPC.198(62), IMO MEPC.1/Circ.638.		MEPC.176(58) (NOx Technical code), IEC 60092-504:2001 incl. IEC 60092-504 Corr. 1: 2011.	G
A.1/2.9	Equipment using other technological methods to limit SOx emissions	Moved to A.2/2.4						
A.1/2.10	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 G

3. Fire protection equipment

No.	Item designation	Regulation SOLAS 74, as amended, where “type	Regulations of SOLAS 74, as amended, and the relevant resolutions	Testing standards	Modules for conformity assessment
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1	2	3	approval” is required	4	and circulars of the IMO, as applicable	5	6
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 B + D Res. B + E MSC.307(88)-(2010 FTP Code).
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,	—	EN B + D 3-7 B + E (2004) B + F including A.1 (2007), EN 3-8 (2006) including AC (2007), EN 3-9 (2006) including AC (2007), EN 3-10 (2009).

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				—	IMO Res. MSC 98(73)-(FSS Code) 4,		
				—	IMO MSC/Circ. 1239,		
				—	IMO MSC/Circ. 1275.		
A.1/3.3	Fire-fighter's outfit: protective clothing (close proximity clothing)	—	Reg. II-2/10,	—	Reg. II-2/10,	Protective clothing for fire fighting: — EN 36(63)- 469 (2005) including A1 (2006) and AC (2006).	B + D B + E B + F
		—	Reg. X/3,	—	IMO Res. MSC 98(73)-(FSS Code) 3.	—	
		—	IMO Res. MSC 98(73)-(FSS Code) 3.	—	IMO Res. MSC 98(73)-(FSS Code) 3.	Protective clothing for fire fighting – Reflective clothing for specialised fire-fighting: — EN 1486 (2007).	
				—	IMO Res. MSC 98(73)-(FSS Code) 3.	Protective clothing for fire fighting – Protective clothing with a reflective outer surface: — ISO 15538 (2001) Level 2.	
A.1/3.4	Fire-fighter's outfit: boots	—	Reg. II-2/10,	—	Reg. II-2/10,	—	B + D
		—	Reg. X/3,	—	IMO Res. MSC 36(63)-	EN 15090 (2012)	B + E B + F

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		—	IMO Res. MSC.98(73)-(FSS Code) 3.	—	(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7, IMO Res. MSC.98(73)-(FSS Code) 3.		
A.1/3.5	Fire-fighter's outfit: gloves	— — —	Reg. II-2/10, 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 and AC (2009). B + D B + E B + F
A.1/3.6	Fire-fighter's outfit: helmet	— — —	Reg. II-2/10, 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	— — —	EN 443 (2008) B + D B + E B + F

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					HSC Code) 7, IMO Res. MSC 98(73)-(FSS Code) 3.		
A.1/3.7	Self-contained compressed-air-operated breathing apparatus <i>Note:</i> For use in accidents involving dangerous goods a positive pressure type mask is required.	—	Reg. II-2/10,	—	Reg. II-2/10,	—	EN B + D 136 B + E (1998) B + F including AC (2003), EN (2006). And where the apparatus use in accidents with cargo: ISO 23269-3(2011).
		—	Reg. X/3,	—	IMO Res. MSC 36(63)-(1994)		
		—	IMO Res. MSC 98(73)-(FSS Code) 3.	—	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		

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				Code) 14.			
A.1/3.8	Compressed air line breathing apparatus	—	Reg. X/3, IMO Res. MSC.36(63)- (1994 HSC Code) 7. <i>Note:</i> 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 B + D 14593 (2005) EN B + F 14593-2 (2005) including AC (2005), EN 14594 (2005) including AC (2005).
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)	—	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 B + D Res. B + E A.800 (19)F

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	are included under this item)		—	IMO Res. MSC.98(73)-(FSS Code) 8.			
			—	IMO MSC/Circ.912.			
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 B + D MSC/B + E Circ.165,F Appendix A.
A.1/3.11	“A” & “B” Class divisions fire integrity (a) “A” class divisions, (b) “B” class divisions.	“A” Class: — “B” Class: —	Reg. II-2/3.2A Reg. II-2/3.4	— — —	Reg. II-2/9, and, Reg. II-2/3.2. IMO MSC/Circ.1120 IMO MSC.1/Circ.1434 “B” Class: Reg. II-2/3.4.	—	IMO B + D Res. B + E MSC.307(88)-(2010 FTP Code). IMO MSC.1/Circ.1435
A.1/3.12	Devices to prevent the passage of	—	Reg. II-2/4,	—	Reg. II-2/4,	—	EN ISO For equipment

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	flame into the cargo tanks in tankers	—	Reg. II-2/16.	—	Reg. II-2/16	16852 other than (2010) valves: ISO B + D 15364 B + E (2007) B + F IMO For valves: MSC/B + F Circ.677.
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 B + D Res. B + E MSC.307(88)-(2010 FTP Code).
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) plastic pipes and fittings, (b) valves, (c) flexible pipe assemblies and (d) compensators, metallic pipe	—	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)	Pipes and fittings: IMO Res. A.753(18). Valves: EN ISO 10497 (2010). Flexible pipe assemblies: EN ISO 15540 (2001)

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	components with resilient and elastomeric seals.	—	7, 10. IMO MSC/Circ.1120.	—	EN ISO 15541 (2001). Metallic pipe components with resilient and elastomeric seals. — ISO 19921 (2005), — ISO 19922 (2005).			
A.1/3.16	Fire Doors	—	Reg. II-2/9.	—	Reg. II-2/9.	—	IMO Res. MSC.107(88)- (2010 FTP Code). — IMO MSC.1/ Circ.1319.	B + D B + E
A.1/3.17	Fire door control systems components. <i>Note:</i> When the term “system components” is used in column 2 it may be that a single component, a group of components or a whole system needs to be tested to ensure that the international requirements are fulfilled.	—	Reg. II-2/9, Reg. X/3.	—	Reg. II-2/9, IMO Res. MSC.97(73)- (2000 HSC Code) 7.	—	IMO Res. MSC.107(88)- (2010 FTP Code).	B + D B + E
A.1/3.18	Surface materials and floor	—	Reg. II-2/3,	—	Reg. II-2/3,	—	IMO Res. MSC.107(88)-	B + D B + E

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	coverings with low flame-spread characteristics	—	Reg. II-2/5,	—	Reg. II-2/5,	(2010 FTP Code).
	(a) decorative veneers	—	Reg. II-2/6	—	Reg. II-2/6,	
	(b) paint systems,	—	for (a), (b), (c)	—	Reg. II-2/9,	
	(c) floor coverings,	—	Reg. II-2/9,	—	IMO Res. MSC.36(63)-(1994 HSC Code)	
	(d) pipe insulation covers,	—	for (e), (f)	—	7,	
	(e) adhesives used in the construction of “A”, “B” & “C” class divisions, combustibles ducts membrane	—	Reg. X/3.	—	IMO Res. MSC.97(73)-(2000 HSC Code) 7.	
		—	—	—	IMO MSC/Circ.1120.	
A.1/3.19	Draperies, curtains and other suspended textile materials and films	—	Reg. II-2/3,	—	Reg. II-2/3,	IMO B + D Res. B + E MSC.307(88)-(2010 FTP Code).
		—	Reg. II-2/9,	—	Reg. II-2/9,	
		—	Reg. X/3.	—	IMO Res. MSC.36(63)-(1994 HSC Code) 7,	
		—	—	—	IMO Res. MSC.97(73)-(2000 HSC Code) 7.	
A.1/3.20	Upholstered furniture	—	Reg. II-2/3,	—	Reg. II-2/3,	IMO B + D Res. B + E MSC.307(88)-(2010 FTP Code).
		—	Reg. II-2/5,	—	Reg. II-2/5,	
		—	Reg. II-2/9,	—	Reg. II-2/9,	

