L.N. 247 of 2010

PRODUCT SAFETY ACT (CAP. 427)

Conformity Assessment of Marine Equipment (Amendment) Regulations, 2010

IN exercise of the powers conferred by articles 38 to 40 of the Product Safety Act, the Prime Minister, acting on the advice of the Malta Standards Authority, has made the following regulations:-

Citation.

1. The title of these regulations is the Conformity Assessment of Marine Equipment (Amendment) Regulations, 2010, and they shall be read and construed as one with the Conformity Assessment of Marine Equipment Regulations, 2009, hereinafter referred to as "the principal regulations".

L.N. 241 of 2009.

Scope and commencement.

2. (1) These regulations transpose Commission Directive 2009/26/EC amending Council Directive 96/98/EC on marine equipment.

(2) These regulations shall enter into force on the 6th April, 2010.

Amends regulation 5 to the principal regulations.

3. Sub-regulation (3) of regulation 5 of the principal regulations shall be renumbered as paragraph (a) thereof, and immediately after there shall be added the following new paragraph:

"(b) Where equipment listed as 'new item' in column 1 of Schedule Ia or as having been transferred from Schedule II to Ia was manufactured before 6 April 2010 in accordance with procedures for type-approval already in force before this date, such equipment may be placed on the market and on board a Community ship until 6 April 2012."

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

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

VERŻJONI ELETTRONIKA

"Schedule I
(Based on Annex A of Directive 2009/26/EC)
(Regulation 5)
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

[1] OJ L.113/1-52, 6.5.2009

(2007).

Circ., Circular.

COLREG, International Regulations for Preventing Collisions at Sea.

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

EN, European Standard.

ETSI, European Telecommunication Standardisation Institute.

FSS, International Code for Fire Safety Systems.

FTP, International Code for Application of Fire Test Procedures.

HSC, High Speed Craft Code.

IBC, International Bulk Chemical code.

ICAO, International Civil Aviation Organisation.

IEC, International Electrotechnical Commission.

IMO, International Maritime Organisation.

ISO, International Standardisation Organisation.

ITU, International Telecommunication Union.

LSA, Life saving appliance.

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

MEPC, Marine Environment Protection Committee.

MSC, Maritime Safety Committee.

NO_x, Nitrogen oxides.

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

SO_x, Sulphur oxides.

Reg., Regulation.

Res., Resolution.

Schedule Ia
(Based on Annex A.1 of Directive 2009/26/EC)
Equipment for which detailed testing standards already exist in International Instruments

Notes applicable to the whole of Schedule Ia

(1) 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 to these regulations, are to be found in the applicable requirements of the international conventions and the relevant resolutions and circulars of the IMO.

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

(3) 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.

(4) 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.

(5) Column 6: Where module H appears, module H plus design examination certificate is to be understood.

(6) The requirements laid down in this Schedule shall be without prejudice to carriage requirements in the international conventions.

1. Life-saving appliances

Notes applicable to section 1: Life-saving appliances.

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

1. Life-saving appliances					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 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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1. Life-saving appliances					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 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 MSC/Circ. 980.	- IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.2	Position-indicating lights for life-saving appliances: (a) for survival craft and rescue boats, (b) for lifebuoys, (c) for lifejackets.	- Reg. II/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 MSC/Circ. 885, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70), - ISO 24408 (2005).	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 Res. MSC.81(70).	B + D B + E B + F

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1. Life-saving appliances					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/1.5	Immersion suits and anti-exposure suits not classified as lifejackets: insulated or not insulated	- Reg. III/4, - Reg. X/3.	- Reg. III/7, - Reg. III/22, - Reg. III/32, - Reg. III/34, - IMO Res. MSC.36(63) – (1994 HSC Code) 8, - IMO Res. MSC.48(66) – (LSA Code) I, II, - IMO Res. MSC.97(73) – (2000 HSC Code) 8.	- IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.6	Immersion suits and anti-exposure suits classified as lifejackets: insulated or not insulated	- Reg. III/4, - Reg. X/3.	- Reg. III/7, - Reg. III/22, - Reg. III/32, - Reg. III/34, - IMO Res. MSC.36(63) – (1994 HSC Code) 8, - IMO Res. MSC.48(66) – (LSA Code) I, II, - IMO Res. MSC.97(73) – (2000 HSC Code) 8.	- IMO 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 Res. MSC.81(70).	B + D B + E B + F
A.1/1.8	Rocket parachute flares (pyrotechnics)	- Reg. III/4, - Reg. X/3.	- Reg. III/6, - Reg. III/34, - IMO Res. MSC.36(63) – (1994 HSC Code) 8, - IMO Res. MSC.48(66) – (LSA Code) I, III, - IMO Res. MSC.97(73) – (2000 HSC Code) 8.	- IMO Res. MSC.81(70).	B + D B + E B + F

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1. Life-saving appliances					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/1.9	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 MSC/Circ. 980.	- IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.12	Inflatable liferafts	- Reg. III/4, - Reg. X/3.	- Reg. III/13, - Reg. III/21, - Reg. III/26, - Reg. III/31, - Reg. III/34, - IMO Res. MSC.36(63) – (1994 HSC Code) 8, - IMO Res. MSC.48(66) – (LSA Code) I, IV, - IMO Res. MSC.97(73) – (2000 HSC Code) 8, - IMO MSC/Circ. 811.	- IMO Res. MSC.81(70), - ISO 15738 (2002).	B + D B + E B + F
A.1/1.13	Rigid liferafts	- Reg. III/4, - Reg. X/3.	- Reg. III/21, - Reg. III/26, - Reg. III/31, - Reg. III/34, - IMO Res. MSC.36(63) – (1994 HSC Code) 8, - IMO Res. MSC.48(66) –	- IMO Res. MSC.81(70), - IMO MSC/Circ.1006.	B + D B + E B + F

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1. Life-saving appliances					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
			(LSA Code) I, IV, - IMO Res. MSC.97(73) – (2000 HSC Code) 8, - IMO MSC/Circ. 811.		
A.1/1.14	Automatically self-righting liferafts	- Reg. III/4, - Reg. 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 including Add.1, - IMO MSC/Circ. 811.	- IMO Res. MSC.81(70), - IMO MSC/Circ.809 including Add.1, - IMO MSC/Circ.1006, - ISO 15738 (2002).	B + D B + E B + F
A.1/1.15	Canopied reversible life rafts	- Reg. III/4, - Reg. X/3.	- Reg. III/26, - Reg. III/34, - IMO Res. MSC.36(63) – (1994 HSC Code) 8, Annex 10, - IMO Res. MSC.48(66) – (LSA Code) I, IV, - IMO Res. MSC.97(73) – (2000 HSC Code) 8, Annex 11, - IMO MSC/Circ.809 including Add.1, - IMO MSC/Circ. 811.	- IMO Res. MSC.81(70), - IMO MSC/Circ.809 including Add.1, - IMO MSC/Circ.1006, - ISO 15738 (2002).	B + D B + E B + F
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

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1. Life-saving appliances					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/1.17	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 Res. MSC.81(70), - IMO MSC/Circ.1006.	B + D B + F G
A.1/1.18	Rigid rescue boats	- Reg. III/4, - Reg. X/3.	- Reg. III/21, - Reg. III/31, - Reg. III/34, - IMO Res. MSC.36(63) – (1994 HSC Code) 8, - IMO Res. MSC.48(66) – (LSA Code) I, V, - IMO Res. MSC.97(73) – (2000 HSC Code) 8.	- IMO Res. MSC.81(70), - IMO MSC/Circ.1006.	B + D B + F G
A.1/1.19	Inflated rescue boats	- Reg. III/4, - Reg. X/3.	- Reg. III/21, - Reg. III/31, - Reg. III/34, - IMO Res. MSC.36(63) – (1994 HSC Code) 8, - IMO Res. MSC.48(66) – (LSA Code) I, V, - IMO Res. MSC.97(73) – (2000 HSC Code) 8.	- IMO Res. MSC.81(70), - ISO 15372:2000.	B + D B + F G
A.1/1.20	Fast rescue boats	- Reg. III/4.	- Reg. III/26, - Reg. III/34, - IMO Res. MSC.48(66) – (LSA Code) I, V, - IMO MSC/Circ.809 including Add.1, - IMO MSC/Circ. 980. - 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	- Reg. III/4, - Reg. X/3.	- Reg. III/23, - Reg. III/33,	- IMO Res. MSC.81(70).	B + D B + E

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1. Life-saving appliances					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
	using falls (davits)		- 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.		B + F G
A.1/1.2 2	Float-free launching appliances for survival craft	Moved to A.2/1.3			
A.1/1.2 3	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.1/1.2 4	Liferaft launching appli-ances (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.1/1.2 5	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 MSC/Circ.809 including Add.1.	- IMO Res. MSC.81(70).	B + D B + E B + F G

