

Council Directive 96/98/EC of 20 December 1996 on marine equipment (repealed)

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[^{F1}ANNEX A

List of acronyms used

Textual Amendments

- F1** Substituted by [Commission Directive 2008/67/EC of 30 June 2008 amending Council Directive 96/98/EC on marine equipment \(Text with EEA relevance\)](#).

Circ., Circular.

COLREG, International Regulations for Preventing Collisions at Sea.

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

EN, European Standard.

ETSI, European Telecommunication Standardisation Institute.

FSS, International Code for Fire Safety Systems.

FTP, International Code for Application of Fire Test Procedures.

HSC, High Speed Craft Code.

IBC, International Bulk Chemical Code.

ICAO, International Civil Aviation Organization.

IEC, International Electro-technical Commission.

IMO, International Maritime Organization.

ISO, International Standardisation Organisation.

ITU, International Telecommunication Union.

LSA, Life saving appliance.

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

MEPC, Marine Environment Protection Committee.

MSC, Maritime Safety Committee.

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

Reg., Regulation.

Res., Resolution.

ANNEX A.1

EQUIPMENT FOR WHICH DETAILED TESTING STANDARDS ALREADY EXIST IN INTERNATIONAL INSTRUMENTS

Notes applicable to the whole of Annex A.1

- a) General: in addition to the testing standards specifically mentioned, a number of provisions, which must be checked during type-examination (type approval) as referred to in the modules for conformity assessment in Annex B, are to be found in the applicable requirements of the international conventions and the relevant resolutions and circulars of the IMO.
- b) Column 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.
- c) 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.
- d) 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.
- e) Column 6: Where module H appears, module H plus design-examination certificate is to be understood.
- f) The requirements laid down in this Annex shall be without prejudice to carriage requirements in the international conventions.

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)-	— IMO Res. MSC.36(63)-	B + D B + E B1 (70).

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					(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.		
A.1/1.2	Position-indicating lights for life-saving appliances: — for survival craft and rescue boats, — for lifebuoys, — for lifejackets.	— —	Reg. III/4, Reg. X/3.	— — — — — — — — — —	Reg. III/7, Reg. III/22, Reg. III/26, Reg. III/32, Reg. III/34, IMO Res. MSC 36(63)- (1994 HSC Code) 8, IMO Res. MSC 48(66)-(LSA Code) II, IV, IMO Res. MSC 97(73)- (2000 HSC Code) 8,	— IMO Res. MSC 81(70).	B + D B + E

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				—	IMO MSC/ Circ 885, — IMO MSC/ Circ.980.		
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 MSC/ Circ.980.	—	IMO Res. MSC B + D B + E 81 (70).
A.1/1.4	Lifejackets	— —	Reg. III/4, Reg. X/3.	— — — — — — — — —	Reg. III/7, Reg. III/22,(Except Reg. for battery III/34,requirements IMO as specified Res. in EN 394 MSC.36(63) which (1994 only apply HSC to lifejacket Code)lights). 8, IMO Res. MSC.48(66)- (LSA	—	IMO Res. MSC B + D B + E 81 (70).

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					Code) I, II, IMO Res. MSC.97(73)- (2000 HSC Code) 8, IMO MSC/ Circ.922, IMO MSC/ Circ.980.		
A.1/1.5	Immersion suits and anti-exposure suits not classified as lifejackets: — Insulated or not insulated.	— —	Reg. III/4, Reg. X/3.	— — — — — — — — — —	Reg. III/7, Reg. III/22, Reg. III/32, Reg. III/34, IMO Res. MSC.36(63)- (1994 HSC Code) 8, IMO Res. MSC.48(66)- (LSA Code) I, II, IMO Res. MSC.97(73)- (2000 HSC Code) 8, IMO MSC/ Circ.980.	—	IMO Res. MSC.81(70), EN ISO 15027-3 (2002).
A.1/1.6	Immersion suits and anti-exposure suits classified as lifejackets:	— —	Reg. III/4, Reg. X/3.	— — — — — — — — — —	Reg. III/7, Reg. III/22, Reg. III/32,	—	IMO Res. MSC.81(70), EN ISO

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	—	Insulated or non-insulated.	—	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.	15027-3 (2002).	
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. B + D B + E MSC.81(70).

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				—	IMO MSC/ Circ.980.		
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 MSC/ Circ.980.	—	IMO Res. MSC B + D B + E 81 (#70).
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	—	IMO Res. MSC B + D B + E 81 (#70).

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				Code) 8, IMO MSC/ Circ.980.			
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 MSC/ Circ.980.	— —	IMO Res. MSC B + D B + E 81 (#70).
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 B + D B + E 81 (#70).
A.1/1.12	Inflatable liferafts	— —	Reg. III/4, Reg. X/3.	— — —	Reg. III/13, Reg. III/21, Reg. III/26,	— —	IMO Res. MSC B + D B + E 81 (#70).

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				—	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 MSC/Circ.980.		
A.1/1.13	Rigid liferafts	—	Reg. III/4,	—	Reg. III/21,	—	IMO B + D
		—	Reg. X/3.	—	Reg. III/26,	—	Res. B + E
				—	Reg. III/31,	—	MSC.81(70),
				—	Reg. III/34,	—	IMO
				—	IMO Res. MSC.36(63)-(1994 HSC Code) 8,	—	MSC/
				—	IMO Res. MSC.48(66)-(LSA Code)	—	Circ.1006.

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				I, IV, IMO Res. MSC.97(73)- (2000 HSC Code) 8, IMO MSC/ Circ.811, IMO MSC/ Circ.980.		
A.1/1.14	Automatically self-righting life rafts	— —	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 MSC/ Circ.980.	IMO Res. B + D B + E MSC.81(70), IMO MSC/ Circ.809 including Add.1, IMO MSC/ Circ.1006.

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A.1/1.15	Canopied reversible liferafts	—	Reg. III/4, Reg. X/3.	—	Reg. III/26, Reg. III/34, IMO Res. MSC.36(63)- (1994 HSC Code) 8, 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 MSC/Circ.980.	—	IMO Res. B + D MSC 81 (#70), IMO MSC/Circ.809 including Add.1, IMO MSC/Circ.1006.
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	—	IMO Res. B + D MSC 81 (#70).

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				Code) 8, — IMO Res. MSC 48(66)- (LSA Code) I, — IV, IMO Res. MSC 97(73)- (2000 HSC Code) 8, — IMO MSC/ Circ.811, — IMO MSC/ Circ.980.	
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 MSC/ Circ.980.	— IMO B + D Res. B + F MSC 81(70), — IMO MSC/ Circ.1006.

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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 MSC/Circ.980.	—	IMO Res. MSC.81(70), IMO MSC/Circ.1006.	B + D B + F
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 MSC/Circ.980.	—	IMO Res. MSC.81(70), ISO 15372 (2000).	B + D B + F

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					HSC Code) 8, IMO MSC/Circ.980.			
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 using falls (davits)	—	Reg. III/4, Reg. X/3.	—	Reg. III/23, Reg. III/33, Reg. III/34, IMO Res. MSC 36(63)-(1994 HSC Code) 8, IMO Res. MSC 48(66)-(LSA Code) I, VI, IMO Res.	—	IMO Res. MSC 81(70), G	B + D B + E G

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					MSC.97(73)- (2000 HSC Code) 8, IMO MSC/ Circ.980.		
A.1/1.22	Float free launching appliances for survival craft	Moved to A.2/1.3					
A.1/1.23	Launching appliances for free-fall lifeboats	—	Reg. III/4, Reg. X/3.	—	Reg. III/16, Reg. III/23, Reg. III/33, Reg. III/34, IMO Res. MSC.36(63)- (1994 HSC Code) 8, IMO Res. MSC.48(66)- (LSA Code) I, VI, IMO Res. MSC.97(73)- (2000 HSC Code) 8, IMO MSC/ Circ.980.	—	IMO Res. MSC.81(70). B + D B + E G
A.1/1.24	Liferaft launching appliances (Davits)	—	Reg. III/4, Reg. X/3.	—	Reg. III/12, Reg. III/16, Reg. III/34,	—	IMO Res. MSC.81(70). B + D B + E G

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				—	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 MSC/Circ.980.		
A.1/1.25	Fast rescue boat launching appliances (Davits)	—	Reg. III/4.	—	Reg. III/26, Reg. III/34, IMO Res. MSC.48(66)-(LSA Code) I, VI, IMO MSC/Circ.809 including Add.1, IMO MSC/Circ.980.	—	IMO Res. MSC.81(70). B + D B + E G
A.1/1.26	Release mechanism for — Lifeboats and rescue boats and — Liferafts	—	Reg. III/4, Reg. X/3.	—	Reg. III/16, Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC	—	IMO Res. MSC.81(70). B + D B + E

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	Launched by a fall or falls			—	Code) 8, IMO Res. MSC 48(66)-(LSA Code) I, IV, VI, IMO Res. MSC 97(73)-(2000 HSC Code) 8, IMO MSC/ Circ.980.		
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 MSC/ Circ.980.	—	IMO Res. MSC 81(70). B + D B + F

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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 MSC/Circ.980.	IMO Res. MSC/81(70), IMO MSC/Circ.810.	B + D B + F	
A.1/1.29	Embarkation ladders	Moved to A.2/1.4						
A.1/1.30	Retro-reflective materials	—	Reg. III/4, Reg. X/3.	—	Reg. III/34, IMO Res. MSC.36(63)- (1994 HSC Code) 8, IMO Res. MSC.48(66)- (LSA Code) I, IMO Res. MSC.97(73)- (2000 HSC	IMO Res. A.658(16)F	B + D B + E	

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				Code) 8, IMO MSC/ Circ.980.				
A.1/1.31	Survival craft two-way VHF radio telephone apparatus	Moved to A.1/5.17 and A.1/5.18						
A.1/1.32	9 GHz SAR transponder (SART)	Moved to A.1/4.18						
A.1/1.33	Radar reflector for lifeboats and rescue boats	—	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), IMO MSC/ Circ.980.	—	EN ISO 8729 (1998)G	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	Moved to A.1/3.38						

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	lifeboats and rescue boats							
A.1/1.36	Lifeboat/ rescue boat propulsion engine	— —	Reg. III/4, Reg. X/3.	— —	Reg. III/34, IMO Res. MSC.48(66)- (LSA Code) IV, V.	—	IMO Res. MSC	B + D B + E B1 (#70).
A.1/1.37	Rescue boat propulsion engine- outboard motor	— —	Reg. III/4, Reg. X/3.	— —	Reg. III/34, IMO Res. MSC.48(66)- (LSA Code) V.	—	IMO Res. MSC	B + D B + E B1 (#70).
A.1/1.38	Searchlights for use in lifeboats and rescue boats	— —	Reg. III/4, Reg. X/3.	— — —	Reg. III/34, IMO Res. MSC.36(63)- (1994 HSC Code) 8, IMO Res. MSC.48(66)- (LSA Code) I, IV, V, IMO Res. MSC.97(73)- (2000 HSC Code) 8, IMO MSC/ Circ.980.	—	IMO Res. MSC	B + D B + E B1 (#70).
A.1/1.39	Open reversible liferafts	— —	Reg. III/4, Reg. X/3.	—	IMO Res. MSC.36(63)- (1994 HSC	—	IMO Res. MSC 36(63)- (1994 HSC	B + D B + F 36(63)-

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					Code) 8, Annex 10, — IMO Res. MSC 48(66)- (LSA Code) I, IMO Res. MSC 97(73)- (2000 HSC Code) 8, Annex 11, IMO MSC/ Circ.980.	Code) Annex 10, IMO Res. MSC 97(73)- (2000 HSC Code) Annex 11.	
A.1/1.40	Mechanical pilot hoist	—	Reg. V/23.	—	Reg. V/23, IMO Res. A.889(21), IMO MSC/ Circ.773, IMO MSC/ Circ.980.	—	ISO 799 (2004) B + D B + E B + F
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.	—	IMO Res. MSC 48(66)- (LSA Code), IMO Res. MSC 81(70).

