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Suppliment tal-Gazzetta tal-Gvern ta' Malta, Nru. 19,454, 17 ta' Lulju, 2015
Taqsima B

L.N. 230 of 2015

PRODUCT SAFETY ACT (CAP. 427) Conformity Assessment of Marine Equipment (Amendment) Regulations, 2015

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

Citation and Scope.

S.L. 427.60

1. (1) The title of these regulations is the Conformity Assessment of Marine Equipment (Amendment) Regulations, 2015, and they shall be read and construed as one with the Conformity Assessment of Marine Equipment Regulations, hereinafter referred to as "the principal regulations".

(2) These regulations transpose Commission Directive 2014/93/EU of 18 July 2014 amending Council Directive 96/98/EC on marine equipment.

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

(4) These regulations shall come into force on 14th August 2015.

Amends regulation 5 of the principal regulations.

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

"(b) Equipment listed in Schedule Ia as "new item" or as having been transferred from Schedule Ib which was manufactured before 14 August 2015 in accordance with procedures for type-approval already in force before this date, may continue to be placed on the market and on board a Community ship until 14 August 2017."

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

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

"Schedule I
(Based on Annex A of Directive 96/98/EC) (Regulation 5)
List of Acronyms Used
General note for Schedule I: SOLAS Regulations refer to SOLAS consolidated version 2009.

General note for Schedule I: within certain item designations,

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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 Radiocom-munications 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.

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LSA, Life saving appliance.

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

MEPC, Marine Environment Protection Committee.

MSC, Maritime Safety Committee.

NOx, Nitrogen Oxides.

O2/HC systems: Oxygen Hydro Carbon systems.

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

SOx, Sulphur Oxides.

Reg., Regulation.

Res., Resolution.

Schedule Ia

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

Notes applicable to the whole of Schedule Ia:

(a) General: in addition to the testing standards specifically mentioned, a number of provisions, which must be checked during type-examination (type approval) as referred to in the modules for conformity assessment in Schedule II, are to be found in the applicable requirements of the international conventions and the relevant resolutions and circulars of the IMO.

(b) Column 1: Article 2 of Commission Directive 2013/32/EU may apply (8th Amendment of MED Annex A).

(c) Column 1: Article 2 of Commission Directive 2013/52/EU may apply (9th Amendment of MED Annex A).

(d) Column 5: where IMO Resolutions are cited, only the testing standards contained in relevant parts of the Annexes to the Resolutions are applicable and exclude the provisions

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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 Schedule shall be without prejudice to carriage requirements in the international conventions.

1. Life-saving appliances

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

No.	Item designation	Regulation on SOLAS 74, as amended, where "type approval " is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/1.1	Lifebuoys	— Reg. III/4, — Reg. X/3.	— Reg. III/7, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, II, — IMO Res. MSC.97(73)-(2000) HSC Code) 8.	— IMO Res. MSC.81(70).	B + D B + E B + F

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A.1/1.2	Position-indicating lights for life- saving appliances: (a) for survival craft and rescue boats, (b) for lifebuoys, (c) for lifejackets.	— Reg. III/4, — Reg. X/3.	— Reg. III/7, — Reg. III/22, — Reg. III/26, — Reg III/32, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) II, IV, — IMO Res. MSC.97(73)-(2000) HSC Code) 8.	— IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.3	Lifebuoys self-activating smoke signals	— Reg. III/4, — Reg. X/3.	— Reg. III/7, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, II, — IMO Res. MSC.97(73)-(2000) HSC Code) 8.	— IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.4	Lifejackets	— Reg. III/4, — Reg. X/3.	— Reg. III/7, — Reg. III/22, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, II, — IMO Res. MSC.97(73)-(2000) HSC Code) 8, — IMO MSC/Circ.922, — IMO MSC.1/Circ.1304.	— IMO Res. MSC.81(70).	B + D B + E B + F

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A.1/1.5	Immersion suits and anti-exposure suits designed to be worn in conjunction WITH a lifejacket a) immersion suit without inherent insulation b) immersion suit with inherent insulation c) anti exposure suits	— Reg. III/4, — Reg. X/3.	— Reg. III/7, — Reg. III/22, — Reg. III/32, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, II, — IMO Res. MSC.97(73)-(2000) HSC Code) 8, — IMO MSC/Circ.1046.	— IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.6	Immersion suits and anti-exposure suits designed to be worn WITHOUT a lifejacket a) immersion suit without inherent insulation b) immersion suit with inherent insulation c) anti exposure suits	— Reg. III/4, — Reg. X/3.	— Reg. III/7, — Reg. III/22, — Reg. III/32, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, II, — IMO Res. MSC.97(73)-(2000) HSC Code) 8, — IMO MSC/Circ.1046.	— IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.7	Thermal protective aids	— Reg. III/4, — Reg. X/3	— Reg. III/22, — Reg. III/32, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, II, — IMO Res. MSC.97(73)-(2000) HSC Code) 8, — IMO MSC/Circ.1046.	— IMO Res. MSC.81(70).	B + D B + E B + F

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A.1/1.8	Rocket parachute flares (pyrotechnics)	— Reg. III/4, — Reg. X/3.	— Reg. III/6, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, III, — IMO Res. MSC.97(73)-(2000) HSC Code) 8.	— IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.9	Hand flares (pyrotechnics)	— Reg. III/4, — Reg. X/3.	— Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, III, — IMO Res. MSC.97(73)-(2000) HSC Code) 8.	— IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.10	Buoyant smoke signals (pyrotechnics)	— Reg. III/4, — Reg. X/3.	— Reg. III/34, — IMO Res. MSC.48(66)-(LSA Code) I, III.	— IMO Res. MSC.81(70).	B + D B + E B + F
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

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A.1/1.12	Inflatable liferafts	— Reg. III/4, — Reg. X/3.	— Reg. III/13, — Reg. III/21, — Reg. III/26, — Reg. III/31, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, IV, — IMO Res. MSC.97(73)-(2000) HSC Code) 8, — IMO MSC/Circ.811.	— IMO Res. MSC.81(70).	B + D B + E B + F

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A.1/1.13	Rigid life rafts	— 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.	B + D B + E B + F
A.1/1.14	Automatically self-righting liferafts	— Reg. III/4, — Reg. X/3.	— Reg. III/26, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC 48(66)-(LSA Code) I, IV, — IMO Res. MSC.97(73)-(2000) HSC Code) 8, — IMO MSC/Circ.809, — IMO MSC/Circ.811.	— IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.15	Canopied reversible liferafts	— Reg. III/4, — Reg. X/3.	— Reg. III/26, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, IV, — IMO Res. MSC.97(73)-(2000) HSC Code) 8, — IMO MSC/Circ.809, — IMO MSC/Circ.811.	— IMO Res. MSC.81(70).	B + D B + E B + F

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A.1/1.16	Float-free arrangements for liferafts (hydrostatic release units)	— Reg. III/4, — Reg. X/3.	— Reg. III/13, — Reg. III/26, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, IV, — IMO Res. MSC.97(73)-(2000) HSC Code) 8, — IMO MSC/ Circ.811.	— IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.17	Lifeboats: (a) Davit- launched lifeboats: — partially enclosed, — totally enclosed. (b) Free-fall lifeboats.	— Reg. III/4, — Reg. X/3.	— Reg. III/21, — Reg. III/31, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, IV, — IMO Res. MSC.97(73)-(2000) HSC Code) 8, — IMO MSC.1/ Circ.1423.	— IMO Res. MSC.81(70), — IMO MSC/ Circ.1006.	B + D B + F G
A.1/1.18	Rigid rescue boats	— Reg. III/4, — Reg. X/3.	— Reg. III/21, — Reg. III/31, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, V, — IMO Res. MSC.97(73)-(2000) HSC Code) 8.	— IMO Res. MSC.81(70), — IMO MSC/ Circ.1006.	B + D B + F G

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A.1/1.19	Inflated rescue boats	— Reg. III/4, — Reg. X/3.	— Reg. III/21, — Reg. III/31, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, V, — IMO Res. MSC.97(73)-(2000) HSC Code) 8.	— IMO Res. MSC.81(70), —ISO 15372 (2000).	B + D B + F G
A.1/1.20	Fast rescue boats: (a) inflated (b) rigid (c) rigid- inflated	— Reg. III/4.	— Reg. III/26, — Reg. III/34, — IMO Res. MSC.48(66)-(LSA Code) I,V, — IMO MSC/ Circ.1016, — IMO MSC/ Circ.1094.	— IMO Res. MSC.81(70), — IMO MSC/ Circ.1006, —ISO 15372 (2000).	B + D B + F G
A.1/1.21	Launching appliances using falls (davits)	— Reg. III/4, — Reg. X/3.	— Reg. III/23, — Reg. III/33, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, VI, — IMO Res. MSC.97(73)-(2000) HSC Code) 8.	— IMO Res. MSC.81(70).	B + D B + E B + F G
A.1/1.22	Float free launching appliances for survival craft	Moved to A.2/1.3			

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A.1/1.23	Launching appliances for free-fall lifeboats	— Reg. III/4, — Reg. X/3.	— Reg. III/16, — Reg. III/23, — Reg. III/33, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, VI, — IMO Res. MSC.97(73)-(2000) HSC Code) 8.	— IMO Res. MSC.81(70).	B + D B + E B + F G
A.1/1.24	Liferaft launching appliances (Davits)	— Reg. III/4, — Reg. X/3.	— Reg. III/12, — Reg. III/16, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, VI, — IMO Res. MSC.97(73)-(2000) HSC Code) 8.	— IMO Res. MSC.81(70).	B + D B + E B + F G
A.1/1.25	Fast rescue boat launching appliances (Davits)	— Reg. III/4.	— Reg. III/26, — Reg. III/34, — IMO Res. MSC.48(66)-(LSA Code) I, VI.	— IMO Res. MSC.81(70).	B + D B + E B + F G
A.1/1.26	Release mechanism for (a) Lifeboats and rescue boats (launched by a fall or falls) (b) Liferafts (launched by a fall or falls)	— Reg. III/4, — Reg. X/3.	— Reg. III/16, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, IV, VI, — 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