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		—	Reg. X/3.	—	IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7.		
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. B + D B + E MSC.307(88)-(2010 FTP Code).
A.1/3.22	Fire dampers	—	Reg. II-2/9.	—	Reg. II-2/9.	—	IMO Res. B + D B + E MSC.307(88)-(2010 FTP Code)
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)					

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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.1120(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. (only applicable to (b))	—	IMO Res. MSC.1276(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.1120(2010 FTP Code).	B + D B + 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, Or, IMO Res. MSC.36(10) (1994), A2 HSC (2004) and A3 (2006). 7, IMO Res. MSC.44(65), IMO Res. MSC.97(73)-(2000 HSC Code) 7, IMO Res.	—	ISO 6182-1 (2004) B + D B + E B + F	

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					MSC 98(73)- (FSS Code) 8, IMO MSC/ Circ.912.		
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
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)	B + D B + E B + F

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				<p>— IEC 60533 (1999),</p> <p>and as applicable to:</p> <p>a) Category 1: (safe area):</p> <p>— EN 50104 (2010),</p> <p>— EN 60079-29-1 (2007).</p> <p>b) Category 2: (explosive gas atmospheres):</p> <p>— EN 50104 (2010),</p> <p>— EN 60079-29-1 (2007),</p> <p>— EN 60079-0 (2012),</p> <p>— EN 60079-1 (2007) including IEC 60079-1 Corrigendum 1 (2008),</p> <p>— EN 60079-10-1 (2009),</p> <p>— EN 60079-11 (2012),</p> <p>— EN 60079-15 (2010),</p> <p>— EN 60079-26 (2007).</p>
A.1/3.31	Nozzles for fixed	Item deleted as it is covered by A.1/3.9 and A.1/3.28		

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	sprinkler systems, for high speed craft (HSC)							
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
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 Res. MSC.307(88)-(2010 FTP Code).	B + D B + E
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
A.1/3.35	Fire doors on high speed craft	—	Reg. X/3.	—	IMO Res. MSC.36(63)-(1994 HSC	—	IMO Res. MSC.307(88)-(2010	B + D B + E

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					Code) 7, IMO Res. MSC.97(73)- (2000 HSC Code) 7.	FTP Code).	
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 Res. MSC.307(88)- (2010 FTP Code).	B + D B + E
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
A.1/3.38	Portable fire- extinguishing equipment for lifeboats and rescue boats	—	Reg. III/4, Reg. X/3.	—	Reg. III/34, IMO Res. A.951(23), IMO Res. MSC.36(63)- (1994 HSC Code) 8, IMO Res.	EN 3-7 (2004) including A1 (2007), EN 3-8 (2006) including AC (2007), EN 3-9	B + D B + E B + F

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					MSC 48(66)- (2006) (LSA Code) I, IV, V, IMO Res. MSC 97(73)- (2000 HSC Code) 8.				
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 B + D MSC/B + E Circ. 165.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. Or, A.752(48), IMO Res. MSC 98(73)- (FSS Code) 11.	—	IMO B + D Res. B + E A.752(48)F ISO 15370 (2010).		
A.1/3.41	Emergency escape	—	Reg. II-2/13.	—	Reg. II-2/13,	—	ISO B + D 23269B + E		

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	breathing devices (EEBD)			—	IMO Res. MSC 98(73)- (FSS Code) 3, IMO MSC/Circ. 849	(2008) B + F 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).
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 B + D MSC/B + E Circ. 353+ F G

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				—	IMO MSC/ Circ.485, — IMO MSC/ Circ.731, — IMO MSC/ Circ.1120.		
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, IMO MSC.1/ Circ.1433.	— — —	ISO 15371 (2009) B + D B + E B + F
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	— — —	Reg. II-2/10, Reg. X/3, IMO Res.	— — —	Reg. II-2/10, IMO Res. MSC.36(63)- (1994	— — —	IMO MSC.888+ IMO MSC.1/ Circ.1316. B + D B + E B + F

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	medium, head valves and nozzles) for machinery spaces and cargo pump rooms		MSC.98(73)- (FSS Code) 5.	—	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.	
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 including	IMO B + D MSC. B + E Circ.1270 F including Corrigendum 1.

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				Corrigendum 1			
				—	IMO MSC.1/ Circ.1313.		
A.1/3.47	Concentrate for Fixed High Expansion Foam Fire Extinguishing Systems for Machinery Spaces and Cargo Pump Rooms. <i>Note:</i> 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 B + D MSC/B + E Circ.670+ F
A.1/3.48	Fixed water based local application fire fighting systems components for use in category “A”	—	Reg. II-2/10, Reg. X/3.	—	Reg. II-2/10, IMO Res. MSC.36(63)- (1994 HSC Code) 7,	—	IMO B + D MSC/B + E Circ.1387.F

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	machinery spaces (Nozzles and performance tests).			—	IMO Res. MSC.97(73)-(2000 HSC Code) 7.		
A.1/3.49	Fixed water-based fire-fighting systems for ro-ro spaces, vehicle spaces and special category spaces	—	Reg. II-2/19,	—	Reg. II-2/19,	—	IMO B + D MSC. B + E Circ. 1430.F
		—	Reg. II-2/20,	—	Reg. II-2/20,	—	and the
		—	Reg. X/3,	—	IMO Res. MSC.98(73)-(FSS Code) 7.	—	additional design
		—	IMO Res. MSC.98(73)-(FSS Code) 7.	—	IMO Res. MSC.97(73)-(2000 HSC Code) 7.	—	requirements for:
				—	IMO Res. MSC.98(73)-(FSS Code) 7.	—	Prescriptive-based systems as per Circ. 1430 Clause 4: Performance-based systems as per Circ. 1430 Clause 5.
A.1/3.50	Protective clothing resistant to chemical attack	Moved to A.2/3.9					
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	—	Reg. II-2/7,	—	Reg. II-2/7,	Control and indicating equipment. Electrical installations in ships:	B + D B + E B + F
		—	Reg. X/3,	—	IMO Res. MSC.98(73)-(FSS Code) 9.	EN 54-2 (1997) including AC(1999) and A1(2006).	
		—	IMO Res. MSC.98(73)-(FSS Code) 9.	—	IMO Res. MSC.97(73)-(2000 HSC Code) 7.	Power supply equipment:	

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	machinery spaces		Code)	EN
(a)	Control and indicating equipment	—	7, IMO Res. MSC 98(73)- (FSS Code) 9,	54-4 (1997) including AC(1999), A1(2002) and A2(2006).
(b)	Power supply equipment			
(c)	Heat detectors — Point detectors	—	IMO MSC 1742 Circ.1	Heat detectors — Point detectors:
(d)	Smoke detectors: Point detectors using scattered light, transmitted light or ionization			— EN 54-5 (2000) including A1(2002).
(e)	Flame detectors: Point detectors			Smoke detectors — Point detectors using scattered light, transmitted light or ionization:
(f)	Manual call points			— EN 54-7 (2000) including A1(2002) and A2(2006).
(g)	Short circuit isolators			
(h)	Input/output devices			
(i)	Cables			Flame detectors — Point detectors: — EN 54-10 (2002) including A1(2005).
				Manual call points: — EN 54-11 (2001) including A1(2005).

