

ANNEX

"ANNEX A

Annex A.1 Equipment for which detailed testing standards already exist in international instruments

Notes applicable to the whole of Annex A.1

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

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.

Column 5: For the purpose of identifying correctly the relevant standards, the test reports and the appropriate type- approval certificates shall specify the applied standard and its version as identified in the column.

Column 5: Where two sets of testing standards are indicated (separated by a « ; »), each set fulfils all the testing requirements to meet IMO Performance Standards. Thus the testing of an item based on one of the sets is sufficient to demonstrate compliance with the requirements of the relevant International Instruments.

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

1. Life-saving appliances

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item No	Item designation	Regulation SOLAS 74 as amended where 'type-approval' is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.1/1.1	Lifebuoys	Regulation III/4, Regulation X/3.	Regulation III/7.1 & III/34, IMO Resolution MSC.48 (66), MSC.36 (63) - 8.1.3, 8.3 (1994 HSC Code)	IMO Resolution MSC.81 (70)		X	X	X		

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item No	Item designation	Regulation SOLAS 74 as amended where 'type-approval' is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.1/1.2	Position-indicating lights for life-saving appliances	Regulation III/4, Regulation X/3.	Regulation III/7.1.3, III/22.1.2, III/22.3.1, III/32.1, III/32.2 & III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1, 8.3 & 8.10 (1994 HSC Code), IMO MSC/Circ. 885.	IMO Resolution MSC.81 (70), and, for battery requirements, as specified in EN 394 (1993)		X	X	X		
	a. For survival craft and rescue boats									
	b. For lifebuoys									
A.1/1.3	Lifebuoys self-activating smoke signals	Regulation III/4, Regulation X/3.	Regulation III/7.1.3 & III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1, 8.3.4 (1994 HSC Code).	IMO Resolution MSC.81(70)		X	X	X		
A.1/1.4	Lifejackets	Regulation III/4, Regulation X/3.	Regulation III/7.2 & III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1, 8.3 (1994 HSC Code).	IMO Resolution MSC.81 (70), and, for battery requirements, as specified in EN 394 (1993)		X	X	X		
A.1/1.5	Immersion suits and anti-exposure suits	Regulation III/4, Regulation X/3.	Regulation III/7.3, III/22.4 , III/32.3 & III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1, 8.3 (1994 HSC Code).	IMO Resolution MSC.81(70)		X	X	X		
	- insulated or not insulated									
A.1/1.6	Immersion suits and anti-exposure suits classified as lifejackets	Regulation III/4, Regulation X/3.	Regulation III/7.3, III/22.4, III/32.3 & III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1, 8.3 (1994 HSC Code).	IMO Resolution MSC.81(70)		X	X	X		
A.1/1.7	Thermal protective aids	Regulation III/4.	Regulation III/7.3, III/22.4, III/32.3 & III/34, IMO Resolution MSC.48 (66).	IMO Resolution MSC.81(70)		X	X	X		
A.1/1.8	Rocket parachute flares (pyrotechnics)	Regulation III/4, Regulation X/3.	Regulation III/6.3 & III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1, 8.2.3 (1994 HSC Code).	IMO Resolution MSC.81(70)		X		X		

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					B+C	B+D	B+E	B+F	G	H
A.1/1.9	Hand flares (pyrotechnics)	Regulation III/4.	Regulation III/34, IMO Resolution MSC.48 (66).	IMO Resolution MSC.81(70)		X		X		
A.1/1.10	Buoyant smoke signals (pyrotechnics)	Regulation III/4.	Regulation III/34, IMO Resolution MSC.48 (66).	IMO Resolution MSC.81(70)		X		X		
A.1/1.11	Line-throwing appliances (pyrotechnics)	Regulation III/4, Regulation X/3.	Regulation III/18 & III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1, 8.8 (1994 HSC Code).	IMO Resolution MSC.81(70)		X		X		
A.1/1.12	Inflatable liferafts	Regulation III/4, Regulation X/3.	Regulation III/21.1, III/31.1 & III/34, IMO Resolution MSC.48 (66), IMO MSC/Circ.811, IMO Resolution MSC.36 (63) 8.1, 8.5 & 8.10 (1994 HSC Code).	IMO Resolution MSC.81(70)		X				
A.1/1.13	Rigid liferafts	Regulation III/4, Regulation X/3.	Regulation III/21.1, III/31.1.2 & III/34, IMO Resolution MSC.48 (66), IMO MSC/Circ. 811, IMO Resolution MSC.36 (63) 8.1, 8.5 & 8.10 (1994 HSC Code).	IMO Resolution MSC.81(70)		X				
A.1/1.14	Automatically self-righting liferafts	Regulation III/4, Regulation X/3.	Regulation III/26.2.4 & III/34, IMO Resolution MSC.48 (66), IMO MSC/Circ. 809 ¹ ,IMO MSC/Circ. 811, IMO Resolution MSC.36 (63) 8.1, 8.5 & 8.10 (1994 HSC Code).	IMO Resolution MSC.81(70)		X				