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					MSC/48(66)- (LSA Code) I, VI, IMO Res. MSC/97(73)- (2000 HSC Code) 8.		
A.1/1.42 (New item)	Pilot ladder	—	Reg. V/23, — Reg. X/3.	—	Reg. V/23, — IMO Res. A.889(21), — IMO MSC/ Circ.528/ rev.1.	—	IMO Res. A.889(21) B + D B + E 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.1/2.1	Oil-filtering equipment (for an oil content of the effluent not exceeding 15 p.p.m.)	— Annex I, Reg. 16(4), — Annex I, Reg. 16(5), — Revised Annex I, Reg. 14.6,	— Annex I, Reg. 16(1), — Annex I, Reg. 16(2), Revised Annex I, Reg. 14.1,	— IMO Res. MEPC.60(B3), — IMO Res. MEPC.107(49).	B + D B + E F G

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		—	Revised Annex I, Reg. 14.7.	—	Revised Annex I Reg. 14.2, Revised Annex I Reg. 14.3.		
A.1/2.2	Oil/water interface detectors	—	Annex I, Reg. 15(3) (b), Revised Annex I, Reg. 32.	—	Annex I, Reg. 15(3) (b), Revised Annex I, Reg. 32.	IMO Res. MEPC55(XIII). B + D B + E	
A.1/2.3	Oil-content meters	—	Annex I, Reg. 16(5), Revised Annex I Reg. 14.7, Revised Annex I Reg. 14.7.	—	Annex I, Reg. 16(1) and (2), Revised Annex I, Reg. 14.1 and 14.2.	IMO Res. MEPC60(B3), IMO Res. MEPC.107(49). B + D B + E	
A.1/2.4	Process units intended for attachment to existing oily water separating equipment (for and 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. 15(3) (a),	—	Annex I, Reg. 15(3),	IMO Res. MEPC108(49). B + D B + E	

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		—	Revised Annex I, Reg. 31.2,	—	Revised Annex I, Reg. 31.2,		
		—	Revised Annex I, Reg. 31.3.	—	Revised Annex I, Reg. 31.3, Revised Annex I, Reg. 31.4.		
A.1/2.6	Sewage systems	—	Annex IV, Reg. 9.	—	Revised Annex IV, Reg. 9.	IMO Res. MEPC B2(VI).	B + D B + E G
A.1/2.7	Shipboard incinerators	—	Annex VI, Reg. 16(2) (a),	—	Annex VI, Reg. 16(2) (a), Annex VI, Reg.16.	IMO Res. MEPC B76(X0).	B + D B + E 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.	— — —	IMO Res. A.653(16), IMO Res. A.687(17),

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					MSC 36(63)- (1994 HSC Code) 7, IMO Res. MSC 97(73)- (2000 HSC Code) 7.	IMO Res. MSC 61(67)- (FTP Code), IMO MSC/ Circ. 916, IMO MSC/ Circ. 1004.	
A.1/3.2	Portable fire extinguishers	—	Reg. II-2/10, — Reg. X/3, — IMO Res. MSC 98(73)- (FSS Code) 4.	—	Reg. II-2/10, — 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.	EN B + D 3-3 B + E (1994) B + F EN 3-6 (1995) including A.1 (1999), EN 3-7 (2004).	
A.1/3.3	Fire-fighter's outfit: protective clothing (close proximity clothing)	—	Reg. II-2/10, — Reg. X/3, — IMO Res. MSC 98(73)- (FSS Code) 3.	—	Reg. II-2/10, — IMO Res. MSC 36(63)- (1994 HSC Code) 7, IMO Res. MSC 98(73)- (FSS Code) 3.	EN B + D 469 B + E (2006) B + F EN 531 (1995), EN 531/ A1 (1998),	

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					MSC 97(73)- (2000 HSC Code) 7, IMO Res. MSC 98(73)- (FSS Code) 3.	EN 1486 (1996). Or, ISO 15538 (2001).	
A.1/3.4	Fire-fighter's outfit: boots	— — —	Reg. II-2/10, Reg. X/3, IMO Res. MSC 98(73)- (FSS Code) 3.	— — —	Reg. II-2/10, IMO Res. MSC 36(63)- (1994 HSC Code) 7, IMO Res. MSC 97(73)- (2000 HSC Code) 7, IMO Res. MSC 98(73)- (FSS Code) 3.	EN ISO 20344 (2004), EN ISO 20345 (2004).	B + D B + E B + F
A.1/3.5	Fire-fighter's outfit: gloves	— — —	Reg. II-2/10, Reg. X/3, IMO Res. MSC 98(73)- (FSS Code) 3.	— — —	Reg. II-2/10, IMO Res. MSC 36(63)- (1994 HSC Code) 7, IMO Res. MSC 97(73)- (2000 HSC Code) 7, IMO Res. MSC 98(73)-	EN 659 (2003) EN 60903 (2002) (for conductivity only).	B + D B + E B + F

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	smoke helmet or smoke mask Note: For use in accidents involving dangerous goods a positive pressure type mask is required.	included in new Chapter II-2 Regulations [IMO Res. MSC.99(73)] or FSS Code [IMO Res. MSC.98(73)].	—	HSC Code) 7, IMO Res. MSC.97(73)- (2000 HSC Code) 7.	—	EN 14593-2 (2005), EN 14594 (2005).	
A.1/3.9	Sprinkler systems components for accommodation spaces, service spaces and control stations equivalent to that referred to in SOLAS 74 Reg. II-2/12 (limited to nozzles and their performance).	— 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 F G	
A.1/3.10	Nozzles for fixed pressure water spraying fire extinguishing systems for machinery spaces	Moved to A.2/3.11					
A.1/3.11	‘A’ & ‘B’ Class divisions fire integrity — ‘A’ class divisions, — ‘B’ class divisions.	‘A’ Class: — Reg. II-2/3.2. ‘B’ Class: — Reg. II-2/3.4.	—	Reg. II-2/9, and, Reg. II-2/3.2. — Reg. II-2/3.4.	—	IMO Res. MSC.61(67)- (FTP Code), IMO MSC/ Circ.1120.	B + D B + E B + F
A.1/3.12	Devices to prevent the passage of	— Reg. II-2/4,	—	Reg. II-2/4,	—	EN 12874 (2001),	B + F

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	flame into the cargo tanks in tankers	—	Reg. II-2/16.	—	Reg. II-2/16.	—	ISO 15364 (2000), IMO MSC/Circ.677, IMO MSC/Circ.1009.
A.1/3.13	Non-combustible materials	—	Reg. II-2/3, Reg. X/3.	—	Reg. II-2/3, Reg. II-2/5, IMO Res. MSC.36(63)- (1994 HSC Code) 7, IMO Res. MSC.97(73)- (2000 HSC Code) 7.	—	IMO B + D Res. B + E MSC.61(67)- (FTP Code), IMO MSC/Circ.1120.
A.1/3.14	Materials other than steel for pipes penetrating 'A' or 'B' Class division	—	Reg. II-2/9.	—	Reg. II-2/9.	—	IMO B + D Res. B + E A.754(8)F IMO Res. MSC.61(67)- (FTP Code), IMO MSC/Circ.1120.
A.1/3.15	Materials other than steel for pipes conveying oil or fuel oil — pipes and fittings, — valves, — flexible pipe assemblies.	—	Reg. II-2/4, Reg. X/3.	—	Reg. II-2/4, IMO Res. MSC.36(63)- (1994 HSC Code) 7, IMO Res. MSC.97(73)-	—	IMO B + D Res. B + E A.753(8)F ISO 15540 (1999), ISO 15541 (1999).

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				(2000 HSC Code) 7, 10.			
A.1/3.16	Fire Doors	—	Reg. II-2/9.	—	Reg. II-2/9.	—	IMO B + D Res. B + E MSC 61 (6F)- (FTP G Code), IMO MSC/ Circ.1120.
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 B + D Res. B + E MSC 61 (6F)- (FTP Code).
A.1/3.18	Surface materials and floor coverings with low flame-spread characteristics — decorative veneers— — paint systems, — floor coverings,	— — — — — —	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 B + D Res. B + E MSC 61 (6F)- (FTP Code), IMO MSC/ Circ.916, IMO MSC/ Circ.1004, IMO MSC/ Circ.1036,

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	— pipe insulation covers, adhesives used in the construction of 'B' & 'C' class divisions, combustible ducts.	—	IMO Res. MSC.97(73)- (2000 HSC Code) 7.	—	IMO MSC/ Circ.1120, ISO 1716 (2002). Note: Where the surface material is required to have a certain maximum calorific value, this shall be measured in accordance with ISO 1716.	
A.1/3.19	Draperies, curtains and other suspended textile materials and films (The designation is with regard to SOLAS requirements).	— Reg. II-2/3, — Reg. II-2/9, — Reg. X/3.	— Reg. II-2/3, — Reg. II-2/9, — IMO Res. MSC.36(63)- (1994 HSC Code) 7, — IMO Res. MSC.97(73)- (2000 HSC Code) 7.	—	IMO Res. B + D MSC.61(6F)- (FTP Code).	
A.1/3.20	Upholstered furniture (The designation is with regard to SOLAS requirements).	— 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.	—	IMO Res. B + D MSC.61(6F)- (FTP Code).	

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					MSC.97(73)- (2000 HSC Code) 7.		
A.1/3.21	Bedding components (The designation is with regard to SOLAS requirements).	—	Reg. II-2/3, — Reg. II-2/9, — Reg. X/3.	—	Reg. II-2/3, — Reg. II-2/9, — IMO Res. MSC.36(63)- (1994 HSC Code) 7, — IMO Res. MSC.97(73)- (2000 HSC Code) 7.	—	IMO Res. B + D B + E MSC.61(67)- (FTP Code).
A.1/3.22	Fire dampers	—	Reg. II-2/9.	—	Reg. II-2/9.	—	IMO Res. B + D B + E MSC.61(67)- (FTP Code), — IMO MSC/ Circ.1120.
A.1/3.23	Non-combustible duct penetrations through 'A' class divisions	Moved to A.1/3.26					
A.1/3.24	Electric Cable Transits through 'A' class divisions	Moved to A.1/3.26					
A.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 Res. B + D B + E MSC.61(67)- (FTP Code),

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				—	IMO MSC/ Circ.1120.	—	IMO MSC/ Circ.1004, IMO MSC/ Circ.1036, IMO MSC/ Circ.1120.
A.1/3.26	Penetrations through 'A' class divisions — electric cable transits, — pipe, duct, trunk, etc penetrations.	—	Reg. II-2/9.	—	Reg. II-2/9.	—	IMO B + D Res. B + E MSC 61 (6F)- (FTP Code), IMO MSC/ Circ.1120.
A.1/3.27	Penetrations through 'B' class — electric cable transits, — pipe, duct, trunk, etc penetrations.	—	Reg. II-2/9.	—	Reg. II-2/9.	—	IMO B + D Res. B + E MSC 61 (6F)- (FTP Code), IMO MSC/ Circ.1120.
A.1/3.28	Sprinkler systems (limited to sprinkler heads)	— — —	Reg. II-2/7, Reg. II-2/10, IMO Res. MSC.98(73)- (FSS Code) 8.	—	Reg. II-2/10, IMO Res. MSC.98(73)- (FSS Code) 8.	—	ISO B + D 6182- B + E (2004) B + F Or, EN 12259-1 (1999).
A.1/3.29	Fire hoses	— —	Reg. II-2/10, Reg. X/3.	—	Reg. II-2/10, IMO Res. MSC.36(63)- (1994 HSC Code) 7,	—	EN B + D 14540 B + E (2004) B + F

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				—	IMO Res. MSC.97(73)-(2000 HSC Code) 7.		
A.1/3.30	Portable oxygen analysis and gas detection equipment	—	Reg. II-2/4, Reg. VI/3.	—	Reg. II-2/4, IMO Res. MSC.98(73)-(FSS Code) 15.	—	EN B + D 60945B + E (2002)B + F IEC 60092-504 (2001), IEC 60533 (1999), and as applicable to: a) Category 1: (safe area): — EN 50104 (2002) including Amd. 2004 Oxygen, EN 61779-1 (2000), — EN 61779-4 (2000). b) Category 2: (explosive gas atmospheres): — EN 50104 (2002) including Amd. 2004 Oxygen, EN 61779-1 (2000),