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1. Life-saving appliances					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/1.26	Release mechanism for: (a) Lifeboats and rescue boats and (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 Res. MSC.81(70).	B + D B + E B + F
A.1/1.27	Marine evacuation systems	- Reg. III/4, - Reg. X/3.	- Reg. III/15, - Reg. III/26, - Reg. III/34, - IMO Res. MSC.36(63) – (1994 HSC Code) 8, - IMO Res. MSC.48(66) – (LSA Code) I, VI, - IMO Res. MSC.97(73) – (2000 HSC Code) 8.	- IMO Res. MSC.81(70), - ISO 15738 (2002).	B + D B + F G
A.1/1.28	Means of rescue	- 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, VI, - IMO Res. MSC.97(73) – (2000 HSC Code) 8.	- IMO Res. MSC.81(70), - IMO MSC/Circ.810, - ISO 15738 (2002).	B + D B + F
A.1/1.29 Ex A.2/1.4	Embarkation ladders	- Reg. III/4, - Reg. III/11, - Reg. X/3.	- Reg. III/11, - Reg. III/34, - IMO Res. MSC.36(63) – (1994 HSC Code), - IMO Res. MSC.48(66) – (LSA Code), - IMO Res. MSC.97(73) – (2000 HSC Code).	- IMO Res. MSC.81(70), - ISO 5489 (2008).	
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. A.658(16).	B + D B + E B + F

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1. Life-saving appliances					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
			- IMO Res. MSC.97(73) – (2000 HSC Code) 8.		
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	9GHz SAR transponder (SART)	Moved to A.1/4.18			
A.1/1.33	Radar reflector for 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.164(78).	- EN ISO 8729:1998	B + D B + E B + F G
A.1/1.34	Compass for lifeboats and rescue boats	Moved to A.1/4.23			
A.1/1.35	Portable fire-extinguishing equipment for lifeboats and rescue boats	Moved to A.1/3.38			
A.1/1.36	Lifeboat/rescue boat propulsion engine	- Reg. III/4, - Reg. X/3.	- Reg. III/34, - IMO Res. MSC.48(66) – (LSA Code) IV, V.	- IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.37	Rescue boat propulsion engine-outboard motor	- Reg. III/4, - Reg. X/3.	- Reg. III/34, - IMO Res. MSC.48(66) – (LSA Code) V.	- IMO Res. MSC.81(70).	B + D B + E B + F

1. Life-saving appliances					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/1.38	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, - ISO 15738 (2002).	B + D B + F
A.1/1.40	Mechanical pilot hoist	Moved to A.1/4.48			
A.1/1.41 (New item)	Winches for survival craft and 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			

2. Marine pollution prevention

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No	Item designation	Regulation Marpol 73/78 where 'type-approval' is required	Regulations of Marpol 73/78 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/2.1	Oil-filtering equipment (for an oil content of the effluent not exceeding 15 p.p.m.)	- Annex I, Reg. 14.	- Annex I, Reg. 14.	- IMO Res. MEPC.107(49).	B + D B + E B + F
A.1/2.2	Oil/water interface detec-tors	- 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 Res. MEPC.107(49).	B + D B + E B + F
A.1/2.4	Process units intended for attachment to existing oily water separating equipment (for an oil content of the effluent not exceeding 15 p.p.m.)	Item deleted			
A.1/2.5	Oil discharge monitoring and control system for an oil tanker	- Annex I, Reg. 31.	- Annex I, Reg. 31.	- IMO Res. MEPC.108(49).	B + D B + E B + F
A.1/2.6	Sewage systems	- Annex IV, Reg. 9.	- Annex IV, Reg. 9.	- IMO Res. MEPC.2(VI).	B + D B + E B + F
A.1/2.7	Shipboard incinerators	- Annex VI, Reg. 16.	- Annex VI, Reg. 16.	- IMO Res. MEPC.76(40)..	B + D B + E B + F G

2. Marine pollution prevention					
No	Item designation	Regulation Marpol 73/78 where 'type-approval' is required	Regulations of Marpol 73/78 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/2.8 ex A.2/2.1	On-board NO_x monitoring and recording devices	– Annex VI, Reg. 13, – NO_x Technical Code.	– Annex VI, Reg. 13, – NO_x Technical Code.	– IMO Res. MEPC.103(49).	B + D B + E B + F G
A.1/2.9 Ex A.2/2.4	Other technological methods to limit SO_x emissions	– Annex VI, Reg. 14.	– Annex VI, Reg. 14.	– IMO Res. MEPC.170(57)..	B + D B + E B + F G

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/3.1	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.61(67)-(FTP code), Annex I Part 2 and Part 6 and Annex 2, - IMO MSC/Circ.1120.	B + D
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-2/19, - 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 3-6:1995 including A.1:1999, - EN 3-7:2004, including A.1 (2007), - EN 3-8:2006, including AC (2007), - EN 3-9:2006, including AC (2007).	B + D B + E B + F
A. 1/3.3	Fire-fighter's	- Reg. II-2/10,	- Reg. II-2/10,	- EN 469:2006,	B + D

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No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
	outfit: protective clothing (close proximity clothing)	- Reg. X/3, - IMO Res. MSC.98(73) – (FSS Code) 3.	- IMO Res. MSC.36(63) – (1994 HSC Code) 7, - IMO Res. MSC.97(73) – (2000 HSC Code) 7, - IMO Res. MSC.98(73) – (FSS Code) 3.	including A1:2006 and AC:2006, - EN 531:1995, including A1:1998, - EN 1486:2007, or - ISO 15538:2001.	B + E B + F
A. 1/3.4	Firefighter'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 ISO 20344:2004 including A1:2007 and AC:2005, - EN ISO 20345:2004 including A1:2007 and AC:2007.	B + D B + E B + F
A.1/3.5	Firefighter'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.	B + D B + E B + F
A. 1/3.6	Firefighter'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	- 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 136:1998 including AC:1999 and AC:2003, - EN 137:2006.	B + D B + E B + F

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
	pressure type mask is required.				
A.1/3.8	Compressed air line breathing apparatus	- Reg. X/3. Note: This item is not included in new Chapter II-2 Regulations [IMO Res. MSC.99(73)] or FSS Code [IMO Res. MSC.98(73)].	- IMO Res. MSC.36(63) – (1994 HSC Code) 7, - IMO Res. MSC.97(73) – (2000 HSC Code) 7.	- EN 14593-1:2005, - EN 14593-2:2005, - EN 14594:2005.	B + D B + E B + F
A. 1/3.9	Sprinkler systems compo-nents for accommodation spaces, service spaces and control stations equivalent to that referred to in SOLAS 74 Regulation II-2/12 (limited to nozzles and their performance).	- Reg. II-2/7, - Reg. II-2/10, - IMO Res. MSC.98(73) – (FSS Code) 8.	- Reg. II-2/7, - Reg. II-2/9, - Reg. II-2/10, - IMO Res. MSC.98(73) – (FSS Code) 8.	- IMO Res. A.800(19).	B + D B + E B + F G
A.1/3.10 Ex A.2/3.11	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, - Reg. X/3, - IMO Res. MSC.36(63)-(1994 HSC code) 7, - IMO Res. MSC.97(73)-(2000 HSC code) 7, - IMO Res. MSC.98(73) – (FSS Code) 7.	- IMO MSC/Circ.1165.	

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3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/3.11	'A' and 'B' Class divisions, fire integrity (a) 'A' class divisions, (b) 'B' class divisions.	'A' Class: - Reg. II-2/3.2. 'B' Class: - Reg. II-2/3.4.	- Reg. II-2/9, and, 'A' Class: - Reg. II-2/3.2. 'B' Class: - Reg. II-2/3.4.	- IMO Res. MSC.61(67) – (FTP Code) Annex I Part 3 and Annex 2, - IMO MSC/Circ.1120.	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 21874:2001, - ISO 15364:2007, - IMO MSC/Circ.677, - IMO MSC/Circ.1009.	B + F
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.98(73) – (FSS Code) 7.	- IMO Res. MSC.61(67) – (FTP Code) Annex I Part 1, - IMO MSC/Circ.1120.	B + D B + E B + F
A.1/3.14	Materials other than steel for pipes penetrating 'A' or 'B' Class division	Item included in A.1/3.26 and A.1/3.27			
A.1/3.15	Materials other than steel for pipes conveying oil or fuel oil: (a) pipes and fittings (b) valves (c) flexible pipe assem-blies	- 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.	- IMO Res. A.753(18), - ISO 15540:1999 including corrigendum 1 (1999), - ISO 15541:1999.	B + D B + E B + F