¹¹

MSC Circ. 809 is only applicable if the equipment is to be fitted on ro-ro passenger ships.

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Item No	Item designation	Regulation SOLAS 74 as amended where ‘type-approval’ is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.1/1.15	Canopied reversible liferafts	Regulation III/4, Regulation X/3.	Regulation III/26.2.4 & III/34, IMO Resolution MSC.48 (66), IMO MSC/Circ. 809 ¹ , IMO MSC/Circ.811, IMO Resolution MSC.36 (63) 8.1, 8.5 & 8.10 (1994 HSC Code).	IMO Resolution MSC.81(70)		X				
A.1/1.16	Float-free arrangements for liferafts (hydrostatic release units)	Regulation III/4, Regulation X/3.	Regulation III/13.4.2, III/26.2.2 & III/34, IMO Resolution MSC.48 (66), IMO MSC/Circ. 811, IMO Resolution MSC.36 (63) 8.1 & 8.6 (1994 HSC Code).	IMO Resolution MSC.81(70)		X	X	X		
A.1/1.17	Lifeboats	Regulation III/4, Regulation X/3.	Regulation III/21.1, III/31.1.1.1, III/31.1.2.1, III/31.1.6, III/31.1.7 & III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1 & 8.10 (1994 HSC Code).	IMO Resolution MSC.81(70)		X			X	
A.1/1.18	Rigid rescue boats	Regulation III/4, Regulation X/3.	Regulation III/21.2, III/31.2 & III/34, IMO Resolution MSC.48(66), IMO Resolution MSC.36(63) 8.1 (1994 HSC Code).	IMO Resolution MSC.81(70)		X			X	
A.1/1.19	Inflated rescue boats	Regulation III/4, Regulation X/3.	Regulation III/21.2, III/31.2 & III/34, IMO Resolution MSC.48(66), IMO Resolution MSC.36 (63) 8.1, 8.5, 8.7 & 8.10 (1994 HSC Code).	IMO Resolution MSC.81(70)		X			X	
A.1/1.20	Fast rescue boats	Regulation III/4, Regulation X/3.	Regulation III/26.3 & III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1 (1994 HSC Code), IMO MSC/Circ. 809 ¹ .	IMO Resolution MSC.81(70)		X			X	

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Item No	Item designation	Regulation SOLAS 74 as amended where 'type-approval' is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.1/1.21	Launching appliances using fall and winch (davits)	Regulation III/4, Regulation X/3.	Regulation III/23, III/33 & III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1, 8.5 & 8.7 (1994 HSC Code).	IMO Resolution MSC.81(70)		X	X	X	X	
A.1/1.22	Float-free launching appliances for survival craft	Moved to Annex A.2.								
A.1/1.23	Launching appliances for free-fall lifeboats	Regulation III/4, Regulation X/3.	Regulation III/33 & III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36(63) 8.1, 8.5 & 8.7 (1994 HSC Code).	IMO Resolution MSC.81(70)					X	
A.1/1.24	Liferaft launching appliances	Regulation III/4, Regulation X/3.	Regulation III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1, 8.5 & 8.7 (1994 HSC Code).	IMO Resolution MSC.81(70)		X	X	X	X	
A.1/1.25	Fast rescue boat launching appliances	Regulation III/4, Regulation X/3.	Regulation III/26.3.2 & III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1 (1994 HSC Code), IMO MSC/Circ. 809 ¹ .	IMO Resolution MSC.81(70)		X	X	X		
A.1/1.26	Release mechanism for a. Lifeboats and rescue boats and b. Liferafts Launched by a fall or falls	Regulation III/4, Regulation X/3.	Regulation III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1 & 8.5 (1994 HSC Code).	IMO Resolution MSC.81(70)		X	X	X		