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						—	EN 61779-4 (2000), IEC 60079-0 (2004), IEC 60079-1 (2003), IEC 60079-10 (2002), IEC 60079-11 (2006), IEC 60079-15 (2005), IEC 60079-26 (2006).
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.41(65). B + D B + E 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	—	IMO Res. MSC.61(67)-(FTP Code). B + D B + E

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				Code) 7.			
A.1/3.33	Fire restricting materials for furniture for high speed craft	—	Reg. X/3.	—	IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7.	—	IMO Res. MSC.61(67)-(FTP Code). B + D B + E B1 (6F)
A.1/3.34	Fire resisting divisions for high speed craft	—	Reg. X/3.	—	IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7.	—	IMO Res. MSC.61(67)-(FTP Code). B + D B + E B1 (6F)
A.1/3.35	Fire doors on high speed craft	—	Reg. X/3.	—	IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7.	—	IMO Res. A.754(18)F IMO Res. MSC.61(67)-(FTP Code). B + D B + E B1 (8)
A.1/3.36	Fire dampers on high speed craft	—	Reg. X/3.	—	IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7.	—	IMO Res. A.754(18)F IMO Res. MSC.61(67)-(FTP Code). B + D B + E B1 (8)

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				—	IMO Res. MSC.97(73)-(2000 HSC Code) 7.	(FTP Code).	
A.1/3.37	Penetrations through fire resisting divisions on high speed craft — electric cable transits, — 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. A.754(B8)F IMO Res. MSC.61(67)-(FTP Code).	B + D B + E
A.1/3.38	Portable fire-extinguishing equipment for lifeboats and rescue boats	—	Reg. III/4, Reg. X/3.	—	Reg. III/34, IMO Res. A.951(23), IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IV, V, IMO Res. MSC.97(73)-(2000 HSC Code) 8.	EN 3-3 (1994), EN 3-6 (1995), EN 3-6 A1 (1999), EN 3-7 (2004).	B + D B + E B + F
A.1/3.39	Nozzles for equivalent water	—	Reg. II-2/10.	—	Reg. II-2/10,	IMO MSC/Circ.165.F	B + D B + E B + F

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	based fire extinguishing systems for machinery spaces of category 'A' and cargo pump rooms			—	IMO Res. MSC.98(73)-(FSS Code) 7.		
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 F G
A.1/3.41	Emergency escape breathing devices (EEBD)	—	Reg. II-2/13.	—	Reg. II-2/13.3.4, Reg. II-2/13.4.3, IMO Res. MSC.98(73)-(FSS Code) 3, IMO MSC/Circ.849.	—	EN 402(2003), EN 1146(2005), EN 13794(2002). B + D E B + F (2005), (2002).
A.1/3.42	Inert gas systems components	—	Reg. II-2/4.	—	Reg. II-2/4, IMO Res. A.567(14), IMO Res. MSC.98(73)-(FSS Code) 15, IMO MSC/Circ.847 Corr.1, IMO MSC/Circ.1120.	—	IMO MSC/Circ.333, IMO MSC/Circ.450 Rev.1, IMO MSC/Circ.485. B + D B + E F G
A.1/3.43	Nozzles for deep fat cooking equipment	—	Reg. II-2/1, Reg. II-2/10,	—	Reg. II-2/1.2.2.3, Reg. II-2/10.6.4,	—	ISO 15371 (2000) B + D B + E B + F G

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	fire extinguishing systems (automatic or manual type)	—	Reg. X/3.	—	IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7.		
A.1/3.44	Fire-fighters outfit-lifeline	— — —	Reg. II-2/10, Reg. X/3, IMO Res. MSC.98(73)-(FSS Code) 3.	— — —	Reg. II-2/10, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7, IMO Res. MSC.98(73)-(FSS Code) 3.	— — —	IMO Res. B + D MSC.61(6F)- (FTP Code), IMO Res. MSC.98(73)-(FSS Code).
A.1/3.45	Equivalent fixed gas fire extinguishing systems components (extinguishing medium, head valves and nozzles) for machinery spaces and cargo pump rooms	— — —	Reg. II-2/10, Reg. X/3, IMO Res. MSC.98(73)-(FSS Code) 5.	— — —	Reg. II-2/10, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7,	— — —	IMO Res. B + D MSC/B + E Circ. 848 + F

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			—	IMO Res. MSC.98(73)-(FSS Code) 5, IMO MSC/Circ.848.			
A.1/3.46	Equivalent fixed gas fire extinguishing systems for machinery spaces (aerosol systems)	—	Reg. II-2/10, Reg. X/3, IMO Res. MSC.98(73)-(FSS Code) 5, IMO MSC/Circ.1007.	—	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.1007.	—	IMO B + D MSC/B + E Circ.1007.F
A.1/3.47	Concentrate for Fixed High Expansion Foam Fire Extinguishing Systems for Machinery Spaces and Cargo Pump Rooms Note: The fixed high expansion foam fire extinguishing system for machinery	—	Reg. II-2/10.	—	Reg. II-2/10, IMO Res. MSC.98(73)-(FSS Code) 6.	—	IMO B + D MSC/B + E Circ.670+ F G

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	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-2/1, — 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.	IMO B + D MSC/B + E Circ.93+ F
A.1/3.49	Nozzles for fixed pressure water-spraying fire-extinguishing systems for special category spaces, ro-ro cargo spaces, ro-ro spaces and vehicle spaces	Moved to A.2/3.2				
A.1/3.50	Protective clothing resistant to chemical attack	Moved to A.2/3.9				
A.1/3.51 Ex A.2/3.5 Ex A.2/3.6 Ex A.2/3.7	Fixed fire detection and fire alarm systems	—	Reg. II-2/7, — Reg. X/3,	—	Reg. II-2/7, — Reg. II-2/7, — Reg. II-2/7.	Control and heating equipment. Electrical B + D B + E B + F

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Ex A.2/3.16	components for control stations, service spaces, accommodation spaces, machinery spaces and unattended machinery spaces	—	IMO	—	Reg.	installations
Ex A.2/3.17			Res.	—	II	in ships:
			MSC 98(73)-		2/7.4.1	EN
			(FSS	—	IMO	54-2
			Code)		Res.	(1997)
			9.		MSC 36(63)-	including
					(1994	AC(1999)
					HSC	and
					Code)	A1(2006).
					7,	Power supply
				—	IMO	equipment:
					Res.	EN
					MSC 97(73)-	54-4
					(2000	(1997)
					HSC	including
					Code)	AC(1999),
					7,	A1(2002)
				—	IMO	and
					Res.	A2(2006).
					MSC 98(73)-	
					(FSS	detectors —
					Code)	Point
					9.	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)

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						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).
A.1/3.52 Ex A.2/3.1	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)-(2000 HSC Code) 7, IMO Res. MSC 98(73)-(FSS Code) 4.	EN 1866 (1998) Or, ISO 11601 (1999). B + D B + E B + F
A.1/3.53 Ex A.2/3.18	Alarm devices	— —	Reg. II-2/7, Reg. X/3,	— —	Reg. II-2/7, IMO Res. MSC 36(63)-	Sounders — EN 54-3 (2001) including

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		—	IMO Res. MSC.98(73)-(FSS Code) 9.	(1994 HSC Code) 7, — IMO Res. MSC.97(73)-(2000 HSC Code) 7, — IMO Res. MSC.98(73)-(FSS Code) 9.	A1(2002) and A2(2006), IEC 60092-504 (2001) IEC 60533 (1999).
A.1/3.54 (New item)	Fixed oxygen analysis and gas detection equipment	—	Reg. VI/3.	Reg. II-2/4, IMO Res. MSC.98(73)-(FSS Code) 15.	EN B + D 60945B + E (2002) B + F IEC 60092-504 (2001), IEC 60533 (1999), and as applicable to: a) Category 4: (safe area): — EN 50104 (2002) including AMD 2004 Oxygen, EN 61779-1 (2000), — EN 61779-4 (2000). b) Category 3: (explosive gas atmospheres): — EN 50104

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					(2002) including AMD 2004 Oxygen, EN 61779-11 (2000).
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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.

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.	—	B + D B + E B + F G
			—	Reg. V/19,	EN ISO 449
			—	IMO Res. A.382(X),	EN ISO 694
			—	IMO Res. A.694(17).	(2001),
				—	ISO 1069 (1973),
				—	ISO 2269 (1992),
				—	EN 60945 (2002).
				—	Or, ISO 449 (1997),

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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.

						—	ISO 694 (2000), — ISO 1069 (1973), — ISO 2269 (1992), — IEC 60945 (2002).
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 60945B + E (2002)B + F EN 61162 series, ISO 22090-2 (2004), including Corrigendum 2005. Or, IEC 60945 (2002), IEC 61162 series, ISO 22090-2 (2004), including Corrigendum 2005.
A.1/4.3	Gyro compass	—	Reg. V/18.	— — —	Reg. V/19, IMO Res. A.424(XI), IMO Res. A.694(17).	— — —	EN 8728 (1998)G EN 60945 (2002), EN 61162 series.

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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.

						—	Or, ISO 8728 (1997), — IEC 60945 (2002), — IEC 61162 series.
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. V/19,	—	EN B + D ISO B + E 9875 B + F (2001) G EN 60945 (2002), EN 61162 series. Or, ISO 9875 (2000), IEC 60945 (2002), IEC 61162 series.
		—	Reg. X/3,	—	IMO Res. A.224(VII),	—	
		—	IMO Res. MSC.36(63)-(1994 HSC Code) 13,	—	IMO Res. A.694(17),	—	
		—	IMO Res. MSC.97(73)-(2000 HSC Code) 13.	—	IMO Res. MSC.36(63)-(1994 HSC Code) 13,	—	
		—		—	IMO Res. MSC.97(73)-(2000 HSC Code) 13.	—	
A.1/4.7	Speed and distance measuring equipment (SDME)	—	Reg. V/18,	—	Reg. V/19,	—	EN B + D 60945 B + E (2002) B + F EN G 61023 (1999), EN 61162 series.
		—	Reg. X/3,	—	IMO Res. A.694(17),	—	
		—	IMO Res. MSC.36(63)-(1994 HSC	—	IMO Res. A.824(19),	—	

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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.

		—	Code) 13, IMO Res. MSC.97(73)- (2000 HSC Code) 13.	—	IMO Res. — MSC.36(63)- (1994 HSC — Code) 13, IMO — Res. — MSC.97(73)- (2000 HSC Code) 13.	—	Or, IEC 60945 (2002), IEC 61023 (1999), IEC 61162 series.	
A.1/4.8	Rudder angle, rpm, pitch indicator	Moved to A.1/4.20, A.1/4.21 and A.1/4.22						
A.1/4.9	Rate-of-turn indicator	Moved to A.2/4.26						
A.1/4.10	Direction finder	Item deleted						
A.1/4.11	Loran-C equipment	—	Reg. V/18,	—	Reg. V/19,	—	EN 60945 (2002), EN G 61075 (1993), EN 61162 series. Or, IEC 60945 (2002), IEC 61075 (1991), IEC 61162 series.	B + D B + E B + F G
		—	Reg. X/3,	—	IMO Res. — A.694(17), IMO Res. — MSC.36(63)- (1994 HSC — Code) 13,	—	EN 60945 (2002), IEC 61075 (1991), IEC 61162 series.	
		—	IMO Res. — MSC.97(73)- (2000 HSC Code) 13.	—	IMO Res. — MSC.36(63)- (1994 HSC Code) 13, IMO — Res. — MSC.97(73)- (2000 HSC Code) 13.	—	EN 60945 (2002), IEC 61075 (1991), IEC 61162 series.	
A.1/4.12	Chayka equipment	—	Reg. V/18,	—	Reg. V/19,	—	EN 60945 (2002), B + F	B + D B + E B + F

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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.