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						<p>Short circuit isolators: — EN 54-17 (2007) including AC(2007).</p> <p>Input/output devices: — EN 54-18 (2005) including AC(2007).</p> <p>Cables: — EN 60332-1-2 (2004). — IEC 60092-376 (2003).</p> <p>And, as applicable, electrical and electronic installations in ships: — IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), — IEC 60533 (1999).</p>
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, IMO Res. MSC.80(63)- (1994), HSC Code) 7,	— EN 1866- (2007) EN 1866-3 (2013). — ISO 11601 (2008). B + D B + E B + F

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				—	IMO Res. MSC.97(73)-(2000 HSC Code) 7.		
A.1/3.53	Fire alarm devices — Sounders	—	Reg. II-2/7, —	—	Reg. II-2/7, —	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
		—	Reg. X/3, —	—	IMO Res. MSC.36(63)-(1994 HSC Code) 7, —		
		—	IMO Res. MSC.98(73)-(FSS Code) 9. —	—	IMO Res. MSC.97(73)-(2000 HSC Code) 7, —		
				—	IMO Res. MSC.98(73)-(FSS Code) 9, —		
				—	IMO MSC.1/Circ.1313.		
A.1/3.54	Fixed oxygen analysis and gas detection equipment	—	Reg. II-2/4, —	—	Reg. II-2/4, —	IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), IEC 60533 (1999), and as applicable to: Category 4: (safe area)	B + D B + E B + F
		—	Reg. VI/3. —	—	IMO Res. MSC.98(73)-(FSS Code) 15. —		
				—	For combined O ₂ /HC systems additionally: —		
				—	IMO MSC.1/Circ.1370.		

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					<p>— EN 50104 (2010).</p> <p>b) Category 3: (explosive gas atmospheres)</p> <p>— EN 50104 (2010),</p> <p>— EN 60079-0 (2012),</p> <p>— EN 60079-29-1 (2007).</p> <p>For combined O₂/HC systems additionally:</p> <p>— IMO MSC.1/Circ.1370.</p>	
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.97(73) (1994), HSC Code) 7, IMO Res. MSC.97(73) (2000), HSC Code) 7.	<p>Hand-held branchpipes for fire service use – Smooth bore jet and/or one fixed spray jet angle branchpipes PN 16:</p> <p>B + D B + E B + F</p> <p>EN 15182-1 (2007) including A1(2009), EN 15182-2 (2007) including A1(2009).</p>

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					—	EN 15182-1 (2007) including A1(2009).	
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 (2012) 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.788 B + D B + E B + F
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.1312 B + D B + E B + F IMO MSC.1/ Circ.1312/ Corr.1.

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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) 11	—	IMO Res. MSC.4(48)-(IBC Code) 11, IMO MSC/ Circ.553.	—	IMO MSC.1/ Circ.1312/ Corr.1.	B + D B + E B12.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.1312.	B + D B + E B68.F
A.1/3.61	a) Inside air high expansion foam systems for the protection of machinery spaces and cargo pump rooms. b) Outside air high expansion foam systems for the protection of machinery spaces and cargo	—	Reg. II-2/10.	—	Reg. II-2/10, IMO Res. MSC.98(73)-(FSS Code) 6.	—	IMO MSC.1/ Circ.1312.	B + D B + E B84.F

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	<p>pump rooms.</p> <p>Note: Inside/ Outside 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</p>						
A.1/3.62	Dry chemical powder extinguishing systems	—	Reg. II-2/1.	—	Reg. II-2/1, IMO Res. MSC.5(48)-(IGC Code) 11.	—	IMO B + D MSC B + E Circ. 15.F
A.1/3.63 Refer to note b) of this Annex A.1	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 B + D Res. B + E 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:

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					<p>— EN 54-4 (1997) including AC(1999), A1(2002) and A2(2006).</p> <p>Aspiring smoke detectors: — EN 54-20 (2006) including AC(2008).</p> <p>And, as applicable, electrical and electronic installations in ships: — IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011) — IEC 60533 (1999).</p> <p>And, as applicable for explosive atmospheres: — EN 60079-0 (2012).</p>		
A.1/3.64 Refer to note b) of this Annex A.1	C class Divisions	—	Reg. II-2/3.	—	Reg. II-2/3, Reg. II-2/9.	—	IMO B + D Res. B + E MSC 307(88) (2010 FTP Code).
A.1/3.65	Fixed hydrocarbon	—	Reg. II-2/4.	—	Reg. II-2/4,	—	IMO B + D MSC B + E Circ. 170 , F

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Refer to note b) of this Annex A.1	gas detection system	—	IMO Res. MSC.98(73)-(FSS Code) 16, IMO MSC.1/Circ.1370.	—	EN 60079-0 (2012), EN 60079-29-1 (2007), IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), IEC 60533 (1999).	
A.1/3.66 Refer to note b) of this Annex A.1	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 B + D MSC. B + E Circ.1168.F
A.1/3.67 Refer to note c) of this Annex A.1	Helicopter facility foam fire-fighting appliances	—	Reg. II-2/18.	—	Reg. II-2/18, IMO MSC.1/Circ.1431.	EN 13565 (2003) including A1 (2007). 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:

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

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

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

- EN 61162-1 (2011) - Part 1: Single talker and multiple listeners
- EN 61162-2 (1998) - Part 2: Single talker and multiple listeners, high-speed transmission
- EN 61162-3 (2008) - Part 3: Serial data instrument network
 - EN 61162-3-am1 (2010) Amendment 1 — Part 3: Serial data instrument network
- EN 61162-450 (2011) - Part 450: Multiple talkers and multiple listeners — Ethernet interconnection

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 Class A for ships	— 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.382(X), — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994) HSC Code) 13, — IMO Res. MSC.97(73)-(2000) HSC Code) 13.	— ISO 1069 (1973), — ISO 25862 (2009), — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, — ISO 1069 (1973), — ISO 25862 (2009),	B + D B + E B + F G

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						IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).
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.191(79).	EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 series; ISO 22090-2 (2004), including Corrigendum 2005, EN 62288 (2008). 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).

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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						
A.1/4.6	Echo sounding equipment	—	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994	—	Reg. V/19, IMO Res. A.224(VII), IMO Res. A.694(17),	—	EN ISO 9875 (2001), including ISO Technical Corrigendum	B + D B + E B + F G

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			HSC Code) 13, IMO Res. MSC.97(73)- (2000 HSC Code) 13.	—	IMO Res. MSC.36(63)- (1994 HSC Code) 13, IMO Res. MSC.74(69) Annex 4, — IMO Res. MSC.97(73)- (2000 HSC Code) Or, 13, — IMO Res. MSC.191(79).	—	1: 2006, EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008). 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).
A.1/4.7	Speed and distance measuring equipment (SDME)	—	Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)- (1994 HSC	—	Reg. V/19, — IMO Res. A.694(17), — IMO Res. A.824(19), — IMO Res.	—	EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008),

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			Code) 13, IMO Res. MSC.97(73)- (2000 HSC Code) 13.	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 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).	
A.1/4.8	Rudder angle, rpm, pitch indicator	Moved to A.1/4.20, A.1/4.21 and A.1/4.22				
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.	EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ISO 20672 (2007), EN 62288 (2008). Or, IEC 60945

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				Code)	(2002)		
			—	13, IMO Res. MSC.191(79).	including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, ISO 20672 (2007), IEC 62288 Ed.1.0(2008).		
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 B + D 60945B + E (2002)B + F 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,