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No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/3.16	Fire doors	- Reg. II-2/9.	- Reg. II-2/9.	- IMO Res. MSC.61(67) – (FTP Code) Annex I Part 3, - IMO MSC/Circ.1120, - IMO MSC.1/Circ.1273.	B + D B + E B + F G
A.1/3.17	Fire door control systems components Note: When the term 'system components' is used in column 2 it may be that a single component, a group of components or a whole system needs to be tested to ensure that the international requirements are fulfilled.	- Reg. II-2/9, - Reg. X/3.	- Reg. II-2/9, - IMO Res. MSC.36(63) – (1994 HSC Code) 7, - IMO Res. MSC.97(73) – (2000 HSC Code) 7.	- IMO Res. MSC.61(67) – (FTP Code) Annex I Part 4.	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	- Reg. II-2/3, - Reg. II-2/5, - Reg. II-2/6, - Reg. II-2/9, - Reg. X/3.	- Reg. II-2/3, - Reg. II-2/5, - Reg. II-2/6, - Reg. II-2/9, - IMO Res. MSC.36(63) – (1994 HSC Code) 7, - IMO Res. MSC.97(73) – (2000 HSC Code) 7, - IMO MSC/Circ.1120.	- IMO Res. MSC.61(67) – (FTP Code) Annex I Part 2 and Part 5 and Annex 2, - IMO MSC/Circ.1120, - ISO 1716:2002. Note: Where the surface material is required to have a certain maximum calorific value, this shall	B + D B + E B + F

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3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
	insulation covers, (e) adhesives used in the construction of 'B' and 'C' class divisions, (f) combustible ducts.			be measured in accordance with ISO 1716.	
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.61(67) – (FTP Code) Annex I Part 7, - IMO MSC/Circ.1120.	B + D B + E B + F
A. 1/3.20	Upholstered furniture	- Reg. II-2/3, - Reg. II-2/5, - Reg. II-2/9, - Reg. X/3.	- Reg. II-2/3, - Reg. II-2/5, - Reg. II-2/9, - IMO Res. MSC.36(63) – (1994 HSC Code) 7, - IMO Res. MSC.97(73) – (2000 HSC Code) 7.	- IMO Res. MSC.61(67) – (FTP Code) Annex I Part 8, - IMO MSC/Circ.1120.	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.61(67) – (FTP Code) Annex I Part 9, - IMO MSC/Circ.1120.	B + D B + E B + F
A.1/3.22	Fire dampers	- Reg. II-2/9.	- Reg. II-2/9.	- IMO Res. MSC.61(67) – (FTP Code) Annex I Part 3, - IMO MSC/Circ.1120.	B + D B + E B + F
A.1/3.23	Non-combustible duct	Moved to A.1/3.26			

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No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
	penetrations through 'A' class divisions				
A.1/3.24	Electric Cable Transits through 'A' class divisions	Moved to A.1/3.26			
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.847, - IMO MSC/Circ.1120.	- IMO Res. MSC.61(67) – (FTP Code) Annex I Part 3, - IMO MSC/Circ.1120.	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 Res. MSC.61(67) – (FTP Code) Annex I Part 3, - IMO MSC/Circ.1120.	B + D B + E B + F
A.1/3.27	Penetrations through 'B' class (a) electric cable transits, (b) pipe, duct, trunk, etc penetrations	- Reg. II-2/9.	- Reg. II-2/9.	- IMO Res. MSC.61(67) – (FTP Code) Annex I Part 3, - IMO MSC/Circ.1120.	B + D B + E B + F
A.1/3.28	Sprinkler systems (limited to sprinkler heads)	- Reg. II-2/7, - Reg. II-2/10.	- Reg. II-2/10, - IMO Res. MSC.98(73) – (FSS Code), 8.	- ISO 6182-1:2004. Or, - EN 12259-1:1999 including A1:2001, A2:2004 and A3:2006.	B + D B + E B + F
A.1/3.2	Fire hoses	- Reg. II-2/10,	- Reg. II-2/10,	- EN 14540:2004	B + D

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No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
9		- Reg. X/3.	- IMO Res. MSC.36(63) – (1994 HSC Code) 7, - IMO Res. MSC.97(73) – (2000 HSC Code) 7.	including A.1:2007.	B + E B + F
A.1/3.30	Portable oxygen analysis and gas detection equipment	- Reg. II-2/4, - Reg. VI/3.	- Reg. II-2/4, - Reg. VI/3, - IMO Res. MSC.98(73) – (FSS Code) 15.	- EN 60945:2002, - IEC 60092-504:2001, - IEC 60533:1999, And as applicable to: (a) Category 1: (safe area): - EN 50104:2002 including A.1:2004 Oxygen, - EN 60079-29-1:2007. (b) Category 2: (explosive gas atmospheres): - EN 50104:2002 including A.1:2004 Oxygen, - EN 60079-29-1:2007, - IEC 60079-0:2004, - IEC 60079-1:2007, - IEC 60079-10:2002, - IEC 60079-11:2006, - IEC 60079-15:2005, - IEC 60079-26:2006.	B + D B + E B + F
A.1/3.31	Nozzles for fixed sprinkler systems, for high-speed craft (HSC)	- Reg. X/3.	- IMO MSC/Circ.912, - IMO Res. MSC.36(63) – (1994 HSC Code) 7, - IMO Res. MSC.97(73) – (2000 HSC Code) 7.	- IMO Res. MSC.44(65).	B + D B + E B + F G
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.61(67) – (FTP Code) Annex I Part 10.	B + D B + E B + F

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3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/3.3.3	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.61(67) – (FTP Code) Annex I Part 10.	B + D B + E B + F
A.1/3.3.4	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.61(67) – (FTP Code) Annex I Part 11.	B + D B + E B + F
A.1/3.3.5	Fire doors on high speed craft	- Reg. X/3.	- IMO Res. MSC.36(63) – (1994 HSC Code) 7, - IMO Res. MSC.97(73) – (2000 HSC Code) 7.	- IMO Res. MSC.61(67) – (FTP Code) Annex 1 Part 11.	B + D B + E B + F
A.1/3.3.6	Fire dampers on high speed craft	- Reg. X/3.	- IMO Res. MSC.36(63) – (1994 HSC Code) 7, - IMO Res. MSC.97(73) – (2000 HSC Code) 7, - IMO MSC/Circ.1120.	- IMO Res. MSC.61(67) – (FTP Code) Annex I Part 11.	B + D B + E B + F
A.1/3.3.7	Penetrations through fire resisting divisions on high speed craft (a) electric cable transits, (b) pipe, duct, trunk etc penetrations	- Reg. X/3.	- IMO Res. MSC.36(63) – (1994 HSC Code) 7, - IMO Res. MSC.97(73) – (2000 HSC Code) 7.	- IMO Res. MSC.61(67) – (FTP Code) Annex I Part 11.	B + D B + E B + F
A.1/3.3.8	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 3-6:1995 including A1:1999, - EN 3-7:2004 including A1:2007, - EN 3-8:2006 including AC:2007.	B + D B + E B + F

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3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/3.39	Nozzles for equivalent water based fire extinguishing systems for machinery spaces of category 'A' 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/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. MSC.98(73) – (FSS Code) 11.	- IMO Res. A.752(18). Or, - ISO 15370:2001.	B + D B + E B + F G
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.	- EN 402:2003, - EN 1146:2005, - EN 13794:2002, - ISO 23269-1:2008.	B + D B + E B + F
A.1/3.42	Inert gas systems compo-nents	- Reg. II-2/4.	- Reg. II-2/4, - IMO Res. A.567(14), - IMO Res. MSC.98(73) – (FSS Code) 15, - IMO MSC/Circ.353, - IMO MSC/Circ.387, - IMO MSC/Circ.485, - IMO MSC/Circ.731, - IMO MSC/Circ.1120.	- IMO MSC/Circ.353, - IMO MSC/Circ.387, - IMO MSC/Circ.450 Rev.1, - IMO MSC/Circ.485, - IMO MSC/Circ.731.	B + D B + E B + F G
A.1/3.43	Nozzles for deep fat cooking equipment fire extinguishing systems (automatic or manual type)	- Reg. II-2/1, - Reg. II-2/10, - Reg. X/3.	- Reg. II-2/1 - Reg. II-2/10, - IMO Res. MSC.36(63) – (1994 HSC Code) 7, - IMO Res. MSC.97(73) – (2000 HSC Code) 7.	- ISO 15371:2000.	B + D B + E B + F G

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No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/3.4.4	Firefighters 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.61(67) – (FTP Code) Annex I Part 1, - IMO Res. MSC.98(73) – (FSS Code) 3.	B + D B + E B + F
A.1/3.4.5	Equivalent fixed gas fire extinguishing systems components (extinguishing medium, head valves and nozzles) for machinery spaces and cargo pump rooms	- Reg. II-2/10, - Reg. X/3, - IMO Res. MSC.98(73) – (FSS Code) 5.	- Reg. II-2/10, - IMO Res. MSC.36(63) – (1994 HSC Code) 7, - IMO Res. MSC.97(73) – (2000 HSC Code) 7, - IMO Res. MSC.98(73) – (FSS Code) 5. - IMO MSC/Circ.848.	- IMO MSC/Circ.848, - IMO MSC.1/Circ.1267.	B + D B + E B + F
A.1/3.4.6	Equivalent fixed gas fire extinguishing systems components 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.	B + D B + E B + F
A.1/3.4.7	Concentrate for fixed high expansion foam fire extin-guishing systems for machinery spaces and cargo pump rooms Note: The fixed high expansion foam fire	- Reg. II-2/10.	- Reg. II-2/10, - IMO Res. MSC.98(73) – (FSS Code) 6, - IMO MSC.1/Circ.1239.	- IMO MSC/Circ.670.	B + D B + E B + F G