		—	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.818 (19), IMO Res. MSC.36(63)- (1994 HSC Code) 13, IMO Res. MSC.97(73)- (2000 HSC Code) 13.	—	EN 61075 (1993), EN 61162 series. Or, IEC 60945 (2002), IEC 61075 (1991), IEC 61162 series.	G		
A.1/4.13	Decca navigator equipment	Item deleted												
A.1/4.14	GPS equipment	—	Reg. V/18,	—	Reg. V/18,	—	Reg. V/19,	—	IMO Res. A.694(17), IMO Res. A.819(19), IMO Res. MSC.36(63)- (1994 HSC Code) 13,	—	IMO Res. A.694(17), IMO Res. A.819(19), IMO Res. MSC.36(63)- (1994 HSC Code) 13, IMO Res. MSC.97(73)- (2000 HSC Code) 13.	—	EN 60945B + E (2002), EN 61108-1 (2003), EN 61162 series. Or, IEC 60945 (2002), IEC 61108-1 (2003), IEC 61162 series.	B + D B + E B + F G

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A.1/4.17	Mechanical pilot hoist	Moved to A.1/1.40						
A.1/4.18	9 GHz SAR transponder (SART)	—	Reg. III/4,	—	Reg. III/6,	—	EN 60945	B + D
		—	Reg. IV/14,	—	Reg. IV/7,	—	(2002) EN 61097-1	B + F
		—	Reg. V/18,	—	IMO Res. A.530(13),	—	(1993).	G
		—	Reg. X/3,	—	IMO Res. A.802(19),	—	Or, IEC 60945	
		—	IMO Res. MSC.36(63)- (1994)	—	IMO Res. A.694(17),	—	(2002), IEC 61097-1	
		—	HSC Code) 13,	—	IMO Res. MSC.36(63)- (1994)	—	(1992).	
		—	IMO Res. MSC.97(73)- (2000)	—	HSC Code) 8,	—		
		—	HSC Code) 13.	—	14,	—		
		—		—	IMO Res. MSC.97(73)- (2000)	—		
		—		—	HSC Code) 8,	—		
		—		—	14,	—		
		—		—	ITU-R M.628-3(11/93).	—		
A.1/4.19	Radar equipment for high-speed craft	Moved to A.1/4.37						
A.1/4.20	Rudder angle indicator	Moved to A.2/4.27						
A.1/4.21	Propeller revolution indicator	Moved to A.2/4.28						
A.1/4.22	Pitch indicator	Moved to A.2/4.29						

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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.

A.1/4.23	Compass for lifeboats and rescue boats	— Reg. III/4, X/3, IMO Res. MSC.36(63)- (1994 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, —	— Reg. III/34, IMO Res. MSC.48(66)- (LSA Code) IV, V, — IMO Res. MSC.36(63)- (1994 HSC Code) 8, 13, —	EN ISO 613 (2001)G ISO 10316 (1990). Or, ISO 613 (2000), ISO 10316 (1990).	B + D B + E B + F
A.1/4.24	Automatic radar plotting aid (ARPA) for high-speed craft	Moved to A.1/4.37				
A.1/4.25	Automatic tracking aid (ATA)	Moved to A.1/4.35				
A.1/4.26	Automatic tracking aid (ATA) for high speed craft	Moved to A.1/4.38				
A.1/4.27	Electronic plotting aid (EPA)	Moved to A.1/4.36				
A.1/4.28	Integrated bridge system	Moved to A.2/4.30				

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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.

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.	— — — — — — —	EN 60945 (2002), EN 61162 Series, EN 61996 (2001). Or, IEC 60945 (2002), IEC 61162 Series, IEC 61996 (2000). EN 61162 Series, IEC 61996 (2000).	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.97(73)-(2000 HSC Code) 13.	— — — — — — —	EN 60945 (2002), EN 61162 Series, EN 61174 (2001-12). Or, IEC 60945 (2002), IEC 61162 Series, IEC 61174 (2001-10).	B + D B + E B + F G

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Notes applicable to section 4: Navigation equipment.

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				[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].				
A.1/4.31	Gyro compass for high-speed craft	—	Reg. X/3, — IMO Res. MSC36(63)-(1994 HSC Code) 13, — IMO Res. MSC97(73)-(2000 HSC Code) 13.	—	IMO Res. A.694(17), — IMO Res. A.821(19), — IMO Res. MSC36(63)-(1994 HSC Code) 13, — IMO Res. MSC97(73)-(2000 HSC Code) 13.	—	ISO 16328 (2001), EN 60945 (2002), EN 61162 Series. Or, ISO 16328 (2001), IEC 60945 (2002), EN 61162 Series.	B + D B + E B + F G
A.1/4.32	Universal automatic identification system equipment (AIS)	—	Reg. V/18, — Reg. X/3, — IMO Res. MSC36(63)-(1994 HSC Code) 13, — IMO Res.	—	Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC36(63)-(1994 HSC Code) 13,	—	EN 60945 (2002), EN 61162 Series, EN 61993-2 (2001). Or, IEC 60945 (2002),	B + D B + E B + F G

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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.

			MSC.97(73)- (2000 HSC Code) 13.	—	IMO Res. MSC.74(69), IMO Res. MSC.97(73)- (2000 HSC Code) 13, ITU- R M. 1371-1(10/00).	—	IEC 61162 Series, IEC 61993-2 (2001).	
					Note: ITU-R M. 1371-1(10/00) Annex 3 shall only be applicable in accordance with requirements of IMO Res. MSC.74(69).			
A.1/4.33	Track control system (working at ship's speed from minimum manoeuvring speed up to 30 knots)	—	Reg. V/18, Reg. X/3.	—	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 with	—	Reg. V/18.	—	Reg. V/19.	—	EN 60872 (1998)	B + D B + E B + F

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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.

	automatic radar plotting aid (ARPA)			—	IMO Res. A.278(VIII),	—	EN 60936-1 (2000),	G
				—	IMO Res. A.694(17),	—	EN 60936-1 A1 (2002),	
				—	IMO Res. A.823(19),	—	EN 60945 (2002),	
				—	IMO Res. MSC.64(67),	—	EN 61162 Series.	
				—	ITU-R M.628-3(11/93),	—	Or, IEC 60872-1 (1998),	
				—	ITU-R M.1177-3(06/03).	—	IEC 60936-1 Ed.1.1 (2002),	
						—	IEC 60945 (2002),	
						—	IEC 61162 Series.	
A.1/4.35	Radar equipment with automatic tracking aid (ATA)	—	Reg. V/18.	—	Reg. V/19,	—	EN 60872-2 (1999),	B + D B + E B + F
				—	IMO Res. A.278(VIII),	—	EN 60936-1 (2000),	G
				—	IMO Res. A.694(17),	—	EN 60936-1 A1 (2002),	
				—	MSC.64(67),	—	EN 60945 (2002),	
				—	ITU-R M.628-3(11/93),	—	EN 61162 Series.	
				—	ITU-R M.1177-3(06/03).	—	Or, IEC 60872-2 (1998),	

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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.

					—	IEC 60936-1 Ed.1.1 (2002), — IEC 60945 (2002), — IEC 61162 Series.
A.1/4.36	Radar equipment with electronic plotting aid (EPA)	—	Reg. V/18.	—	Reg. V/19, — IMO Res. A.278(VIII), — IMO Res. A.694(17), — IMO Res. MSC.64(67), — ITU- R M. 628-3(11/93), — ITU- R M. 1177-3(06/03).	— EN B + D 60872-3 (2001) B + E EN G 60936-1 (2000), EN 60936-1 A1 (2002), EN 60945 (2002), EN 61162 Series. Or, IEC 60872-3 (2000), — IEC 60936-1 Ed.1.1 (2002), — IEC 60945 (2002), — IEC 61162 Series.
A.1/4.37	Radar equipment with automatic radar plotting aid (ARPA)	—	Reg. X/3, — IMO Res. MSC.36(63)- (1994) HSC	—	IMO Res. A.278(VIII), — IMO Res. A.694(17),	— EN B + D 60872-3 (1998) B + E EN G 60936-2 (1999),

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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.

	for high speed craft	—	Code) — 13, IMO Res. — MSC 97(73)- (2000 HSC Code) 13.	—	IMO — Res. — IMO — Res. — MSC 36(63)- (1994 HSC — Code) 13, IMO — Res. — MSC 64(67), IMO — Res. — MSC 97(73)- (2000 — HSC Code) 13, ITU- R M. 628-3(11/93), ITU- R M. 1177-3(06/03).	EN 60945 (2002), EN 61162 Series. Or, IEC 60872-1 (1998), IEC 60936-2 (1998), IEC 60945 (2002), IEC 61162 Series.	
A.1/4.38	Radar equipment with automatic tracking aid (ATA) 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. — 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 64(67),	EN B + D 60872-2 + E (1999) B + F EN G 60936-2 (1999), EN 60945 (2002), EN 61162 Series. Or, IEC 60872-2 (1998), IEC 60936-2 (1998),	

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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.

				—	IMO Res. MSC.97(73)-(2000 HSC Code) 13, ITU-R M.628-3(11/93), ITU-R M.1177-3(06/03).	—	IEC 60945 (2002), IEC 61162 Series.	
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) G, EN 60945 (2002). Or, ISO 8729 (1997), IEC 60945 (2002).	B + D B + E B + F
A.1/4.40 Ex A.2/4.2	Heading control system for high speed craft (formerly auto-pilot)	—	Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000	—	IMO Res. A.694(17), IMO Res. A.822(19), IMO Res. MSC.36(63)-(1994 HSC Code) 13,	—	ISO 16329 (2003), EN 60945 (2002), EN 61162 series. Or, ISO 16329 (2003),	B + D B + E B + F G

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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.

			HSC Code) 13.	—	IMO Res. MSC.97(73)-(2000) HSC Code) 13.	—	IEC 60945 (2002), IEC 61162 series.	
A.1/4.41 Ex A.2/4.3	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).	—	ISO 22090-3 (2004), EN 60945 (2002), EN 61162 series. Or, ISO 22090-3 (2004), IEC 60945 (2002), IEC 61162 series.	B + D B + E B + F G
A.1/4.42 Ex A.2/4.5	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

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A.1/4.43 Ex A.2/4.6	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, DGLONASS Equipment	—	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13.	—	Reg. V/19, IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC Code) 13, IMO Res. MSC.97(73)-(2000 HSC Code) 13, IMO Res. MSC.44(73).	—	EN 60945 (2002), EN 61108-1 (2003), EN 61108-2 (1998), IEC 61108-4 (2004), EN 61162 series. Or, IEC 60945 (2002), IEC 61108-1 (2002), IEC 61108-2 (1998), IEC 61108-4 (2004),	B + D B + E B + F G

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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.

					—	IEC 61162 series.	
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.97(73)- (2000 HSC Code) 13.	—	EN B + D 60936 (2002) B + F EN G 60945 (2002), EN 61162 series. Or, IEC 60936-3 (2002), IEC 60945 (2002), IEC 61162 series.
A.1/4.46 Ex A.2/4.22	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.	—	ISO B + D 22090 (2002) B + F EN G 60945 (2002), EN 61162 series. Or, ISO 22090-1 (2002), IEC 60945 (2002), IEC 61162 series.

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				Code) 13, IMO Res. MSC.116(73).		
A.1./4.47 (New item)	Simplified voyage data recorder (S- VDR)	—	Reg. V/20.	— Reg. V/20, IMO Res. A.694(17), IMO Res. MSC.163(78).	— EN 60945 (2002), EN 61162 series, IEC 61996-2 (2006). Or, IEC 60945 (2002), IEC 61162 series, IEC 61996-2 (2006).	B + D (2002), B + F

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.

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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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.