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Item No	Item designation	Regulation SOLAS 74 as amended where 'type-approval' is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.1/1.27	Marine evacuation systems	Regulation III/4, Regulation X/3.	Regulation III/15, III/26.2.1, III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1, 8.7 & 8.10 (1994 HSC Code).	IMO Resolution MSC.81(70)		X			X	
A.1/1.28	Means of rescue	Regulation III/4, Regulation X/3.	Regulation III/26.4 & III/34, IMO Resolution MSC.48 (66), IMO MSC/Circ. 810 ¹ , IMO Resolution MSC.36 (63) 8.1, 8.5 & 8.10 (1994 HSC Code).	IMO Resolution MSC.81(70), MSC/Circ. 810 .		X				
A.1/1.29	Embarkation ladders	Regulation III/4, Regulation X/3.	Regulation III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1 (1994 HSC Code).	IMO Resolution MSC.81(70)		X	X	X		
A.1/1.30	Retro-reflective materials	Regulation III/4.	Regulation III/34, IMO Resolution MSC.48 (66).	IMO Resolution A.658 (16) Annex2.		X	X	X		
A.1/1.31	Survival craft two-way VHF radio telephone apparatus	Moved to AnnexA.1 Section 5.								
A.A/1.32	9GHzSAR transponder (SART)	Moved to Annex A.1 Section 4.								
A.1/1.33	Radar reflector for lifeboats and rescue boats	Regulation III/4, Regulation X/3.	Regulation III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1 (1994 HSC Code).	IMO Resolution A.384 (X), EN ISO 8729 (1998); IMO Resolution A.384 (X), ISO 8729 (1997).		X	X	X	X	
A.1/1.34	Compass for lifeboats and rescue boats	Moved to Annex A.1 Section 4.								

¹ MSC Circ.810 is only applicable if the equipment is to be fitted on ro-ro passenger ships.

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6							
Item No	Item designation	Regulation SOLAS 74 as amended where 'type-approval' is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment							
					B+C	B+D	B+E	B+F	G	H		
A.1/1.35	Portable fire-extinguishing equipment for lifeboats and rescue boats	Moved to Annex A.1 Section 3.										
A.1/1.36	Lifeboat/rescue boat propulsion engine	Regulation III/4.	Regulation III/34, IMO Resolution MSC.48 (66).	IMO Resolution MSC.81(70)		X	X	X				
A.1/1.37	Rescue boat propulsion engine-outboard motor	Regulation III/4	Regulation III/34, IMO Resolution MSC.48 (66).	IMO Resolution MSC.81(70)		X	X	X				
A.1/1.38	Searchlights for use in Lifeboats and Rescue Boats "new item"	Regulation III/4, Regulation X/3.	Regulation III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1 (1994 HSC Code).	IMO Resolution MSC.81(70)		X	X	X				
A.1/1.39	Open reversible liferafts "new item"	Regulation III/4, Regulation X/3.	IMO Resolution MSC.36 (63) 8.1, 8.5, 8.7 & 8.10 (1994 HSC Code).	IMO Resolution MSC.36 (63) Annex 10 (1994 HSC Code).		X						

2. Marine-pollution prevention

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item No	Item designation	Regulation MARPOL 73/78 as amended where 'type-approval' is required	Applicable regulations of MARPOL 73/78, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.1/2.1	Oil-filtering equipment (for an oil content of the effluent not exceeding 15 p.p.m.)	Annex I, Regulation 16 (4) & (5).	Annex I, Regulation 16 (1) & (2).	IMO Resolution MEPC 60 (33).		X	X	X		
A.1/2.2	Oil/water interface detectors	Annex I, Regulation 15 (3) (b).	Annex I, Regulation 15 (3) (b).	IMO Resolution MEPC 5 (XIII).		X	X	X		