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3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
	extinguishing system for machinery spaces and cargo pump rooms must still be tested with the approved concentrate to the satisfaction of the Administration.				
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/Circ.913, - IMO MSC/Circ.1276.	B + D B + E B + F
A.1/3.49 Ex A.2/3.2	Nozzles for fixed pressure water-spraying fire-extin-guishing systems for special category spaces, ro-ro cargo spaces, ro-ro spaces and vehicle 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.1272.	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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3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/3.5.1	Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, machinery spaces and unattented machinery spaces	- Reg. II-2/7, - Reg. X/3, - IMO Res. MSC.98(73) – (FSS Code) 9.	- Reg. II-2/7.2.2, - Reg. II-2/7.4, - Reg. II.2/7.4.1, - 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. 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. And, as applicable, electrical and electronic installations in ships: - IEC 60092-504:2001, - IEC 60533:1999.	B + D B + E B + F
A.1/3.5.2	Non-portable and transportable 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. X/3, - IMO Res. MSC.36(63) – (1994 HSC Code) 7, - IMO Res. MSC.97(73) –	- EN 1866:1998, - EN 1866-1:2007, Or, - EN 11601:1999.	B + D B + E B + F

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3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
			(2000 HSC Code) 7, - IMO Res. MSC.98(73) – (FSS Code) 4.		
A.1/3.5 3	Alarm devices	- 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.	Sounders - EN 54-3:2001 including A1:2002 and A2:2006, - IEC 60092-504:2001, - IEC 60533:1999.	B + D B + E B + F
A.1/3.5 4	Fixed oxygen analysis and gas detection equipment	- Reg. II-2/4, - Reg. VI/3.	- Reg. II-2/4, - Reg. VI/3, - IMO Res. MSC.98(73) – (FSS Code) 15.	- EN 60945:2002, - IEC 60092-504:2001, - IEC 60533:1999, And as applicable to: (a) Category 4: (safe area): - EN 50104:2002 including A.1:2004 Oxygen. (b) Category 3: (explosive gas atmospheres): - EN 50104:2002 including A.1:2004 Oxygen, - EN 60079-29-1:2007.	B + D B + E B + F
A.1/3.5 5 ex A.2/3.4	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.	- EN 15182-1:2007, - EN 15182-3:2007.	B + D B + E B + F
A.1/3.5 6 ex A.2/3.1 4	Fire hoses (reel type)	- Reg. II-2/10, - Reg. X/3.	- Reg. II-2/10, - IMO Res. MSC.36(63)-(1994 HSC Code), - IMO Res. MSC.97(73) – (2000 HSC Code).	- EN 671-1:2001 including AC:2002.	B + D B + E B + F

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3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/3.57 ex A.2/3.28	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 ex A.2/3.29	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/Circ.582 including Corringendum 1.	B + D B + E B + F
A.1/3.59 Ex A.2/3.30	Expansion foam for fixed fire extinguishing systems for chemical tankers	- IMO Res. MSC.4(48)-(IBC code).	- IMO Res. MSC.4(48)-(IBC code).	- IMO MSC/Circ.553, - IMO MSC/Circ.582, - IMO MSC/Circ.799.	B + D B + E B + F G
A.1/3.60 (new item)	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.1268.	B + D B + E B + F
A.1/3.61 (new item)	Inside air high expansion foam systems for the protection of machinery spaces and cargo pump	- Reg. II-2/10.	- Reg. II-2/10, - IMO Res. MSC.98(73)-(FSS code) 6.	- IMO MSC.1/Circ.1271.	B + D B + E B + F

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3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
	rooms				

4. **Navigation equipment**

Notes applicable to section 4: Navigation equipment.

Column 5: Wherever reference is made to EN 61162 series or IEC 61162 series, the intended item layout shall be taken into account to determine the applicable standard of EN 61162 series or IEC 61162 series.

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 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	- Reg. V/18.	- Reg. V/19, - IMO Res. A.382(X), - IMO Res. A.694(17).	- EN ISO 449:1999, - EN ISO 694:2001, - ISO 1069:1973, - ISO 2269:1992, - EN 60945:2002. Or, - ISO 449:1997, - ISO 694:2000, - ISO 1069:1973, - ISO 2269:1992, - IEC 60945:2002.	B + D B + E B + F G
A.1/4.2	Transmitting heading device THD (magnetic method)	- Reg. V/18, - Reg. V/19, - Reg. X/3, - IMO Res. MSC.36(63) – (1994 HSC Code) 13, - IMO Res. MSC.97(73) – (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.36(63) – (1994 HSC Code) 13, - IMO Res. MSC.97(73) – (2000 HSC Code) 13, - IMO Res. MSC.116(73).	- EN 60945:2002, - EN 61162 series, - ISO 22090-2:2004 including corrigendum 2005. Or, - IEC 60945:2002, - IEC 61162 series, - ISO 22090-2:2004 including corrigendum 2005.	B + D B + E B + F G

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/4.3	Gyro compass	- Reg. V/18.	- Reg. V/19, - IMO Res. A.424(XI), - IMO Res. A.694(17), - IMO Res. MSC.191(79).	- EN ISO 8728:1998, - EN 60945:2002, - EN 61162 series, - IEC 62288 Ed.1.0:2008. Or, - ISO 8728:1997, - IEC 60945:2002, - IEC 61162 series, - IEC 62288 Ed.1.0:2008	B + D B + E B + F G
A.1/4.4	Radar equipment	Moved to A.1/4.34, A.1/4.35 and A.1/4.36			
A.1/4.5	Automatic radar plotting aid (ARPA)	Moved to A.1/4.34			
A.1/4.6	Echo sounding equipment	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) – (1994 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, - EN 60945:2002, - EN 61162 series, - IEC 62288 Ed.1.0:2008. Or, - ISO 9875:2000, - IEC 60945:2002, - 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, - EN 61023:1999, - EN 61162 series, - IEC 62288 Ed.1.0:2008. Or, - IEC 60945:2002, - IEC 61023:1999, - IEC 61162 series, - IEC 62288 Ed.1.0:2008.	B + D B + E B + F G

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4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/4.8	Rudder angle, rpm, pitch indicator	Moved to A.1/4.20, A.1/4.21 and A.1/4.22			
A.1/4.9 Ex A.2/4.2 6	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, - EN 61162 series, - ISO 20672:2007, - IEC 62288 Ed.1.0:2008. Or, - IEC 60945:2002, - 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	Item deleted			
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, - EN 61075:1993, - EN 61162 series, - IEC 662288 Ed.1.0:2008. Or, - IEC 60945:2002, - IEC 61075:1991, - IEC 61162 series, - IEC 662288 Ed.1.0:2008.	B + D B + E B + F G
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, - EN 61075:1993, - EN 61162 series, - IEC 662288 Ed.1.0:2008. Or, - IEC 60945:2002, - IEC 61075:1991, - IEC 61162 series, - IEC 662288	B + D B + E B + F G

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
				Ed.1.0:2008.	
A.1/4.13	Decca navigator equipment	Item deleted			
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, - EN 61108-1:2003, - EN 61162 series, - IEC 662288 Ed.1.0:2008. Or, - IEC 60945:2002, - IEC 61108-1:2003, - IEC 61162 series, - IEC 662288 Ed.1.0:2008.	B + D B + E B + F G
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, - EN 61108-2:1998, - EN 61162 series, - IEC 662288 Ed.1.0:2008. Or, - IEC 60945:2002, - IEC 61108-2:1998, - IEC 61162 series, - IEC 662288 Ed.1.0:2008.	B + D B + E B + F G
A.1/4.16	Heading control system (HCS) (formerly auto-pilot)	- 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).	- EN ISO 11674:2001, - EN 60945:2002, - EN 61162 series, - IEC 662288 Ed.1.0:2008. Or, - IEC 11674:2000, - IEC 60945:2002, - IEC 61162 series, - IEC 662288 Ed.1.0:2008.	B + D B + E B + F G

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4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/4.17	Mechanical pilot hoist	Moved to A.1/1.40			
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, - EN 61097-1:2007. Or, - IEC 60945:2002, - 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 Ex A.2/4.27	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.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, - ISO 20673:2007, - IEC 662288 Ed.1.0:2008. - Or, - IEC 60945:2002, - ISO 20673:2007, - IEC 662288 Ed.1.0:2008.	B + D B + E B + F G
A.1/4.21 Ex A.2/4.28	Propeller revolution indicator	- Reg. V/18.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.191(79).	- EN 60945:2002, - ISO 22554:2007, - IEC 662288 Ed.1.0:2008. - Or, - IEC 60945:2002, - ISO 22554:2007, - IEC 662288 Ed.1.0:2008.	B + D B + E B + F G