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A.1/1.27	Marine evacuation systems	— Reg. III/4, — Reg. X/3.	— Reg. III/15, — Reg. III/26, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, VI, — IMO Res. MSC.97(73)-(2000) HSC Code) 8.	— IMO Res. MSC.81(70).	B + D B + F G
A.1/1.28	Means of rescue	— Reg. III/4.	— Reg. III/26, — Reg. III/34, — IMO Res. MSC.48(66)-(LSA Code) I, VI.	— IMO Res. MSC.81(70), — IMO MSC/ Circ.810.	B + D B + F
A.1/1.29	Embarkation ladders	— Reg. III/4, — Reg. III/11, — Reg. X/3.	— Reg. III/11, HReg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code), — IMO Res. MSC.48(66)-(LSA Code), — IMO Res. MSC.97(73)-(2000) HSC Code), — IMO MSC.1/ Circ.1285.	— IMO Res. MSC.81(70), —ISO 5489 (2008).	B + D B + F
A.1/1.30	Retro-reflective materials	— Reg. III/4, — Reg. X/3.	— Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, — IMO Res. MSC.97(73)-(2000) HSC Code) 8.	— IMO Res. A.658(16).	B + D B + E B + F
A.1/1.31	Survival craft two-way VHF radio telephone apparatus	Moved to A.1/5.17 and A.1/5.18			
A.1/1.32	9 GHz SAR transponder (SART)	Moved to A.1/4.18			

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A.1/1.33	Radar reflector for lifeboats and rescue boats (passive)	— Reg. III/4, — Reg. X/3.	— Reg. III/34, — IMO Res A.384(X), — IMO Res. MSC.36(63)-(1994 HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, IV, V, — IMO Res. MSC.97(73)-(2000 HSC Code) 8, — IMO Res. MSC.164(78).	— EN ISO 8729 (1998), — EN 60945 (2002) including IEC 60945 Corri-gendum 1 (2008). Or, — EN ISO 8729 (1998), — IEC 60945 (2002) including IEC 60945 Corri-gendum 1 (2008). Or, — ISO 8729-1 (2010), — EN 60945 (2002) including IEC 60945 Corri-gendum 1 (2008). Or, — ISO 8729-1 (2010), — IEC 60945 (2002) including IEC 60945 Corri-gendum 1 (2008).	B + D B + E B + F
A.1/1.34	Compass for lifeboats and rescue boats	Moved to A.1/4.23			
A.1/1.35	Portable fire — extinguishing equipment for lifeboats and rescue boats	Moved to A.1/3.38			
A.1/1.36	Lifeboat/ rescue boat propulsion engine	— Reg. III/4, — Reg. X/3.	— Reg. III/34, — IMO Res. MSC.48(66)-(LSA Code) IV, V.	— IMO Res. MSC.81(70).	B + D B + E B + F

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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 liferafts	— Reg. III/4, — Reg. X/3.	— IMO Res. MSC.36(63)-(1994 HSC Code) 8, Annex 10, — IMO Res. MSC.48(66)-(LSA Code) I, — IMO Res. MSC.97(73)-(2000 HSC Code) 8, Annex 11.	— IMO Res. MSC.36(63)-(1994 HSC Code) Annex 10, — IMO Res. MSC.97(73)-(2000 HSC Code) Annex 11.	B + D B + F
A.1/1.40	Mechanical pilot hoist	Moved to A.1/4.48			
A.1/1.41	Winches for survival craft and rescue boats (a) davit launched lifeboats, (b) free-fall lifeboats, (c) life rafts, (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			

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A.1/1.43	Rigid/inflated rescue boats	— Reg. III/4, — Reg. X/3.	— Reg. III/21, — Reg. III/31, — Reg. III/34, — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, V, — IMO Res. MSC.97(73)-(2000) HSC Code) 8.	— IMO Res. MSC.81(70), — IMO MSC/ Circ.1006, —ISO 15372 (2000).	B + D B + F G

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, Reg14.	Annex I, Reg. 14, — IMO MEPC.1/ Circ.643.	— IMO Res. MEPC.107(49), — IMO MEPC.1/ Circ.643.	B + D B + E B + F
A.1/2.2	Oil/water interface detectors	— Annex I, Reg. 32.	— Annex I, Reg. 32.	— IMO Res. MEPC.5(XIII).	B + D B + E B + F
A.1/2.3	Oil-content meters	— Annex I, Reg.14.	Annex I, Reg. 14, — IMO MEPC.1/ Circ.643.	— IMO Res. MEPC.107(49), — IMO MEPC.1/ Circ.643.	B + D B + E B + F

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A.1/2.4	Process units intended for attachment to existing oily water separating equipment (for an oil content of the effluent not exceeding 15 p.p.m.)	Deliberately left blank			
A.1/2.5	Oil discharge monitoring and control system for oil tankers	— Annex I, Reg. 31, — IMO MEPC.1/ Circ.761 Rev.1.	— Annex I, Reg. 31.	— IMO Res. MEPC.108(49).	B + D B + E B + F
A.1/2.6	Sewage systems	— Annex IV, Reg. 9.	— Annex IV, Reg.	Until 31 December 2015: — IMO Res. MEPC.159(55). As from 1 January2016: — IMO Res. MEPC.227(64)	B + D B + E B + F
A.1/2.7	Shipboard incinerators	— Annex VI, Reg. 16.	— Annex VI, Reg.16, — IMO MEPC.1/ Circ.793	— IMO Res. MEPC.76(40).	B + D B + E B + F G
A.1/2.8	NOx analyser of Chemilumine scent detector (CLD) or heated Chemilumine scent detector (HCLD) type for use in on board direct measurement	— IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 13)	— IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg.13); — IMO Res. MEPC.177(58) - (NOx Technical code2008), — IMO Res. MEPC.198(62), — IMO MEPC.1/ Circ.638.	— IMO Res. MEPC.177(58) - (NOx Technical code), — IEC 60092-504:2001 incl. IEC 60092-504 Corr.1: 2011.	B + D B + E B + F G
A.1/2.9	Equipment using other technological methods to limit SOx emissions	Moved to A.2/2.4			
A.1/2.10	On board exhaust gas cleaning systems	— IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4), — IMO Res. MEPC.184(59).	— IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4).	— IMO Res. MEPC.184(59).	B + D B + E B + F G

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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 assess ment
1	2	3	4	5	6
A.1/3.1	Primary decks covering	— Reg. II-2/4, — Reg. II-2/6, — Reg. X/3.	— Reg. II-2/4, — Reg. II-2/6, — IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7.	— IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.2	Portable fire extinguishers	— Reg. II-2/10, — Reg. X/3, — IMO Res. MSC.98(73)-(FSS Code)4.	— Reg. II-2/4, — Reg. II-2/10, — Reg. II-2/18, — Reg. II-2/19, — Reg. II-2/20, — IMO Res. A.951(23), — IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7, — IMO Res. MSC.98(73)-(FSS Code) 4, — IMO MSC/Circ.1239, — IMO MSC/Circ.1275.	— EN 3-7 (2004) including A.1 (2007), — EN 3-8 (2006) including AC (2007), — EN 3-9 (2006) including AC (2007), — EN 3-10 (2009).	B + D B + E B + F

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A.1/3.3	Fire-fighter's outfit: protective clothing (close proximity clothing)	— Reg. II-2/10, — Reg. X/3, — IMO Res. MSC.98(73) - (FSS Code)3.	— Reg. II-2/10, — IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7, — IMO Res. MSC.98(73)- (FSS Code) 3.	Protective clothing for fire fighting: — EN 469 (2005) including A1 (2006) and AC (2006).	B + D B + E B + F
				Protective clothing for fire fighting – Reflective clothing for specialised fire-fighting: — EN 1486 (2007).	
				Protective clothing for fire fighting – Protective clothing with a reflective outer surface: — ISO 15538 (2001) Level 2.	
A.1/3.4	Fire-fighter's outfit: boots	— Reg. II-2/10, — Reg. X/3, — IMO Res. MSC.98(73) -(FSS Code) 3.	— Reg. II-2/10, — IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7, — IMO Res. MSC.98(73)- (FSS Code) 3.	— EN 15090 (2012).	B + D B + E B + F
A.1/3.5	Fire-fighter's outfit: gloves	— Reg. II-2/10, — Reg. X/3, — IMO Res. MSC.98(73) -(FSS Code) 3.	— Reg. II-2/10, — IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7, — IMO Res. MSC.98(73)- (FSS Code) 3.	— EN 659 (2003) including A1 (2008) and AC (2009).	B + D B + E B + F

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A.1/3.6	Fire-fighter's outfit: helmet	— Reg. II-2/10, — Reg. X/3, — IMO Res. MSC.98(73) -(FSS Code) 3.	— Reg. II-2/10, — IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7, — IMO Res. MSC.98(73)- (FSS Code) 3.	— EN 443 (2008).	B + D B + E B + F
A.1/3.7	Self-contained compressed-air-operated breathing apparatus *Note*: For use in accidents involving dangerous goods a positive pressure type mask is required.	— Reg. II-2/10, — Reg. X/3, — IMO Res. MSC.98(73) -(FSS Code) 3.	— Reg. II-2/10, — IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7, — IMO Res. MSC.98(73)- (FSS Code) 3. — And where the apparatus is for use in accidents with cargo: — IMO Res. MSC.4(48)- (IBC Code) 14, — IMO Res. MSC.5(48)- (IGC Code) 14.	— EN 136 (1998) including AC (2003), — EN 137 (2006). And where the apparatus is for use in accidents with cargo: —ISO 23269-3(2011).	B + D B + E B + F
A.1/3.8	Compressed air line breathing apparatus	— Reg. X/3. — IMO Res. MSC.36(63) -(1994 HSC Code) 7. — *Note*: This equipment is only for high speed craft built under provisions of the 1994 HSC Code.	— IMO Res. MSC.36(63)-(1994) HSC Code) 7.	— EN 14593-1 (2005), — EN 14593-2 (2005) including AC (2005), — EN 14594 (2005) including AC (2005).	B + D B + E B + F