A.1/5.1	VHF radio capable of transmitting and receiving DSC and radiotelephony	—	Reg. IV/14,	—	Reg. IV/7,	—	ETSI B + D
		—	Reg. X/3,	—	Reg. X/3,	—	ETS B + E
		—	IMO Res. MSC.36(63)- (1994 HSC Code) 14,	—	IMO Res. A.524(13),	—	300 B + F
		—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.694(17),	—	162-1 G
		—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	V1.4.1
		—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	(2005-05),
		—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	ETSI
		—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	EN
		—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	300338
		—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	V1.2.1
		—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	(1999-04),
		—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	ETSI
		—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	EN
		—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	300828
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	V1.1.1		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	(1998-03),		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	ETSI		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	EN		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	301925		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	V1.1.1		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	(2002-09),		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	EN		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	60945		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	(2002),		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	IEC		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	61097-3		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	(1994),		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	IEC		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	61097-7		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	(1996),		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	EN		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	61162		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	series,		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	IMO		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	MSC/		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	Circ.862,		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	COMSAR		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	MSC/		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	Circ.862.		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	ITU-		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	R		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	M.489-2		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	(10/95),		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	ITU-		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	R		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	M.493-10		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	(05/00),		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	ITU-		
—	IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	IMO Res. A.803(19),	—	R		

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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.

					M.541-8 (10/97), ITU- R M.689-2 (11/93).		
A.1/5.2	VHF DSC watch- keeping receiver	—	Reg. IV/14, Reg. X/3, IMO Res. MSC36(63)- (1994) HSC Code) 14, IMO Res. MSC97(73)- (2000) HSC Code) 14.	—	Reg. IV/7, Reg. X/3, IMO Res. A.694(17), IMO Res. A.803(19), IMO Res. MSC36(63)- (1994) HSC Code) 14, IMO Res. MSC97(73)- (2000) HSC Code) 14, IMO COMSAR Circ.32, ITU- R M.489-2 (10/95), ITU- R M.493-10 (05/00), ITU- R M.541-8 (10/97).	—	ETSI B + D EN B + E 30033B + F V1.2.K (1999-04), ETSI EN 300828 V1.1.1 (1998-03), ETSI EN 301033 V1.2.1 (2005-05), EN 60945 (2002), IEC 61097-3 (1994), IEC 61097-8 (1998).

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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.

		—	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 COMSAR Circ.32.	—	A1 (1997-11), ETSI EN 300829 V1.1.1 (1998-03), EN 60945 (2002), IEC 61097-4 (1994).	
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)-	— — — —	ETSI B + D ETS B + E 30006 B + F Ed.1 G (1990-11), ETSI ETS 300 067/ A1 Ed.1 (1993-10), EN 60945 (2002), EN 61162 Series.	

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					(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).	
A.1/5.6	406 MHz EPIRB (COSPAS-SARSAT)	—	Reg. IV/14, Reg. X/3, IMO Res. MSC36(63)- (1994) HSC Code) 14, IMO Res. MSC97(73)- (2000) HSC Code) 14.	—	Reg. IV/7, Reg. X/3, IMO Res. A.662(46), IMO Res. A.694(47), IMO Res. A.696(47), IMO Res. A.810(40); IMO MSC/ Res. Circ.862 is applicable	ETSI EN 300063 V 1.3.1 (2001-01), EN 60945 (2002), IEC 61097-2 (2002), IMO MSC/ Circ.862.

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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.

	requirements for Two Tone Alarm generator and transmission on H3E are no longer applicable in the testing standards	—	Code) — 14, IMO Res. MSC 97(73)- (2000) HSC Code) 14.	—	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.493-10 (05/00), ITU-R M.541-8 (10/97).	V1.2.1 (2002-10), EN 60945 (2002), IEC 61097-3 (1994), IEC 61097-9 (1997), EN 61162 series, IMO MSC/ Circ.862.
A.1/5.11	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	ETSI B + D EN B + E 30033 B + F V1.2.1 G (1999-04), ETSI EN 301033 V1.2.1 (2005-05), EN 60945 (2002), IEC 61097-3 (1994),

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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.

				Code) — 14, IMO Res. MSC.97(73)- (2000 HSC Code) 14, IMO COMSAR Circ.32, ITU- R M.493-10 (05/00), ITU- R M.541-8 (10/97), ITU- R M.1173 (10/95).	IEC 61097-8 (1998).	
A.1/5.12	Inmarsat-B SES	— — — —	Reg. — IV/14, Reg. — X/3, IMO — Res. — MSC.36(63)- (1994 — HSC Code) 14, — IMO Res. — MSC.97(73)- (2000 HSC Code) 14. —	Reg. — IV/10, Reg. — X/3, — IMO Res. — A.570(44), IMO Res. — A.694(17), IMO Res. — A.808(19), IMO Res. — MSC.36(63)- (1994 HSC Code) 14, IMO Res. —	EN B + D 60945B + E (2002)B + F IEC G 61097-10 (1999), IMO MSC/ Circ 862.	

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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.

					MSC.97(73)- (2000 HSC Code) 14, IMO MSC/ Circ.862, IMO COMSAR Circ.32.		
A.1/5.13	Inmarsat-C SES	—	Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)- (1994 HSC Code) 14, — IMO Res. MSC.97(73)- (2000 HSC Code) 14.	—	Reg. IV/10, — Reg. X/3, — IMO Res. A.570(14), — IMO Res. A.664 (16), (applicable only if the Inmarsat C SES comprises EGC functions), — IMO Res. A.694(17), — IMO Res. A.807(19), — IMO Res. MSC.36(63)- (1994 HSC Code) 14,	—	ETSI B + D ETS B + E 30046 B + F Ed.1 G (1996-05), — ETSI ETS 300 460/ 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.

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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.

					(2000 HSC Code) 14, IMO COMSAR Circ.32, ITU-R M.493-10 (05/00), ITU-R M.541-8 (10/97).	
A.1/5.16	Aeronautical two way VHF radio telephone apparatus	—	Reg. IV/14, Reg. X/3, IMO Res. MSC36(63)-(1994 HSC Code) 14, IMO Res. MSC97(73)-(2000 HSC Code) 14.	—	Reg. IV/7, IMO Res. A.694(17), IMO Res. MSC36(63)-(1994 HSC Code) 14, IMO Res. MSC97(73)-(2000 HSC Code) 14, IMO Res. MSC80(70), IMO COMSAR Circ.32, ICAO Convention, Annex 10, Radio	ETSI B + D EN B + E 301688 + F V1.1.G (2000-07), EN 60945 (2002).

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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.

				- Regulations.		
A.1/5.17	Portable survival craft two-way VHF radiotelephone apparatus	—	Reg. IV/14,	—	Reg. III/6,	ETSI B + D
		—	Reg. X/3,	—	IMO 30022B + F	EN B + E
		—	IMO Res. MSC.36(63)-(1994 HSC Code) 14,	—	Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC Code) 8,	V1.4.G (2004-12), EN 300828 V1.1.1 (1998-03), EN 60945 (2002), IEC 61097-12 (1996).
		—	IMO Res. MSC.97(73)-(2000 HSC Code) 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).	
A.1/5.18	Fixed survival craft two-way VHF radiotelephone apparatus	—	Reg. IV/14,	—	Reg. III/6,	ETSI B + D
		—	Reg. X/3,	—	IMO 30146B + F	EN B + E
		—	IMO Res. MSC.36(63)-(1994 HSC Code) 14,	—	Res. A.694(17), IMO Res. A.809(19), IMO Res. MSC.36(63)-	V1.1.G (2000-11), EN 60945 (2002), IEC 61097-12 (1996).

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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.

		—	IMO Res. MSC.97(73)-(2000 HSC Code) 14.	—	(1994 HSC Code) 8, 14, IMO Res. MSC.97(73)-(2000 HSC Code) 8, 14, ITU-R M.489-2 (10/95).		
A1/5.19 Ex A.2/5.3	Inmarsat-F SES	—	Reg. IV/14,	—	Reg. IV/10,	—	EN B + D
		—	Reg. X/3,	—	IMO Res. A.570	—	60945B + E
		—	IMO Res. MSC.36(63)-(1994 HSC Code) 14,	—	IMO Res. A.808	—	(2002)B + F
		—	IMO Res. MSC.97(73)-(2000 HSC Code) 14.	—	IMO Res. A.694	—	IEC G
		—		—	IMO Res. MSC.36(63)-(1994 HSC Code) 14,	—	61097-13
		—		—	IMO Res. MSC.97(73)-(2000 HSC Code) 14,	—	(2003),
		—		—	IMO Res. MSC.97(73)-(2000 HSC Code) 14,	—	IMO MSC/Circ.862.

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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.

			—	IMO MSC/ Circ.862, — IMO COMSAR Circ.32.	
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6.

EQUIPMENT REQUIRED UNDER COLREG 72

No	Item designation	Regulation COLREG 72 where 'type approval' is required	Regulations of COLREG and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.1/6.1 Ex A.2/6.1	Navigation lights	—	COLREG Annex I/14. —	Annex I/14, IMO Res. A.694(17).	EN 14744 (2005) EN 60945 (2002). B + D B + E B + F G

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ANNEX A.2

EQUIPMENT FOR WHICH NO DETAILED TESTING STANDARDS EXIST IN INTERNATIONAL INSTRUMENTS

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	— —	Reg. III/4, Reg. III/34.	— IMO Res. MSC 48(66)-(LSA Code).	
A.2/1.3	Float-free launching appliances for survival craft	— —	Reg. III/4, Reg. III/34.	— Reg. III/13, Reg. III/16, Reg. III/26, Reg. III/34, IMO Res. MSC 36(63)-(1994 HSC Code) 8, IMO Res. MSC 48(66)-(LSA Code) I,	

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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, applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.2/2.1	On board NOx monitoring and recording devices	— Annex VI Reg. 13, NOx Technical Code.	— Annex VI Reg. 13, NOx Technical Code.		
A.2/2.2	On board exhaust gas cleaning systems	— Annex VI Reg. 13.3 (b) (i), Annex VI Reg. 14.4 (b).	— Annex VI Reg. 13.3 (b) (i), Annex VI Reg. 14.4 (b).	IMO Res. MEPC.130(55).	
A.2/2.3	Equivalent methods to reduce on board NOx emissions	— Annex VI Reg. 13.3 (b) (ii).	— Annex VI Reg. 13.3 (b) (ii).		
A.2/2.4	Other technological methods to limit SOx emissions	— Annex VI Reg. 14.4 (c).	— Annex VI Reg. 14.4 (c).		
A.2/2.5	Ballast water management systems			— IMO Res. MEPC.125(53), — IMO Res. MEPC.126(53).	

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			—	IMO Res. MSC.97(73)-(2000 HSC Code).	
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), IMO Res. MSC.97(73)-(2000 HSC Code).
A.2/3.5	Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, machinery spaces and unattended machinery spaces	Moved to A.1/3.51			
A.2/3.6	Smoke detectors	Moved to A.1/3.51			
A.2/3.7	Heat detectors	Moved to A.1/3.51			
A.2/3.8	Electric safety lamp	—	Reg. II-2/10, Reg. X/3, IMO Res. MSC.98(73)-(FSS Code)	—	Reg. II-2/10, IMO Res. MSC.36(63)-(1994 HSC Code), IMO Res. IEC Publication 79.