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4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/4.22 Ex A.2/4.29	Pitch indicator	- Reg. V/18.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.191(79).	- EN 60945:2002, - ISO 22555:2007, - IEC 662288 Ed.1.0:2008. - Or, - IEC 60945:2002, - ISO 22555:2007, - IEC 662288 Ed.1.0:2008.	B + D B + E B + F G
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.	- EN ISO 613:2001, - ISO 10316:1990. Or, - ISO 613:2000, - ISO 10316:1990.	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			

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4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/4.28	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. A.861(20), - IMO Res. MSC.36(63) – (1994 HSC Code) 13, - IMO Res. MSC.97(73) – (2000 HSC Code) 13, - IMO Res. MSC.214(81), - IMO Res. MSC.191(79).	- EN 60945:2002, - EN 61162 series, - EN 61996-1:2007-11, - IEC 62288 Ed.1.0:2008. Or, - IEC 60945:2002, - IEC 61162 series, - IEC 61996-1:2007-11, - IEC 62288 Ed.1.0:2008.	B + D B + E B + F G
A.1/4.30	Electronic chart display and information system (ECDIS) with backup, and raster chart display system (RCDS)	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) – (1994 HSC Code) 13, - IMO Res. MSC.97(73) – (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. A.817(19), - IMO Res. MSC.36(63) – (1994 HSC Code) 13, - IMO Res. MSC.64(67), - IMO Res. MSC.86(70), - IMO Res. MSC.97(73) – (2000 HSC Code) 13, - IMO Res. MSC.191(79), - IMO Res. MSC.232(82). [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, - EN 61162 series, - EN 61174:2001-12, - IEC 62288 Ed.1.0:2008. Or, - IEC 60945:2002, - 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. A.694(17), - IMO Res. A.821(19), - IMO Res. MSC.36(63) – (1994 HSC Code) 13, - IMO Res. MSC.97(73) –	- ISO 16328:2001, - EN 60945:2002, - EN 61162 series, - IEC 62288 Ed.1.0:2008.	B + D B + E B + F G

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
		- IMO Res. MSC.97(73) – (2000 HSC Code) 13.	(2000 HSC Code) 13, - IMO Res. MSC.191(79).	Or, - ISO 16328:2001, - IEC 60945:2002, - EN 61162 series, - IEC 62288 Ed.1.0:2008	
A.1/4.32	Universal automatic identification system equipment (AIS)	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) – (1994 HSC Code) 13, - IMO Res. MSC.97(73) – (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.36(63) – (1994 HSC Code) 13, - IMO Res. MSC.74(69), - IMO Res. MSC.97(73) – (2000 HSC Code) 13, - IMO Res. MSC.191(79), - ITU-R M. 1371-3(2007). Note: ITU-R M. 1371-3(2007) Annex 3 shall only be applicable in accordance with requirements of IMO Res. MSC.74(69).	- EN 60945:2002, - EN 61162 series, - EN 61993-2:2001, - IEC 62288 Ed.1.0:2008. Or, - IEC 60945:2002, - IEC 61162 series, - IEC 61993-2:2001, - 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 maneuvering speed up to 30 knots)	- Reg. V/18.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.74(69).	- EN 60945:2002, - EN 61162 series, - EN 62065:2002. Or, - IEC 60945:2002, - IEC 61162 series, - IEC 62065:2002.	B + D B + E B + F G
A.1/4.34	Radar equipment CAT 1	- Reg. V/18.	- Reg. V/19, - IMO Res. A.278(VIII), - IMO Res. A.694(17), - IMO Res. A.823(19), - IMO Res. MSC.191(79), - IMO Res. MSC.192(79), - ITU-R M. 628-3(11/93), - ITU-R M. 1177-3(06/03).	- EN 60945:2002, - EN 61162 series, - IEC 62288 Ed.1.0:2008, - EN 62388:2008. Or, - IEC 60945:2002, - 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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4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/4.35	Radar equipment CAT 2	- Reg. V/18.	- Reg. V/19, - IMO Res. A.278(VIII), - IMO Res. A.694(17), - IMO Res. MSC.191(79), - IMO Res. MSC.192(79), - ITU-R M. 628-3(11/93), - ITU-R M. 1177-3(06/03).	- EN 60945:2002, - EN 61162 series, - IEC 62288 Ed.1.0:2008, - EN 62388:2008. Or, - IEC 60945:2002, - IEC 61162 series, - IEC 62288 Ed.1.0:2008, - IEC 62388 Ed.1.0:2007.	B + D B + E B + F G
A.1/4.36	Radar equipment CAT 3	- Reg. V/18.	- Reg. V/19, - IMO Res. A.278(VIII), - IMO Res. A.694(17), - IMO Res. MSC.191(79), - IMO Res. MSC.192(79), - ITU-R M. 628-3(11/93), - ITU-R M. 1177-3(06/03).	- EN 60945:2002, - EN 61162 series, - IEC 62288 Ed.1.0:2008, - EN 62388:2008. Or, - IEC 60945:2002, - 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, CAT 2H and CAT 3H)	- 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. A.820(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.192(79), - ITU-R M. 628-3(11/93), - ITU-R M. 1177-3(06/03).	- EN 60945:2002, - EN 61162 series, - IEC 62288 Ed.1.0:2008, - EN 62388:2008. Or, - IEC 60945:2002, - IEC 61162 series, - IEC 62288 Ed.1.0:2008, - IEC 62388 Ed.1.0:2007.	B + D B + E B + F G
A.1/4.38	Radar equipment	- Reg. X/3, - IMO Res.	- IMO Res. A.278(VIII), - IMO Res. A.694(17),	- EN 60945:2002, - EN 61162 series,	B + D B + E

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
	approved with a chart option (CAT 1HC, CAT 2HC and CAT 3HC)	MSC.36(63) – (1994 HSC Code) 13, - IMO Res. MSC.97(73) – (2000 HSC Code) 13.	- IMO Res. A.820(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.192(79), - ITU-R M. 628-3(11/93), - ITU-R M. 1177-3(06/03).	- IEC 62288 Ed.1.0:2008, - EN 62388:2008. Or, - IEC 60945:2002, - IEC 61162 series, - IEC 62288 Ed.1.0:2008, - IEC 62388 Ed.1.0:2007.	B + F G
A.1/4.39	Radar reflector	- 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).	- EN ISO 8729:1998, - EN 60945:2002. Or, - ISO 8729:1997, - IEC 60945:2002.	B + D B + E B + F G
A.1/4.40	Heading control system for high speed craft	- Reg. X/3, - IMO Res. MSC.36(63) – (1994 HSC Code) 13, - IMO Res. MSC.97(73) – (2000 HSC Code) 13.	- IMO Res. A.694(17), - IMO Res. A.822(19), - IMO Res. MSC.36(63) – (1994 HSC Code) 13, - IMO Res. MSC.97(73) – (2000 HSC Code) 13, - IMO Res. MSC.191(79).	- ISO 16329:2003, - EN 60945:2002, - EN 61162 series, - IEC 62288 Ed.1.0:2008. Or, - ISO 16329:2003, - IEC 60945:2002, - 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, - EN 60945:2002, - EN 61162 series, - IEC 62288 Ed.1.0:2008. Or, - ISO 22090-3:2004, - IEC 60945:2002, - IEC 61162 series, - IEC 62288	B + D B + E B + F G

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4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
				Ed.1.0:2008.	
A.1/4.42	Searchlight for high speed craft	- Reg. X/3, - IMO Res. MSC.36(63) – (1994 HSC Code) 13, - IMO Res. MSC.97(73) – (2000 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, Or, - ISO 17884:2004, - IEC 60945:2002.	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.	- ISO 16273:2003, - EN 60945:2002, Or, - ISO 16273:2003, - IEC 60945:2002.	B + D B + E B + F G
A.1/4.44 Ex A.2/4.12	Differential beacon receiver: DGPS, D 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.114(73).	- EN 60945:2002, - EN 61108-4:2004, - EN 61162 series. Or, - IEC 60945:2002, - IEC 61108-4:2004, - IEC 61162 series.	B + D B + E B + F G
A.1/4.45 Ex A.2/4.21	Chart facilities for shipborne radar	- 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.817(19), - IMO Res. MSC.36(63) – (1994 HSC Code) 13, - IMO Res. MSC.64(67), - IMO Res. MSC.97(73) – (2000 HSC Code) 13, - IMO Res. MSC.191(79), - IMO Res. MSC.192(79).	- EN 60936-3:2002, - EN 60945:2002, - EN 61162 series, - IEC 62388 Ed.1.0:2008, - EN 62388:2008. Or, - IEC 60936-3:2002, - IEC 60945:2002, - IEC 61162 series, - IEC 62388 Ed.1.0:2008,	B + D B + E B + F G