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A.1/3.9	Sprinkler systems components for accommodation spaces, service spaces and control stations equivalent to that referred to in SOLAS 74 Reg. II-2/12 (limited to nozzles and their performance). (Nozzles for fixed sprinkler systems, for high speed craft (HSC) are included under this item)	— Reg. II-2/7, — Reg. II-2/10, — Reg. X/3, — IMO Res. MSC.98(73) -(FSS Code) 8.	— Reg. II-2/7, — Reg. II-2/9, — Reg. II-2/10, — IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.44(65), — IMO Res. MSC.97(73)-(2000) HSC Code) 7, — IMO Res. MSC.98(73)- (FSS Code) 8. — IMO MSC/ Circ.912.	— IMO Res. A.800(19).	B + D B + E B + F
A.1/3.10	Nozzles for fixed pressure water spraying fire extinguishing systems for machinery spaces and cargo pump-rooms	— Reg. II-2/10, — Reg. X/3, — IMO Res. MSC.98(73) -(FSS Code) 7.	— Reg. II-2/10, — IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7, — IMO Res. MSC.98(73)- (FSS Code) 7, — IMO MSC.1/ Circ.1313.	— IMO MSC/ Circ.1165, Appendix A.	B + D B + E B + F
A.1/3.11	"A" & "B" Class divisions fire integrity (a) "A" class divisions, (b) "B" class divisions.	"A" Class: — Reg. II-2/3.2. "B" Class: — Reg. II-2/3.4.	— Reg.II-2/9, and, "A" Class: — Reg. II-2/3.2. — IMO MSC/ Circ.1120 — IMO MSC.1/ Circ.1434 "B" Class: — Reg. II-2/3.4.	— IMO Res. MSC.307(88)-(2010 FTP Code). — IMO MSC.1/ Circ.1435	B + D B + E B + F
A.1/3.12	Devices to prevent the passage of flame into the cargo tanks in tankers	— Reg. II-2/4, — Reg. II-2/16.	— Reg II-2/4, — Reg II-2/16	— EN 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

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A.1/3.13	Non-combustible materials	— Reg. II-2/3, — Reg. X/3.	— Reg. II-2/3, — Reg. II-2/5, — Reg. II-2/9, — IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7.	— IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.14	Materials other than steel for pipes penetrating "A" or "B" Class division	Item included in A.1/3.26 and A.1/3.27			
A.1/3.15	Materials other than steel for pipes conveying oil or fuel oil (a) plastic pipes and fittings, (b) valves, (c) flexible pipe assemblies and compensators, (d) metallic pipe components with resilient and elastomeric seals.	— Reg. II-2/4, — Reg. X/3.	— Reg. II-2/4, — IMO Res. MSC.36(63)-(1994) HSC Code) 7, 10, — IMO Res. MSC.97(73)-(2000) HSC Code) 7, 10. — IMO MSC/Circ.1120.	Pipes and fittings: — IMO Res. A.753(18). Valves: — EN ISO 10497 (2010). Flexible pipe assemblies: — EN ISO 15540 (2001) — EN ISO 15541 (2001). Metallic pipe components with resilient and elastomeric seals. —ISO 19921 (2005), —ISO 19922 (2005).	B + D B + E B + F

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A.1/3.16	Fire Doors	— Reg. II-2/9.	— Reg. II-2/9.	— IMO Res. MSC.307(88)-(2010 FTP Code). — IMO MSC.1/Circ.1319.	B + D B + E B + F
A.1/3.17	Fire door control systems components. *Note*: When the term "system components" is used in column2 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, (e) adhesives used in the construction of "A", "B" & "C" class divisions, (f) combustible ducts membrane	— Reg. II-2/3, — Reg. II-2/5, — Reg. II-2/6 for (a),(b),(c) — Reg. II-2/9, for (e),(f) — Reg. X/3.	— Reg. II-2/3, — Reg. II-2/5, — Reg. II-2/6, — Reg. II-2/9, — IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7. — IMO MSC/Circ.1120.	— IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.19	Draperies, curtains and other suspended textile materials and films	— Reg. II-2/3, — Reg. II-2/9, — Reg. X/3.	— Reg. II-2/3, — Reg. II-2/9, — IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7.	— IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F

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A.1/3.20	Upholstered furniture	— Reg. II-2/3, — Reg. II-2/5, — Reg. II-2/9, — Reg.X/3.	— Reg. II-2/3, — Reg. II-2/5, — Reg. II-2/9, — IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7.	— IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.21	Bedding components	— Reg. II-2/3, — Reg. II-2/9, — Reg. X/3.	— Reg. II-2/3, — Reg. II-2/9, — IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7.	— IMO Res. MSC.307(88)-(2010 FTP Code).	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 (a) electric cable transits, (b) pipe, duct, trunk, etc. penetrations.	— Reg. II-2/9.	— Reg. II-2/9, — IMO MSC.1/Circ.1276. (only applicable to (b))	— IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F

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A.1/3.27	Penetrations through "B" class divisions (a) electric cable transits, (b) pipe, duct, trunk, etc. penetrations.	— Reg. II-2/9.	— Reg. II-2/9.	— IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.28	Sprinkler systems (limited to sprinkler heads). (Nozzles for fixed sprinkler systems, for high speed craft (HSC) are included under this item)	— Reg. II-2/7, — Reg. II-2/10, — Reg. X/3.	— Reg. II-2/7, — Reg. II-2/10, — IMO Res. MSC.36(63)-(1994 HSC Code) 7, — IMO Res. MSC.44(65), — IMO Res. MSC.97(73)-(2000 HSC Code) 7, — IMO Res. MSC.98(73)-(FSS Code) 8, — IMO MSC/Circ.912.	— ISO 6182-1 (2004). Or, EN 12259-1 (1999) including A1 (2001), A2 (2004) and A3 (2006).	B + D B + E B + F
A.1/3.29	Fire hoses	— Reg. II-2/10, — Reg. X/3.	— Reg. II-2/10, — IMO Res. MSC.36(63)-(1994 HSC Code) 7, — IMO Res. MSC.97(73)-(2000 HSC Code) 7.	— EN 14540 (2004) including A.1 (2007).	B + D B + E B + F

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A.1/3.30	Portable oxygen analysis and gas detection equipment	— Reg. II-2/4, — Reg. VI/3.	— Reg. II-2/4, — Reg. VI/3, — IMO Res. MSC.98(73)-(FSS Code) 15.	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008) or IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011) — IEC 60533 (1999), and as applicable to: a) Category 1: (safe area): — EN 50104 (2010), — EN 60079-29-1 (2007). b) Category 2: (explosive gas atmospheres): — EN 50104 (2010), — EN 60079-29-1 (2007), — EN 60079-0 (2012), — 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).	B + D B + E B + F

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A.1/3.31	Nozzles for fixed sprinkler systems, for high speed craft (HSC)	Item deleted as it is covered by A.1/3.9 and A.1/3.28			
A.1/3.32	Fire restricting materials (except furniture) for high speed craft	— Reg. X/3.	— IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7.	— IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.33	Fire restricting materials for furniture for high speed craft	— Reg. X/3.	— IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7.	— IMO 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.1/3.38	Portable fire-extinguishing equipment for lifeboats and rescue boats	— Reg. III/4, — Reg. X/3.	— Reg. III/34, — IMO Res. A.951(23), — IMO Res. MSC.36(63)-(1994) HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, IV, V, — IMO Res. MSC.97(73)-(2000) HSC Code) 8.	— 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

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A.1/3.39	Nozzles for equivalent water-mist fire extinguishing systems for machinery spaces and cargo pump rooms	— Reg. II-2/10, — Reg. X/3.	— Reg. II-2/10, — IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7, — IMO Res. MSC.98(73)- (FSS Code) 7, — IMO MSC.1/ Circ.1313.	— IMO MSC/ Circ.1165.	B + D B + E B + F
A.1/3.40	Low-location lighting systems (components only)	— Reg. II-2/13, — IMO Res. MSC.98(73) -(FSS Code) 11.	— Reg. II-2/13, — IMO Res. A.752(18), — IMO Res. MSC.98(73)- (FSS Code) 11.	— IMO Res. A.752(18). Or, —ISO 15370 (2010).	B + D B + E B + F

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A.1/3.41	Emergency escape breathing devices (EEBD)	— Reg. II-2/13.	— Reg. II-2/13, — IMO Res. MSC.98(73)- (FSS Code) 3, — IMO MSC/ Circ.849.	— ISO 23269-1 (2008), and alternatively:	B + D B + E B + F
				For self-contained:open — circuit compressed air breathing apparatus with full mask or mouthed piece assembly for escape: — EN	
				For self-contained:open — circuit compressed air breathing apparatus with a hood for escape: — EN 1146(2005).	
				For self-contained: closed — circuit compressed air breathing apparatus: — EN 13794(2002).	
A.1/3.42	Inert gas systems components	— Reg. II-2/4.	— Reg. II-2/4, — IMO Res. A.567(14), — IMO Res. MSC.98(73)- (FSS Code) 15, — IMO MSC/ Circ.353, — IMO MSC/ Circ.485, — IMO MSC/ Circ.731, — IMO MSC/ Circ.1120.	— IMO MSC/ Circ.353.	B + D B + E B + F G