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						IEC 62288 Ed.1.0(2008).	
A.1/4.12	Chayka equipment	—	Reg. V/18,	—	Reg. V/19,	EN B + D 60945B + E (2002)B + F 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).	
		—	Reg. X/3,	—	IMO Res. A.694		
		—	IMO Res. MSC36(63)- (1994 HSC Code) 13,	—	IMO Res. A.818 (19), IMO Res. MSC36(63)- (1994 HSC Code) 13,		
		—	IMO Res. MSC97(73)- (2000 HSC Code) 13.	—	IMO Res. MSC97(73)- (2000 HSC Code) 13, IMO Res. MSC191(79).		
A.1/4.13	Decca navigator equipment	Deliberately left blank					
A.1/4.14	GPS equipment	—	Reg. V/18,	—	Reg. V/19,	EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum	
		—	Reg. X/3,	—	IMO Res. A.694		
		—	IMO Res. MSC36(63)- (1994	—	IMO Res. MSC36(63)-		

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			HSC Code) 13, IMO Res. MSC.97(73)- (2000 HSC Code) 13.		(1994 HSC Code);— IMO Res. MSC.97(73)- (2000 HSC Code);— IMO Res. MSC.192(73), IMO Res. MSC.191(79).		1 (2008), EN 61108-1 (2003), EN 61162 series, EN 62288 (2008). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61108-1 (2003), IEC 61162 series, IEC 62288 Ed.1.0(2008).
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, Or, IMO Res. MSC.113(73),	—	EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61108-2 (1998), EN 61162 series, EN 62288 (2008). IEC 60945 (2002)

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			—	IMO Res. MSC.191(79).		including IEC 60945 Corrigendum 1 (2008), IEC 61108-2 (1998), IEC 61162 series, IEC 62288 Ed.1.0(2008).	
A.1/4.16	Heading control system (HCS)	—	Reg. V/18.	—	Reg. V/19, IMO Res. A.342(X), IMO Res. A.694(17), IMO Res. MSC.64(67) Annex 3, IMO Res. MSC.191(79).	—	ISO B + D 11674 B + E (2006) B + F EN G 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).	

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A.1/4.17	Mechanical pilot hoist	Moved to A.1/1.40						
A.1/4.18	9 GHz SAR transponder (SART)	—	Reg. III/4,	—	Reg. III/6,	—	EN 60945	B + D
		—	Reg. IV/14,	—	Reg. IV/7,	—	(2002) including	B + F
		—	Reg. V/18,	—	IMO Res. A.530(13),	—	IEC 60945	Corrigendum 1
		—	Reg. X/3,	—	IMO Res. A.802(19),	—	(2008),	EN 61097-1
		—	IMO Res. MSC.36(63)- (1994 HSC Code) 13,	—	IMO Res. A.694(17),	—	IEC 60945	(2002) including
		—	IMO Res. MSC.97(73)- (2000 HSC Code) 13.	—	HSC Code) 8, 14,	—	IEC 60945	Corrigendum 1
		—		—	IMO Res. MSC.97(73)- (2000 HSC Code) 8, 14,	—	IEC 61097-1	(2007).
		—		—	ITU-R M.628-3(11/93).			
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. V/19,	—	EN 60945	B + D
		—	Reg. X/3,	—	IMO Res. A.694(17),	—	(2002) including	B + F
		—	IMO Res. MSC.36(63)- (1994 HSC Code) 13,	—	IMO Res. MSC.36(63)- (1994 HSC Code) 13,	—	IEC 60945	Corrigendum 1
		—	IMO Res.	—	IMO Res. MSC.36(63)- (1994 HSC Code) 13,	—	(2008),	EN 61162 series,

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			MSC 97(73)- (2000 HSC Code) 13.	—	IMO Res. MSC 97(73)- (2000 HSC Code) 13, Or, IMO Res. MSC 191(79).	—	ISO 20673 (2007), EN 62288 (2008). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, ISO 20673 (2007), IEC 62288 Ed.1.0(2008).
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, Or, IMO Res. MSC 191(79).	—	EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ISO 22554 (2007), EN 62288 (2008). IEC 60945 (2002) including IEC 60945 Corrigendum

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						1 (2008), IEC 61162 series, ISO 22554 (2007), IEC 62288 Ed.1.0(2008).
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, — Or, IMO Res. MSC.191(79).	— EN B + D 60945 B + E (2002) B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ISO 22555 (2007), EN 62288 (2008). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, ISO 22555 (2007), IEC 62288 Ed.1.0(2008).
A.1/4.23	Compass for lifeboats and rescue boats	—	Reg. III/4, — Reg. X/3,	—	Reg. III/34, IMO Res.	— ISO B + D 1069 B + E (1973) B + F G

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		—	IMO Res. MSC.36(63)- (1994 HSC Code) 13,	—	IMO Res. MSC.36(63)- (1994 HSC Code) 8, 13,	—	IMO Res. MSC.97(73)- (2000 HSC Code) 8, 13,	—	MSC.48(66)- (LSA Code) IV, V,	—	ISO 25862 (2009), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).
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									
A.1/4.29	Voyage data recorder (VDR)	—	Reg. V/18,	—	Reg. V/20,	—	IMO Res. A.694 (17),	—	IMO Res. MSC.36(63)- (1994 HSC	—	IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008),
		—	Reg. V/20,	—	IMO Res. A.694 (17),	—	IMO Res. MSC.36(63)- (1994 HSC	—	IMO Res. MSC.97(73)- (2000 HSC Code) 8, 13,	—	IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).

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		Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13, IMO Res. MSC.191(79), IMO Res. MSC.333(90).	— IEC 61162 Series, IEC 61996-1 (2013-05). IEC 62288 Ed.1.0(2008)
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	— EN B + D 60945 B + E (2002) B + F 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).

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				B certificate shall indicate whether these options were tested].				
A.1/4.31	Gyro compass for high-speed craft	—	Reg. X/3, IMO Res. MSC36(63)-(1994 HSC Code) 13, IMO Res. MSC97(73)-(2000 HSC Code) 13.	—	IMO Res. A.694(17), IMO Res. A.821(19), IMO Res. MSC36(63)-(1994 HSC Code) 13, IMO Res. MSC97(73)-(2000 HSC Code) 13, Or, IMO Res. MSC191(79).	—	ISO 16328 (2001), EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 Series, EN 62288 (2008). 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. MSC36(63)-(1994 HSC	—	Reg. V/19, IMO Res. A.694(17), IMO Res. MSC36(63)-(1994	—	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008),	B + D B + E B + F G

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			Code) 13, IMO Res. — MSC.97(73)- (2000 HSC — Code) 13.	HSC — Code) 13, IMO — Res. — MSC.74(69), IMO — Res. — MSC.97(73)- (2000 Or, HSC — Code) 13, IMO Res. — MSC.191(79), ITU- R M. 1371-4(2010).	EN 61162 Series, EN 61993-2 (2013), EN 62288 (2008). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 Series, IEC 61993-2 (2012), IEC 62288 Ed.1.0(2008).
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 B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 Series, EN 62065 (2002), EN 62288 (2008). Or, IEC 60945 (2002)

Note:
ITU-R M.
1371-4(2010)
shall only be
applicable in
accordance
with
requirements
of IMO
Res.MSC.74(69).

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						including IEC 60945 Corrigendum 1 (2008), — IEC 61162 Series, — IEC 62065 (2002), — IEC 62288 Ed.1.0(2008).
[^{XI} 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. 1177-4(04/11).	— EN B + D 60945B + E (2002)B + F 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).