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
				- IEC 62388 Ed.1.0:2007.	
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).	- ISO 22090-1:2002, - EN 60945:2002, - EN 61162 series. Or, - ISO 22090-1:2002 including Corr.1:2005, - IEC 60945:2002, - IEC 61162 series.	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.214(81), - IMO Res. MSC.191(79).	- EN 60945:2002, - EN 61162 series, - IEC 61996-2:2008, - IEC 62388 Ed.1.0:2008. Or, - IEC 60945:2002, - IEC 61162 series, - IEC 61996-2:2007, - IEC 62388 Ed.1.0:2008.	B + D B + E B + F G
A.1/4.48 Ex A.1/1.40	Mechanical pilot hoist	- Reg. V/23.	- Reg. V/23, - IMO Res. A.889(21), - IMO MSC/Circ.773.	- IMO Res.A.889(21).	B + D B + E B + F
A.1/4.49 Ex A.1/1.42	Pilot ladder	- Reg. V/23, - Reg. X/3.	- Reg. V/23, - IMO Res. A.889(21), - IMO MSC/Circ.773.	- IMO Res.A.889(21), - ISO 799:2004.	B + D B + E B + F G
A.1/4.50 (new item)	DGPS equipment	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63)-(1994 HSC code) 13, - IMO Res.	- 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, - IEC 61108-1:2003, - IEC 61108-4:2004, - EN 61162 series, - IEC 62388 Ed.1.0:2008. Or,	B + D B + E B + F G

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4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
		MSC.97(73)-(2000 HSC Code) 13.	- IMO Res. MSC.191(79).	- IEC 60945:2002, - IEC 61108-1:2003, - IEC 61108-4:2004, - IEC 61162 series, - IEC 62388 Ed.1.0:2008.	
A.1/4.5.1 (new item)	D 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.114(73), - IMO Res. MSC.191(79).	- EN 60945:2002, - IEC 61108-2:1998, - IEC 61108-4:2004, - EN 61162 series, - IEC 62388 Ed.1.0:2008. Or, - IEC 60945:2002, - IEC 61108-2:1998, - IEC 61108-4:2004, - IEC 61162 series, - IEC 62388 Ed.1.0:2008.	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.

Wherever reference is made to EN 61162 series or IEC 61162 series, the intended item layout shall be taken into account to determine the applicable standard of EN 61162 series or IEC 61162 series.

5. Radiocommunication equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/5.1	VHF radio capable of transmitting and receiving DSC and radiotelephony	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) – (1994 HSC Code) 14, - IMO Res. MSC.97(73) – (2000 HSC Code) 14.	- Reg. IV/7, - Reg. X/3, - IMO Res. A.385(X), - IMO Res. A.524(13), - IMO Res. A.694(17), - IMO Res. A.803(19), - IMO Res. MSC.36(63) – (1994 HSC Code) 14, - IMO Res. MSC.97(73) – (2000 HSC Code) 14, - IMO MSC/Circ.862, - IMO COMSAR Circ.32, - ITU-R M.489-2 (10/95), - ITU-R M.493-12 (03/07), - ITU-R M.541-8 (10/97), - ITU-R M.689-2 (11/93).	- ETSI ETS 300162-1 V1.4.1:2005-05, - ETSI EN 300338 V1.2.1:1999-04, - ETSI EN 300828 V1.1.1:1998-03, - ETSI EN 301925 V1.1.1:2002-09, - EN 60495:2002, - IEC 61097-3:1994, - IEC 61097-7:1996, - EN 61162 series, - IMO MSC/Circ.862.	B + D B + E B + F G
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.493-12 (03/07), - ITU-R M.541-8 (10/97).	- ETSI EN 300338 V1.2.1:1999-04, - ETSI EN 300828 V1.1.1:1998-03, - ETSI EN 301033 V1.2.1:2005-05, - EN 60495:2002, - IEC 61097-3:1994, - IEC 61097-8:1998.	B + D B + E B + F G
A.1/5.3	NAVTEX receiver	- Reg. IV/14, - Reg. X/3,	- Reg. IV/7, - Reg. X/3,	- ETSI EN 300065-1 V1.1.3:2005-5,	B + D B + E

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5. Radiocommunication equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
		- IMO Res. MSC.36(63) – (1994 HSC Code) 14, - IMO Res. MSC.97(73) – (2000 HSC Code) 14.	- IMO Res. A.694(17), - IMO Res. MSC.36(63) – (1994 HSC Code) 14, - IMO Res. MSC.97(73) – (2000 HSC Code) 14, - IMO Res. MSC.148(77), - IMO COMSAR Circ.32, - ITU-R M.540-2 (06/90), - ITU-R M.625-3 (10/95).	- ETSI EN 301011 V1.1.1:1998-09, - EN 60495:2002, - IEC 61097-6:2005-12.	B + F G
A.1/5.4	EGC receiver	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) – (1994 HSC Code) 14, - IMO Res. MSC.97(73) – (2000 HSC Code) 14.	- Reg. IV/7, - Reg. X/3, - IMO Res. A.570(14), - IMO Res. A.664(16), - IMO Res. A.694(17), - IMO Res. MSC.36(63) – (1994 HSC Code) 14, - IMO Res. MSC.97(73) – (2000 HSC Code) 14, - IMO COMSAR Circ.32.	- ETSI ETS 300460 Ed.1:1996-05, - ETSI ETS 300460/A1:1997-11, - ETSI EN 300829 V1.1.1:1998-03, - EN 60945:2002, - IEC 61097-4:1994.	B + D B + E B + F G
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).	- ETSI ETS 300067 Ed.1:1990-11, - ETSI ETS 300067/A1 Ed.1:1993-10, - EN 60945:2002, - EN 61162 series.	B + D B + E B + F G
A.1/5.6	406 MHz EPIRB (COSPAS-SARSAT)	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) – (1994 HSC	- Reg. IV/7, - Reg. X/3, - IMO Res. A.662(16), - IMO Res. A.694(17), - IMO Res. A.696(17),	- ETSI ETS 300066 v1.3.1:2001-01, - EN 60945:2002, - EN 61097-2:2002, - IMO MSC/Circ.862.	B + D B + E B + F G

5. Radiocommunication equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
		Code) 14, - IMO Res. MSC.97(73) – (2000 HSC Code) 14.	- 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.633-2 (05/00), - ITU-R M.690-1 (10/95).	Note: IMO MSC/Circ 862 is applicable only to the optional remote activation device, not to the EPIRB itself.	
A.1/5.7	L-band EPIRB (INMARSAT)	Item deleted			
A.1/5.8	2182 kHz watch receiver	Item deleted			
A.1/5.9	Two-tone alarm generator	Item deleted			
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.493-12 (03/07), - ITU-R M.541-8 (10/97).	- ETSI EN 300338 V1.2.1:1999-04, - ETSI ETS 300373-1 V1.2.1:2002-10, - EN 60945:2002, - EN 61097-3:1994, - EN 61097-9:1997, - EN 61162 series, - IMO MSC/Circ.862.	B + D B + E B + F G

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5. Radiocommunication equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/5.1 1	MF 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/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.493-12 (03/07), - ITU-R M.541-8 (10/97), - ITU-R M.1173 (10/95).	- ETSI EN 300338 V1.2.1:1999-04, - ETSI ETS 301033 V1.2.1:2005-05, - EN 60945:2002, - EN 61097-3:1994, - EN 61097-8:1998.	B + D B + E B + F G
A.1/5.1 2	Inmarsat-B SES	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) – (1994 HSC Code) 14, - IMO Res. MSC.97(73) – (2000 HSC Code) 14.	- Reg. IV/10, - Reg. X/3, - IMO Res. A.570(14), - IMO Res. A.694(17), - IMO Res. A.808(19), - IMO Res. MSC.36(63) – (1994 HSC Code) 14, - IMO Res. MSC.97(73) – (2000 HSC Code) 14, - IMO MSC/Circ.862, - IMO COMSAR Circ.32.	- EN 60945:2002, - IEC 61097-10:1999, - IMO MSC/Circ.862.	B + D B + E B + F G
A.1/5.1 3	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.	- ETSI ETS 300460 Ed.1:1996-05, - ETSI ETS 300460/A1:1997-11, - ETSI EN 300829 V1.1.1:1998-03, - EN 60945:2002, - IEC 61097-4:1994, - EN 61162 series, - IMO MSC/Circ.862.	B + D B + E B + F G
A.1/5.1	MF/HF radio	- Reg. IV/14,	- Reg. IV/10,	- ETSI ETS 300067	B + D