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A.1/3.43	Nozzles for deep fat cooking equipment fire extinguishing systems (automatic or manual type).	— Reg. II-2/1, — Reg. II-2/10, — Reg. X/3.	— Reg. II-2/1, — Reg. II-2/10, — IMO Res. MSC.97(73)-(2000) HSC Code) 7, — IMO MSC.1/ Circ.1433.	—ISO 15371 (2009).	B + D B + E B + F
A.1/3.44	Fire-fighters outfit — lifeline	— Reg. II-2/10, — Reg. X/3, — IMO Res. MSC.98(73) -(FSS Code) 3.	— Reg. II-2/10, — IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7, — IMO Res. MSC.98(73)- (FSS Code) 3.	— IMO Res. MSC.98(73)-(FSS Code) 3, — IMO Res. MSC.307(88)-(2010 FTP Code).	B + D B + E B + F
A.1/3.45	Equivalent fixed gas fire extinguish-ing systems com-ponents (extinguishing medium, head valves and nozzles) for machinery spaces and cargo pump rooms	— Reg. II-2/10, — Reg. X/3, — IMO Res. MSC.98(73)-(FSS Code) 5.	— Reg. II-2/10, — IMO Res. MSC.36(63)-(1994 HSC Code) 7, — IMO Res. MSC.97(73)-(2000 HSC Code) 7, — IMO Res. MSC.98(73)-(FSS Code) 5, — IMO MSC/ Circ.848, — IMO MSC.1/ Circ.1313, — IMO MSC.1/ Circ.1316.	— IMO MSC/ Circ.848, — IMO MSC.1/ Circ.1316.	B + D B + E B + F

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A.1/3.46	Equivalent fixed gas fire extinguishing systems for machinery spaces (aerosol systems)	— Reg. II-2/10, — Reg. X/3, — IMO Res. MSC.98(73)-(FSS Code) 5.	— Reg. II-2/10, — IMO Res. MSC.36(63)-(1994 HSC Code) 7, — IMO Res. MSC.97(73)-(2000 HSC Code) 7, — IMO Res. MSC.98(73)-(FSS Code) 5, — IMO MSC.1/Circ.1270 including Corrigendum 1 — IMO MSC.1/Circ.1313.	— IMO MSC.1/Circ.1270 including Corrigendum 1.	B + D B + E B + F
A.1/3.47	Concentrate for Fixed High Expansion Foam Fire Extinguishing Systems for Machinery Spaces and Cargo Pump Rooms. *Note*: The fixed high expansion foam fire extinguishing system (including those systems which use inside air from their working spaces for their intended performance), for machinery spaces and cargo pump rooms must still be tested with the approved concentrate to the satisfaction of the Administration.	— Reg. II-2/10.	— Reg. II-2/10, — IMO Res. MSC.98(73)-(FSS Code) 6.	— IMO MSC/Circ.670.	B + D B + E B + F

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A.1/3.48	Fixed water based local application fire fighting systems components for use in category “A” machinery spaces (Nozzles and performance tests).	— Reg. II-2/10, — Reg. X/3.	— Reg. II-2/10, — IMO Res. MSC.36(63)-(1994 HSC Code) 7, — IMO Res. MSC.97(73)-(2000 HSC Code) 7.	— IMO MSC.1/Circ.1387.	B + D B + E B + F
A.1/3.49	Fixed water-based fire-fighting systems for ro-ro spaces, vehicle spaces and special category spaces	— Reg. II-2/19, — Reg. II-2/20, — Reg. X/3, — IMO Res. MSC.98(73)-(FSS Code) 7.	— Reg. II-2/19, — Reg. II-2/20, — IMO Res. MSC.36(63)-(1994 HSC Code) 7, — IMO Res. MSC.97(73)-(2000 HSC Code) 7. — IMO Res. MSC.98(73)-(FSS Code) 7.	— IMO MSC.1/Circ.1430. And the additional design requirements for: — Prescriptive-based systems as per Circ. 1430 Clause 4: — Performance-based systems as per Circ. 1430 Clause 5.	B + D B + E B + F
A.1/3.50	Protective clothing resistant to chemical attack	Moved to A.2/3.9			

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A.1/3.51	Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces (a) Control and indicating equipment (b) Power supply equipment (c) Heat detectors — Point detectors (d) Smoke detectors: Point detectors using scattered light, transmitted light or ionization (e) Flame detectors: Point detectors (f) Manual call points (g) Short circuit isolators (h) Input/output devices (i) Cables	— Reg. II-2/7, — Reg. X/3, — IMO Res. MSC.98(73)-(FSS Code) 9.	— Reg. II-2/7, — IMO Res. MSC.36(63)-(1994 HSC Code) 7, — IMO Res. MSC.97(73)-(2000 HSC Code) 7, — IMO Res. MSC.98(73)-(FSS Code) 9, — IMO MSC.1/Circ.1242.	Control and indicating equipment. Electrical installations in ships: — EN 54-2 (1997) including AC(1999) and A1(2006).	B + D B + E B + F
				Power supply equipment: — EN 54-4 (1997) including AC(1999), A1(2002) and A2(2006).	
				Heat detectors — Point detectors: — EN 54-5 (2000) including A1(2002).	
				Smoke detectors — Point detectors using scattered light, transmitted light or ionization: — EN 54-7 (2000) including A1(2002) and A2(2006).	
				Flame detectors — Point detectors: — EN 54-10 (2002) including A1(2005).	
				Manual call points: — EN 54-11 (2001) including A1(2005).	
				Short circuit isolators: — EN 54-17 (2007) including AC(2007).	
				Input/output devices: — EN 54-18 (2005) including AC(2007).	

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				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 Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7.	— EN 1866-1 (2007). — EN 1866-3 (2013). Or, —ISO 11601 (2008).	B + D B + E B + F
A.1/3.53	Fire alarm devices — Sounders	— Reg. II-2/7, — Reg. X/3, — IMO Res. MSC.98(73) -(FSS Code) 9.	— Reg. II-2/7, — IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7, — IMO Res. MSC.98(73)- (FSS Code) 9, — IMO MSC.1/ Circ.1313.	Sounders — EN 54-3 (2001) including A1(2002) and A2(2006), — IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), — IEC 60533 (1999).	B + D B + E B + F

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A.1/3.54	Fixed oxygen analysis and gas detection equipment	— Reg. II-2/4, — Reg. VI/3.	— Reg. II-2/4, — Reg. VI/3, — IMO Res. MSC.98(73)- (FSS Code) 15. For combined O2/ HC systems additionally:, — IMO MSC.1/ Circ.1370.	— IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), — IEC 60533 (1999), and as applicable to: a) Category 4: (safe area) — EN 50104 (2010). b) Category 3: (explosive gas atmospheres) — EN 50104 (2010), — EN 60079-0 (2012), — EN 60079-29-1 (2007). For combined O2/HC systems additionally:, — IMO MSC.1/ Circ.1370.	B + D B + E B + F

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A.1/3.55	Dual purpose type nozzles (spray/jet type)	— Reg. II-2/10, — Reg. X/3.	— Reg. II-2/10, — IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7.	Hand-held branchpipes for fire service use – Combination branchpipes PN 16: — EN 15182-1 (2007) including A1(2009), — EN 15182-2 (2007) including A1(2009).	B + D B + E B + F
				Hand-held branchpipes for fire service use – Smooth bore jet and/or one fixed spray jet angle branchpipes PN 16: — EN 15182-1 (2007) including A1(2009).	
A.1/3.56	Fire hoses (reel type)	— Reg. II-2/10, — Reg. X/3.	— Reg. II-2/10, — IMO Res. MSC.36(63)-(1994) HSC Code) 7, — IMO Res. MSC.97(73)-(2000) HSC Code) 7.	— EN 671-1 (2012)	B + D B + E B + F
A.1/3.57	Medium Expansion Foam Fire Extinguishing Systems components — Fixed Deck Foam for Tankers	— Reg. II-2/10.	— Reg. II-2/10.8.1, — IMO Res. MSC.98(73)-(FSS Code) 14, — IMO MSC.1/Circ.1239, — IMO MSC.1/Circ.1276.	— IMO MSC/Circ.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.1/Circ.1312. — IMO MSC.1/Circ.1312/Corr.1.	B + D B + E B + F

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A.1/3.59	Expansion Foam for Fixed Fire Extinguishing Systems for Chemical Tankers	— Reg. II-2/1, — IMO Res. MSC.4(48)- (IBC Code) 11	— IMO Res. MSC.4(48)- (IBC Code) 11, — IMO MSC/ Circ.553.	— IMO MSC.1/ Circ.1312. — IMO MSC.1/ Circ.1312/ Corr.1.	B + D B + E B + F
A.1/3.60	Nozzles for fixed pressure water-spraying fire- extinguishing systems for cabin balconies	— Reg. II-2/10.	— Reg. II-2/10, — IMO Res. MSC.98(73)- (FSS Code) 7, — IMO MSC.1/ Circ.1313..	— IMO MSC.1/ Circ.1268.	B + D B + E B + F
A.1/3.61	a) Inside air high expansion foam systems for the protection of machinery spaces and cargo pump rooms. b) Outside air high expansion foam systems for the protection of machinery spaces and cargo pump rooms. *Note*: Inside/ Outside air high expansion foam systems for the protection of machinery spaces and cargo pump rooms shall be tested with the approved concentrate to the satisfaction of the Administration	— Reg. II-2/10.	— Reg. II-2/10, — IMO Res. MSC.98(73)- (FSS Code) 6.	— IMO MSC.1/ Circ.1384.	B + D B + E B + F
A.1/3.62	Dry chemical powder extinguishing systems	— Reg. II-2/1.	— Reg. II-2/1, — IMO Res. MSC.5(48)- (IGC Code) 11.	— IMO MSC.1/ Circ.1315.	B + D B + E B + F

