

Commission Directive 2013/52/EU of 30 October 2013 amending Council Directive 96/98/EC on marine equipment (Text with EEA relevance) (repealed)

COMMISSION DIRECTIVE 2013/52/EU

of 30 October 2013

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(Text with EEA relevance) (repealed)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) In 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.

Article 2

Equipment listed in column 1 of Annex A.1 as having been transferred from Annex A.2 which was manufactured before 4 December 2014 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 4 December 2016.

Article 3

1 Member States shall adopt and publish, by 4 December 2014 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 4 December 2014.

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.

Done at Brussels, 30 October 2013.

For the Commission

The President

José Manuel BARROSO

ANNEX

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

General note for Annex A: 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).

List of acronyms used

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

ANNEX A.1

EQUIPMENT FOR WHICH DETAILED TESTING STANDARDS ALREADY EXIST IN INTERNATIONAL INSTRUMENTS

Notes applicable to the whole of Annex A.1

Status: This is the original version (as it was originally adopted).

- 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 2011/75/EU⁽²⁾ may apply (7th Amendment of MED Annex A).
- c) Column 1: Article 2 of Commission Directive 2012/32/EU⁽³⁾ may apply (8th 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 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.1/1.1	Lifebuoys	— —	Reg. III/4, Reg. X/3. —	Reg. III/7, Reg. III/34, IMO Res.	— IMO Res. MSC 81(70). B + D B + E B + F

Status: This is the original version (as it was originally adopted).

A.1/1.3	Lifebuoys self-activating smoke signals	—	Reg. III/4, Reg. X/3.	—	Reg. III/7, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, II, IMO Res. MSC.97(73)-(2000 HSC Code) 8.	—	IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.4	Lifejackets	—	Reg. III/4, Reg. X/3.	—	Reg. III/7, Reg. III/22, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, II, IMO Res. MSC.97(73)-(2000 HSC Code) 8,	—	IMO Res. MSC.81(70).	B + D B + E B + F

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

Status: This is the original version (as it was originally adopted).

A.1/1.11	Line-throwing appliances	—	Reg. III/4, Reg. X/3.	—	Reg. III/18, Reg. III/34, IMO Res. MSC.36(63)- (1994 HSC Code) 8, IMO Res. MSC.48(66)- (LSA Code) I, VII, IMO Res. MSC.97(73)- (2000 HSC Code) 8.	—	IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.12	Inflatable liferafts	—	Reg. III/4, Reg. X/3.	—	Reg. III/13, Reg. III/21, Reg. III/26, Reg. III/31, Reg. III/34, IMO Res. MSC.36(63)- (1994 HSC Code) 8, IMO Res. MSC.48(66)- (LSA Code) I, IV, IMO Res. MSC.97(73)-	—	IMO Res. MSC.81(70).	B + D B + E B + F

					(2000 HSC Code) 8, IMO MSC/Circ.811.		
A.1/1.13	Rigid liferafts	—	Reg. III/4, Reg. X/3.	—	Reg. III/21, Reg. III/26, Reg. III/31, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IV, IMO Res. MSC.97(73)-(2000 HSC Code) 8, IMO MSC/Circ.811.	—	IMO Res. MSC.81(70), IMO MSC/Circ.1006.
A.1/1.14	Automatically self-righting liferafts	—	Reg. III/4, Reg. X/3.	—	Reg. III/26, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res.	—	IMO Res. MSC.81(70).

Status: This is the original version (as it was originally adopted).

				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.81(70).	B + D B + E B + F G
A.1/1.24	Liferaft launching appliances (Davits)	—	Reg. III/4, Reg. X/3.	—	Reg. III/12, Reg. III/16, Reg. III/34, IMO Res. MSC.36(63)- (1994 HSC Code) 8, IMO Res. MSC.48(66)-	—	IMO Res. MSC.81(70).	B + D B + E B + F G

					(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 B + F
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 MSC.1/Circ.1419.	IMO Res. MSC.81(70).	B + D B + E B + F

					(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(16). B + D B + E B + F
A.1/1.31	Survival craft two-way VHF radio telephone apparatus	Moved to A.1/5.17 and A.1/5.18					
A.1/1.32	9 GHz SAR transponder (SART)	Moved to A.1/4.18					
A.1/1.33	Radar reflector for lifeboats and rescue boats (passive)	—	Reg. III/4, Reg. X/3.	—	Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8,	—	EN ISO 8729 (1998), EN 60945 (2002) including IEC 60945 B + D B + E B + F

Status: This is the original version (as it was originally adopted).

			—	IMO Res. MSC 48(66)- (LSA Code) I, IV, V,	Corrigendum 1 (2008). Or, EN ISO 8729 (1998),
			—	IMO Res. MSC 97(73)- (2000 HSC Code) 8,	IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, ISO 8729-1 (2010),
			—	IMO Res. MSC 164(78).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, ISO 8729-1 (2010),
			—		IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).
A.1/1.34	Compass for lifeboats and rescue boats	Moved to A.1/4.23			
A.1/1.35	Portable fire extinguishing equipment for lifeboats and rescue boats	Moved to A.1/3.38			

A.1/1.36	Lifeboat/ rescue boat propulsion engine	— —	Reg. III/4, Reg. X/3.	— —	Reg. III/34, IMO Res. MSC.48(66)- (LSA Code) IV, V.	— IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.37	Rescue boat propulsion engine- outboard motor	— —	Reg. III/4, Reg. X/3.	— —	Reg. III/34, IMO Res. MSC.48(66)- (LSA Code) V.	— IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.38	Searchlights for use in lifeboats and rescue boats	— —	Reg. III/4, Reg. X/3.	— — —	Reg. III/34, IMO Res. MSC.36(63)- (1994 HSC Code) 8, IMO Res. MSC.48(66)- (LSA Code) I, IV, V, IMO Res. MSC.97(73)- (2000 HSC Code) 8.	— IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.39	Open reversible liferrafts	— —	Reg. III/4, Reg. X/3.	—	IMO Res. MSC.36(63)- (1994 HSC Code) 8, Annex 10, IMO Res.	IMO Res. MSC.36(63)- (1994 HSC Code) Annex 10, IMO Res.	B + D B + F

Status: This is the original version (as it was originally adopted).

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

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
----------	-----------------------------	---	--------------------------	---	--	---	---	----------------

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

					MEPC.177(58) IEC - 60945 (NOx Corrigendum Technical 1 code (2008). 2008), Or, IMO — IMO Res. Res. MEPC.198(62),MEPC.177(58) IMO - MEPC.1/ (NOx Circ.638. Technical code 2008), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).			
A.1/2.9	Equipment using other technological methods to limit SO _x emissions	Moved to A.2/2.4						
A.1/2.10 Refer to note b) of this Annex A.1	On board exhaust gas cleaning systems	—	IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4), IMO Res. MEPC.184(59).	—	IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4).	—	IMO Res. MEPC.184(59).	B + D B + E B + F G

3. Fire protection equipment

No	Item designation	Regulation SOLAS 74, as amended, where “type	Regulations of SOLAS 74, as amended, and the relevant	Testing standards	Modules for conformity assessment
----	------------------	--	---	-------------------	-----------------------------------

Status: This is the original version (as it was originally adopted).

		—	IMO Res. MSC.98(73)-(FSS Code) 3.	—	MSC.36(63)-(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 (2008) 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 HSC Code) 7, IMO Res. MSC.98(73)-(FSS Code) 3.	EN 443 (2008).	B + D B + E B + F

					(2000 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. X/3, IMO Res. MSC 98(73)-(FSS Code) 3.	—	Reg. II-2/10, IMO Res. MSC 36(63)-(1994 HSC Code) 7, IMO Res. MSC 97(73) (2000 HSC Code) 7, IMO Res. MSC 98(73)-(FSS Code) 3. And where the apparatus is for use in accidents with cargo: — IMO Res. MSC 4(48)-(IBC Code) 14, IMO Res. MSC 5(48)-(IGC Code) 14.	—	EN 136 (1998) including AC (2003), EN 137 (2006). And where the apparatus is used in accidents with cargo: ISO 23269-3(2011).
A.1/3.8	Compressed air line	—	Reg. X/3,	—	IMO Res.	—	EN 14593 (2005) B + D B + E B + F

	systems for machinery spaces and cargo pump-rooms	—	IMO Res. MSC.98(73)-(FSS Code) 7.	—	(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.	Appendix A.	
A.1/3.11	“A” & “B” Class divisions fire integrity (a) “A” class divisions, (b) “B” class divisions.	“A” Class: — Reg. II-2/3.2A” Class: — Reg. II-2/3.4- “B” Class: — Reg. II-2/3.4.	— Reg. II-2/3.2A” Class: — Reg. II-2/3.4- “B” Class: — Reg. II-2/3.4.	—	Reg. II-2/9, and, — Reg. II-2/3.2. IMO MSC/Circ.1120 IMO MSC.1/Circ.1435	IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.12	Devices to prevent the passage of flame into the cargo tanks in tankers	— Reg. II-2/4, — Reg. II-2/16.	— Reg. II-2/4, — Reg. II-2/16.	— Reg. II-2/4, — Reg. II-2/16	—	EN ISO 16852 (2010), ISO 15364 (2007), IMO MSC/Circ.677.	For equipment other than valves: B + D B + E B + F For valves: B + F
A.1/3.13	Non-combustible materials	— Reg. II-2/3, — Reg. X/3.	— Reg. II-2/3, — Reg. X/3.	— Reg. II-2/3, — Reg. II-2/5,	—	IMO Res. MSC.307(88)-(2010	B + D B + E B + F

Status: This is the original version (as it was originally adopted).