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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. 1177-4(04/11). Or, —	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 Series, IEC 62288 (2008), EN 62388 (2008). 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 including
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),	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 Series, IEC 62288 (2008), EN 62388 (2008). 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 including

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				—	ITU-R M.1177-4(04/11).	—	EN 62388 (2008).	
						—	IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008),	
						—	IEC 61162 Series,	
						—	IEC 62288 Ed.1.0(2008).	
						—	IEC 62388 Ed.1.0(2007).	
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.1177-4(04/11).	—	EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 Series, EN 62288 (2008), EN 62388 (2008).	
				—	IMO Res. MSC.191(79),	—	IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008),	
				—	IMO Res. MSC.192(79),	—	IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008),	
				—	ITU-R M.1177-4(04/11).	—	IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008),	

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			MSC36(63)- (1994 HSC Code)— 13, IMO Res. MSC97(73)- (2000 HSC Code)— 13.	HSC Code) 13, IMO Res. MSC97(73)- (2000 HSC Code) 13. MSC164(78).		including IEC 60945 Corrigendum 1 (2008), Or, ISO 8729-1 (2010), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).
A.1/4.40	Heading control system for high speed craft	— — —	Reg. X/3, IMO Res. MSC36(63)- (1994 HSC Code) 13, IMO Res. MSC97(73)- (2000 HSC Code) 13.	IMO Res. A.694(17), IMO Res. A.822(19), IMO Res. MSC36(63)- (1994 HSC Code) 13, IMO Res. MSC97(73)- (2000 HSC Code) 13, IMO Res. MSC191(79).	— — —	ISO B + D 16329B + E (2003)B + F EN G 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),

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						IEC 61162 series, IEC 62288 Ed.1.0(2008).
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 B + D 22090 B + E (2004) B + F 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,

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					—	IEC 62288 Ed.1.0(2008).
A.1/4.42	Searchlight for high speed craft	—	Reg. X/3, — IMO Res. — MSC36(63)- (1994 HSC Code) 13, — IMO Res. — MSC97(73)- (2000 HSC Code) 13.	—	IMO Res. A.694(17), — IMO Res. MSC36(63)- (1994 HSC Code) 13, — IMO Res. MSC97(73)- (2000 HSC Code) 13.	— ISO B + D 17884B + E (2004)B + F EN G 60945 (2002) including IEC 60945 Corrigendum 1 (2008). — ISO 17884 (2004), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).
A.1/4.43	Night vision equipment for high speed craft	—	Reg. X/3, — IMO Res. — MSC36(63)- (1994 HSC Code) 13, — IMO Res. — MSC97(73)- (2000 HSC Code) 13.	—	IMO Res.A.694(17), — IMO Res. — MSC36(63)- (1994 HSC Code) 13, — IMO Res. MSC94(72), — IMO Res. MSC97(73)- (2000 HSC Code) 13, — IMO Res. MSC191(79).	— ISO B + D 16273B + E (2003)B + F EN G 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 62288 (2008). — ISO 16273 (2003), IEC 60945 (2002) including IEC

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											60945 Corrigendum 1 (2008), IEC 62288 Ed.1.0(2008).
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.	—	EN B + D 60945 (2002) B + F including IEC 60945 Corrigendum 1 (2008), IEC 61108-4 (2004), EN 61162 series. IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61108-4 (2004), IEC 61162 series.				
A.1/4.45	Chart facilities for shipborne radar	Item deleted, as it is covered by A.1/4.38									
A.1/4.46	Transmitting heading device THD (Gyroscopic method)	—	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)- (1994 HSC	—	Reg. V/19, IMO Res. A.694 (17), IMO Res. MSC.36(63)- (1994 HSC	—	ISO B + D 22090 (2002) B + F including Corr.1 (2005), EN 60945 (2002)				

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		—	Code) 13, IMO Res. MSC.97(73)- (2000 HSC Code) 13.	(1994 HSC Code) 13, IMO Res. MSC.97(73)- (2000 HSC Code) 13, IMO Res. MSC.46(73), IMO Res. MSC.191(79).	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).
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 B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 61996-2 (2008), EN 62288 (2008).

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					Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 series, — IEC 61996-2 (2007), — IEC 62288 Ed.1.0(2008).			
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.1045(27) — IMO MSC/Circ.773.	—	IMO Res.A.1045(27), — ISO 799 (2004).	B + D B + F G
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,	—	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61108-1 (2003), — EN 61108-4 (2004), — EN 61162 series, — EN 62288 (2008).	B + D B + E B + F G

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						IEC 61108-2 (1998), IEC 61108-4 (2004), IEC 61162 series, IEC 62288 Ed.1.0(2008).	
A.1/4.52	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 B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), ISO 25861 (2007). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), ISO 25861 (2007).
A.1/4.53	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	—	IMO Res. A.694(17), IMO Res. MSC.36(63)- (1994 HSC Code) 13, IMO Res. MSC.97(73)- (2000 HSC	—	ISO B + D 8729-B + E (2009)B + F EN G 60945 (2002) including IEC 60945 Corrigendum 1 (2008),

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			HSC Code) 13.	—	Code) 13, IMO Res. MSC 164(78), ITU-R M 1176-1 (02/13)	—	ISO 8729-2 (2009), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).
A.1/4.54	Bearing Device	—	Reg. V/18.	—	Reg. V/19.	—	ISO B + D 25862B + E (2009)B + F EN G 60945 (2002) including IEC 60945 Corrigendum 1 (2008), Or, — ISO 25862 (2009), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).
A.1/4.55	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	—	EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61097-14 (2010). IEC 60945

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				M. 1371-4(2010).	(2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-14 (2010).	
A.1/4.56	Galileo Receiver	—	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.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).	EN B + D 60945B + E (2002)B + F 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).
A.1/4.57	Bridge Navigational Watch Alarm System (BNWAS)	—	Reg. V/18.	—	IMO Res. A.694(17), EN B + D 60945B + E (2002)B + F including IEC	

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			—	IMO Res. MSC.128(75),	—	60945 Corrigendum 1 (2008),
			—	IMO Res. MSC.191(79).	—	EN 61162 Series, EN 62288 (2008),
					Or,	
					—	IEC 62616(2010) including IEC 62616 Corrigendum 1 (2012).
					—	IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008),
					—	IEC 61162 Series, IEC 62288 Ed.1.0(2008),
					—	IEC 62616(2010) including IEC 62616 Corrigendum 1 (2012).
A.1/4.58 Refer to note c) of this Annex A.1	Sound reception system	—	Reg. V/18,	—	Reg. V/19,	EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008),
		—	Reg. X/3,	—	IMO Res. A.694(17),	
		—	IMO Res. MSC.36(63)- (1994 HSC Code),	—	IMO Res. MSC.36(63)- (1994	

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		—	IMO Res. MSC.97(73)- (2000 HSC Code)	—	HSC Code), IMO Res. MSC.86(70), IMO Res. MSC.97(73)- (2000 HSC Code), IMO Res. MSC.191(79).	—	EN 61162 series, EN 62288 (2008), ISO 14859 (2012). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008), ISO 14859 (2012).
A.1/4.59 Ex 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.97(73)- (2000 HSC Code) 13, Or, IMO Res. MSC.191(79),	—	EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008), IEC 61924-2 (2012). IEC 60945 (2002) including IEC

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			—	IMO Res. MSC 252(83), 1	60945 Corrigendum
			—	IMO Res. MSC 302(83) - (Bridge Alert Management, (BAM)).	(2008), IEC 61162 series, IEC 62288 Ed. 1.0 (2008), IEC 61924-2 (2012).