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A.1/3.63 Refer to note b) of this Annex A.1	Sample extraction smoke detection systems components	— Reg. II-2/7, — Reg. II-2/19, — Reg. II-2/20.	— Reg. II-2/7, — Reg. II-2/19, — Reg. II-2/20, — IMO Res. MSC.98(73)- (FSS Code) 10.	— IMO Res. MSC.98(73)- (FSS Code) 10, and for:	B + D B + E B + F
				Control and indicating equipment. Electrical installations in ships: — EN 54-2 (1997) including AC(1999) and A1(2006).	
				Power supply equipment: — EN 54-4 (1997) including AC(1999), A1(2002) and A2(2006).	
				Aspiring smoke detectors: — EN 54-20 (2006) including AC(2008).	
				And, as applicable, electrical and electronic installations in ships: — IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011) — IEC 60533 (1999).	
A.1/3.64 Refer to note b) of this Annex A.1	C class Divisions	— Reg. II-2/3.	— Reg. II-2/3, — Reg. II-2/9.	— IMO Res. MSC.307(88)- (2010 FTP Code).	B + D B + E B + F

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A.1/3.65 Refer to note b) of this Annex A.1	Fixed hydrocarbon gas detection system	— Reg. II-2/4.	— Reg. II-2/4, — IMO Res. MSC.98(73)- (FSS Code) 16, — IMO MSC.1/ Circ.1370.	— IMO MSC.1/ Circ.1370, — EN 60079-0 (2012). — EN 60079-29-1 (2007), — IEC 60092-504 (2001) including IEC 60092-504 Corrigendum 1 (2011), — IEC 60533 (1999).	B + D B + E B + F
A.1/3.66 Refer to note b) of this Annex A.1	Evacuation guidance systems used as an alternative to low-location lighting systems	— Reg. II-2/13.	— Reg. II-2/13, — IMO MSC.1/ Circ.1168.	— IMO MSC.1/ Circ.1168.	B + D B + E B + F
A.1/3.67 Refer to note c) of this Annex A.1	Helicopter facility foam fire-fighting appliances	— Reg. II-2/18.	— Reg. II-2/18. — IMO MSC.1/ Circ.1431.	— EN 13565-1 (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 61162-450 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 —

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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 61162-450 (2011) - Part 450: Multiple talkers and multiple listeners — Ethernet interconnection

No.	**Item designation**	**Regulation SOLAS 74, as amended, where "type approval" is required**	**Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable**	**Testing standards**	**Modules for conformity assessment**
1	2	3	4	5	6
A.1/4.1	Magnetic compass Class A for ships	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.382(X), — IMO Res. A.694(17), — IMO Res. MSC.36(63)- (1994) HSC Code) 13, — IMO Res. MSC.97(73)- (2000) HSC Code) 13.	—ISO 1069 (1973), —ISO 25862 (2009), — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, —ISO 1069 (1973), —ISO 25862 (2009), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F G

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A.1/4.2	Transmitting heading device THD (magnetic method)	— Reg. V/18, — Reg. V/19, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13, — IMO Res. MSC.116(73), — IMO Res. MSC.191(79).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series; — ISO 22090-2 (2004), including Corrigendum 2005, — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 series. — ISO 22090-2 (2004), including Corrigendum 2005, — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.3	Gyro compass	— Reg. V/18.	— Reg. V/19, — IMO Res. A.424(XI), — IMO Res. A.694(17), — IMO Res. MSC.191(79).	— EN ISO 8728 (1998), — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — EN 62288 (2008). Or, —ISO 8728 (1997), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 series, — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.4	Radar equipment	Moved to A.1/4.34, A.1/4.35 and A.1/4.36			
A.1/4.5	Automatic radar plotting aid (ARPA)	Moved to A.1/4.34			

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A.1/4.6	Echo — sounding equipment	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.224(VII), — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.74(69) Annex 4, — IMO Res. MSC.97(73)-(2000 HSC Code) 13, — IMO Res. MSC.191(79).	— EN ISO 9875 (2001) including ISO Technical Corrigendum 1: 2006, — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — EN 62288 (2008). Or, — ISO 9875 (2000) including ISO Technical Corrigendum 1: 2006, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 series, — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.7	Speed and distance measuring equipment (SDME)	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. A.824(19), — IMO Res. MSC.36(63)- (1994) HSC Code) 13, — IMO Res. MSC.96(72), — IMO Res. MSC.97(73)- (2000) HSC Code) 13, — IMO Res. MSC.191(79).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61023 (2007), — EN 61162 series, — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61023 (2007), — IEC 61162 series, — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

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A.1/4.8	Rudder angle, rpm, pitch indicator	Moved to A.1/4.20, A.1/4.21 and A.1/4.22			
A.1/4.9	Rate-of-turn indicator	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.526(13), — IMO Res. A.694(17), — IMO Res. MSC.36(63)- (1994) HSC Code) 13, — IMO Res. MSC.97(73)- (2000) HSC Code) 13, — IMO Res. MSC.191(79).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, —ISO 20672 (2007), — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 series, —ISO 20672 (2007), — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/ 4.10	Direction finder	Deliberately left blank			
A.1/4.11	Loran-C equipment	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. A.818(19), — IMO Res. MSC.36(63)- (1994) HSC Code) 13, — IMO Res. MSC.97(73)- (2000) HSC Code) 13, — IMO Res. MSC.191(79).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61075 (1993), — EN 61162 series, — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61075 (1991), — IEC 61162 series, — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

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A.1/4.12	Chayka equipment	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.694 (17), — IMO Res. A.818 (19), — IMO Res. MSC.36(63)- (1994) HSC Code) 13, — IMO Res. MSC.97(73)- (2000) HSC Code) 13, — IMO Res. MSC.191(79).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61075 (1993), — EN 61162 series, — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61075 (1991), — IEC 61162 series, — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.13	Decca navigator equipment	Deliberately left blank			
A.1/4.14	GPS equipment	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC.36(63)- (1994) HSC Code), — IMO Res. MSC.97(73)- (2000) HSC Code), — IMO Res. MSC.112(73), — IMO Res. MSC.191(79).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61108-1 (2003), — EN 61162 series, — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61108-1 (2003), — IEC 61162 series, — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

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A.1/4.15	GLONASS equipment	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC.36(63)- (1994) HSC Code) 13, — IMO Res. MSC.97(73)- (2000) HSC Code) 13, — IMO Res. MSC.113(73), — IMO Res. MSC.191(79).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61108-2 (1998), — EN 61162 series, — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61108-2 (1998), — IEC 61162 series, — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.16	Heading control system (HCS)	— Reg. V/18.	— Reg. V/19, — IMO Res. A.342(IX), — IMO Res. A.694(17), — IMO Res. MSC.64(67) Annex 3, — IMO Res. MSC.191(79).	—ISO 11674 (2006), — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — EN 62288 (2008). Or, —ISO 11674 (2006), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 series, — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.17	Mechanical pilot hoist	Moved to A.1/1.40			

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A.1/4.18	9 GHz SAR transponder (SART)	— Reg. III/4, — Reg. IV/14, — Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. III/6, — Reg. IV/7, — IMO Res. A.530(13), — IMO Res. A.802(19), — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994) HSC Code) 8, 14, — IMO Res. MSC.97(73)- (2000) HSC Code) 8, 14, — ITU-R M.628-3(11/93).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61097-1 (2007). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61097-1 (2007).	B + D B + E B + F G
A.1/ 4.19	Radar equipment for high- speed craft	Moved to A.1/4.37			
A.1/4.20	Rudder angle indicator	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13, — IMO Res. MSC.191(79).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — ISO 20673 (2007), — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 series, — ISO 20673 (2007), — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

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A.1/4.21	Propeller revolution indicator	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13, — IMO Res. MSC.191(79).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — ISO 22554 (2007), — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 series, — ISO 22554 (2007), — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.22	Pitch indicator	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13, — IMO Res. MSC.191(79).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — ISO 22555 (2007), — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 series, — ISO 22555 (2007), — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

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A.1/4.23	Compass for lifeboats and rescue boats	— Reg. III/4, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. III/34, — IMO Res. MSC.48(66)-(LSA Code) IV, V, — IMO Res. MSC.36(63)-(1994 HSC Code) 8, 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 8, 13.	— ISO 1069 (1973), — ISO 25862 (2009), — IEC 60945 (2002) including IEC 60945 Corri-gendum 1 (2008).	B + D B + E B + F G
A.1/4.24	Automatic radar plotting aid (ARPA) for high-speed craft	Moved to A.1/4.37			
A.1/4.25	Automatic tracking aid (ATA)	Moved to A.1/4.35			
A.1/4.26	Automatic tracking aid (ATA) for high speed craft	Moved to A.1/4.38			
A.1/4.27	Electronic plotting aid (EPA)	Moved to A.1/4.36			
A.1/4.28	Integrated bridge system	Moved to A.2/4.30			
A.1/4.29	Voyage data recorder (VDR)	— Reg. V/18, — Reg. V/20, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/20, — IMO Res. A.694 (17), — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13, — IMO Res. MSC.191(79), — IMO Res. MSC.333(90).	— IEC 60945 (2002) including IEC 60945 Corri-gendum 1 (2008), — IEC 61162 Series, — IEC 61996-1 (2013-05). — IEC 62288 Ed.1.0(2008)	B + D B + E B + F G

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A.1/4.30	Electronic chart display and information system (ECDIS) with backup, and raster chart display system (RCDS)	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code) 13 — IMO Res. MSC.97(73)-(2000 HSC Code) 13, — IMO Res. MSC.191(79), — IMO Res. MSC.232(82), — IMO SN.1/Circ.266. [ECDIS back-up and RCDS are only applicable when this functionality is included in the ECDIS. The module B certificate shall indicate whether these options were tested].	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 Series, — EN 61174 (2008), — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 Series, — IEC 61174 (2008), — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.31	Gyro compass for high-speed craft	— Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— IMO Res. A.694(17), — IMO Res. A.821(19), — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13, — IMO Res. MSC.191(79).	— ISO 16328 (2001), — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 Series, — EN 62288 (2008). Or, — ISO 16328 (2001), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 Series, — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