			—	Reg. II-2/9,	FTP Code).	
			—	IMO Res. MSC.36(63)-(1994 HSC Code) 7,		
			—	IMO Res. MSC.97(73)-(2000 HSC Code) 7.		
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, (d) metallic pipe components with resilient and elastomeric seals.	—	Reg. II-2/4, Reg. X/3.	—	Reg. II-2/4, fittings: IMO Res. MSC.36(63)-(1994 HSC Code) 7, 10, IMO Res. MSC.97(73)-(2000 HSC Code) 7, 10, IMO Res. MSC.100/100 Pipes and fittings: IMO Res. A.753(18). Valves: ISO 10497 (2010). Flexible pipe assemblies: EN ISO 15540 (2001). EN ISO 15541 (2001). Metallic pipe components with resilient and elastomeric seals. ISO 19921 (2005),	B + D B + E B + F

					—	ISO 19922 (2005).	
A.1/3.16	Fire Doors	—	Reg. II-2/9.	—	Reg. II-2/9.	IMO Res. MSC.307(88)-(2010 FTP Code). IMO MSC.1/Circ.1319.	B + D B + E
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.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.18	Surface materials and floor coverings with low flame-spread characteristics (a) decorative veneers, (b) paint systems, (c) floor coverings, (d) pipe insulation covers,	— — —	Reg. II-2/3, Reg. II-2/5, Reg. II-2/6 for (a), (b), (c) Reg. II-2/9, for (e), (f)	— — — —	Reg. II-2/3, Reg. II-2/5, Reg. II-2/6, Reg. II-2/9, IMO Res. MSC.36(63)-(1994 HSC Code) 7,	IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F

Status: This is the original version (as it was originally adopted).

	(e) adhesives used in the construction of "A", "B" & "C" class divisions, (f) combustible 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-2/9, Reg. X/3.	—	Reg. II-2/3, Reg. II-2/9, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7.	IMO Res. MSC.307(88)-(2010 FTP Code). B + D B + E B + F
A.1/3.20	Upholstered furniture	—	Reg. II-2/3, Reg. II-2/5, Reg. II-2/9, Reg. X/3.	—	Reg. II-2/3, Reg. II-2/5, Reg. II-2/9, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC	IMO Res. MSC.307(88)-(2010 FTP Code). B + D B + E B + F

				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. MSC.307(88)- (2010 FTP Code). B + D B + E B + F	
A.1/3.22	Fire dampers	—	Reg. II-2/9.	—	Reg. II-2/9.	IMO Res. MSC.307(88)- (2010 FTP Code), B + D B + E B + F	
A.1/3.23	Non-combustible duct penetrations through “A” class divisions	Moved to A.1/3.26					
A.1/3.24	Electric Cable Transits through “A” class divisions	Moved to A.1/3.26(a)					
A.1/3.25	“A” and “B” class fire proof windows and side scuttles	—	Reg. II-2/9.	—	Reg. II-2/9, — IMO MSC/Circ.1120.	IMO Res. MSC.307(88)- (2010 FTP Code). B + D B + E B + F	
A.1/3.26	Penetrations through “A” class divisions	—	Reg. II-2/9.	—	Reg. II-2/9, — IMO MSC.1/	IMO Res. MSC.307(88)- (2010 FTP Code). B + D B + E B + F	

Status: This is the original version (as it was originally adopted).

	(a) electric cable transits,				Circ. 1276. (only applicable to (b))	FTP Code).		
	(b) pipe, duct, trunk, etc. penetrations.							
A.1/3.27	Penetrations through "B" class divisions	—	Reg. II-2/9.	—	Reg. II-2/9.	—	IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
	(a) electric cable transits,							
	(b) pipe, duct, trunk, etc. penetrations.							
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-2/7,	—	ISO 6182- (2004) Or, EN 12259-1 (1999) including A1 (2001), A2 (2004) and A3 (2006).	B + D B + E B + F
		—	Reg. II-2/10,	—	Reg. II-2/10,	—		
		—	Reg. X/3.	—	IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.44(65), IMO Res. MSC.97(73)-(2000 HSC Code) 7, IMO Res. MSC.98(73)-(FSS Code) 8, IMO MSC/Circ.912.	—		
A.1/3.29	Fire hoses	—	Reg. II-2/10,	—	Reg. II-2/10,	—	EN 14540 (2004)	B + D B + E B + F

		—	Reg. X/3.	—	IMO Res. MSC.36(63)- (1994 HSC Code) 7, IMO Res. MSC.97(73)- (2000 HSC Code) 7.	including A.1 (2007).
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 B + D 60945 B + E (2002) B + F including IEC 60945 Corrigendum 1 (2008) or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), IEC 60533 (1999), and as applicable to: a) Category 1: (safe area):

Status: This is the original version (as it was originally adopted).

					—	EN 50104 (2010),
					—	EN 60079-29-1 (2007).
				b)		Category 2: (explosive gas atmospheres):
					—	EN 50104 (2010),
					—	EN 60079-29-1 (2007),
					—	IEC 60079-0 (2011),
					—	EN 60079-1 (2007) including IEC 60079-1 Corrigendum 1 (2008),
					—	EN 60079-10-1 (2009),
					—	EN 60079-11 (2012),
					—	EN 60079-15 (2010),
					—	EN 60079-26 (2007).
A.1/3.31	Nozzles for fixed sprinkler systems, for high speed craft (HSC)	Item deleted as it is covered by A.1/3.9 and A.1/3.28				
A.1/3.32	Fire restricting materials (except furniture) for	—	Reg. X/3.	—	IMO Res. MSC.36(63)- (1994) HSC	— IMO Res. MSC.307(88)- (2010)
						B + D B + E B + F 307(88)-

	high speed craft			—	Code) 7, IMO Res. MSC.97(73)- (2000 HSC Code) 7.	FTP Code).	
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 B + F
A.1/3.34	Fire resisting divisions for high speed craft	—	Reg. X/3.	—	IMO Res. MSC.36(63)- (1994 HSC Code) 7, IMO Res. MSC.97(73)- (2000 HSC Code) 7.	— IMO Res. MSC.307(88)- (2010 FTP Code).	B + D B + E B + F
A.1/3.35	Fire doors on high speed craft	—	Reg. X/3.	—	IMO Res. MSC.36(63)- (1994 HSC Code) 7, IMO Res. MSC.97(73)- (2000 HSC Code) 7.	— IMO Res. MSC.307(88)- (2010 FTP Code).	B + D B + E B + F

Status: This is the original version (as it was originally adopted).

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 B + F
A.1/3.37	Penetrations through fire resisting divisions on high speed craft (a) electric cable transits, (b) pipe, duct, trunk etc. penetrations.	—	Reg. X/3.	—	IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7.	—	IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.38	Portable fire-extinguishing equipment for lifeboats and rescue boats	— — —	Reg. III/4, Reg. X/3, IMO Res. MSC.98(73)-(FSS Code) 4.	— — — —	Reg. III/34, IMO Res. A.951(23), IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IV, V, IMO Res. MSC.97(73)-	—	EN 3-7 (2004) including A1 (2007), EN 3-8 (2006) including AC (2007), EN 3-9 (2006) including AC (2007), EN 3-10 (2009).	B + D B + E B + F

					(2000 HSC Code) 8, IMO Res. MSC.98(73)-(FSS Code) 4, IMO MSC.1/Circ.1313.		
A.1/3.39	Nozzles for equivalent water-mist fire extinguishing systems for machinery spaces and cargo pump rooms	— —	Reg. II-2/10, Reg. X/3.	— — —	Reg. II-2/10, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7, IMO Res. MSC.98(73)-(FSS Code) 7, IMO MSC.1/Circ.1313.	IMO MSC/Circ.1165.	B + D B + E B + F
A.1/3.40	Low-location lighting systems (components only)	— —	Reg. II-2/13, IMO Res. MSC.98(73)-(FSS Code) 11.	— — —	Reg. II-2/13, IMO Res. A.752(48), IMO Res. MSC.98(73)-(FSS Code) 11.	IMO Res. A.752(48), Or, ISO 15370 (2010).	B + D B + E B + F
A.1/3.41	Emergency escape	—	Reg. II-2/13.	—	Reg. II-2/13,	ISO 23269	B + D B + E

A.1/3.42	Inert gas systems components	—	Reg. II-2/4.	—	Reg. II-2/4, IMO Res. A.567(14), IMO Res. MSC.98(73)-(FSS Code) 15, IMO MSC/Circ.353, IMO MSC/Circ.485, IMO MSC/Circ.731, IMO MSC/Circ.1120.	IMO MSC/Circ.353.	B + D B + E B + F G.
A.1/3.43	Nozzles for deep fat cooking equipment fire extinguishing systems (automatic or manual type).	— — —	Reg. II-2/1, Reg. II-2/10, Reg. X/3.	—	Reg. II-2/1, Reg. II-2/10, IMO Res. MSC.97(73)-(2000 HSC Code) 7.	ISO 15371 (2009).	B + D B + E B + F
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.307(88)-(2010 FTP Code).	B + D B + E B + F

				Code) 7, IMO Res. MSC.98(73)- (FSS Code) 5, IMO MSC.1/ Circ.1270, 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 MSC/Circ.670.	B + D B + E B + F

Status: This is the original version (as it was originally adopted).