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					MSC 97(73)- (2000 HSC Code), IMO Res. MSC 98(73)- (FSS Code).	
A.2/3.9 Ex A.1/3.50	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)/ 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	—	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),	

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				—	IMO Res. MSC.98(73)-(FSS Code).		
A.2/3.12	Equivalent fixed gas fire extinguishing systems for machinery spaces and cargo pump rooms	Moved to A.1/3.45					
A.2/3.13	Compressed airline breathing apparatus (High Speed Craft)	—	Reg. II-2/10,	—	Reg. II-2/10,	—	EN 14593-1 (2005), EN 14593-2 (2005).
		—	Reg. X/3,	—	IMO Res. MSC.36(63)-(1994 HSC Code) 7,		
		—	IMO Res. MSC.98(73)-(FSS Code) 3.	—	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)	—	Reg. II-2/10,	—	Reg. II-2/10,	—	EN 671-1 (1994) + AC (1995).
		—	Reg. X/3.	—	IMO Res. MSC.36(63)-(1994 HSC Code),		
				—	IMO Res. MSC.97(73)-(2000 HSC Code).		
A.2/3.15	Sample extraction	—	Reg. II-2/7,	—	Reg. II-2/7,		

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	smoke detection systems components	—	Reg. II-2/19, Reg. II-2/20, IMO Res. MSC.98(73)-(FSS Code).	—	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 liquid lockers fire extinguishing systems components	—	Reg. II-2/10.	—	Reg. II-2/10, IMO Res. MSC.98(73)-(FSS Code).	IMO MSC/Circ.847.
A.2/3.22	Galley Exhaust Duct Fixed Fire Extinguishing Systems components	—	Reg. II-2/9.	—	Reg. II-2/9.	
A.2/3.23	Helicopter Deck Fire Extinguishing Systems components	—	Reg. II-2/18.	—	Reg. II-2/18.	
A.2/3.24	Portable Foam	—	Reg. II-2/10,	—	Reg. II-2/10,	

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	Applicator Units	—	Reg. II-2/20, Reg. X/3.	—	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).	
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), ISO 1716 (1973).
A.2/3.26	Gaseous Fuel Systems Used for Domestic Purposes (components)	—	Reg. II-2/4.	—	Reg. II-2/4.	
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-2/10, IMO Res. MSC.36(63)-(1994 HSC Code), IMO Res. MSC.97(73)-(2000	pr EN 12094 Parts 1-20.

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				—	HSC Code), IMO Res. MSC 98(73)-(FSS Code).		
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).	—	IMO MSC/Circ.798.
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).	—	IMO MSC/Circ.582 and Corrigendum 1.
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.
A2/3.31	Water Spraying Hand Operated System	—	Reg. II-2/10,	—	Reg. II-2/10, A800(19).		

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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.

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, — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code).	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.95(72), — IMO Res.	— EN 60945 (2002). Or, IEC 60945 (2002).	

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Notes applicable to section 4: Navigation equipment

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									MSC.97(73)- (2000 HSC Code).
A.2/4.5	Searchlight for high speed craft	Moved to A.1/4.42							
A.2/4.6	Night vision equipment for high speed craft	Moved to A.1/4.43							
A.2/4.7	Track control system	Moved to A.1/4.33							
A.2/4.8	Electronic Chart Display and Information System (ECDIS).	Moved to A.1/4.30							
A.2/4.9	Electronic Chart Display and Information System (ECDIS) backup	Moved to A.1/4.30							
A.2/4.10	Raster Chart Display System (RCDS)	Moved to A.1/4.30							
A.2/4.11	Combined GPS/GLONASS equipment	—	Reg. V/18,	—	Reg. V/19,	—	EN 60945		
		—	Reg. X/3,	—	IMO Res. A.694(17),	—	EN 61162		
		—	IMO Res. MSC.36(63)- (1994	—	IMO Res. MSC.36(63)- (1994	—	IEC 60945		
		—	HSC Code),	—	HSC Code),	—	IEC 61162		
		—	IMO Res. MSC.97(73)- (2000	—	IMO Res. MSC.74(69),	—	IEC series.		

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Notes applicable to section 4: Navigation equipment

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		HSC — Code).	IMO Res. MSC.97(73)- (2000 HSC Code).				
A.2/4.12	DGPS, DGLONASS equipment	Moved to A.1/4.44					
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	Moved to A.1/4.28					
A.2/4.17	Radar target enhancer	—	Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)- (1994	—	IMO Res. A.694(17), — ITU- R M 1176 (10/95).	—	EN 60945 (2002). Or, — IEC 60945 (2002).

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		—	HSC Code), IMO Res. MSC.97(73)-(2000 HSC Code).			
A.2/4.18	Sound reception system	— — — — —	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code), IMO Res. MSC.97(73)-(2000 HSC Code).	— — — — —	Reg. V/19, IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC Code), IMO Res. MSC.86(70), IMO Res. MSC.97(73)-(2000 HSC Code).	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), IMO Res. MSC.97(73)-(2000 HSC Code).	— — —	IMO Res. A.382(X), IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC Code), IMO Res. MSC.97(73)-(2000 HSC Code).	EN ISO 449 (1999), EN ISO 694 (2001), ISO 1069 (1973), ISO 2269 (1992), EN 60945 (2002). Or,

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Notes applicable to section 4: Navigation equipment

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					—	ISO 449 (1997), — ISO 694 (2000), — 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), IMO Res. MSC.97(73)- (2000 HSC Code).	— — —	IMO Res. A.694(17), IMO Res. MSC.36(63)- (1994 HSC Code), IMO Res. MSC.97(73)- (2000 HSC Code).	— — —	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 method)	Moved to A.1/4.46					
A.2/4.23	Transmitting heading device THD (Magnetic method)	Moved to A.1/4.2					
A.2/4.24	Thrust indicator	—	Reg. V/18,	—	Reg. V/19,		

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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.

		—	Reg. X/3, — IMO Res. MSC36(63)-(1994 HSC Code), — IMO Res. MSC97(73)-(2000 HSC Code).	—	IMO Res. A.694(17), — IMO Res. MSC36(63)-(1994 HSC Code), — IMO Res. MSC97(73)-(2000 HSC Code).		
A.2/4.25	Lateral thrust, pitch and mode indicators	—	Reg. V/18, — Reg. X/3, — IMO Res. MSC36(63)-(1994 HSC Code), — IMO Res. MSC97(73)-(2000 HSC Code).	—	Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC36(63)-(1994 HSC Code), — IMO Res. MSC97(73)-(2000 HSC Code).		
A.2/4.26 Ex A.1/4.9	Rate-of-turn indicator	—	Reg. V/18, — Reg. X/3, — IMO Res. MSC36(63)-(1994 HSC Code) 13, — IMO Res. MSC97(73)-(2000 HSC	—	Reg. V/19, — IMO Res. A.526(13), — IMO Res. A.694(17), — IMO Res. MSC36(63)-(1994 HSC Code) 13, — IMO Res. MSC97(73)-(2000 HSC	—	EN 60945 (2002), — EN 61162 series. Or, IEC 60945 (2002), — IEC 61162 series.

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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.

			Code) — 13.		IMO Res. MSC.97(73)- (2000 HSC Code) 13.	
A.2/4.27 Ex A.1/4.20	Rudder angle indicator	— — — —	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)- (1994 HSC Code) 13, IMO Res. MSC.97(73)- (2000 HSC Code) 13.	— — — —	Reg. V/19, IMO Res. A.694(17), IMO Res. MSC.36(63)- (1994 HSC Code) 13, IMO Res. MSC.97(73)- (2000 HSC Code) 13.	EN 60945 (2002). Or, IEC 60945 (2002).
A.2/4.28 Ex A.1/4.21	Propeller revolution indicator	—	Reg. V/18.	— —	Reg. V/19, IMO Res. A.694 (17).	EN 60945 (2002). Or, IEC 60945 (2002).
A.2/4.29 Ex A.1/4.22	Pitch indicator	—	Reg. V/18.	—	Reg. V/19, IMO Res. A.694 (17).	EN 60945 (2002). Or, IEC 60945 (2002).
A.2/4.30 Ex A.1/4.28	Integrated bridge system	— — —	Reg. V/18, Reg. X/3, IMO Res. MSC.36(63)-	— — —	Reg. V/19, IMO Res. A.694 (17),	EN 60945 (2002), EN 61162 Series,

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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.

			(1994 — HSC Code) 13, IMO Res. MSC 97(73)- (2000 — HSC Code) 13.	IMO — Res. MSC 36(63)- (1994 HSC Code) 15, IMO — Res. MSC 64(67), IMO — Res. MSC 97(73)- (2000 HSC Code) 15.	EN 61209 (1999). Or, IEC 60945 (2002), IEC 61162 Series, IEC 61209 (1999).	
A.2/4.31 (New item)	Bearing Device	—	Reg. V/18.	—	Reg. V/19.	EN 60945 (2002).
A.2/4.32 (New item)	Bridge Navigational Watch Alarm System (BNWAS)			—	IMO Res. A.694(17), IMO Res. MSC 128(75), IMO MSC/ Circ.982.	
A.2/4.33 (New item)	Track control system (working at ship's speed from 30 knots and above)	—	Reg. V/18, Reg. X/3.			EN 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	Testing standards	Modules for conformity assessment
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1	2	3	of the IMO, as applicable	4	5	6
A.2/5.1	VHF EPIRB	—	Reg. IV/14, —	—	Reg. IV/8, IMO Res. A.662(16), IMO Res. A.694(17), IMO Res. A.805(19), IMO Res. MSC.97(73)-(2000 HSC Code), —	EN 60945 (2002). Or, IEC 60945 (2002).
		—	Reg. X/3, —	—	IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC Code), —	
		—	IMO Res. MSC.36(63)-(1994 HSC Code), —	—	IMO Res. MSC.36(63)-(1994 HSC Code), ITU-R M.489-2 (10/95), ITU-R M.693 (06/90).	
A.2/5.2	Radio reserve source of energy	—	Reg. IV/14, —	—	Reg. IV/13, IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC Code), —	EN 60945 (2002). Or, IEC 60945 (2002).
		—	Reg. X/3, —	—	IMO Res. A.694(17), IMO Res. MSC.36(63)-(1994 HSC Code), —	
		—	IMO Res. MSC.36(63)-(1994 HSC Code), —	—	IMO Res. MSC.36(63)-(1994 HSC Code), ITU-R M.489-2 (10/95), ITU-R M.693 (06/90).	
		—	IMO Res. MSC.97(73)-(2000 HSC Code), —	—	IMO Res. MSC.97(73)-(2000 HSC Code),	

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			—	IMO COMSAR Circ.16,			
			—	IMO COMSAR Circ.32.			
A.2/5.3	Inmarsat-F SES	Moved to A.1/5.19					
A.2/5.4	Distress panel	—	Reg. IV/14,	—	Reg. IV/6,	EN 60945 (2002).	
		—	Reg. X/3,	—	IMO Res. A.694(17),	Or, IEC 60945 (2002).	
		—	IMO Res. MSC36(63)-(1994 HSC Code),	—	IMO Res. MSC36(63)-(1994 HSC Code),		
		—	IMO Res. MSC97(73)-(2000 HSC Code).	—	IMO Res. MSC97(73)-(2000 HSC Code),		
				—	IMO MSC/ Circ. 862,		
				—	IMO COMSAR Circ.32.		
A.2/5.5	Distress alarm or alert panel	—	Reg. IV/14,	—	Reg. IV/6,	EN 60945 (2002).	
		—	Reg. X/3,	—	IMO Res.A.694(17),	Or, IEC 60945 (2002).	
		—	IMO Res. MSC36(63)-(1994 HSC Code),	—	IMO Res. MSC36(63)-(1994 HSC Code),		
		—	IMO Res. MSC97(73)-(2000 HSC Code).	—	IMO Res. MSC97(73)-(2000 HSC Code),		
				—	IMO MSC/ Circ.862,		

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			—	IMO MSC/ Circ.1072.	
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6.

EQUIPMENT REQUIRED UNDER COLREG 72

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

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					COLREG 72 Annex III/2 (Performance).
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7.

BULK CARRIER SAFETY 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.2/7.1	Loading instrument	— —	Reg. XII/11, 1997 SOLAS Conference Res. 5.	Reg. XII/11, 1997 SOLAS Conference Res. 5.	
A.2/7.2 (New item)	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).

ANNEX B

Modules for conformity assessment

EC TYPE-EXAMINATION (MODULE B)

1. A notified body must ascertain and attest that a specimen, representative of the production envisaged, complies with the provisions of the international instruments that apply to it.
2. The application for the EC type-examination must be lodged by the manufacturer or his authorized representative established within the Community with a notified body of his choice.

The application must include:

- the name and address of the manufacturer and, if the application is lodged by the authorized representative, his name and address as well,
- a written declaration that the same application has not been lodged simultaneously with any other notified body,
- the technical documentation as described in point 3.

The applicant must place at the disposal of the notified body a specimen, representative of the production envisaged and hereinafter called 'type'⁽¹⁾. The notified body may request further specimens if needed for the test programme.