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:

- IEC 61162-1 ed4.0 (2010-11) - Part 1: Single talker and multiple listeners
- IEC 61162-2 ed1.0 (1998-09) - Part 2: Single talker and multiple listeners, high-speed transmission
- IEC 61162-3 ed1.1 Consol. with am1 (2010-11) - Part 3: Serial data instrument network
- IEC 61162-3 ed1.0 (2008-05) - Part 3: Serial data instrument network
 - IEC 61162-3-am1 ed1.0 (2010-06) Amendment 1 — Part 3: Serial data instrument network
- IEC 61162-450 ed1.0 (2011-06) - Part 450: Multiple talkers and multiple listeners — Ethernet interconnection

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

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

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				—	ITU-R M.4890, (10/95),	V1.3.1 (2010-09).
				—	ITU-R M.493-13 (10/09),	IMO MSC/Circ.862, IEC 60945 (2002)
				—	ITU-R M.541-9 (05/04),	including IEC 60945
				—	ITU-R M.689-2 (09/94),	Corrigendum 1 (2008), IEC 61097-3 (1994), IEC 61097-7 (1996), IEC 61162 series.
A.1/5.2	VHF DSC watch-keeping receiver	—	Reg. IV/14,	—	Reg. IV/7,	EN B + D 60945B + E (2002)B + F
		—	Reg. X/3,	—	Reg. X/3,	including IEC 60945
		—	IMO Res. MSC.36(63)- (1994)	—	IMO Res. A.694(17),	Corrigendum 1 (2008),
		—	HSC Code) 14,	—	IMO Res. A.803(19),	EN 61162 series,
		—	IMO Res. MSC.97(73)- (2000)	—	MSC.36(63)- (1994)	ETSI EN 300 338-1
			HSC Code) 14.	—	HSC Code) 14,	V1.3.1 (2010-02),
				—	IMO Res. MSC.97(73)- (2000)	ETSI EN 300 338-2
				—	HSC Code) 14,	V1.3.1 (2010-02),
				—	IMO Res. COMSAR Circ.32,	ETSI EN 301033

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			—	ITU-R M.489-2 (10/95),	—	ITU-R M.493-13 (10/09),	—	ITU-R M.541-9 (05/04).	—	V1.3.1 (2010-09), ETSI EN 301 843-2 V1.2.1 (2004-06), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-3 (1994), IEC 61097-8 (1998), IEC 61162 series.							
A.1/5.3	NAVTEX receiver	—	Reg. IV/14,	—	Reg. IV/7,	—	Reg. X/3,	—	IMO Res. MSC.36(63)- (1994)	—	IMO Res. MSC.97(73)- (2000)	—	IMO Res. HSC Code) 14.	—	IMO Res. MSC.148(77),	—	EN B + D 60945B + E (2002)B + F 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), IEC 60945 (2002)

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			—	IMO COMSAR Circ.32,		including IEC 60945 Corrigendum 1 (2008), IEC 61097-6 (2005-12).
			—	ITU- R M.540-2 (06/90),		
			—	ITU- R M.625-3 (10/95).		
A.1/5.4	EGC receiver	—	Reg. IV/14,	Reg. IV/7,	—	EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), ETSI ETS 300460 Ed.1 (1996-05), ETSI ETS 300 460/ A1 (1997-11), ETSI EN 300829 V1.1.1 (1998-03), ETSI EN 301 843-1 V1.3.1 (2012-08), Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008),
		—	Reg. X/3,	Reg. X/3,		
		—	IMO Res. MSC.36(63)- (1994	IMO Res. A.570(14),		
		—	HSC Code) 14,	IMO Res. A.694(17),		
		—	IMO Res. MSC.97(73)- (2000	IMO Res. MSC.36(63)- (1994		
			HSC Code) 14.	HSC Code) 14,		
				IMO Res. MSC.97(73)- (2000		
				HSC Code) 14,		
				IMO Res. MSC.306(87),		
				IMO COMSAR Circ.32.		

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						IEC 61097-4 (2007).
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(47), IMO Res. A.700(47), IMO Res. A.806(19), IMO Res. MSC.36(63)-(1994 HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14, 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),	EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 Series, ETSI ETS 300067 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 300067 Ed.1 (1990-11), ETSI ETS 300 067/ A1 Ed.1 (1993-10).

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				—	ITU-R M.688 (06/90).		
A.1/5.6	406 MHz EPIRB (COSPAS-SARSAT)	—	Reg. IV/14,	—	Reg. IV/7,	—	IMO B + D MSC/B + E
		—	Reg. X/3,	—	Reg. X/3,	—	Circ.862, F EN
		—	IMO Res. MSC36(63)-(1994 HSC Code) 14,	—	IMO Res. A.662(16),	—	60945 (2002) including IEC 60945 Corrigendum 1
		—	IMO Res. MSC97(73)-(2000 HSC Code) 14.	—	IMO Res. A.694(17),	—	(2008), ETSI EN 300066 V 1.3.1 (2001-01).
				—	IMO Res. MSC36(63)-(1994 HSC Code) 14,	—	IMO MSC/ Circ.862, IEC 60945 (2002) including IEC 60945 Corrigendum 1
				—	IMO Res. MSC97(73)-(2000 HSC Code) 14,	—	(2008), IEC 61097-2 (2008),
				—	COMSAR Circ.32,	—	Note: IMO MSC/ Circ. 862 is applicable only to the optional remote activation device, not
				—	ITU-R M.633-3 (05/04),	—	
				—	ITU-R M.690-1 (10/95).	—	

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			—	IMO COMSAR Circ.32, — ITU- R M.493-13 (10/09), — ITU- R Or, M.541-9 (05/04), — ITU- R M.1173 (10/95).		V1.2.1 (2010-09), ETSI EN 301 843-5 V1.1.1 (2004-06), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61097-3 (1994), — IEC 61097-8 (1998), — IEC 61162 series.
A.1/5.12	Inmarsat-B SES <i>Note:</i> The service will be discontinued on and after 31 December 2014.	—	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 Or, Res. — MSC.36(63)- (1994 HSC Code)— 14, — IMO Res. MSC.97(73)- (2000 HSC	IMO B + D MSC/B + E Circ B + F 862, EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). IMO MSC/ Circ 862, IEC 60945 (2002) including IEC 60945 Corrigendum

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				Code) 14, IMO MSC/ Circ.862, IMO COMSAR Circ.32.	1 (2008).
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) Or, HSC Code) 14, IMO MSC/ Circ.862,	IMO B + D MSC/B + E Circ.862+ F EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ETSI ETS 300460 Ed.1 (1996-05), ETSI ETS 300 460/ A1 (1997-11), ETSI EN 300829 V1.1.1 (1998-03), ETSI EN 301 843-1 V1.3.1 (2012-08), IEC 60945 (2002) including IEC 60945

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			—	ITU-R M.493-13 (10/09),	—	V1.3.1 (2011-01), ETSI EN 301 843-5 V1.1.1 (2004-06),
			—	ITU-R M.541-9 (05/04),	—	IMO MSC/Circ.862,
			—	ITU-R M.625-3 (10/95),	—	IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008),
			—	ITU-R M.1173 (10/95).	—	IEC 61097-3 (1994), IEC 61097-9 (1997), IEC 61162 series.
A.1/5.15	MF/HF DSC scanning watch keeping receiver	—	Reg. IV/14,	Reg. IV/10,	—	EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ETSI EN 300 338-1 V1.3.1 (2010-02), ETSI EN 300 338-2
		—	Reg. X/3,	Reg. X/3,	—	
		—	IMO Res. MSC.36(63)- (1994)	IMO Res. A.694(17),	—	
		—	HSC Code) 14,	IMO Res. A.806(19),	—	
		—	IMO Res. MSC.97(73)- (2000)	IMO Res. MSC.36(63)- (1994)	—	
		—	HSC Code) 14.	HSC Code) 14,	—	
		—		IMO Res. MSC.97(73)- (2000)	—	
		—		HSC	—	