A.1/3.48	Fixed water based local application fire fighting systems components for use in category "A" machinery spaces (Nozzles and performance tests).	—	Reg. II-2/10, Reg. X/3.	—	Reg. II-2/10, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7.	IMO MSC.1387. Circ.1387.	B + D B + E B + F
A.1/3.49	Fixed water-based fire-fighting systems for ro-ro spaces and special category spaces equivalent to that referred to in resolution A.123(V)	—	Reg. II-2/19, Reg. II-2/20, Reg. X/3.	—	Reg. II-2/19, Reg. II-2/20, IMO Res. A.123(V), IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7.	IMO MSC.1430. Circ.1430.	B + D B + E B + F
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,	—	Reg. II-2/7, Reg. X/3, IMO Res. MSC.98(73)-(FSS	—	Reg. II-2/7, IMO Res. MSC.36(61)-(1994 HSC Code) 7,	Control and indicating equipment. Electrical installations in ships: EN 54-2 (1997)	B + D B + E B + F

accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces	Code)	IMO Res. MSC.97(73)- (2000)	including AC(1999) and A1(2006).
(a) Control and indicating equipment	—	HSC Code) 7, IMO Res. MSC.98(73)- (FSS Code) 9,	Power supply equipment: EN 54-4 (1997) including AC(1999), A1(2002) and A2(2006).
(b) Power supply equipment	—	IMO Res. MSC.98(73)- (FSS Code) 9,	Power supply equipment: EN 54-4 (1997) including AC(1999), A1(2002) and A2(2006).
(c) Heat detectors — Point detectors	—	IMO Res. MSC.98(73)- (FSS Code) 9,	Heat detectors — Point detectors: EN 54-4 (1997) including AC(1999), A1(2002) and A2(2006).
(d) Smoke detectors: Point detectors using scattered light, transmitted light or ionization	—	IMO Res. MSC.98(73)- (FSS Code) 9,	Smoke detectors — Point detectors using scattered light, transmitted light or ionisation: EN 54-5 (2000) including A1(2002).
(e) Flame detectors: Point detectors	—	IMO Res. MSC.98(73)- (FSS Code) 9,	Flame detectors — Point detectors: EN 54-7 (2000) including A1(2002) and A2(2006).
(f) Manual call points	—	IMO Res. MSC.98(73)- (FSS Code) 9,	Manual call points: EN 54-7 (2000) including A1(2002) and A2(2006).
(g) Short circuit isolators	—	IMO Res. MSC.98(73)- (FSS Code) 9,	Short circuit isolators: EN 54-7 (2000) including A1(2002) and A2(2006).
(h) Input/output devices	—	IMO Res. MSC.98(73)- (FSS Code) 9,	Input/output devices: EN 54-7 (2000) including A1(2002) and A2(2006).
(i) Cables	—	IMO Res. MSC.98(73)- (FSS Code) 9,	Cables: EN 54-11 (2002) including A1(2005).

Status: This is the original version (as it was originally adopted).

						(2001) including A1(2005). Short circuit isolators: — EN 54-17 (2007) including AC(2007). Input/output devices: — EN 54-18 (2005) including AC(2007). Cables: — EN 60332-1-1 (2004), — IEC 60092-376 (2003). And, as applicable, electrical and electronic installations in ships: — IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), — IEC 60533 (1999).	
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.36(63)- (1994) HSC	— — —	EN 1866- (2007) Or, ISO 11601 (2008). B + D B + E B + F

Status: This is the original version (as it was originally adopted).

					<p>— EN 50104 (2010).</p> <p>b) Category 3: (explosive gas atmospheres)</p> <p>— EN 50104 (2010), IEC 60079-0 (2011), 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 – combination branchpipes PN 16:</p> <p>— EN 15182-1 (2007) including A1(2009), EN 15182-2 (2007) including A1(2009).</p> <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>

					—	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 (2001) including AC (2002).	B + D B + E B + F
A.1/3.57	Medium Expansion Foam Fire Extinguishing Systems components Fixed Deck Foam for Tankers	—	Reg. II-2/10.	—	Reg. II-2/10.8.1, IMO Res. MSC.98(73)-(FSS Code) 14, IMO MSC.1/Circ.1239, IMO MSC.1/Circ.1276.	IMO MSC.798.	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.112, IMO MSC.1/Circ.1312/ Corr.1.	B + D B + E B12,F

Status: This is the original version (as it was originally adopted).

				—	IMO MSC.1/ Circ.1313.		
A.1/3.59	Expansion Foam for Fixed Fire Extinguishing Systems for Chemical Tankers	— —	Reg. II-2/1, IMO Res. MSC.4(48)- (IBC Code).	— —	IMO Res. MSC.4(48)- (IBC Code), IMO MSC/ Circ.553.	— —	IMO MSC. Circ.1 B + D B + E B12,F IMO MSC.1/ Circ.1312/ Corr.1.
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. Circ.1 B + D B + E B + F 268.
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	—	Reg. II-2/10.	—	Reg. II-2/10.	—	IMO MSC. Circ.1 B + D B + E B + F 384.

	cargo pump rooms. Note: Inside air high expansion foam systems for the protection of machinery spaces and cargo pump rooms shall be tested with the approved concentrate to the satisfaction of the Administration						
A.1/3.62 Refer to note b) of this Annex A.1	Dry chemical powder extinguishing systems	—	Reg. II-2/1	—	Reg. II-2/1, IMO Res. MSC.5(48)-(IGC Code).	—	IMO MSC.1315. B + D B + E B + F
A.1/3.63 Refer to note c) 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. and for: Control and monitoring equipment. Electrical installations in ships: — EN 54-2 (1997) including AC(1999) and A1(2006). Power supply equipment: — EN 54-4 (1997)	—	IMO Res. MSC.98(73)- B + D B + E

Status: This is the original version (as it was originally adopted).

					<p>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: — IEC 60079-0 (2011).</p>		
A.1/3.64 Refer to note c) 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 Refer to note c) of this Annex A.1	Fixed hydrocarbon gas detection system	—	Reg. II-2/4.	—	Reg. II-2/4, IMO Res. MSC.98(73)- (FSS)	—	IMO B + D MSC. B + E Circ.1370,F IEC 60079-0 (2011),

				Code) — 16, IMO MSC.1/ Circ.1370.	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 c) 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 MSC. Circ.1168. B + D B + E B + F
A.1/3.67 Ex A.2/3.23	Helicopter facility foam fire-fighting appliances	—	Reg. II-2/18.	Reg. II-2/18, IMO MSC.1/ Circ.1431.	EN 13565-1 (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:

1. IEC 61162-1 ed4.0 (2010-11) - Part 1: Single talker and multiple listeners
2. IEC 61162-2 ed1.0 (1998-09) - Part 2: Single talker and multiple listeners, high-speed transmission
3. 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
4. IEC 61162-400 ed1.0 (2001-11) - Part 400: Multiple talkers and multiple listeners — Ship systems interconnection — Introduction and general principles

Status: This is the original version (as it was originally adopted).

- IEC 61162-401 ed1.0 (2001-11) - Part 401: Multiple talkers and multiple listeners — Ship systems interconnection — Application profile
- IEC 61162-402 ed1.0 (2005-09) - Part 402: Multiple talkers and multiple listeners — Ship systems interconnection — Documentation and test requirements
- IEC 61162-410 ed1.0 (2001-11) - Part 410: Multiple talkers and multiple listeners — Ship systems interconnection — Transport profile requirements and basic transport profile
- IEC 61162-420 ed1.0 (2001-11) - Part 420: Multiple talkers and multiple listeners — Ship systems interconnection — Companion standard requirements and basic companion standards
- IEC 61162-450 ed1.0 (2011-06) - Part 450: Multiple talkers and multiple listeners — Ethernet interconnection

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

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

No	Item designation	Regulation SOLAS 74, as amended, where “type approval” is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment

1	2	3	4	5	6		
A.1/4.1	Magnetic compass (a) Class A for ships (b) Class B for lifeboats and rescue boats	—	Reg. V/18.	—	Reg. V/19, IMO Res. A.382(X), IMO Res. A.694(17).	ISO 1069 (1973), ISO 25862 (2009), EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, ISO 1069 (1973), ISO 25862 (2009), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F G
A.1/4.2	Transmitting heading device THD (magnetic method)	— — — — —	Reg. V/18, Reg. V/19, Reg. X/3, IMO Res. MSC.36(63)-(1994) HSC Code) 13, IMO Res. MSC.97(73)-(2000) HSC	— — — — —	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 61162 series, ISO 22090-2 (2004), including Corrigendum 2005,	B + D B + E B + F G

Status: This is the original version (as it was originally adopted).

		Code) 13.	—	IMO Res. MSC.116(73), — IMO Res. MSC.191(79).	—	EN 62288 (2008). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 series, — ISO 22090-2 (2004), including Corrigendum 2005, — IEC 62288 Ed.1.0(2008).
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 B + D ISO B + E 8728 B + F (1997)G EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — EN 62288 (2008). Or, — ISO 8728 (1997), — IEC 60945 (2002) including

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	<p>— Reg. V/18,</p> <p>— Reg. X/3,</p> <p>— IMO Res. MSC.36(63)-(1994 HSC Code) 13,</p> <p>— IMO Res. MSC.97(73)-(2000 HSC Code) 13.</p>	<p>— Reg. V/19,</p> <p>— IMO Res. A.526(13),</p> <p>— IMO Res. A.694(17),</p> <p>— IMO Res. MSC.36(63)-(1994 HSC Code) 13,</p> <p>— IMO Res. MSC.97(73)-(2000 HSC Code) 13,</p> <p>— IMO Res. MSC.191(79).</p>	<p>— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008),</p> <p>— EN 61162 series, ISO 20672 (2007),</p> <p>— EN 62288 (2008).</p> <p>— IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008),</p> <p>— IEC 61162 series, ISO 20672 (2007),</p> <p>— IEC 62288 Ed.1.0(2008).</p>	<p>B + D</p> <p>B + E</p> <p>B + F</p>		
A.1/4.10	Direction finder	Deliberately left blank					
A.1/4.11	Loran-C equipment	<p>— Reg. V/18,</p> <p>— Reg. X/3,</p> <p>— IMO Res. MSC.36(63)-(1994 HSC</p>	<p>— Reg. V/19,</p> <p>— IMO Res. A.694(17),</p> <p>— IMO Res. A.818(19),</p>	<p>— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008),</p>	<p>B + D</p> <p>B + E</p> <p>B + F</p>		

Status: This is the original version (as it was originally adopted).