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5. Radiocommunication equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
4	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. X/3, - IMO Res. MSC.36(63) – (1994 HSC Code) 14, - IMO Res. MSC.97(73) – (2000 HSC Code) 14.	- 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.493-12 (03/07), - ITU-R M.541-8 (10/97), - ITU-R M.625-3 (10/95), - ITU-R M.1173 (10/95).	Ed.1:1990-11, - ETSI ETS 300067/A1 Ed.1:1993-10, - ETSI EN 300338 V1.2.1:1999-04, - ETSI EN 300373-1 V1.2.1:2002-10, - EN 60945:2002, - IEC 61097-3:1994, - IEC 61097-9:1997, - EN 61162 series, - IMO MSC/Circ.862.	B + E B + F G
A.1/5.15	MF/HF 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/10, - Reg. X/3, - IMO Res. A.694(17), - IMO Res. A.806(19), - IMO Res. MSC.36(63) – (1994 HSC Code) 14, - IMO Res. MSC.97(73) – (2000 HSC Code) 14, - IMO COMSAR Circ.32, - ITU-R M.493-12 (03/07), - ITU-R M.541-8 (10/97).	- ETSI EN 300338 V1.2.1:1999-04, - ETSI EN 301033 V1.2.1:2005-05, - EN 60945:2002, - IEC 61097-3:1994, - IEC 61097-8:1998.	B + D B + E B + F G
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.	- ETSI EN 301688 V1.1.1:2000-07, - EN 60945:2002.	B + D B + E B + F G

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5. Radiocommunication equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/5.17	Portable survival craft two-way VHF radiotelephone apparatus	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) – (1994 HSC Code) 14, - IMO Res. MSC.97(73) – (2000 HSC Code) 14.	- Reg. III/6, - IMO Res. A.694(17), - IMO Res. A.809(19), - IMO Res. MSC.36(63) – (1994 HSC Code) 8, 14, - IMO Res. MSC.97(73) – (2000 HSC Code) 8, 14, - IMO Res. MSC.149(77), - ITU-R M.489-2 (10/95), - ITU-R M.542-1 (07/82).	- ETSI EN 300225 V1.4.1:2004-12, - EN 300828 V1.1.1:1998-03, - EN 60945:2002, - IEC 61097-12:1996.	B + D B + E B + F G
A.1/5.18	Fixed survival craft two-way VHF radiotelephone apparatus	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) – (1994 HSC Code) 14, - IMO Res. MSC.97(73) – (2000 HSC Code) 14.	- Reg. III/6, - IMO Res. A.694(17), - IMO Res. A.809(19), - IMO Res. MSC.36(63) – (1994 HSC Code) 8, 14, - IMO Res. MSC.97(73) – (2000 HSC Code) 8, 14, - ITU-R M.489-2 (10/95).	- ETSI EN 301466 V1.1.1:2000-11, - EN 60945:2002, - IEC 61097-12:1996.	B + D B + E B + F G
A.1/5.19	Inmarsat-F 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, - 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.	- EN 60945:2002, - IEC 61097-13:2003, - IMO MSC/Circ.862	B + D B + E B + F G

6. **Equipment required under COLREG 72**

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

6. Equipment required under COLREG 72					
No	Item designation	Regulation COLREG 72 where 'type-approval' is required	Regulations of COLREG and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/6.1	Navigation lights	- COLREG Annex I/14.	- Annex I/14, - IMO Res. A.694(17), - IMO Res. MSC.253(83).	- EN 14744:2005 including AC:2007, - EN 60495:2002. Or - EN 14744:2005 including AC:2007, - IEC 60945:2002.	B + D B + E B + F G

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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 should apply except when superseded by the specific instruments referred to in Column 4.

1. Life-saving appliances					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 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	Item deleted			
A.2/1.3	Float-free launching appli-ances for survival craft	- Reg. III/4, - Reg. III/34.	- Reg. III/13, - Reg. III/16, - Reg. III/26, - Reg. III/34, - IMO Res. MSC.36(63) – (1994 HSC Code) 8, - IMO Res. MSC.48(66) – (LSA Code) I, IV, VI, - IMO Res. MSC.97(73) – (2000 HSC Code) 8.		
A.2/1.4	Embarkation ladders	Moved to A.1/1.29			
A.2/1.5	Public address & general emergency alarm system (when used as fire alarm device item A.1/3.53 shall apply)	- Reg. III/6.	- IMO Res. 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

2. Marine pollution prevention					
No	Item designation	Regulation MARPOL73/78 where 'type-approval' is required	Regulations of MARPOL 73/78 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/2.1	On board NO_x monitoring and recording devices	Moved to A.1/2.8			
A.2/2.2	On board exhaust gas cleaning systems	- Annex VI Reg. 13, - Annex VI Reg. 14.	- Annex VI Reg. 13, - Annex VI Reg. 14.	- IMO Res. MEPC.170(57).	
A.2/2.3	Equivalent methods to reduce on board NO_x emissions	- Annex VI Reg. 13.	- Annex VI Reg. 13.		
A.2/2.4	Other technological methods to limit SO_x emissions	Moved to A.1/2.9			

3. Fire protection equipment

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 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 transpor-table extinguishers	Moved to A.1/3.52			

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3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/3.2	Nozzles for fixed pressure water-spraying fire extinguishing systems for special category spaces, ro-ro cargo spaces, ro-ro spaces and vehicles spaces	Moved to A.1/3.49			
A.2/3.3	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), - IMO Res. MSC.97(73) – (2000 HSC Code).		
A.2/3.4	Dual purpose type nozzles (spray/jet type)	Moved to A.1/3.55			
A.2/3.5	Fixed fire detection and fire alarm systems compo-nents 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			

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/3.8	Electric safety lamp	- Reg. II-2/10, - Reg. X/3, - IMO Res. MSC.98(73) – (FSS Code).	- Reg. II-2/10, - IMO Res. MSC.36(63) – (1994 HSC Code), - IMO Res. MSC.97(73) – (2000 HSC Code), - IMO Res. MSC.98(73) – (FSS Code).	- IEC Publication 79.	
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, - EN 943-1:2002 including AC:2005, - EN 943-2:2002, - EN ISO 6529:2003, - EN ISO 6530:2005, - EN 14605:2005, - IMO MSC/Circ.1120.	
A.2/3.10	Low-location lighting systems	Moved to A.1/3.40			
A.2/3.11	Nozzles for fixed pressure water spraying fire extinguishing systems for machinery spaces	Moved to A.1/3.10			
A.2/3.12	Equivalent fixed gas fire extinguishing systems for machinery spaces and cargo pump rooms	Moved to A.1/3.45			
A.2/3.13	Compressed airline breathing	- Reg. II-2/10, - Reg. X/3,	- Reg. II-2/10, - IMO Res. MSC.36(63) –	- EN 14593-1:2005, - EN 14593-2:2005.	

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3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
	apparatus (High Speed Craft)	- IMO Res. MSC.98(73) – (FSS Code).	(1994 HSC Code) 7, - IMO Res. MSC.97(73) – (2000 HSC Code) 7, - IMO Res. MSC.98(73) – (FSS Code) 3.		
A.2/3.14	Fire hoses (reel type)	Moved to A.1/3.56			
A.2/3.15	Sample extraction smoke detection systems compo-nents	- Reg. II-2/7, - Reg. II-2/19, - Reg. II-2/20, - IMO Res. MSC.98(73) – (FSS Code).	- Reg. II-2/7, - Reg. II-2/19, - Reg. II-2/20, - IMO Res. MSC.98(73) – (FSS Code).		
A.2/3.16	Flame detectors	Moved to A.1/3.51			
A.2/3.17	Manual call points	Moved to A.1/3.51			
A.2/3.18	Alarm devices	Moved to A.1/3.53			
A.2/3.19	Fixed water based local application fire fighting systems components for use in category 'A' machinery spaces	Moved to A.1/3.48			
A.2/3.20	Upholstered furniture	Moved to A.1/3.20			
A.2/3.21	Paint lockers and flammable	- Reg. II-2/10.	- Reg. II-2/10, - IMO Res. MSC.98(73) –		

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
	liquid lockers fire extinguishing systems components		(FSS Code), - 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 extin-guishing systems compo-nents	- Reg. II-2/18.	- Reg. II-2/18, - IMO MSC.1/Circ.1239.	- EN 13565-1:2003 including A1:2007.	
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), - IMO Res. MSC.97(73) – (2000 HSC Code), - IMO Res. MSC.98(73) – (FSS Code), - IMO MSC.1/Circ.1239.		
A.2/3.25	'C' class divisions	- Reg. II-2/3.	- Reg. II-2/3.	- IMO Res. A.653(16), - IMO Res. A.799(19), - IMO Res. MSC.61(67) – (FTP Code) Annex I Part 1 and Part 5 and Annex 2, - ISO 1716:1973.	
A.2/3.26	Gaseous fuel systems used for domestic	- Reg. II-2/4.	- Reg. II-2/4, - IMO MSC.1/Circ.1276.		