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A.1/4.32	Universal automatic identification system equipment (AIS)	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.74(69), — IMO Res. MSC.97(73)-(2000 HSC Code) 13, — IMO Res. MSC.191(79), — ITU-R M. 1371-4(2010). *Note*: ITU-R M. 1371-4(2010) shall only be applicable in accordance with requirements of IMO Res.MSC.74(69).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 Series, — EN 61993-2 (2013), — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 Series, — IEC 61993-2 (2012), — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.33	Track control system (working at ship's speed from minimum manoeuvring speed up to 30 knots)	— Reg. V/18.	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC.74(69), — IMO Res. MSC.191(79).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 Series, — EN 62065 (2002), — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 Series, — IEC 62065 (2002), — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

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A.1/4.34	Radar equipment CAT 1	— Reg. V/18.	— Reg. V/19. — IMO Res. A.278(VIII), — IMO Res. A.694(17), — IMO Res. A.823(19), — IMO Res. MSC.191(79), — IMO Res. MSC.192(79), — ITU-R M. 1177-4(04/11).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 Series, — EN 62288 (2008), — EN 62388 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 Series, — IEC 62288 Ed.1.0(2008). — IEC 62388 Ed.1.0(2007).	B + D B + E B + F G
A.1/4.35	Radar equipment CAT 2	— Reg. V/18.	— Reg. V/19, — IMO Res. A.278(VIII), — IMO Res. A.694(17), — IMO Res. MSC.191(79), — IMO Res. MSC.192(79), — ITU-R M. 1177-4(04/11).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 Series, — EN 62288 (2008), — EN 62388 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 Series, — IEC 62288 Ed.1.0(2008). — IEC 62388 Ed.1.0(2007).	B + D B + E B + F G

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A.1/4.36	Radar equipment CAT 3	— Reg. V/18.	— Reg. V/19, — IMO Res. A.278(VIII), — IMO Res. A.694(17), — IMO Res. MSC.191(79), — IMO Res. MSC.192(79), — ITU-R M. 1177-4(04/11).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 Series, — EN 62288 (2008), — EN 62388 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 Series, — IEC 62288 Ed.1.0(2008). — IEC 62388 Ed.1.0(2007).	B + D B + E B + F G
A.1/4.37	Radar equipment for high speed craft applications (CAT 1H and CAT 2H)	— Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— IMO Res. A.278(VIII), — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13, — IMO Res. MSC.191(79), — IMO Res. MSC.192(79), — ITU-R M. 1177-4(04/11).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 Series, — EN 62288 (2008), — EN 62388 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 Series, — IEC 62288 Ed.1.0(2008). — IEC 62388 Ed.1.0(2007).	B + D B + E B + F G

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A.1/4.38	Radar equipment approved with a chart option, namely: a) CAT 1C b) CAT 2C, c) CAT 1HC for HSC d) CAT 2HC for HSC	— Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— IMO Res. A.278(VIII), — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13, — IMO Res. MSC.191(79), — IMO Res. MSC.192(79), — ITU-R M. 1177-4(04/11).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 Series, — EN 62288 (2008), — EN 62388 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 Series, — IEC 62288 Ed.1.0(2008), — IEC 62388 Ed.1.0(2007).	B + D B + E B + F G
A.1/4.39	Radar reflector – passive type	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13, — IMO Res. MSC.164(78).	— ISO 8729-1 (2010), — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), Or, — ISO 8729-1 (2010), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F G

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A.1/4.40	Heading control system for high speed craft	— Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— IMO Res. A.694(17), — IMO Res. A.822(19), — IMO Res. MSC.36(63)-(1994) HSC Code) 13, — IMO Res. MSC.97(73)- (2000) HSC Code) 13, — IMO Res. MSC.191(79).	—ISO 16329 (2003), — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — EN 62288 (2008). Or, —ISO 16329 (2003), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 series, — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.41	Transmitting heading device THD (GNSS method)	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13, — IMO Res. MSC.116(73), — IMO Res. MSC.191(79).	— ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — EN 62288 (2008). Or, — ISO 22090-3 (2004) including ISO Corrigendum 1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 series, — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

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A.1/4.42	Searchlight for high speed craft	— Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— IMO Res. A.694(17), — IMO Res. MSC.36(63)- (1994) HSC Code) 13, — IMO Res. MSC.97(73)- (2000) HSC Code) 13.	—ISO 17884 (2004), — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, —ISO ISO 17884 (2004), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F G
A.1/4.43	Night vision equipment for high speed craft	— Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— IMO Res.A.694(17), — IMO Res. MSC.36(63)- (1994) HSC Code) 13, — IMO Res. MSC.94(72), — IMO Res. MSC.97(73)- (2000) HSC Code) 13, — IMO Res. MSC.191(79).	—ISO 16273 (2003), — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 62288 (2008). Or, —ISO 16273 (2003), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

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A.1/4.44	Differential beacon receiver for DGPS and DGLONA SS Equipment	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.694 (17), — IMO Res. MSC.36(63)- (1994) HSC Code) 13, — IMO Res. MSC.97(73)- (2000) HSC Code) 13, — IMO Res. MSC.114(73).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61108-4 (2004), — EN 61162 Series. Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61108-4 (2004), — IEC 61162 Series.	B + D B + E B + F G
A.1/4.45	Chart facilities for shipborne radar	Item deleted, as it is covered by A.1/4.38			

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A.1/4.46	Transmitting heading device THD (Gyroscopic method)	— Reg. V/18. — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.694 (17), — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13, — IMO Res. MSC.116(73), — IMO Res. MSC.191(79).	— ISO 22090-1 (2002) including Corr.1 (2005), — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — EN 62288 (2008). Or, — ISO 22090-1 (2002) including Corr.1 (2005), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 series, — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1./4.47	Simplified voyage data recorder (S-VDR)	— Reg. V/20.	— Reg. V/20, — IMO Res. A.694(17), — IMO Res. MSC.163(78), — IMO Res. MSC.191(79).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — EN 61996-2 (2008), — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1	B + D B + E B + F G
A.1/4.48	Mechanical pilot hoist	Deliberately left blank (as IMO Res. MSC.308(88), in force on 1 July 2012, quotes: "Mechanical pilot hoists shall not be used")			

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A.1/4.49	Pilot ladder	— Reg. V/23, — Reg. X/3.	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.
A.1/4.50	DGPS Equip-ment	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.694 (17), — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13, — IMO Res. MSC.112(73), — IMO Res. MSC.114(73), — IMO Res. MSC.191(79).	— EN 60945 (2002) including IEC 60945 Corrigen-dum 1 (2008), — EN 61108-1 (2003), — EN 61108-4 (2004), — EN 61162 series, — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corri-gendum 1 (2008), —IEC 61108-1 (2003), — IEC 61108-4 (2004), — IEC 61162 series, — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G

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A.1/4.51	DGLONASS Equipment	— Reg. V/18, — Reg. X/3, —IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.694 (17), — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13, — IMO Res. MSC.113(73), — IMO Res. MSC.114(73), — IMO Res. MSC.191(79).	— EN 60945 (2002) including IEC 60945 Corrigen-dum 1 (2008), — EN 61108-2 (1998), — EN 61108-4 (2004), — EN 61162 series, — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corri-gendum 1 (2008), — IEC 61108-2 (1998), — IEC 61108-4 (2004), — IEC 61162 series, — IEC 62288 Ed.1.0(2008).	B + D B + E B + F G
A.1/4.52	Daylight signalling lamp	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code).	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC.36(63)- (1994) HSC Code), — IMO Res. MSC.95(72), — IMO Res. MSC.97(73)- (2000) HSC Code).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), —ISO 25861 (2007). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), —ISO 25861 (2007).	B + D B + E B + F

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A.1/4.53	Radar target enhancer	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— IMO ReS. A.694(17), — IMO ReS. MSC.36(63)- (1994) HSC Code) 13, — IMO ReS. MSC.97(73)- (2000) HSC Code) 13, — IMO ReS. MSC.164(78), — ITU-R M 1176-1 (02/ 13)	—ISO 8729-2 (2009), — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), Or, —ISO 8729-2 (2009), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F G
A.1/4.54	Bearing Device	— Reg. V/18.	— Reg. V/19.	—ISO 25862 (2009), — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), Or, —ISO 25862 (2009), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F G

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A.1/4.55	AIS SART equipment	— Reg. III/4, — Reg. IV/14.	— Reg. III/6, — Reg. IV/7, — IMO Res. MSC.246(83), — IMO Res. MSC.247(83), — IMO Res. MSC.256(84), — ITU-R M. 1371-4(2010).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61097-14 (2010). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61097- 14 (2010).	B + D B + E B + F G
A.1/4.56	Galileo Receiver	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. A.813(19), — IMO Res. MSC.36(63)- (1994) HSC Code) 13, — IMO Res. MSC.97(73)- (2000) HSC Code) 13, — IMO Res. MSC.191(79), — IMO Res. MSC.233(82).	— EN 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).	B + D B + E B + F G

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A.1/4.57	Bridge Navigational Watch Alarm System (BNWAS)	— Reg. V/18.	— IMO Res. A.694(17), — IMO Res. MSC.128(75), — IMO Res. MSC.191(79).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 Series, — EN 62288 (2008), Or, — IEC 62616(2010) including IEC 62616 Corrigendum 1 (2012). — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 Series, — IEC 62288 Ed.1.0(2008), — IEC 62616(2010) including IEC 62616 Corrigendum 1 (2012).	B + D B + E B + F G
A.1/4.58 Refer to note c) of this Annex A.1	Sound reception system	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code).	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC.36(63)- (1994) HSC Code), — IMO Res. MSC.86(70), — IMO Res. MSC.97(73)- (2000) HSC Code), — IMO Res. MSC.191(79).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — EN 62288 (2008), —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).	B + D B + E B + F G