			Code) — 13, IMO Res. MSC.97(73)- (2000 HSC Code) — 13.	—	IMO — Res. MSC.36(63)- (1994 — HSC Code) — 13, IMO Res. MSC.97(73)- (2000 — HSC Code) — 13, IMO Res. MSC.191(79).	—	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).
A.1/4.12	Chayka equipment	—	Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)- (1994 HSC Code) 13, — IMO Res. MSC.97(73)- (2000 HSC Code) 13. —	—	Reg. V/19, — IMO Res. A.694 (17), IMO Res. A.818 (19), — IMO Res. MSC.36(63)- (1994 HSC Code) — 13, IMO Res. MSC.97(73)- (2000 HSC Code) 13, —	—	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

			—	IMO Res. MSC.191(79).		60945 Corrigendum 1 (2008), IEC 61075 (1991), IEC 61162 series, IEC 62288 Ed.1.0(2008).	
A.1/4.13	Decca navigator equipment	Deliberately left blank					
A.1/4.14	GPS equipment	—	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	—	Reg. V/19, IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC Code), IMO Res. MSC.97(73)-(2000 HSC Code), IMO Res. MSC.42(73), IMO Res. MSC.191(79).	—	EN B + D 60945B + E (2002) including IEC 60945 Corrigendum 1 (2008), EN 61108-1 (2003), EN 61162 series, EN 62288 (2008). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61108-1 (2003), IEC 61162 series,

				Annex 3, IMO Res. MSC.191(79).	—	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).
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 B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61097-1 (2007). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-1 (2007).
		—	Reg. IV/14,	—	Reg. IV/7,	including IEC 60945 Corrigendum 1 (2008), EN 61097-1 (2007). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-1 (2007).
		—	Reg. V/18,	—	IMO Res. A.530(13),	IEC 60945 Corrigendum 1 (2008), EN 61097-1 (2007). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-1 (2007).
		—	Reg. X/3,	—	IMO Res. A.802(49),	EN 61097-1 (2007). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-1 (2007).
		—	IMO Res. MSC.36(63)- (1994 HSC Code) 13,	—	IMO Res. A.694(17),	Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-1 (2007).
		—	IMO Res. MSC.97(73)- (2000 HSC Code) 13.	—	IMO Res. MSC.97(73)- (2000	IEC 61097-1 (2007).

Status: This is the original version (as it was originally adopted).

					HSC Code) 8, 14, 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 B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 series, ISO 20673 (2007), EN 62288 (2008). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, ISO 20673 (2007), IEC 62288 Ed.1.0(2008).
		—	Reg. X/3,	—	IMO Res. A.694(17),		
		—	IMO Res. MSC.36(63)- (1994 HSC Code) 13,	—	IMO Res. MSC.36(63)- (1994 HSC Code) 13,		
		—	IMO Res. MSC.97(73)- (2000 HSC Code) 13.	—	IMO Res. MSC.97(73)- (2000 HSC Code) 13, IMO Res. MSC.191(79).		
A.1/4.21	Propeller revolution indicator	—	Reg. V/18,	—	Reg. V/19,	—	EN B + D 60945B + E (2002)B + F

		—	Reg. X/3,	—	IMO Res. A.694(17),	including IEC 60945
		—	IMO Res. MSC.36(63)-(1994 HSC Code) 13,	—	IMO Res. MSC.36(63)-(1994 HSC Code) 13,	Corrigendum 1 (2008), EN 61162 series,
		—	IMO Res. MSC.97(73)-(2000 HSC Code) 13.	—	IMO Res. MSC.97(73)-(2000 HSC Code) 13,	ISO 22554 (2007), EN 62288 (2008).
		—		—	IMO Res. MSC.191(79).	Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, ISO 22554 (2007), IEC 62288 Ed.1.0(2008).
A.1/4.22	Pitch indicator	—	Reg. V/18,	—	Reg. V/19,	EN B + D 60945B + E (2002)B + F
		—	Reg. X/3,	—	IMO Res. A.694(17),	including IEC 60945
		—	IMO Res. MSC.36(63)-(1994 HSC Code) 13,	—	IMO Res. MSC.36(63)-(1994 HSC Code) 13,	Corrigendum 1 (2008), EN 61162 series,
		—	IMO Res. MSC.97(73)-(2000 HSC Code) 13.	—	IMO Res. MSC.97(73)-(2000 HSC Code) 13,	ISO 22555 (2007), EN 62288 (2008).

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,	—	EN 60945B + D
		—	Reg. V/20,	—	IMO Res. A.694	—	60945B + E
		—	Reg. X/3,	—	(17),	—	(2002)B + F
		—	IMO Res. MSC.36(63)-(1994	—	IMO Res. MSC.36(63)-(1994	—	including IEC 60945
		—	HSC Code) 13,	—	IMO Res. MSC.97(73)-(2000	—	Corrigendum 1
		—	IMO Res. MSC.97(73)-(2000	—	IMO Res. MSC.97(73)-(2000	—	(2008),
		—	HSC Code) 13,	—	HSC Code) 13,	—	EN 61162
		—	IMO Res. MSC.97(73)-(2000	—	IMO Res. MSC.97(73)-(2000	—	Series,
		—	HSC Code) 13,	—	IMO Res. MSC.191(79),	—	EN 61996-1
		—	IMO Res. MSC.97(73)-(2000	—	IMO Res. MSC.97(73)-(2000	—	(2008),
		—	HSC Code) 13,	—	IMO Res. MSC.333(90).	—	EN 62288
		—	IMO Res. MSC.97(73)-(2000	—	IMO Res. MSC.333(90).	—	(2008).
		—	HSC Code) 13,	—	IMO Res. MSC.333(90).	—	Or,
		—	IMO Res. MSC.97(73)-(2000	—	IMO Res. MSC.333(90).	—	IEC 60945
		—	HSC Code) 13,	—	IMO Res. MSC.333(90).	—	(2002)
		—	IMO Res. MSC.97(73)-(2000	—	IMO Res. MSC.333(90).	—	including
		—	HSC Code) 13,	—	IMO Res. MSC.333(90).	—	IEC 60945
		—	IMO Res. MSC.97(73)-(2000	—	IMO Res. MSC.333(90).	—	Corrigendum 1
		—	HSC Code) 13,	—	IMO Res. MSC.333(90).	—	(2008),
		—	IMO Res. MSC.97(73)-(2000	—	IMO Res. MSC.333(90).	—	IEC 61162
		—	HSC Code) 13,	—	IMO Res. MSC.333(90).	—	Series,
		—	IMO Res. MSC.97(73)-(2000	—	IMO Res. MSC.333(90).	—	IEC 61996-1
		—	HSC Code) 13,	—	IMO Res. MSC.333(90).	—	(2007-11),
		—	IMO Res. MSC.97(73)-(2000	—	IMO Res. MSC.333(90).	—	IEC 62288
		—	HSC Code) 13,	—	IMO Res. MSC.333(90).	—	Ed.1.0(2008).

		—	IMO Res. MSC.97(73)-(2000) HSC Code) 13.	—	HSC Code) 13, IMO Res. MSC.97(73)-(2000) HSC Code) 13, IMO Res. MSC.191(79).	—	1 (2008), EN 61162 Series, EN 62288 (2008). Or, ISO 16328 (2001), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 Series, IEC 62288 Ed.1.0(2008).
A.1/4.32	Universal automatic identification system equipment (AIS)	—	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994) HSC Code) 13, IMO Res. MSC.97(73)-(2000) HSC Code) 13.	—	Reg. V/19, IMO Res. A.694 (17), IMO Res. MSC.36(63)-(1994) HSC Code) 13, IMO Res. MSC.74(69), IMO Res. MSC.97(73)-(2000) HSC Code) 13,	—	EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 Series, EN 61993-2 (2001), EN 62288 (2008). Or, IEC 60945 (2002) including IEC 60945

Status: This is the original version (as it was originally adopted).

			—	IMO Res. MSC.191(79), (2008),	Corrigendum 1
			—	ITU-R M.1371-4(2010).	IEC 61162 Series, IEC 61993-2 (2001), IEC 62288 Ed.1.0(2008).
				<i>Note:</i> ITU-R M.1371-4(2010) shall only be applicable in accordance with requirements of IMO Res.MSC.74(69).	
A.1/4.33	Track control system (working at ship's speed from minimum manoeuvring speed up to 30 knots)	—	Reg. V/18.	—	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) including IEC 60945 Corrigendum 1 (2008), IEC 61162 Series, IEC 62065 (2002),

					—	IEC 62288 Ed.1.0(2008).
A.1/4.34	Radar equipment CAT 1	—	Reg. V/18.	—	Reg. V/19, IMO Res. A.278(VIII), IMO Res. A.694(17), IMO Res. A.823(19), IMO Res. MSC.191(79), IMO Res. MSC.192(79), ITU- R M. 1177-3(06/03).	— EN 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).
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),	— EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 Series,

Status: This is the original version (as it was originally adopted).