3. The technical documentation must make it possible to assess the product's compliance with the requirements of the relevant international instruments. It must, as far as is relevant for such assessment, cover the design, the building standard, manufacture, installation and functioning of the product in accordance with the description of technical documentation set down in the Appendix to this Annex.
4. The notified body must:
 - 4.1. examine the technical documentation and verify that the type has been manufactured in accordance with the technical documentation;
 - 4.2. perform the appropriate examinations and necessary tests or have them performed to check whether the requirements of the relevant international instruments have actually been met;
 - 4.3. agree with the applicant the location where the examinations and necessary tests will be carried out.
5. Where the type meets the provisions of the relevant international instruments, the notified body must issue an EC type-examination certificate to the applicant. The certificate must give the name and address of the manufacturer, details of the equipment, the conclusions of the examination, the conditions of its validity and the necessary data for identification of the approved type.

A list of the relevant parts of the technical documentation must be annexed to the certificate and a copy kept by the notified body.

If a manufacturer is refused a type-certification, the notified body must give detailed reasons for that refusal.

Where a manufacturer reapplies for type-approval for equipment for which a type-certificate has been refused, his submission to the notified body must include all relevant documentation, including the original test reports, the detailed reasons for the previous refusal and details of all modifications made to the equipment.

6. The applicant must inform the notified body that holds the technical documentation concerning the EC type-examination certificate of all modifications to the approved product, which must receive additional approval where such changes may affect compliance with the requirements or the prescribed conditions for use of the product. Such additional approval must be given in the form of an addition to the original EC type-examination certificate.
7. Each notified body must, on request, provide flag Member State administrations and the other notified bodies with the relevant information concerning the EC type-examination certificates and additions issued and withdrawn.

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8. The other notified bodies may receive copies of the EC type-examination certificates and/or their additions. The Annexes to the certificates must be kept at the disposal of the other notified bodies.
9. The manufacturer or his authorized representative established within the Community must keep with the technical documentation copies of EC type-examination certificates and their additions for at least 10 years after the last product has been manufactured.

CONFORMITY TO TYPE (MODULE C)

1. A manufacturer or his authorized representative established within the Community must ensure and declare that the products concerned conform to type as described in the EC type-examination certificate and satisfy the requirements of the international instruments that apply to them. The manufacturer or his authorized representative established within the Community must affix the mark to each product and draw up a written declaration of conformity.
2. The manufacturer must take all measures necessary to ensure that the manufacturing process ensures that the manufactured products conform to type as described in the EC type-examination certificate and comply with the requirements of the international instruments that apply to them.
3. The manufacturer or his authorized representative established within the Community must keep a copy of the declaration of conformity for at least 10 years after the last product has been manufactured.

PRODUCTION-QUALITY ASSURANCE (MODULE D)

1. A manufacturer who satisfies the obligations of point 2 must ensure and declare that the products concerned conform to type as described in the EC type-examination certificate. The manufacturer or his authorized representative established within the Community must affix the mark to each product and draw up a written declaration of conformity. The mark must be accompanied by the identification symbol of the notified body responsible for surveillance as specified in point 4.
2. The manufacturer must operate an approved quality system for production, final-product inspection and testing as specified in point 3 and must be subject to surveillance as specified in point 4.
3. Quality system
 - 3.1. The manufacturer must lodge an application for assessment of his quality system with a notified body of his choice for the products concerned.

The application must include:

- all relevant information for the product category envisaged,
 - the documentation concerning the quality system,
 - the technical documentation of the approved type and a copy of the EC type-examination certificate.
- 3.2. The quality system must ensure that the products conform to type as described in the EC type-examination certificate.

All the elements, requirements and provisions adopted by the manufacturer must be documented in a systematic and orderly manner in the form of written policies, procedures and instructions.

The quality-system documentation must permit a consistent interpretation of the quality programmes, plan, manuals and records.

It must, in particular, include an adequate description of:

- the quality objectives and the organizational structure, responsibilities and powers of the management with regard to product quality,
- the manufacturing, quality-control and quality-assurance techniques, processes and systematic actions that will be used,
- the examinations and tests that will be carried out before, during and after manufacture, and the frequency with which they will be carried out,
- the quality records, such as inspection reports and test data, calibration data, qualification reports of the personnel concerned, etc.,
- the means of monitoring the achievement of the required product quality and the effective operation of the quality system.

- 3.3. The notified body must assess the quality system to determine whether it satisfies the requirements laid down in point 3.2. It must presume compliance with those requirements in respect of quality systems that implement the relevant harmonized standard.

The auditing team must have at least one member with experience of assessment in the product technology concerned. The assessment procedure must include a visit to the manufacturer's premises.

The manufacturer must be notified of the decision. The notification must include the conclusions of the examination and the reasoned assessment decision.

- 3.4. The manufacturer must undertake to fulfil the obligations arising out of the quality system as approved and to uphold it so that it remains adequate and efficient.

The manufacturer or his authorized representative established within the Community must keep the notified body that has approved the quality system informed of any intended updating of that quality system.

The notified body must assess the modifications proposed and decide whether the modified quality system will still satisfy the requirements laid down in point 3.2 or whether a reassessment is required.

The manufacturer must be notified of its decision. The notification must include the conclusions of the examination and the reasoned assessment decision.

4. Surveillance under the responsibility of the notified body

- 4.1. The purpose of surveillance is to make sure that the manufacturer duly fulfils the obligations arising out of the approved quality system.

- 4.2. The manufacturer must allow the notified body access for inspection purposes to the locations of manufacture, inspection and testing and storage and must provide it with all necessary information, in particular:

- the quality-system documentation,
- the quality records, such as inspection reports and test data, calibration data, qualification reports of the personnel concerned, etc.

- 4.3. The notified body must periodically carry out audits to make sure that the manufacturer maintains and applies the quality system and must provide the manufacturer with audit reports.

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- 4.4. In addition, the notified body may pay unannounced visits to the manufacturer. During such visits the notified body may carry out tests or cause tests to be carried out to check that the quality system is functioning correctly, if necessary. The notified body must provide the manufacturer with a visit report and, if a test has taken place, with a test report.
5. The manufacturer must, for at least 10 years after the last product has been manufactured, keep at the disposal of the national authorities:
- the documentation referred to in the second indent of the second paragraph of point 3.1,
 - the updating referred to in the second paragraph of point 3.4,
 - the decision and reports from the notified body referred to in the final paragraph of point 3.4, point 4.3 and point 4.4.
6. Each notified body must, on request, provide flag Member State administrations and the other notified bodies with the relevant information concerning the quality-system approvals issued and withdrawn.

PRODUCT-QUALITY ASSURANCE (MODULE E)

1. A manufacturer who satisfies the obligations of point 2 ensures and declares that the products concerned conform to type as described in the EC type-examination certificate. The manufacturer or his authorized representative established within the Community must affix the mark to each product and draw up a written declaration of conformity. The mark must be accompanied by the identification symbol of the notified body responsible for surveillance as specified in point 4.
2. The manufacturer must operate an approved quality system for final inspection and testing as specified in point 3 and must be subject to surveillance as specified in point 4.
3. Quality system
- 3.1. The manufacturer must lodge an application for assessment of his quality system for the products concerned with a notified body of his choice.

The application must include:

- all relevant information for the product category envisaged,
 - documentation concerning the quality system,
 - the technical documentation of the approved type and a copy of the EC type-examination certificate.
- 3.2. Under the quality system, each product must be examined and appropriate tests must be carried out in order to ensure its compliance with the relevant requirements of the international instruments. All the elements, requirements and provisions adopted by the manufacturer must be documented in a systematic and orderly manner in the form of written policies, procedures and instructions. That quality-system documentation must ensure common understanding of the quality programmes, plans, manuals and records.

It must, in particular, include an adequate description of:

- the quality objectives and the organizational structure, responsibilities and powers of the management with regard to product quality,
- the examinations and tests that will be carried out after manufacture,
- the means of monitoring the effective operation of the quality system,

— the quality records, such as inspection reports and test data, calibration data, qualification reports of the personnel concerned, etc.

3.3 The notified body must assess the quality system to determine whether it satisfies the requirements laid down in point 3.2. It must presume compliance with the requirements in respect of quality systems that implement the relevant harmonized standard.

The auditing team must have at least one member with experience as an assessor in the product technology concerned. The assessment procedure must include an assessment visit to the manufacturer's premises.

The manufacturer must be notified of the decision. The notification must include the conclusions of the examination and the reasoned assessment decision.

3.4. The manufacturer must undertake to fulfil the obligations arising out of the quality system as approved and to maintain it in an appropriate and efficient manner.

The manufacturer or his authorized representative established within the Community must keep the notified body that has approved the quality system informed of any intended updating of that quality system.

The notified body must evaluate the modifications proposed and decide whether the modified quality system will still satisfy the requirements laid down in point 3.2 or whether a reassessment is required.

The manufacturer must be notified of its decisions. The notification must include the conclusions of the examination and the reasoned assessment decision.

4. Surveillance under the responsibility of the notified body

4.1. The purpose of surveillance is to make sure that the manufacturer duly fulfils the obligations arising out of the approved quality system.

4.2. The manufacturer must allow the notified body access for inspection purposes to the locations of inspection, testing and storage and must provide it with all necessary information, in particular:

- the quality-system documentation,
- the technical documentation,
- the quality records, such as inspection reports and test data, calibration data, qualification reports of the personnel concerned, etc.

4.3. The notified body must periodically carry out audits to make sure that the manufacturer maintains and applies the quality system and must provide the manufacturer with audit reports.

4.4. In addition, the notified body may pay unannounced visits to the manufacturer. During such visits the notified body may carry out tests or cause tests to be carried out to check that the quality system is functioning correctly, if necessary. The notified body must provide the manufacturer with a visit report and, if a test has been carried out, with a test report.

5. The manufacturer must, for at least 10 years after the last product has been manufactured, keep at the disposal of the national authorities:

- the documentation referred to in the third indent of the second paragraph of point 3.1,
- the updating referred to in the second paragraph of point 3.4,

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- the decision and reports from the notified body referred to in the final paragraph of point 3.4, point 4.3 and point 4.4.
- 6. Each notified body must on request provide flag Member State administrations and the other notified bodies with the relevant information concerning the quality-system approvals issued and withdrawn.

PRODUCT VERIFICATION (MODULE F)

1. A manufacturer or his authorized representative established within the Community must check and attest that the products subject to point 3 conform to the type as described in the EC type-examination certificate.
2. The manufacturer must take all measures necessary to ensure that the manufacturing process ensures that the products conform to type as described in the EC type-examination certificate. He must affix the mark to each product and must draw up a declaration of conformity.
3. The notified body must carry out the appropriate examinations and tests in order to check that the product complies with the requirements of the international instruments either by examination and testing of every product as specified in point 4 or by examination and testing of products on a statistical basis, as specified in point 5, at the choice of the manufacturer.
- 3a. The manufacturer or his authorized representative established within the Community must keep a copy of the declaration of conformity for at least 10 years after the last product has been manufactured.
4. Verification by examination and testing of every product
 - 4.1. All products must be individually examined and appropriate tests must be carried out in order to verify their conformity to type as described in the EC type-examination certificate.
 - 4.2. The notified body must affix its identification symbol or cause it to be affixed to each approved product and draw up a written certificate of conformity relating to the tests carried out.
 - 4.3. The manufacturer or his authorized representative established within the Community must ensure that he is able to supply the notified body's certificate of conformity on request to the flag Member State administration.
5. Statistical verification
 - 5.1. The manufacturer must present his products in the form of homogeneous lots and must take all measures necessary to ensure that the manufacturing process ensures the homogeneity of each lot produced.
 - 5.2. All products must be available for verification in the form of homogeneous lots. A random sample must be drawn from each lot. Products in a sample must be individually examined and appropriate tests must be carried out to ensure that they comply with the requirements of the international instruments which apply to them and to determine whether the lot is to be accepted or rejected.
 - 5.3. In the case of accepted lots, the notified body must affix its identification symbol or cause it to be affixed to each product and must draw up a written certificate of conformity relating to the tests carried out. All products in the lot may be put on the market except those products from the sample which are found not to comply.