				Code) 14, — IMO — COMSAR Circ.32, — ITU- R M.493-43 (10/09), — ITU- R M. 541-9 (05/04) or, — — — —	V1.3.1 (2010-02), ETSI EN 301033 V1.3.1 (2010-09), ETSI EN 301 843-5 V1.1.1 (2004-06). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-3 (1994), IEC 61097-8 (1998), IEC 61162 series.
A.1/5.16	Aeronautical two way VHF radio telephone apparatus	Moved to A.2/5.8			
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)	— Reg. III/6, — IMO Res. A.694(17), — IMO Res. A.809(19), — IMO Res. MSC.36(63)- (1994) HSC Code)	— EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), ETSI EN 300225 V1.4.1 (2004-12),	

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			HSC Code) 14.	—	8, 14, IMO Res. MSC.97(73)- (2000) HSC Code) 8, 14, IMO Res. MSC.149(77), ITU-R M.489-2 (10/95).	—	ETSI EN 301 843-2 V1.2.1 (2004-06). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-12 (1996).
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 B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), ETSI EN 301466 V1.1.1 (2000-10), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-12 (1996).
A1/5.19	Inmarsat-F77	—	Reg. IV/14, Reg. X/3,	—	Reg. IV/10, IMO Res.	—	IMO B + D MSC/B + E Circ.862, F EN 60945

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		—	IMO Res. MSC.36(63)- (1994 HSC Code) 14,	A.570 (14), IMO Res. A.808 (19),	(2002) including IEC 60945 Corrigendum 1 (2008),
		—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	IMO Res. A.694 (17), IMO Or, Res. — MSC.36(63)- (1994 HSC Code) 14,	IEC 61097-13 (2003). IMO MSC/ Circ.862, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-13 (2003).
		—		IMO Res. MSC.97(73)- (2000 HSC Code) 14,	IEC 61097-13 (2003).
		—		IMO MSC/ Circ.862,	
		—		IMO COMSAR Circ.32.	

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),	EN 14744 (2005) including AC (2006), B + D B + E B + F G

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			—	IMO Res. MSC 253(83)	—	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).

7. Bulk carrier safety equipment

No items in Annex A.1.

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	Water level detectors	—	Reg. II-1/22-1,	Reg. II-1/25,	B + D
		—	Reg. II-1/25,	Reg. XII/12,	B + F
		—	Reg. XII/12.	IMO Res.A.1021(26)	including IEC 60092-504

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			—	IMO Res. MSC.188(79).	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.
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ANNEX A.2

**EQUIPMENT FOR WHICH NO DETAILED TESTING
STANDARDS EXIST IN INTERNATIONAL INSTRUMENTS**

1. **Life-saving appliances**

Column 4 : IMO MSC/Circular 980 should 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,	IMO Res. MSC.48(66)-	

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		—	Reg. X/3.	(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/13,
		—	Reg. III/34.	—	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 & 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),

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			—	IMO Res. MSC.97(73)-(2000 HSC Code),	
			—	IMO MSC/Circ.808.	

2. Marine pollution prevention

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	NOx analyser of Chemiluminescent detector (CLD) or heated chemiluminescent detector type (HCLD) type for use in on board direct measurement	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		

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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	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	Moved to A.1/3.49			

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	water-spraying fire-extinguishing systems for special category spaces, ro-ro cargo spaces, ro-ro spaces and vehicle spaces						
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					
A.2/3.8	Electric safety lamp	—	Reg. II-2/10,	—	Reg. II-2/10,	—	IEC 60079 series.
		—	Reg. X/3,	—	IMO Res. MSC.36(63)-		
		—	IMO Res. MSC.98(73)-		(1994 HSC Code)		
			(FSS Code) 3.		7,		

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			—	IMO Res. MSC.97(73)-(2000 HSC Code) 7,		
			—	IMO Res. MSC.98(73)-(FSS Code), 3.		
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	Moved to A.1/3.45				

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	extinguishing systems for machinery spaces and cargo pump rooms	
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.

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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	Moved to A.1/3.67					
A.2/3.24	Portable Foam Applicator Units	—	Reg. II-2/10,	—	Reg. II-2/10,		
		—	Reg. II-2/20,	—	Reg. II-2/20,		
		—	Reg. X/3.	—	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.		
A.2/3.27	Fixed Gas Fire	—	Reg. II-2/10,	—	Reg. II-2/10,	Electrical Automatic	

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Extinguishing Systems (CO ₂) components.	—	Reg. X/3.	—	Reg. II-2/20	control and delay devices: EN 12094-1 (2003).
	—		—	IMO Res. MSC 36(63)- (1994)	Non-electrical automatic control and delay devices: EN 12094-2 (2003).
	—		—	HSC Code 7, IMO Res. MSC 97(73)- (2000)	Manual triggering and stop devices: EN 12094-3 (2003).
	—		—	HSC Code 5, IMO Res. MSC 131 (2000)	Container valve assemblies and their actuators: EN 12094-4 (2004).
	—		—	IMO Res. MSC 17 (2000)	High and low pressure selector valves and their actuators: EN 12094-5 (2006).
	—		—	IMO Res. MSC 131 (2000)	Non-electrical disable devices: EN 12094-6 (2006).
	—		—	IMO Res. MSC 17 (2000)	Nozzles for CO ₂ systems: EN 12094-7 (2000) including

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			<p>A1 (2005).</p> <p>Connectors: — EN 12094-8 (2006).</p> <p>Pressure gauges and pressure switches: — EN 12094-10 (2003).</p> <p>Mechanical weighing devices: — EN 12094-11 (2003).</p> <p>Check valves and non- return valves: — EN 12094-13 (2001) including AC (2002).</p> <p>Odorizing devices for CO₂ low pressure systems: — EN 12094-16 (2003).</p>
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	Moved to A.1/3.58	

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	Systems components for Machinery Spaces and Tanker Deck Protection.					
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,	
		—	Reg. II-2/19.	—	Reg. II-2/19.	
A.2/3.32	Dry chemical powder extinguishing systems	Moved to A.1/3.62				
A.2/3.33 New item	Fire hoses with diameter > 52 mm	—	Reg. II-2/10,	—	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.	