			—	IMO Res. MSC.192(79), (2008),	—	EN 62288	
			—	ITU-R M.1177-3(06/03). Or,	—	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.1/4.36	Radar equipment CAT 3	—	Reg. V/18.	—	—	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	

Status: This is the original version (as it was originally adopted).

	option, namely:		MSC.36(63)- (1994 HSC Code)	IMO Res. A.694(17), IMO Res. MSC.36(63)- (1994 HSC Code)	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).
	a) CAT 1C	—	—	—	—
	b) CAT 2C,	—	13, IMO	Res. MSC.97(73)- (2000 HSC Code)	—
	c) CAT 1HC for HSC	—	13.	Res. — MSC.97(73)- (2000 HSC Code)	—
	d) CAT 2HC for HSC	—	—	IMO Res. MSC.191(79), IMO Res. MSC.192(79), ITU- R M. 1177-3(06/03).	—
A.1/4.39	Radar reflector – passive type	—	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)- (1994 HSC Code)	Reg. V/19, IMO Res. MSC.36(63)- (1994 HSC Code)	ISO B + D 8729-B + E (2010) B + F EN G 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, ISO 8729-1 (2010), IEC 60945 (2002)
		—	IMO Res. MSC.97(73)- (2000 HSC Code)	IMO Res. MSC.164(78).	—

							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), 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. MSC36(63)-(1994 HSC	—	Reg. V/19, IMO Res. A.694(17), IMO Res. MSC36(63)-(1994	—	ISO B + D 22090B + E (2004)B + F including ISO Corrigendum 1 (2005),

Status: This is the original version (as it was originally adopted).

			Code) 13, IMO Res. — MSC.97(73)- (2000 HSC Code) 13.	HSC — Code) 13, IMO Res. — MSC.97(73)- (2000 HSC Code) 13, IMO Res. — MSC.46(73), IMO Res. — MSC.191(79).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008). Or, ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 62288 Ed.1.0(2008).
A.1/4.42	Searchlight for high speed craft	— — —	Reg. X/3, IMO Res. — MSC.36(63)- (1994 HSC Code) 13, IMO Res. — MSC.97(73)- (2000	IMO — Res. A.694(17), IMO — Res. MSC.36(63)- (1994 HSC Code) 13, IMO Res. — MSC.97(73)- (2000	ISO B + D 17884B + E (2004)B + F EN G 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or,

						Corr. I (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). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 series, IEC 61996-2 (2007),

Status: This is the original version (as it was originally adopted).

						—	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 B + D Res.A.1045(27), — ISO B + F 799 G (2004).
A.1/4.50	DGPS Equipment	—	Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)- (1994 HSC Code) 13, — IMO Res. MSC.97(73)- (2000 HSC Code) 13.	—	Reg. V/19, — IMO Res. A.694 (17), — IMO Res. MSC.36(63)- (1994 HSC Code) 13, — IMO Res. MSC.97(73)- (2000 HSC Code) 13, — IMO Res. MSC.112(73), — IMO Res. MSC.114(73), — IMO Res. MSC.191(79).	—	EN B + D 60945 B + E (2002) B + F including IEC 60945 Corrigendum 1 (2008), — EN 61108-1 (2003), — EN 61108-4 (2004), — EN 61162 series, — EN 62288 (2008). Or, — IEC 60945 (2002) including — IEC 60945 Corrigendum 1 (2008), — IEC 61108-1 (2003), — IEC 61108-4 (2004),

						IEC 61162 series, IEC 62288 Ed.1.0 (2008).
A.1/4.51	DGLONASS Equipment	—	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	—	Reg. V/19, IMO Res. A.694 (17), IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13, IMO Res. MSC.113(73), IMO Res. MSC.114(73), IMO Res. MSC.191(79).	EN B + D 60945 B + E (2002) B + F including IEC 60945 Corrigendum 1 (2008), EN 61108-2 (1998), EN 61108-4 (2004), EN 61162 series, EN 62288 (2008). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61108-2 (1998), IEC 61108-4 (2004), IEC 61162 series, IEC 62288 Ed.1.0 (2008).

Status: This is the original version (as it was originally adopted).

<p>A.1/4.52</p>	<p>Daylight signalling lamp</p>	<p>— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code).</p>	<p>— 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).</p>	<p>— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — ISO 25861 (2007). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — ISO 25861 (2007).</p>	<p>B + D B + E B + F including IEC 60945 Corrigendum 1 (2008), ISO 25861 (2007). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), ISO 25861 (2007).</p>
<p>A.1/4.53 Refer to note b) of this Annex A.1</p>	<p>Radar target enhancer</p>	<p>— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13. —</p>	<p>— IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13, — IMO Res. MSC.164(78), — ITU-R M.1176 (10/95).</p>	<p>— ISO 8729-2 (2009) including IEC 60945 Corrigendum 1 (2008), — EN G 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — Or, — ISO 8729-2 (2009), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).</p>	<p>B + D B + E B + F G (2002) including IEC 60945 Corrigendum 1 (2008), Or, ISO 8729-2 (2009), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).</p>

<p>A.1/4.54 Refer to note b) of this Annex A.1</p>	<p>Bearing Device</p>	<p>—</p>	<p>Reg. V/18.</p>	<p>—</p>	<p>Reg. V/19.</p>	<p>—</p>	<p>ISO B + D 25862 B + 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).</p>
<p>A.1/4.55 Refer to note b) of this Annex A.1</p>	<p>AIS SART equipment</p>	<p>— —</p>	<p>Reg. III/4, Reg. IV/14.</p>	<p>— — — — — — — —</p>	<p>Reg. III/6, Reg. IV/7, IMO Res. MSC.246(83), IMO Res. MSC.247(83), IMO Res. MSC.256(84), ITU- R M. 1371-4(2010).</p>	<p>—</p>	<p>EN B + D 60945 B + E (2002) B + F including IEC 60945 Corrigendum 1 (2008), EN 61097-14 (2010). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-14 (2010).</p>

Status: This is the original version (as it was originally adopted).

<p>A.1/4.56 Refer to note b) of this Annex A.1</p>	<p>Galileo Receiver</p>	<p>—</p>	<p>Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)- (1994 HSC Code) 13, IMO Res. MSC.97(73)- (2000 HSC Code) 13.</p>	<p>Reg. V/19, IMO Res. A.694(17), IMO Res. A.813(19), IMO Res. MSC.36(63)- (1994 HSC Code) 13, IMO Res. MSC.97(73)- (2000 HSC Code) 13, IMO Res. MSC.191(79), IMO Res. MSC.233(82).</p>	<p>—</p>	<p>EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61108-3 (2010), EN 61162 Series, EN 62288 (2008). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61108-3 (2010), IEC 61162 Series, IEC 62288 Ed.1.0 (2008).</p>	<p>B + D B + E B + F</p>
<p>A.1/4.57 Refer to note b) of this Annex A.1</p>	<p>Bridge Navigational Watch Alarm System (BNWAS)</p>	<p>—</p>	<p>Reg. V/18.</p>	<p>IMO Res. A.694(17), IMO Res. MSC.128(75), IMO Res. MSC.191(79).</p>	<p>—</p>	<p>EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 Series,</p>	<p>B + D B + E B + F</p>

						—	EN 62288 (2008),
						—	IEC 62616(2010) including IEC 62616 Corrigendum 1 (2012).
						—	Or, 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 Ex A.2/4.18	Sound reception system	—	Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)- (1994 HSC Code), — IMO Res. MSC.97(73)- (2000 HSC Code).	—	Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC.36(63)- (1994 HSC Code), — IMO Res. MSC.86(70), — IMO Res. MSC.97(73)-	—	EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 series, EN 62288 (2008),

Status: This is the original version (as it was originally adopted).

			(2000— HSC Code), — IMO Res. — MSC 191(79).	ISO 14859 (2012). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 series, — IEC 62288 Ed.1.0(2008), — ISO 14859 (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:

1. IEC 61162-1 ed4.0 (2010-11) - Part 1: Single talker and multiple listeners
2. IEC 61162-2 ed1.0 (1998-09) - Part 2: Single talker and multiple listeners, high-speed transmission
3. 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
4. IEC 61162-400 ed1.0 (2001-11) - Part 400: Multiple talkers and multiple listeners — Ship systems interconnection — Introduction and general principles
 - IEC 61162-401 ed1.0 (2001-11) - Part 401: Multiple talkers and multiple listeners — Ship systems interconnection — Application profile
 - IEC 61162-402 ed1.0 (2005-09) - Part 402: Multiple talkers and multiple listeners — Ship systems interconnection — Documentation and test requirements

- IEC 61162-410 ed1.0 (2001-11) - Part 410: Multiple talkers and multiple listeners — Ship systems interconnection — Transport profile requirements and basic transport profile
- IEC 61162-420 ed1.0 (2001-11) - Part 420: Multiple talkers and multiple listeners — Ship systems interconnection — Companion standard requirements and basic companion standards
- IEC 61162-450 ed1.0 (2011-06) - Part 450: Multiple talkers and multiple listeners — Ethernet interconnection

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

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

No	Item designation	Regulation SOLAS 74, as amended, where “type approval” is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/5.1	VHF radio capable of transmitting	— Reg. IV/14,	— Reg. IV/7,	— IMO MSC/Circ. 862,	B + D B + E B + F

Status: This is the original version (as it was originally adopted).