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3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
	purposes (components)				
A.2/3.27	Fixed gas fire extinguishing systems (CO_2) components	- Reg. II-2/5, - Reg. II-2/10, - Reg. X/3.	- Reg. II-2/5, - Reg. II-2/10, - Reg. II-2/20, - IMO Res. MSC.36(63) – (1994 HSC Code), - IMO Res. MSC.97(73) – (2000 HSC Code), - IMO Res. MSC.98(73) – (FSS Code).	- EN 12094-1:2003, - EN 12094-2:2003, - EN 12094-3:2003, - EN 12094-4:2004, - EN 12094-5:2006, - EN 12094-6:2006, - EN 12094-7:2000 including A1:2005, - EN 12094-8:2006, - EN 12094-10:2003, - EN 12094-11:2003, - EN 12094-13:2001 including AC:2002, - EN 12094-16:2003.	
A.2/3.28	Medium expansion foam fire extinguishing systems components — fixed deck foam for tankers	Moved to A.1/3.57			
A.2/3.29	Fixed low expansion foam fire extinguishing systems components for machinery spaces and tanker deck protection	Moved to A.1/3.58			
A.2/3.30	Expansion foam for fixed fire extinguishing systems for chemical	Moved to A.1/3.59			

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
	tankers				
A.2/3.3.1	Water spraying hand operated system	- Reg. II-2/10.	- Reg. II-2/10, - A800(19).		

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.

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 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	- Reg. V/18, - Reg. X/3,	- Reg. V/19, - IMO Res. A.694(17),	- EN 60945:2002, - ISO 25861:2007.	

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4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
		- IMO Res. MSC.36(63) – (1994 HSC Code), - IMO Res. MSC.97(73) – (2000 HSC Code).	- IMO Res. MSC.36(63) – (1994 HSC Code), - IMO Res. MSC.95(72), - IMO Res. MSC.97(73) – (2000 HSC Code).	Or, - IEC 60945:2002, - ISO 25861:2007.	
A.2/4.5	Searchlight for high speed craft	Moved to A.1/4.42			
A.2/4.6	Night vision equipment for high speed craft	Moved to A.1/4.43			
A.2/4.7	Track control system	Moved to A.1/4.33			
A.2/4.8	Electronic chart display and information system (ECDIS)	Moved to A.1/4.30			
A.2/4.9	Electronic chart display and information system (ECDIS) backup	Moved to A.1/4.30			
A.2/4.10	Raster chart display system (RCDS)	Moved to A.1/4.30			
A.2/4.11	Combined GPS/GLONASS equipment	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) – (1994 HSC Code),	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.36(63) – (1994 HSC Code), - IMO Res. MSC.74(69), - IMO Res. MSC.97(73) –	- EN 60945:2002, - EN 61162 series. Or, - IEC 60945:2002, - IEC 61162 series.	

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
		- IMO Res. MSC.97(73) – (2000 HSC Code).	(2000 HSC Code).		
A.2/4.12	DGPS, D GLONASS equipment	Moved to A.1/4.44, A.1/4.50 and A.1/4.51			
A.2/4.13	Gyro compass for high speed craft	Moved to A.1/4.31			
A.2/4.14	Voyage data recorder (VDR)	Moved to A.1/4.29			
A.2/4.15	Integrated navigation system	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) – (1994 HSC Code) 13, - IMO Res. MSC.97(73) – (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.86(70).	- EN 60945:2002, - EN 61162 series, - IEC 61924:2006. Or, - IEC 60945:2002, - IEC 61162 series, - IEC 61924:2006.	
A.2/4.16	Integrated bridge system	Item deleted			
A.2/4.17	Radar target enhancer	- Reg. V/18, - 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.164(78), - ITU-R M 1176 (10/95).	- EN 60945:2002. Or, - IEC 60945:2002.	

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4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/4.18	Sound reception 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), - IMO Res. MSC.86(70), - IMO Res. MSC.97(73) – (2000 HSC Code).	- EN 60945:2002, - EN 61162 series. Or, - IEC 60945:2002, - IEC 61162 series.	
A.2/4.19	Magnetic 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.382(X), - IMO Res. A.694(17), - IMO Res. MSC.36(63) – (1994 HSC Code), - IMO Res. MSC.97(73) – (2000 HSC Code).	- EN ISO 449:1999, - EN ISO 694:2001, - ISO 1069:1973, - ISO 2269:1992, - EN 60945:2002. Or, - ISO 449:1999, - ISO 694:2001, - ISO 1069:1973, - ISO 2269:1992, - IEC 60945:2002.	
A.2/4.20	Track 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. MSC.36(63) – (1994 HSC Code), - IMO Res. MSC.97(73) – (2000 HSC Code).	- EN 60945:2002, - EN 61162 series. Or, - IEC 60945:2002, - IEC 61162 series.	
A.2/4.21	Chart facilities for shipborne radar	Moved to A.1/4.45			
A.2/4.22	Transmitting heading device THD (Gyroscopic	Moved to A.1/4.46			

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
	method)				
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).	- EN 60945:2002, - EN 61162 series. Or - IEC 60945:2002, - IEC 61162 series.	
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).	- EN 60945:2002, - EN 61162 series. Or - IEC 60945:2002, - IEC 61162 series.	
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.2/4.2	Pitch indicator	Moved to			

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4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
9		A.1/4.22			
A.2/4.30	Integrated bridge 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.64(67), - IMO Res. MSC.97(73) – (2000 HSC Code) 15.	- EN 60945:2002, - EN 61162 series, - EN 61209:1999. Or, - IEC 60945:2002, - IEC 61162 series, - IEC 61209:1999.	
A.2/4.31	Bearing device	- Reg. V/18.	- Reg. V/19.	- EN 60945:2002. Or - IEC 60945:2002.	
A.2/4.32	Bridge Navigational Watch Alarm System (BNWAS)		- IMO Res. A.694(17), - IMO Res. MSC.128(75), - IMO MSC.Circ.982.	- EN 60945:2002, - EN 61162 series. Or, - IEC 60945:2002, - IEC 61162 series.	
A.2/4.33	Track control system (working at ship's speed from 30 knots and above)	- Reg. V/18, - Reg. X/3.		- EN 60945:2002.	
A.2/4.34 (new item)	Equipment with long range identification and tracking (LRIT) capability	- Reg. V/19.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. A.813(19), - IMO Res. MSC.202(81), - IMO Res. MSC.211(81), - IMO Res. MSC.263(84), - IMO MSC.1/Circ.1257.	- EN 60945:2002, - EN 61162 series. Or, - IEC 60945:2002, - IEC 61162 series.	
A.2/4.35	Galileo receiver	- Reg. V.	- Reg. V, - IMO Res. A.694(17),	- EN 60945:2002, - EN 61162 series.	

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
(new item)			- IMO Res. A.813(19), - IMO Res. MSC.233(82).	Or, - IEC 60945:2002, - IEC 61162 series.	
A.2/4.36 (new item)	AIS SART equipment	- Reg. V.	- Reg. V, - IMO Res. MSC.246(83), - IMO Res. MSC.247(83), - IMO Res. MSC.256(84).	- EN 60945:2002, - EN 61162 series. Or, - IEC 60945:2002, - IEC 61162 series.	

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5. Radiocommunication equipment

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No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 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/18, - 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. Or, - IEC 60945:2002.	
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. Or, - IEC 60945:2002.	
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. Or, - IEC 60945:2002.	
A.2/5.5	Distress alarm or alert panel	- Reg. IV/14, - Reg. X/3, - IMO Res.	- Reg. IV/6, - IMO Res. A.694(17), - IMO Res. MSC.36(63) –	- EN 60945:2002. Or, - IEC 60945:2002.	

5. Radiocommunication equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
		MSC.36(63) – (1994 HSC Code), - IMO Res. MSC.97(73) – (2000 HSC Code).	(1994 HSC Code), - IMO Res. MSC.97(73) – (2000 HSC Code), - IMO MSC/Circ.862, - IMO COMSAR Circ.32.		
A.2/5.6	L-band EPIRB (INMARSAT)	Item deleted			
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. Or, - IEC 60945:2002.	

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6. Equipment required under COLREG 72

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No	Item designation	Regulation COLREG 72 where 'type-approval' is required	Regulations of COLREG 72 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/6.1	Navigation lights	Moved to A.1/6.1			
A.2/6.2	Sound signal appliances	- Annex III/3.	- Annex III/3, - IMO Res. A.694(17).	- EN 60945:2002, - Whistles – COLREG 72 Annex III/I (Performance), - Bells or Gongs – COLREG 72 Annex III/2 (Performance), - IEC 60945:1996, - Whistles – COLREG 72 Annex III/I (Performance), - Bells or Gongs – COLREG 72 Annex III/2 (Performance).	

7. Bulk carrier safety equipment

7. Bulk carrier safety equipment					
No	Item designation	Regulation SOLAS 74 here 'type-approval' is required	Regulations of SOLAS 74 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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A.2/7.2	Water level detectors on bulk carriers	- IMO Res. MSC.188(79) .	- Reg. XII/12, - IMO Res. MSC.188(79).	- IEC 60092-0504, - IEC 60529, - IMO Res. MSC.188(79).	

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