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A.1/4.59 Ex A.2/4.15	Integrated navigation system	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC.36(63)- (1994) HSC Code) 13, — IMO Res. MSC.97(73)- (2000) HSC Code) 13, — IMO Res. MSC.191(79), — IMO Res. MSC.252(83), — IMO Res. MSC.302(83) - (Bridge Alert Management, (BAM)).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — EN 62288 (2008), — IEC 61924-2 (2012). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 series, — IEC 62288 Ed. 1.0 (2008), — IEC 61924-2 (2012).	B + D B + E B + F G

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 61162-450 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

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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 61162-450 (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**
1	2	3	4	5
A.1/5.1	VHF radio capable of transmitting and receiving DSC and radiotelephony	— Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14.	— Reg. IV/7, — Reg. X/3, — IMO Res. A.385(X), — IMO Res. A.524(13), — IMO Res. A.694(17), — IMO Res. A.803(19), — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14, — IMO MSC/Circ.862, — IMO COMSAR Circ.32, — ITU-R M.489-2 (10/95), — ITU-R M.493-13 (10/09),	— IMO MSC/Circ.862, — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — ETSI EN 300 338-1 V1.3.1 (2010-02), — ETSI EN 300 338-2 V1.3.1 (2010-02), — ETSI EN 301 843-2 V1.2.1 (2004-06), — ETSI EN 301925 V1.3.1 (2010-09). Or, — IMO MSC/Circ.862, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008),
			— ITU-R M.541-9 (05/04), — ITU-R M.689-2 (09/94).	— IEC 61097-3 (1994), — IEC 61097-7 (1996), — IEC 61162 series.

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A.1/5.2	VHF DSC watch-keeping receiver	— Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14.	— Reg. IV/7, — Reg. X/3, — IMO Res. A.694(17), — IMO Res. A.803(19), — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14, — IMO COMSAR Circ.32, — ITU-R M.489-2 (10/95), — ITU-R M.493-13 (10/09), — ITU-R M.541-9 (05/04).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — ETSI EN 300 338-1 V1.3.1 (2010-02), — ETSI EN 300 338-2 V1.3.1 (2010-02), — ETSI EN 301033 V1.3.1 (2010-09), — ETSI EN 301 843-2 V1.2.1 (2004-06), Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61097-3 (1994), — IEC 61097-8 (1998), — IEC 61162 series
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.	A.1/5.4	EGC receiver
A.1/5.4	EGC receiver	— Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)- (1994) HSC Code) 14, — IMO Res. MSC.97(73)- (2000) HSC Code) 14.	— Reg. IV/7, — Reg. X/3, — IMO Res. A.570(14), — IMO Res. A.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.	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — ETSI ETS 300460 Ed.1 (1996-05), — ETSI ETS 300 460/A1 (1997-11), —ETSI EN 300829 V1.1.1 (1998-03), — ETSI EN 301 843-1 V1.3.1 (2012-08), Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61097-4 (2007).

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A.1/5.5	HF marine safety information (MSI) equipment (HF NBDP receiver)	— Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14	— Reg. IV/7, — Reg. X/3, — IMO Res. A.694(17), — IMO Res. A.699(17), — IMO Res. A.700(17), — IMO Res. A.806(19), — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14, — IMO COMSAR Circ.32, — ITU-R M.491-1 (07/86), — ITU-R M.492-6 (10/95), — ITU-R M.540-2 (06/90), — ITU-R M.625-3 (10/95), — ITU-R M.688 (06/90).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 Series, — ETSI ETS 300067 Ed.1 (1990-11), — ETSI ETS 300 067/A1 Ed.1 (1993-10). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 Series, — ETSI ETS 300067 Ed.1 (1990-11), — ETSI ETS 300 067/A1 Ed.1 (1993-10).
A.1/5.6	406 MHz EPIRB (COSPAS-SARSAT)	— Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14.	— Reg. IV/7, — Reg. X/3, — IMO Res. A.662(16), — IMO Res. A.694(17), — IMO Res. A.696(17), — IMO Res. A.810(19), — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14, — IMO MSC/Circ.862, — IMO COMSAR Circ.32, — ITU-R M.633-3 (05/04), — ITU-R M.690-1 (10/95).	— IMO MSC/Circ.862, — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — ETSI EN 300066 V 1.3.1 (2001-01). Or, — IMO MSC/Circ.862, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61097-2 (2008), *Note*: IMO MSC/Circ. 862 is applicable only to the optional remote activation device, not to the EPIRB itself.

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A.1/5.7	L- band EPIRB (INMARSAT)	Deliberately left blank		
A.1/5.8	2182 kHz watch receiver	Deliberately left blank		
A.1/5.9	Two-tone alarm generator	Deliberately left blank		
A.1/5.10	MF radio capable of transmitting and receiving DSC and radiotelephony *Note*: In line with IMO and ITU decisions, the requirements for Two Tone Alarm generator and transmission on H3E are no longer applicable in the testing standards	— Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14.	— Reg. IV/9, — Reg. IV/10, — Reg. X/3, — IMO Res. A.694(17), — IMO Res. A.804(19), — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14, — IMO COMSAR Circ.32, — ITU-R M.493-13 (10/09), — ITU-R M.541-9 (05/04).	— IMO MSC/Circ.862, — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — ETSI EN 300 338-1 V1.3.1 (2010-02), — ETSI EN 300 338-2 V1.3.1 (2010-02), — ETSI 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.
A.1/5.11	MF DSC watchkeeping receiver	— Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14.	— Reg. IV/9, — Reg. IV/10, — Reg. X/3, — IMO Res. A.694(17), — IMO Res. A.804(19), — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14, — IMO COMSAR Circ.32, — ITU-R M.493-13 (10/09), — ITU-R M.541-9 (05/04), — ITU-R M.1173 (10/95).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — ETSI EN 300 338-1 V1.3.1 (2010-02), — ETSI EN 300 338-2 V1.3.1 (2010-02), — ETSI EN 301033 V1.2.1 (2010-09), — ETSI EN 301 843-5 V1.1.1 (2004-06), Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61097-3 (1994), — IEC 61097-8 (1998), — IEC 61162 series.

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A.1/ 5.12	Inmarsat-B SES *Note*: The service will be discontinued on and after 31 December 2014.	— Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)- (1994) HSC Code) 14, — IMO Res. MSC.97(73)- (2000) HSC Code) 14.	— Reg. IV/10, — Reg. X/3, — IMO Res. A.570(14), — IMO Res. A.694(17), — IMO Res. A.808(19), — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14, — IMO MSC/ Circ.862, — IMO COMSAR Circ.32.	— IMO MSC/Circ 862, — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, — IMO MSC/Circ 862, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).
A.1/ 5.13	Inmarsat-C SES	— Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14.	— Reg. IV/10, — Reg. X/3, — IMO Res. A.570(14), — IMO Res. A.664 (16), (applicable only if the Inmarsat C SES comprises EGC functions), — IMO Res. A.694(17), — IMO Res. A.807(19), — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14, — IMO MSC/Circ.862, — IMO COMSAR Circ.32.	— IMO MSC/Circ.862, — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — ETSI ETS 300460 Ed.1 (1996-05), — ETSI ETS 300 460/ A1 (1997-11), — ETSI EN 300829 V1.1.1 (1998-03), — ETSI EN 301 843-1 V1.3.1 (2012-08), Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61097-4 (2007), — IEC 61162 series.

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A.1/ 5.14	MF/HF radio capable of transmitting and receiving DSC, NBDP and radiotelephony *Note*: In line with IMO and ITU decisions, the requirements for Two Tone Alarm generator and transmission on A3H are no longer applicable in testing standards.	— Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14.	— Reg. IV/10, — Reg. X/3, — IMO Res. A.694(17), — IMO Res. A.806(19), — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)- (2000 HSC Code) 14, — IMO MSC/Circ.862, — IMO COMSAR Circ.32, — ITU-R M.476-5 (10/95), — ITU-R M.491-1 (07/86), — ITU-R M.492-6 (10/95), — ITU-R M.493-13 (10/09), — ITU-R M.541-9 (05/04), — ITU-R M.625-3 (10/95), — ITU-R M.1173 (10/95).	— IMO MSC/Circ.862, — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — ETSI ETS 300067 Ed.1 (1990-11), — ETSI ETS 300 067/A1 Ed.1 (1993-10), — ETSI EN 300 338-1 V1.3.1 (2010-02), — ETSI EN 300 338-2 V1.3.1 (2010-02), — ETSI ETS 300 373-1 V1.3.1 (2011-01), — ETSI EN 301 843-5 V1.1.1 (2004-06), Or, — IMO MSC/Circ.862, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61097-3 (1994), — IEC 61097-9 (1997), — IEC 61162 series.

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

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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), — E— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, — EN 14744 (2005) including AC (2006), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	B + D B + E B + F G

7. Bulk carrier safety equipment

No items in Schedule 1a.

8. Equipment under SOLAS Chapter II-1. Construction structure, subdivision and stability, machinery and electrical installations

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

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Schedule Ib

(Based on Annex A.2 of Directive 96/98/EC)

Equipment for which no detailed testing standards already exist in International Instruments

1. Life-saving appliances

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

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

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A.2/1.5	Public address & general emergency alarm system (when used as fire alarm device item A.1/3.53 shall apply)	— Reg. III/6.	— IMO Res. A.1021(26), — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.48(66)-(LSA Code), — IMO Res. MSC.97(73)-(2000 HSC Code), — IMO MSC/Circ.808.		

2. Marine pollution prevention

No.	**Item designation**	**Regulation MARPOL 73/78, as amended, where “type approval" is required**	**Regulations of MARPOL 73/78, as amended, and the relevant resolutions and circulars of the IMO, applicable**	**Testing standards**	**Modules for conformity assessment**
1	2	3	4	5	6
A.2/2.1	NOx analyser of Chemilunescent detector (CLD) or heated cheminulescent detector type (HCLD) type for use in on board direct measurement	Moved to A.1/2.8			
A.2/2.2	On board exhaust gas cleaning systems	Moved to A.1/2.10			
A.2/2.3	Equipment using other equivalent methods to reduce on board NOx emissions	— Annex VI, Reg. 4.	— Annex VI, Reg. 4		
A.2/2.4	Equipment using other technological methods to limit SOx emissions	— IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4), — IMO Res. MEPC.184(59).	— IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4).		