and receiving	—	Reg.	—	Reg.	—	EN
DSC and	—	X/3,	—	X/3,	—	60945
radiotelephony	—	IMO	—	IMO	—	(2002)
		Res.		Res.		including
		MSC36(63)-		A.385(X),		IEC
		(1994		IMO		60945
		HSC		Res.		Corrigendum
		Code)		A.524(13),		1
		14,		IMO		(2008),
	—	IMO		Res.	—	EN
		Res.		A.694(17),		61162
		MSC97(73)-		IMO		series,
		(2000		Res.	—	ETSI
		HSC		A.803(19),		EN
		Code)		IMO		300
		14.		Res.		338-1
				MSC36(63)-		V1.3.1
				(1994		(2010-02),
				HSC	—	ETSI
				Code)		EN
				14,		300
				IMO		338-2
				Res.		V1.3.1
				MSC97(73)-		(2010-02),
				(2000	—	ETSI
				HSC		EN
				Code)		301
				14,		843-2
				IMO		V1.2.1
				MSC/		(2004-06),
				Circ.862,		ETSI
				IMO		EN
				COMSAR		301
				Circ.32,		925
				ITU-		V1.3.1
				R		(2010-09).
				M.489-2		Or,
				(10/95),		IMO
				ITU-		MSC/
				R		Circ.862,
				M.493-13		IEC
				(10/09),		60945
				ITU-		(2002)
				R		including
				M.541-9		IEC
				(05/04),		60945
				ITU-		Corrigendum
				R		1
				M.689-2		(2008),
				(09/94).		IEC
						61097-3
						(1994),

Status: This is the original version (as it was originally adopted).

		—		—	IEC 61097-3 (1994), — IEC 61097-8 (1998), — IEC 61162 series.		
A.1/5.3	NAVTEX receiver	—	Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)-(1994) HSC Code) 14, — IMO Res. MSC.97(73)-(2000) HSC Code) 14.	—	Reg. IV/7, Reg. X/3, IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994) HSC Code) 14, IMO Res. MSC.97(73)-(2000) HSC Code) 14, — IMO Res. MSC.148(77), — COMSAR Circ.32, — 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), ETSI EN 300 065-1 V1.2.1 (2009-01), ETSI EN 301 843-4 V1.2.1 (2004-06), Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-6 (2005-12).
A.1/5.4	EGC receiver	—	Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)-(1994)	—	Reg. IV/7, Reg. X/3, IMO Res. A.570(14),	—	EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum

			HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14.	—	IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14, IMO Res. MSC.306(87), IMO COMSAR Circ.32.	—	1 (2008), ETSI ETS 300 460 Ed.1 (1996-05), ETSI ETS 300 460/A1 (1997-11), ETSI EN 300 829 V1.1.1 (1998-03), ETSI EN 301 843-1 V1.2.1 (2004-06). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-4 (2007).
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.	—	Reg. IV/7, Reg. X/3, IMO Res. A.694(17), IMO Res. A.699(17), IMO Res. A.700(17),	—	EN B + D 60945B + E (2002)B + F including IEC 60945 Corrigendum 1 (2008), EN 61162 Series,

Status: This is the original version (as it was originally adopted).

			MSC 97(73)- (2000 HSC Code) 14.	—	IMO Res. A.806(19), IMO Res. MSC 36(63)- (1994 HSC Code) 14, IMO Res. MSC 97(73)- (2000 HSC Code) 14, IMO COMSAR Circ.32, ITU- R M.491-1 (07/86), ITU- R M.492-6 (10/95), ITU- R M.540-2 (06/90), ITU- R M.625-3 (10/95), ITU- R M.688 (06/90).	—	ETSI ETS 300 067 Ed.1 (1990-11), ETSI ETS 300 067/ A1 Ed.1 (1993-10). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 Series, ETSI ETS 300 067 Ed.1 (1990-11), ETSI ETS 300 067/ A1 Ed.1 (1993-10).
A.1/5.6	406 MHz EPIRB (COSPAS- SARSAT)	—	Reg. IV/14, Reg. X/3, IMO Res. MSC 36(63)- (1994 HSC Code) 14,	—	Reg. IV/7, Reg. X/3, IMO Res. A.662(16), IMO Res. A.694(17),	—	IMO B + D MSC/B + E Circ.862+ F EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008),

		—	IMO Res. MSC.97(73)-(2000 HSC Code) 14.	—	IMO Res. A.696(17), IMO Res. A.810(19), IMO Res. MSC.36(63)-(1994 HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14, IMO Res. MSC/Circ.862, IMO MSC/Circ.862 is applicable only to the optional remote activation device, not to the EPIRB itself. (10/95).	—	ETSI EN 300 066 V 1.3.1 (2001-01). Or, IMO MSC/Circ.862, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-2 (2008).
A.1/5.7	L- band EPIRB (INMARSAT)	Deliberately left blank					
A.1/5.8	2 182 kHz watch receiver	Deliberately left blank					
A.1/5.9	Two-tone alarm generator	Deliberately left blank					
A.1/5.10	MF radio capable of transmitting and receiving DSC and radiotelephony <i>Note:</i> In line with IMO	—	Reg. IV/14, Reg. X/3, IMO Res. MSC.36(63)-(1994	—	Reg. IV/9, Reg. IV/10, Reg. X/3,	—	IMO B + D MSC/B + E Circ.862, EN 60945 (2002) including IEC

Status: This is the original version (as it was originally adopted).

and ITU decisions, the requirements for Two Tone Alarm generator and transmission on H3E are no longer applicable in the testing standards	—	HSC Code) 14, IMO Res. MSC.97(73)-(2000) HSC Code) 14.	—	IMO Res. A.694(17), IMO Res. A.804(19), IMO Res. MSC.36(63)-(1994) HSC Code) 14, IMO Res. MSC.97(73)-(2000) HSC Code) 14, IMO COMSAR Circ.32, ITU-R M.493-13 (10/09), ITU-R M.541-9 (05/04).	60945 Corrigendum 1 (2008), EN 61162 series, ETSI EN 300 338-1 V1.3.1 (2010-02), ETSI EN 300 338-2 V1.3.1 (2010-02), ETSI EN 300 373-1 V1.3.1 (2011-01), ETSI EN 301 843-5 V1.1.1 (2004-06). Or, IMO MSC/ Circ.862, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-3 (1994), IEC 61097-9 (1997), IEC 61162 series.
--	---	--	---	--	--

Status: This is the original version (as it was originally adopted).

					—	IEC 61162 series.
A.1/5.12	Inmarsat-B SES	—	Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14.	—	Reg. IV/10, — Reg. X/3, — IMO Res. A.570(14), — IMO Res. A.694(17), — IMO Res. A.808(19), — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14, — IMO MSC/Circ.862, — IMO COMSAR Circ.32.	IMO B + D MSC/B + E Circ B + F 862, EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, IMO MSC/ Circ 862, IEC 60945 (2002) including IEC 60945 Corrigendum 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	IMO B + D MSC/B + E Circ.862+ F EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 series,

			Code) 14.		C — SES comprises EGC functions), — IMO Res. A.694(17), — IMO Res. A.807(19), — IMO Res. MSC.36(63)- (1994 HSC Code) 14, — IMO Res. MSC.97(73)- (2000 HSC Code) 14, — IMO MSC/ Circ.862, — IMO COMSAR Circ.32.		— ETSI ETS 300 460 Ed.1 (1996-05), ETSI ETS 300 460/ A1 (1997-11), ETSI EN 300 829 V1.1.1 (1998-03), ETSI EN 301 843-1 V1.2.1 (2004-06). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-4 (2007), IEC 61162 series.
A.1/5.14	MF/HF radio capable of transmitting and receiving DSC, NBDP and radiotelephony <i>Note:</i> In line with IMO and ITU decisions, the requirements	—	Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)- (1994 HSC Code) 14, —	—	Reg. IV/10, — Reg. X/3, — IMO Res. A.694(17), — IMO Res. A.806(19), — IMO Res.	—	IMO B + D MSC/B + E Circ.862+ F EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008),

Status: This is the original version (as it was originally adopted).

for Two Tone Alarm generator and transmission on A3H are no longer applicable in testing standards.	—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	MSC.36(63)- (1994 HSC Code) 14, IMO Res. MSC.97(73)- (2000 HSC Code) 14, IMO MSC/ Circ.862, IMO COMSAR Circ.32, ITU- R M.476-5 (10/95), ITU- R M.491-1 (07/86), ITU- R M.492-6 (10/95), ITU- R M.493-13 (10/09), ITU- R M.541-9 (05/04), ITU- R M.625-3 (10/95), ITU- R M.1173- (10/95).	EN 61162 series, ETSI ETS 300 067 Ed.1 (1990-11), ETSI ETS 300 067/ A1 Ed.1 (1993-10), ETSI EN 300 338-1 V1.3.1 (2010-02), ETSI EN 300 338-2 V1.3.1 (2010-02), ETSI ETS 300 373-1 V1.3.1 (2011-01), ETSI EN 301 843-5 V1.1.1 (2004-06). Or, IMO MSC/ Circ.862, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008),
---	---	--	---	---

Status: This is the original version (as it was originally adopted).

									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. III/6,	—	EN	B + D	
		—	Reg. X/3,	—	IMO Res.	—	60945B + E (2002)B + F including		
		—	IMO Res. MSC36(63)- (1994 HSC Code) 14,	—	IMO Res. A.694(17), IMO Res. A.809(19), IMO Res. MSC36(63)- (1994 HSC Code) 14,	—	IEC 60945 Corrigendum 1 (2008), ETSI EN 300 225 V1.4.1 (2004-12), ETSI EN 301 843-2 V1.2.1 (2004-06).		
		—	IMO Res. MSC97(73)- (2000 HSC Code) 14.	—	IMO Res. MSC97(73)- (2000 HSC Code) 8, 14, IMO Res. MSC149(77), ITU- R M.489-2 (10/95).	—	Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61097-12 (1996).		