If a lot is rejected, the notified body or the competent authority must take appropriate measures to prevent that lot's being put on the market. In the event of frequent rejection of lots the notified body may suspend statistical verification.

The manufacturer may, under the responsibility of the notified body, affix the latter's identification symbol during the manufacturing process.

- 5.4. The manufacturer or his authorized representative established within the Community must ensure that he is able to supply the notified body's certificates of conformity on request to the flag Member State administration.

UNIT VERIFICATION (MODULE G)

1. The manufacturer must ensure and declare that the product concerned, which has been issued with the certificate referred to in point 2, complies with the requirements of the international instruments that apply to it. The manufacturer or his authorized representative established within the Community must affix the mark to the product and draw up a declaration of conformity.
2. The notified body must examine the individual product and carry out appropriate tests to ensure that it complies with the relevant requirements of the international instruments.

The notified body must affix its identification number or cause it to be affixed to the approved product and must draw up a certificate of conformity concerning the tests carried out.

3. The aim of the technical documentation is to enable compliance with the requirements of the international instruments to be assessed and the design, manufacture and operation of the product to be understood.

FULL-QUALITY ASSURANCE (MODULE H)

1. A manufacturer who satisfies the obligations of paragraph 2 must ensure and declare that the products concerned comply with the requirements of the international instruments that apply to them. The manufacturer or his authorized representative established within the Community must affix the mark to each product and draw up a written declaration of conformity. The mark must be accompanied by the identification symbol of the notified body responsible for surveillance as specified in point 4.
2. The manufacturer must operate an approved quality system for design, manufacture, final-product inspection and testing as specified in point 3 and must be subject to surveillance as specified in point 4.
3. Quality system
 - 3.1. The manufacturer must lodge an application for assessment of his quality system with a notified body.

The application must include:

- all relevant information for the product category envisaged and
- documentation concerning the quality system.

- 3.2. The quality system must ensure that the products comply with the requirements of the international instruments that apply to them.

All the elements, requirements and provisions adopted by the manufacturer must be documented in a systematic and orderly manner in the form of written policies, procedures and instructions. The quality-system documentation must ensure common understanding of the quality policies and procedures such as quality programmes, plans, manuals and records.

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It must, in particular, include an adequate description of:

- the quality objectives and the organizational structure, responsibilities and powers of the management with regard to product quality,
- the technical design specifications, including standards, that will be applied and the assurance that the essential requirements of the international instruments that apply to the products will be met,
- the design-control and design-verification techniques, processes and systematic actions that will be used in the design of the products pertaining to the product category covered,
- the corresponding manufacturing, quality-control and quality-assurance techniques, processes and systematic actions that will be used,
- the examinations and tests that will be carried out before, during and after manufacture, and the frequency with which they will be carried out,
- the quality records, such as inspection reports and test data, calibration data, qualification reports of the personnel concerned, etc.,
- the means of monitoring the achievement of the required design and product quality and the effective operation of the quality system.

3.3. The notified body must assess the quality system to determine whether it satisfies the requirements laid down in point 3.2. It must presume compliance with the requirements in respect of quality systems that implement the relevant harmonized standard.

The auditing team must have at least one member with experience as an assessor in the product technology concerned. The assessment procedure must include an assessment visit to the manufacturer's premises.

The manufacturer must be notified of the decision. The notification must include the conclusions of the examination and the reasoned assessment decision.

3.4. The manufacturer must undertake to fulfil the obligations arising from the quality system as approved and to uphold it so that it remains adequate and efficient.

The manufacturer or his authorized representative established within the Community must keep the notified body that has approved the quality system informed of any intended updating of that quality system.

The notified body must evaluate the modifications proposed and decide whether the modified quality system will still satisfy the requirements laid down in point 3.2 or whether a reassessment is required.

The manufacturer must be notified of its decisions. The notification must include the conclusions of the examination and the reasoned assessment decision.

4. EC surveillance under the responsibility of the notified body

4.1. The purpose of surveillance is to make sure that the manufacturer duly fulfils the obligations arising out of the approved quality system.

4.2. The manufacturer must allow the notified body access for inspection purposes to the locations of design, manufacture, inspection and testing and storage and must provide it with all necessary information, in particular:

- the quality-system documentation,
- the quality records as provided for in the design part of the quality system, such as the results of analyses, calculations, tests, etc.,

- the quality records as provided for in the manufacturing part of the quality system, such as inspection reports and test data, calibration data, qualification reports of the personnel concerned, etc.
 - 4.3. The notified body must periodically carry out audits to make sure that the manufacturer maintains and applies the quality system and must provide the manufacturer with audit reports.
 - 4.4. In addition the notified body may pay unannounced visits to the manufacturer. During such visits, the notified body may carry out tests or cause tests to be carried out to check that the quality system is functioning correctly, if necessary. The notified body must provide the manufacturer with a visit report and, if a test has been carried out, with a test report.
 - 5. The manufacturer must, for at least 10 years after the last product has been manufactured, keep at the disposal of the national authorities:
 - the documentation referred to in the second indent of the second paragraph of point 3.1,
 - the updating referred to in the second paragraph of point 3.4,
 - the decision and reports from the notified body referred to in the final paragraph of point 3.4, point 4.3 and point 4.4.
 - 6. Each notified body must, on request, provide flag Member State administrations and the other notified bodies with the relevant information concerning the quality-system approvals issued and withdrawn.
 - 7. Design examination
 - 7.1. The manufacturer must lodge an application for examination of the design with a single notified body.
 - 7.2. The application must make it possible to understand the design, manufacture and operation of the product and to assess compliance with the requirements of international instruments.
- It must include:
- the technical design specifications, including standards, that have been applied and
 - the necessary supporting evidence for their adequacy, in particular where the standards specified in Article 5 have not been applied in full. Such supporting evidence must include the results of tests carried out by an appropriate laboratory of the manufacturer's or on his behalf.
- 7.3. The notified body must examine the application and where the design complies with those provisions of the international instruments that apply it must issue an EC design-examination certificate to the applicant. The certificate must include the conclusions of the examination, the conditions of its validity, the data necessary for identification of the approved design and, if relevant, a description of the product's functioning.
 - 7.4. The applicant must keep the notified body that has issued the EC design-examination certificate informed of any modification to the approved design. Modifications to the approved design must receive additional approval from the notified body that issued the EC design-examination certificate where such changes may affect compliance with the relevant requirements of the international instruments or the prescribed conditions for use of the product. Such additional approval must be given in the form of an addition to the original EC design-examination certificate.

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- 7.5. The notified bodies must, on request, provide flag Member State administrations and the other notified bodies with the relevant information concerning:
- the EC design-examination certificates and additions issued and
 - the EC design-approvals and additional approvals withdrawn.

Appendix to Annex B

Technical documentation to be supplied by the manufacturer to the notified body

The provisions set down in this Appendix apply to all modules of Annex B.

The technical documentation referred to in Annex B must comprise all relevant data and means used by the manufacturer to ensure that equipment complies with the essential requirements relating to it.

The technical documentation must make it possible to understand the design, manufacture and operation of the product, and must make it possible to assess compliance with the requirements of the relevant international instruments.

The documentation must, so far as they are relevant to assessment, include:

- a general description of the type,
- conceptual-design, build standard and manufacturing drawings and schemes of components, sub-assemblies, circuits, etc.,
- descriptions and explanations necessary for the understanding of those drawings and schemes, including the operation of the product,
- the results of design calculations made, impartial examinations carried out, etc.,
- impartial test reports,
- manuals for installation, use and maintenance.

Where appropriate, the design documentation must contain the following:

- attestations relating to the equipment incorporated in the appliance,
- attestations and certificates relating to the methods of manufacture and/or inspection and/or monitoring of the appliance,
- any other document that makes it possible for the notified body to improve its assessment.

ANNEX C

Minimum criteria to be taken into account by Member States for the designation of bodies

1. Notified bodies must fulfil the requirements of the relevant EN 45000 series.
2. A notified body must be independent and must not be controlled by manufacturers or by suppliers.
3. A notified body must be established within the territory of the Community.
4. Where type-approvals are issued by a notified body on behalf of a Member State, the Member State must ensure that the qualifications, technical experience and staffing of the notified body are such as will enable it to issue type-approvals which comply with the requirements of this Directive and to guarantee a high level of safety.
5. A notified body must be in a position to provide maritime expertise.

A notified body is entitled to perform conformity-assessment procedures for any economic operator established within or outwith the Community.

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A notified body may perform conformity-assessment procedures in any Member State or State outwith the Community using either its home-based means or the personnel of its branch office abroad.

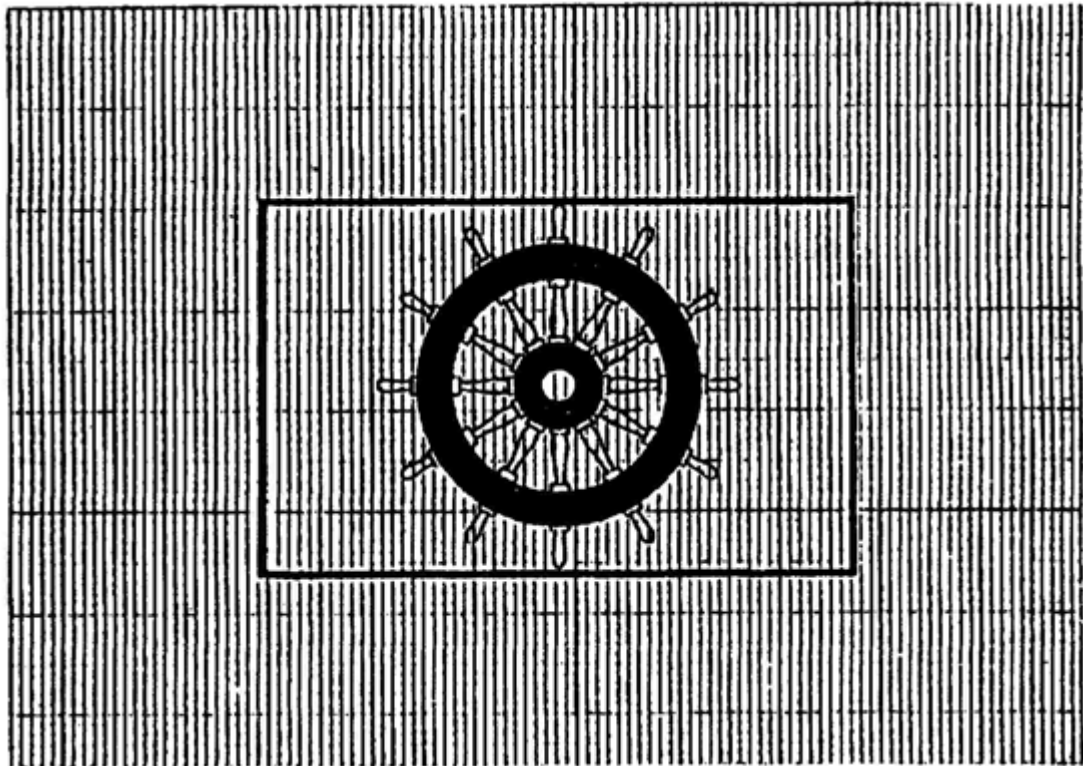
If a subsidiary of a notified body performs conformity-assessment procedures, all documents relating to the conformity-assessment procedures must be issued by and in the name of the notified body and not in the name of the subsidiary.

A subsidiary of a notified body which is established in another Member State may, however, issue documents relating to conformity-assessment procedures if it is notified by that Member State.

ANNEX D

Mark of conformity

The mark of conformity must take the following



form:

If the mark is reduced or enlarged the proportions given in the above graduated drawing must be respected.

The various components of the mark must have substantially the same vertical dimension, which may not be less than 5 mm.

That minimum dimension may be waived for small devices.

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- (1) A type may cover several versions of the product provided that the differences between the versions do not affect the level of safety or the other requirements concerning the performance of the product.