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A.2/2.5 (new item)	On board NOx analysers using a measurement method other than the Direct Measurement and Monitoring Method of the NOx Technical Code 2008	— IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4)	— IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4)		

3. Fire protection equipment

No.	**Item designation**	**Regulation SOLAS 74, as amended, where “type approval" is required**	**Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable**	**Testing standards**	**Modules for conformity assessment**
1	2	3	4	5	6
A.2/3.1	Non-portable and transportable extinguishers	Moved to A.1/3.52			
A.2/3.2	Nozzles for fixed pressure 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			

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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 Code) 7, — IMO Res. MSC.97(73)-(2000 HSC Code) 7.	— EN 943-1 (2002) including AC (2005), — EN 943-2 (2002), — EN ISO 6529 (2001), — EN ISO 6530 (2005), — EN 14605 (2005) including A1(2009), — IMO MSC/Circ.1120.	
A.2/3.10	Low-location lighting systems	Moved to A.1/3.40			

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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 systems components	Moved to A.1/3.63
A.2/3.16	Flame detectors	Moved to A.1/3.51
A.2/3.17	Manual call points	Moved to A.1/3.51
A.2/3.18	Alarm devices	Moved to A.1/3.53
A.2/3.19	Fixed water based local application fire fighting systems components for use in category “A" machinery spaces.	Moved to A.1/3.48
A.2/3.20	Upholstered furniture	Moved to A.1/3.20

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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-2/20, — Reg. X/3.	— Reg. II-2/10, — Reg. II-2/20, — IMO Res. MSC.36(63)-(1994 HSC Code) 7, — IMO Res. MSC.97(73)-(2000 HSC Code) 7, — IMO Res. MSC.98(73)-(FSS Code) 4, — IMO MSC.1/Circ.1239, — IMO MSC.1/Circ.1313.		
A.2/3.25	C class Divisions	Moved to A.1/3.64			
A.2/3.26	Gaseous Fuel Systems Used for Domestic Purposes (components)	— Reg. II-2/4.	— Reg. II-2/4, — IMO MSC.1/Circ.1276.		

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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 Code) 5, — IMO MSC.1/Circ.1313, — IMO MSC.1/Circ.1318.	Electrical automatic control and delay devices: — EN 12094-1 (2003).	
				Non-electrical automatic control and delay devices: — EN 12094-2 (2003).	
				Manual triggering and stop devices: — EN 12094-3 (2003).	
				Container valve assemblies and their actuators: — EN 12094-4 (2004).	
				High and low pressure selector valves and their actuators: — EN 12094-5 (2006).	
				Non-electrical disable devices: — EN 12094-6 (2006).	
				Nozzles for CO_2 systems: — EN 12094-7 (2000) including A1 (2005).	
				Connectors: — EN 12094-8 (2006).	
				Pressure gauges and pressure switches: — EN 12094-10 (2003).	

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A.2/3.28	Medium Expansion Foam Fire Extinguishing Systems components — Fixed Deck Foam for Tankers	Moved to A.1/3.57			
A.2/3.29	Fixed Low Expansion Foam Fire Extinguishing Systems components for Machinery Spaces and Tanker Deck Protection.	Moved to A.1/3.58			
A.2/3.30	Expansion Foam for Fixed Fire Extinguishing Systems for Chemical Tankers	Moved to A.1/3.59			
A.2/3.31	Water Spraying Hand Operated System	— Reg. II-2/10, — Reg. II-2/19.	— Reg. II-2/10, — Reg. II-2/19.		
A.2/3.32	Dry chemical powder extinguishing systems	Moved to A.1/3.62			
A.2/3.33 New item	Fire hoses with diameter > 52 mm	— Reg. II-2/10, — Reg. X/3.	— Reg. II-2/10, — IMO Res. MSC.36(63)-(1994 HSC Code) 7, — IMO Res. MSC.97(73)-(2000 HSC Code) 7.		

4. Navigation equipment

Notes applicable to section 4: Navigation equipment

Columns 3 and 4: References to SOLAS Chapter V are to

SOLAS 1974 as amended by MSC 73 and entering into force on 1 July 2002.

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

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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.I EC 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 61162-450 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 61162-450 (2011) - Part 450: Multiple talkers and multiple listeners — Ethernet interconnection

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

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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. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code).	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code), — IMO Res. MSC.115(73), — IMO Res. MSC.191(79).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61108-1 (2003), — EN 61108-2 (1998), — EN 61162 series, — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61108-1 (2003), — IEC 61108-2 (1998), — IEC 61162 series, — IEC 62288 Ed.1.0(2008).	
A.2/4.12	DGPS, DGLONASS equipment	Moved to A.1/4.44, A.1/4.50 and A.1/4.51			

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A.2/4.13	Gyro compass for high speed craft	Moved to A.1/4.31			
A.2/4.14	Voyage data recorder (VDR)	Moved to A.1/4.29			
A.2/4.15	Integrated navigation system	Moved to A.1/4.59			
A.2/4.16	Bridge equipment system	Deliberately left blank			
A.2/4.17	Radar target enhancer	Moved to A.1/4.53			
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)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code).	— ISO 1069 (1973), — ISO 25862(2009), — EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, — ISO 1069 (1973), — ISO 25862(2009), — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	

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A.2/4.20	Track control system for — high-speed craft	— Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code).	— IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code), — IMO Res. MSC.191(79).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 series, — IEC 62288 Ed. 1.0 (2008).	
A.2/4.21	Chart facilities for shipborne radar	Moved to A.1/4.45			
A.2/4.22	Transmitting heading device THD (Gyroscopic method)	Moved to A.1/4.46			
A.2/4.23	Transmitting heading device THD (Magnetic method)	Moved to A.1/4.2			
A.2/4.24	Thrust indicator	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code).	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code), — IMO Res. MSC.191(79).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 series, — IEC 62288 Ed. 1.0 (2008).	

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A.2/4.25	Lateral thrust, pitch and mode indicators	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code).	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code), — IMO Res. MSC.191(79).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 series, — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 series, — IEC 62288 Ed. 1.0 (2008).	
A.2/4.26	Rate-of-turn indicator	Moved to A.1/4.9			
A.2/4.27	Rudder angle indicator	Moved to A.1/4.20			
A.2/4.28	Propeller revolution indicator	Moved to A.1/4.21			
A.2/4.29	Pitch indicator	Moved to A.1/4.22			
A.2/4.30	Bridge equipment system	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 13, — IMO Res. MSC.97(73)-(2000 HSC Code) 13.	— Reg. V/19, — IMO Res. A.694 (17), — IMO Res. MSC.36(63)-(1994 HSC Code) 15, — IMO Res. MSC.97(73)-(2000 HSC Code) 15, — IMO Res. MSC.191(79), — IMO SN.1/ Circ.288.	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 Series, — EN 62288 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 Series, — IEC 62288 Ed. 1.0 (2008).	
A.2/4.31	Bearing Device	Moved to A.1/4.54			

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A.2/4.32	Bridge Navigational Watch Alarm System (BNWAS)	Moved to A.1/4.57			
A.2/4.33	Track control system (working at ship's speed from 30 knots and above)	Deliberately left blank			
A.2/4.34	Equipment with Long 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.211(81), — IMO Res. MSC.263(84), — IMO MSC.1/Circ.1307.	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 Series. Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 Series.	
A.2/4.35	Galileo Receiver	Moved to A.1/4.56			
A.2/4.36	AIS SART equipment	Moved to A.1/4.55			

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:

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

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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 61162-450 (2011) - Part 450: Multiple talkers and multiple listeners — Ethernet interconnection

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

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A.2/5.2	Radio reserve source of energy	— Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code).	— Reg. IV/13, — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code), — IMO COMSAR Circ.16, — IMO COMSAR Circ.32.	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	
A.2/5.3	Inmarsat-F SES	Moved to A.1/5.19.			
A.2/5.4	Distress panel	— Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code).	— Reg. IV/6, — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code), — IMO MSC/Circ. 862, — IMO COMSAR Circ.32.	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	
A.2/5.5	Distress alarm or alert panel	— Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code).	— Reg. IV/6, — IMO Res.A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code), — IMO MSC/Circ.862, — IMO COMSAR Circ.32.	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).	
A.2/5.6	L- band EPIRB (INMARSAT)	Deliberately left blank			

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A.2/5.7	Ship security alert system		— Reg. XI-2/6, — IMO Res. A.694(17), — IMO Res. MSC.147(77), — IMO MSC/Circ.1072.	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — EN 61162 Series. Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — IEC 61162 Series.	
A.2/5.8 Ex A.1/5.16	Aeronautical two way VHF radio telephone apparatus	— Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14.	— Reg. IV/7, — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14, — IMO Res. MSC.80(70), — IMO COMSAR Circ.32, — ICAO Convention, Annex 10, Radio -Regulations.	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). — ETSI EN 301 688 V1.1.1 (2000-07). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008). — ETSI EN 301 688 V1.1.1 (2000-07).	

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.			

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A.2/6.2	Sound signal appliances	— COLREG 72 Annex III/3.	— COLREG 72 Annex III/3, — IMO Res. A.694(17).	— EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — Whistles — COLREG 72 Annex III/1 (Performance), — Bells or Gongs — COLREG 72 Annex III/2 (Performance). Or, — IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), — Whistles — COLREG 72 Annex III/1 (Performance), — Bells or Gongs — COLREG 72 Annex III/2 (Performance).	

7. Bulk carrier safety equipment

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

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8. SOLAS Chapter II-1 equipment

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

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