Status: This is the original version (as it was originally adopted).

			(2000 HSC Code) 14, IMO MSC/ Circ.862, IMO COMSAR Circ.32.	60945 Corrigendum 1 (2008), IEC 61097-13 (2003).
--	--	--	---	--

6. Equipment required under COLREG 72

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

					IEC 60945 Corrigendum 1 (2008).
--	--	--	--	--	---

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, Reg. XII/12.	Reg. II-1/25, Reg. XII/12, IMO Res. A.1021(26), IMO Res. MSC.188(79).	IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), IEC 60529 (2001) including: Corrigendum 1 (2003), Corrigendum 2 (2007), Corrigendum 3 (2009), IMO Res. MSC.188(79),	B + D B + F

Status: This is the original version (as it was originally adopted).

				—	IMO MSC.1/ Circ. 1291.
--	--	--	--	---	------------------------------

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, — Reg. X/3.	— IMO Res. MSC.48(66)- (LSA Code).		
A.2/1.2	Immersion suit materials	Deliberately left blank			
A.2/1.3	Float-free launching appliances for survival craft	— Reg. III/4, — Reg. III/34.	— Reg. III/13, — Reg. III/16, — Reg. III/26, — Reg. III/34, — IMO Res. MSC.36(63)- (1994 HSC Code) 8,		

			—	IMO Res. MSC 48(66)-(LSA Code) I, IV, VI,			
			—	IMO Res. MSC 97(73)-(2000 HSC Code) 8.			
A.2/1.4	Embarkation ladders	Moved to A.1/1.29					
A.2/1.5	Public address & 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),	—	ISO 27991 (2008).
				—	IMO Res. MSC 36(63)-(1994 HSC Code),		
				—	IMO Res. MSC 48(66)-(LSA Code),		
				—	IMO Res. MSC 97(73)-(2000 HSC Code),		
				—	IMO MSC/Circ.808.		

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	Testing standards	Modules for conformity assessment
----	------------------	--	---	-------------------	-----------------------------------

Status: This is the original version (as it was originally adopted).

1	2	3	4	5	6
			and circulars of the IMO, applicable		
A.2/2.1	NO _x 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 NO _x emissions	—	Annex VI, Reg. 4.	Annex VI, Reg. 4.	
A.2/2.4	Equipment using other technological methods to limit SO _x 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	On board NO _x analysers using a measurement method other than the Direct Measurement	—	IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI,	IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI,	

	and Monitoring Method of the NOx Technical Code 2008	Reg. 4)	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 water-spraying fire-extinguishing systems for special category spaces, ro-ro cargo spaces, ro-ro spaces and vehicle spaces	Moved to A.1/3.49			
A.2/3.3	Cold-weather starting of generator sets (starting devices)	Moved to A.2/8.1			
A.2/3.4	Dual purpose type nozzles (spray/jet type)	Moved to A.1/3.55			

Status: This is the original version (as it was originally adopted).

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. X/3, IMO Res. MSC.98(73)-(FSS Code) 3.	—	Reg. II-2/10, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7, IMO Res. MSC.98(73)-(FSS Code), 3.	IEC 60079 series.
A.2/3.9	Protective clothing resistant to chemical attack	—	Reg. II-2/19.	—	Reg. II-2/19, IMO Res. MSC.36(63)-(1994 HSC	EN 943-1 (2002) including AC (2005),

			Code) — EN 7, 943-2 — IMO (2002), Res. — EN MSC.97(73)- ISO (2000) 6529 HSC (2001), Code) — EN 7. ISO 6530 (2005), — EN 14605 (2005) including A1(2009), — IMO MSC/ Circ.1120.
A.2/3.10	Low-location lighting systems	Moved to A.1/3.40	
A.2/3.11	Nozzles for fixed pressure water spraying fire extinguishing systems for machinery spaces	Moved to A.1/3.10	
A.2/3.12	Equivalent fixed gas fire extinguishing systems for machinery spaces and cargo pump rooms	Moved to A.1/3.45	
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	Moved to A.1/3.63	

Status: This is the original version (as it was originally adopted).

	systems components					
A.2/3.16	Flame detectors	Moved to A.1/3.51				
A.2/3.17	Manual call points	Moved to A.1/3.51				
A.2/3.18	Alarm devices	Moved to A.1/3.53				
A.2/3.19	Fixed water based local application fire fighting systems components for use in category "A" machinery spaces.	Moved to A.1/3.48				
A.2/3.20	Upholstered furniture	Moved to A.1/3.20				
A.2/3.21	Paint lockers and flammable liquid lockers fire extinguishing systems components	—	Reg. II-2/10.	—	Reg. II-2/10, IMO MSC.1/Circ.1239.	
A.2/3.22	Galley Exhaust Duct Fixed Fire Extinguishing Systems components	—	Reg. II-2/9.	—	Reg. II-2/9.	
A.2/3.23	Helicopter Deck Fire Extinguishing Systems components	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 Extinguishing Systems (CO ₂) components.	—	Reg. II-2/10, Reg. X/3.	—	Reg. II-2/10, Reg. II-2/20, IMO Res. MSC.36(63)- (1994 HSC Code) 7, IMO Res. MSC.97(73)- (2000 HSC Code) 7, IMO Res. MSC.98(73)- (FSS	Electrical automatic control and delay devices: — EN 12094-1 (2003). Non-electrical automatic control and delay devices: — EN 12094-2 (2003). Manual triggering and

Status: This is the original version (as it was originally adopted).

			Code)	stop	
		—	5,	devices:	
			IMO	—	EN
			MSC.1/		12094-3
			Circ.1313,		(2003).
		—	IMO	Container	
			MSC.1/	valve	
			Circ.1318.	assemblies	
				and	
				their	
				actuators:	
				—	EN
					12094-4
					(2004).
				High	
				and	
				low	
				pressure	
				selector	
				valves	
				and	
				their	
				actuators:	
				—	EN
					12094-5
					(2006).
				Non-	
				electrical	
				disable	
				devices:	
				—	EN
					12094-6
					(2006).
				Nozzles	
				for	
				CO ₂	
				systems:	
				—	EN
					12094-7
					(2000)
					including
					A1
					(2005).
				Connectors:	
				—	EN
					12094-8
					(2006).
				Pressure	
				gauges	
				and	
				pressure	
				switches:	

				<p>— EN 12094-10 (2003).</p> <p>Mechanical weighing devices:</p> <p>— EN 12094-11 (2003).</p> <p>Check valves and non-return valves:</p> <p>— EN 12094-13 (2001) including AC (2002).</p> <p>Odourising devices for CO₂ low pressure systems:</p> <p>— 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 Systems components for Machinery Spaces and Tanker Deck Protection.	Moved to A.1/3.58		

Status: This is the original version (as it was originally adopted).

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				

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:

1. IEC 61162-1 ed4.0 (2010-11) - Part 1: Single talker and multiple listeners
2. IEC 61162-2 ed1.0 (1998-09) - Part 2: Single talker and multiple listeners, high-speed transmission
3. 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
4. IEC 61162-400 ed1.0 (2001-11) - Part 400: Multiple talkers and multiple listeners — Ship systems interconnection — Introduction and general principles
 - IEC 61162-401 ed1.0 (2001-11) - Part 401: Multiple talkers and multiple listeners — Ship systems interconnection — Application profile
 - IEC 61162-402 ed1.0 (2005-09) - Part 402: Multiple talkers and multiple listeners — Ship systems interconnection — Documentation and test requirements
 - IEC 61162-410 ed1.0 (2001-11) - Part 410: Multiple talkers and multiple listeners — Ship systems interconnection — Transport profile requirements and basic transport profile

- IEC 61162-420 ed1.0 (2001-11) - Part 420: Multiple talkers and multiple listeners — Ship systems interconnection — Companion standard requirements and basic companion standards
- IEC 61162-450 ed1.0 (2011-06) - Part 450: Multiple talkers and multiple listeners — Ethernet interconnection

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

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

No	Item designation	Regulation SOLAS 74, as amended, where “type approval” is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.2/4.1	Gyro compass for high speed craft	Moved to A.1/4.31			
A.2/4.2	Heading control	Moved to A.1/4.40			

Status: This is the original version (as it was originally adopted).

	system for high speed craft (formerly auto-pilot)						
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),		
		—	IMO Res. MSC.36(63)-(1994	—	IMO Res. MSC.36(63)-(1994		

			HSC Code), IMO Res. MSC.97(73)- (2000 HSC Code).		HSC Code), IMO Res. MSC.97(73)- (2000 HSC Code), IMO Res. MSC.115(73), IMO Res. MSC.191(79).		EN 61108-1 (2003), EN 61108-2 (1998), EN 61162 series, EN 62288 (2008). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61108-1 (2003), IEC 61108-2 (1998), IEC 61162 series, IEC 62288 Ed.1.0(2008).
A.2/4.12	DGPS, DGLONASS equipment	Moved to A.1/4.44, A.1/4.50 and A.1/4.51					
A.2/4.13	Gyro compass for high speed craft	Moved to A.1/4.31					
A.2/4.14	Voyage data recorder (VDR)	Moved to A.1/4.29					
A.2/4.15	Integrated navigation system		Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-		Reg. V/19, IMO Res. A.694(17), IMO Res.		EN 60945 (2002) including IEC 60945 Corrigendum

Status: This is the original version (as it was originally adopted).