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:

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- IEC 61162-1 ed4.0 (2010-11) - Part 1: Single talker and multiple listeners
- IEC 61162-2 ed1.0 (1998-09) - Part 2: Single talker and multiple listeners, high-speed transmission
- IEC 61162-3 ed1.1 Consol. with am1 (2010-11) - Part 3: Serial data instrument network
- IEC 61162-3 ed1.0 (2008-05) - Part 3: Serial data instrument network
 - IEC 61162-3-am1 ed1.0 (2010-06) Amendment 1 — Part 3: Serial data instrument network
- IEC 61162-450 ed1.0 (2011-06) - Part 450: Multiple talkers and multiple listeners — Ethernet interconnection

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

- EN 61162-1 (2011) - Part 1: Single talker and multiple listeners
- EN 61162-2 (1998) - Part 2: Single talker and multiple listeners, high-speed transmission
- EN 61162-3 (2008) - Part 3: Serial data instrument network
 - EN 61162-3-am1 (2010) Amendment 1 — Part 3: Serial data instrument network
- EN 61162-450 (2011) - Part 450: Multiple talkers and multiple listeners — Ethernet interconnection

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.2/4.1	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			

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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						
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						
A.2/4.11	Combined GPS/GLONASS equipment	—	Reg. V/18,	—	Reg. V/19,	—	EN 60945 (2002),	including IEC 60945 Corrigendum 1 (2008),
		—	Reg. X/3,	—	IMO Res. A.694(17),	—	EN 61108-1 (2003),	
		—	IMO Res. MSC.36(63)-(1994 HSC Code),	—	IMO Res. MSC.36(63)-(1994 HSC Code),	—		
		—	IMO Res. MSC.97(73)-(2000	—	IMO Res. MSC.97(73)-	—		

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		HSC Code).	(2000—	EN	
		—	HSC Code),	61108-2	(1998),
		—	IMO Res.	EN	61162
		—	MSC 115(73),	series,	
			IMO Res.	EN	62288
			MSC 191(79).	(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			
A.2/4.15	Integrated navigation system	Moved to A.1/4.59			
A.2/4.16	Bridge equipment system	Deliberately left blank			
A.2/4.17	Radar target enhancer	Moved to A.1/4.53			

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A.2/4.18	Sound reception system	Moved to A.1/4.58					
A.2/4.19	Magnetic compass for high speed craft	—	Reg. X/3,	—	IMO Res. A.382(X),	—	ISO 1069 (1973),
		—	IMO Res. MSC.36(63)-(1994 HSC Code),	—	IMO Res. A.694(17),	—	ISO 25862(2009), EN 60945 (2002)
		—	IMO Res. MSC.97(73)-(2000 HSC Code).	—	IMO Res. MSC.36(63)-(1994 HSC Code),	—	including IEC 60945 Corrigendum 1 (2008).
		—		—	IMO Res. MSC.97(73)-(2000 HSC Code).	—	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. A.694(17),	—	EN 60945 (2002)
		—	IMO Res. MSC.36(63)-(1994 HSC Code),	—	IMO Res. MSC.36(63)-(1994 HSC Code),	—	including IEC 60945 Corrigendum 1 (2008),
		—	IMO Res. MSC.97(73)-(2000 HSC Code).	—	IMO Res. MSC.97(73)-(2000 HSC Code),	—	EN 61162 series, EN 62288 (2008).
		—		—	IMO Res. MSC.191(79).	Or,	IEC 60945 (2002)

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								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						
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). IEC 60945 (2002) including IEC 60945 Corrigendum	

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						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				
A.2/4.28	Propeller revolution indicator	Moved to A.1/4.21				

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A.2/4.29	Pitch indicator	Moved to A.1/4.22					
A.2/4.30	Bridge equipment system	—	Reg. V/18,	—	Reg. V/19,	—	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 Series, EN 62288 (2008).
		—	Reg. X/3,	—	IMO Res. A.694 (17),	—	IEC 60945 Corrigendum 1 (2008), EN 61162 Series, EN 62288 (2008).
		—	IMO Res. MSC.36(63)- (1994 HSC Code) 13,	—	IMO Res. MSC.97(73)- (2000 HSC Code) 13.	—	IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 Series, 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					
A.2/4.33	Track control system (working at ship's speed from 30 knots and above)	Deliberately left blank					
A.2/4.34	Equipment with Long	—	Reg. V/19+1,	—	Reg. V/19+1,	—	EN 60945

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	Range Identification and Tracking (LRIT) capability	—	IMO Res. A.694(17), IMO Res. A.813(19), IMO Res. — MSC 202(81), IMO Res. Or, MSC 241(81), IMO Res. MSC 263(84), IMO MSC.1/Circ.1307.	(2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 Series. 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		

5. Radiocommunication equipment

Notes applicable to section 5: Radiocommunication equipment.

- Column 5 : — IEC 61162 series refer to the following reference standards for Maritime navigation and radiocommunication equipment and systems — Digital interfaces:
- IEC 61162-1 ed4.0 (2010-11) - Part 1: Single talker and multiple listeners
 - IEC 61162-2 ed1.0 (1998-09) - Part 2: Single talker and multiple listeners, high-speed transmission
 - IEC 61162-3 ed1.1 Consol. with am1 (2010-11) - Part 3: Serial data instrument network
 - IEC 61162-3 ed1.0 (2008-05) - Part 3: Serial data instrument network
 - IEC 61162-3-am1 ed1.0 (2010-06) Amendment 1 — Part 3: Serial data instrument network
 - IEC 61162-450 ed1.0 (2011-06) - Part 450: Multiple talkers and multiple listeners — Ethernet interconnection

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

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

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- EN 61162-2 (1998) - Part 2: Single talker and multiple listeners, high-speed transmission
- EN 61162-3 (2008) - Part 3: Serial data instrument network
 - EN 61162-3-am1 (2010) Amendment 1 — Part 3: Serial data instrument network
- EN 61162-450 (2011) - Part 450: Multiple talkers and multiple listeners — Ethernet interconnection

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). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	

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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). 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). IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).
A.2/5.5	Distress alarm or alert panel	—	Reg. IV/14,	—	Reg. IV/6,	—	EN 60945 (2002)

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		—	Reg. X/3,	—	IMO Res. MSC.36(63)-(1994 HSC Code),	—	IMO Res. MSC.97(73)-(2000 HSC Code).	including IEC 60945 Corrigendum 1 (2008).
A.2/5.6	L- band EPIRB (INMARSAT)	Deliberately left blank						
A.2/5.7	Ship security alert system	—	Reg. XI-2/6,	—	Reg. EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008),	—	Reg. 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	—	Reg. IV/14,	—	Reg. IV/7,	—	EN 60945 (2002)	

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telephone apparatus	—	Reg. X/3,	—	IMO Res. A.694(17),	including IEC 60945
	—	IMO Res. MSC.36(63)- (1994 HSC Code) 14,	—	IMO Res. MSC.36(63)- (1994 HSC Code) 14,	60945 Corrigendum 1 (2008).
	—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. MSC.97(73)- (2000 HSC Code) 14,	ETSI EN 301 688 V1.1.1 (2000-07).
	—		—	IMO Res. MSC.80(70),	IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).
	—		—	IMO COMSAR Circ.32,	ETSI EN 301 688 V1.1.1 (2000-07).
	—		—	ICAO Convention, Annex 10, Radio - Regulations.	

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	COLREG 72	EN 60945 (2002)

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		Annex III/3.	—	Annex III/3, IMO Res. A.694(17).	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).
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7. Bulk carrier safety equipment

No.	Item designation	Regulation SOLAS 74, as amended, where	Regulations of SOLAS 74, as amended, and the	Testing standards	Modules for conformity assessment
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1	2	3	4	5	6
A.2/7.1	Loading instrument	— Reg. XII/11, 1997 — SOLAS Conference Res. 5.	relevant resolutions and circulars of the IMO, as applicable	— 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		

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			Code)	
			12.	

Editorial Information

- X1** Substituted by [Corrigendum to Commission Directive 2014/93/EU of 18 July 2014 amending Council Directive 96/98/EC on marine equipment](#) (Official Journal of the European Union L 220 of 25 July 2014).

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- (1) OJ L 46, 17.2.1996, p. 25.
- (2) OJ L 312, 10.11.2012, p. 1.
- (3) OJ L 304, 14.11.2013, p. 1.