			(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	—	MSC.36(63)-1 (1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13, IMO Res. MSC.191(79), IMO Res. MSC.252(83).	—	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.2/4.16	Bridge equipment system	Deliberately left blank					
A.2/4.17	Radar target enhancer	Moved to A.1/4.53					
A.2/4.18	Sound reception system	Moved to A.1/4.58					
A.2/4.19	Magnetic compass for high speed craft	—	Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code), IMO Res. MSC.97(73)-(2000 HSC Code).	—	IMO Res. A.382(X), IMO Res. A.694(17), IMO Res. MSC.36(63)-1 (1994 HSC Code), IMO Res. MSC.97(73)-(2000 HSC Code).	—	ISO 1069 (1973), ISO 25862(2009), EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or,

Status: This is the original version (as it was originally adopted).

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. V/19,	—	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008),
		—	Reg. X/3,	—	IMO Res. A.694(17),	—	EN 61162 series,
		—	IMO Res. MSC.36(63)-(1994 HSC Code),	—	IMO Res. MSC.97(73)-(2000 HSC Code).	—	EN 62288 (2008). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008),
		—	IMO Res. MSC.97(73)-(2000 HSC Code).	—	IMO Res. MSC.191(79).	—	IEC 61162 series, IEC 62288 Ed. 1.0 (2008).
A.2/4.25	Lateral thrust, pitch and mode indicators	—	Reg. V/18,	—	Reg. V/19,	—	EN 60945 (2002) including IEC 60945 Corrigendum
		—	Reg. X/3,	—	IMO Res. A.694(17),	—	IEC 60945 Corrigendum
		—	IMO Res. MSC.36(63)-(1994	—	IMO Res. MSC.36(63)-	—	

			HSC Code), IMO Res. MSC 97(73)- (2000 HSC Code).	(1994 HSC Code), IMO Res. MSC 97(73)- (2000 HSC Code), IMO Res. MSC 191(79).	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					
A.2/4.29	Pitch indicator	Moved to A.1/4.22					
A.2/4.30	Bridge equipment system	—	Reg. V/18, Reg. X/3, IMO Res. MSC 36(63)- (1994 HSC Code) 13, IMO Res. MSC 97(73)- (2000	—	Reg. V/19, IMO Res. A.694 (17), IMO Res. MSC 36(63)- (1994 HSC Code) 15, IMO Res.	—	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 Series, EN 61209 (1999),

Status: This is the original version (as it was originally adopted).

		HSC Code) 13.	—	MSC (200 HSC Code) 15, IMO Res. MSC IMO SN.1/ Circ.288.	97(73)- EN 62288 (2008). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 Series, IEC 61209 (1999), IEC 62288 Ed. 1.0 (2008).		
A.2/4.31	Bearing Device	Moved to A.1/4.54					
A.2/4.32	Bridge Navigational Watch Alarm System (BNWAS)	Moved to A.1/4.57					
A.2/4.33	Track control system (working at ship's speed from 30 knots and above)	—	Reg. V/18.	—	Reg. V/19, IMO Res. A.694 (17), IMO Res. MSC.191(79).	—	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 Series, EN 62288 (2008). Or, IEC 60945 (2002) including

						IEC 60945 Corrigendum 1 (2008), — IEC 61162 Series, — IEC 62288 Ed. 1.0 (2008).
A.2/4.34	Equipment with Long Range Identification and Tracking (LRIT) capability	—	Reg. V/19+1.	—	Reg. V/19+1, IMO Res. A.694(17), IMO Res. A.813(19), IMO Res. — MSC 202(81), IMO Res. MSC 241(81), IMO Res. MSC 263(84), IMO MSC 1/ Circ 1307.	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 Series. Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 Series.
A.2/4.35	Galileo Receiver	Moved to A.1/4.56				
A.2/4.36	AIS SART equipment	Moved to A.1/4.55				

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:

Status: This is the original version (as it was originally adopted).

1. IEC 61162-1 ed4.0 (2010-11) - Part 1: Single talker and multiple listeners
2. IEC 61162-2 ed1.0 (1998-09) - Part 2: Single talker and multiple listeners, high-speed transmission
3. 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
4. IEC 61162-400 ed1.0 (2001-11) - Part 400: Multiple talkers and multiple listeners — Ship systems interconnection — Introduction and general principles
 - IEC 61162-401 ed1.0 (2001-11) - Part 401: Multiple talkers and multiple listeners — Ship systems interconnection — Application profile
 - IEC 61162-402 ed1.0 (2005-09) - Part 402: Multiple talkers and multiple listeners — Ship systems interconnection — Documentation and test requirements
 - IEC 61162-410 ed1.0 (2001-11) - Part 410: Multiple talkers and multiple listeners — Ship systems interconnection — Transport profile requirements and basic transport profile
 - IEC 61162-420 ed1.0 (2001-11) - Part 420: Multiple talkers and multiple listeners — Ship systems interconnection — Companion standard requirements and basic companion standards
 - IEC 61162-450 ed1.0 (2011-06) - Part 450: Multiple talkers and multiple listeners — Ethernet interconnection

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

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

No	Item designation	Regulation SOLAS 74, as amended, where “type approval” is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.2/5.1	VHF EPIRB	— Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)- (1994 HSC Code), — IMO Res. MSC.97(73)- (2000 HSC Code).	— Reg. IV/8, — IMO Res. A.662(16), — IMO Res. A.694(17), — IMO Res. A.805(19), — IMO Res. MSC.36(63)- (1994 HSC Code), — ITU-R M.489-2 (10/95), — ITU-R M.693 (06/90).	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	
A.2/5.2	Radio reserve source of energy	— Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)- (1994	— Reg. IV/13, — IMO Res. A.694(17), — IMO Res. MSC.36(63)-	— EN 60945 (2002) including IEC 60945 Corrigendum	

Status: This is the original version (as it was originally adopted).

			HSC Code), IMO Res. — MSC.97(73)- (2000 HSC Code).	(1994 HSC Code), IMO — Res. — MSC.97(73)- (2000 HSC Code), IMO COMSAR Circ.16, IMO COMSAR Circ.32.	1 (2008). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).
A.2/5.3	Inmarsat-F SES	Moved to A.1/5.19.			
A.2/5.4	Distress panel	—	Reg. — IV/14, Reg. — X/3, IMO — Res. — MSC.36(63)- (1994 HSC Code), IMO — Res. — MSC.97(73)- (2000 HSC Code).	Reg. — IV/6, IMO Res. — A.694(17), IMO Res. — MSC.36(63)- (1994 HSC Code), IMO — Res. — MSC.97(73)- (2000 HSC Code), IMO MSC/ Circ. 862, IMO COMSAR Circ.32.	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).
A.2/5.5	Distress alarm or alert panel	—	Reg. — IV/14, Reg. — X/3, IMO — Res. — MSC.36(63)- (1994 HSC Code),	Reg. — IV/6, IMO Res. — A.694(17), IMO Res. — MSC.36(63)- (1994 HSC Code),	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or,

		—	IMO Res. MSC.97(73)-(2000 HSC Code).	—	IMO Res. MSC.97(73)-(2000 HSC Code), IMO MSC/Circ.862, IMO COMSAR Circ.32.	—	IEC 60945 (2002) 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. XI-2/6,	—	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), EN 61162 Series. Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 Series.
		—	IMO Res. MSC.147(77),	—	IMO Res. MSC.147(77),	—	EN 61162 Series. Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), IEC 61162 Series.
A.2/5.8 Ex A.1/5.16	Aeronautical two way VHF radio telephone apparatus	—	Reg. IV/14,	—	Reg. IV/7,	—	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), ETSI EN
		—	Reg. X/3,	—	IMO Res. A.694(17),	—	IEC 60945 Corrigendum 1 (2008),
		—	IMO Res. MSC.36(63)-(1994 HSC Code) 14,	—	IMO Res. MSC.36(63)-(1994 HSC	—	IEC 60945 Corrigendum 1 (2008), ETSI EN

Status: This is the original version (as it was originally adopted).

		—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	Code) 14, IMO Res. MSC.97(73)- (2000— HSC Code) 14, — IMO Res. MSC.80(70), — IMO COMSAR Circ.32, — ICAO Convention, Annex 10, Radio - Regulations.	301 688 V1.1.1 (2000-07). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), ETSI EN 301 688 V1.1.1 (2000-07).
--	--	---	--	--	---

6. Equipment required under COLREG 72

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

				—	Annex III/1 (Performance), Bells or Gongs — COLREG 72 Annex III/2 (Performance). Or, IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), Whistles — COLREG 72 Annex III/1 (Performance), Bells or Gongs — COLREG 72 Annex III/2 (Performance).
--	--	--	--	---	---

7. Bulk carrier safety equipment

No	Item designation	Regulation SOLAS 74, as amended, where “type approval” is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6

Status: This is the original version (as it was originally adopted).

A.2/7.1	Loading instrument	—	Reg. XII/11, 1997 SOLAS Conference Res. 5.	—	Reg. XII/11, 1997 SOLAS Conference Res. 5.	IMO MSC.1/Circ.1229.	
A.2/7.2	Water level detectors on bulk carriers	Item deleted					

8. SOLAS Chapter II-1 equipment

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

- (1) OJ L 46, 17.2.1997, p. 25.
- (2) OJ L 239, 15.9.2011, p. 1.
- (3) OJ L 312, 10.11.2012, p. 1.