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item No	Item designation	Regulation MARPOL 73/78 as amended where 'type-approval' is required	Applicable regulations of MARPOL 73/78, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.1/2.3	Oil-content meters	Annex I, Regulation 16(4) &(5).	Annex I, Regulation 16(1) & (2).	IMO Resolution MEPC 60 (33).		X	X	X		
A.1/2.4	Process units intended for attachment to existing oily water separating equipment (for an oil content of the effluent not exceeding 15 p.p.m.)	Item deleted								
A.1/2.5	Oil discharge monitoring and control system for an oil tanker	Annex I, Regulation 15 (3) (a).	Annex I, Regulation 15 (3).	IMO Resolution A.586 (14).		X	X	X		
A.1/2.6	Sewage treatment plants	Annex IV, Regulation 8 (1) (b).	Annex IV, Regulation 8 (1) (b).	IMO Resolution MEPC 2 (VI).		X	X	X	X	
A.1/2.7	Shipboard incinerators	Annex VI, Regulation 16 (2) (a).	Annex VI, Regulation 16 (2) (a).	IMO Resolution MEPC 76(40).		X	X	X	X	

3. Fire protection

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item No	Item designation	Regulation SOLAS 74 as amended where ‘type-approval’ is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.1/3.1	Primary deck coverings	Regulation II-2/34.8, II-2/49.3	Regulation II-2/34.8, II-2/49.3	IMO Resolution MSC.61(67) Annex 1, Parts 2 & 6, Annex 2	X					
A.1/3.2	Portable fire extinguishers	Regulation II-2/6.1, Regulation X/3.	Regulation II-2/6, IMO Resolution A.602 (15), IMO Resolution MSC.36(63) 7.7.7 & 7.8.4.1.3 (1994 HSC Code).	EN 3-1 (1996), 3-2 (1996), 3-3 (1994), 3-4 (1996), 3-5 (1996) + AC (1997), 3-6 (1995) + A1: (1999).	X	X	X			
A.1/3.3	Fireman’s outfit : protective clothing	Regulation II-2/17.1.1.1, Regulation X/3.	Regulation II-2/17.1.1.1, IMO Resolution MSC.36(63) 7.10.3.1.1 (1994 HSC Code), IMO MSC/Circ.847.	EN 469 (1995), EN 531/A1 (1998), EN 1486 (1996), ISO 15538 (2001)	X					
A.1/3.4	Fireman’s outfit : boots	Regulation II-2/17.1.1.2, Regulation X/3.	Regulation II-2/17.1.1.2, IMO Resolution MSC.36(63) 7.10.3.1.2 (1994 HSC Code).	EN 344 (1992) + AC (1993) + A1 (1997), EN 344-2 (1996), EN 345 (1992) + A1 (1997), EN 345-2 (1996) Class 2, IEC 60903 (1993).	X					
A.1/3.5	Fireman’s outfit : gloves	Regulation II-2/17.1.1.2, Regulation X/3.	Regulation II-2/17.1.1.2, IMO Resolution MSC.36(63) 7.10.3.1.2 (1994 HSC Code), IMO MSC/Circ.847.	EN 659 (1996), EN 60903 (1993), EN 60903 + A.11 (1997).	X					
A.1/3.6	Fireman’s outfit : helmet	Regulation II-2/17.1.1.3, Regulation X/3.	Regulation II-2/17.1.1.3, IMO Resolution MSC.36(63) 7.10.3.1.3 (1994 HSC Code).	EN 443 (1997).	X					
A.1/3.7	Self-contained compressed air-operated breathing apparatus	Regulation II-2/17.1.2, Regulation X/3.	Regulation II-2/17.1.2.2 IMO Resolution MSC.36(63) 7.10.3.2.2 (1994 HSC Code).	EN 137 (1993), EN 136 (1998).	X					

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					B+C	B+D	B+E	B+F	G	H
A.1/3.8	Air-supplied breathing apparatus for use with a smoke helmet or smoke mask	Regulation II-2/17.1.2, Regulation X/3.	Regulation II-2/17.1.2.1 IMO Resolution MSC.36(63) 7.10.3.2.1 (1994 HSC Code).	EN 138 (1994).		X				
A.1/3.9	Sprinkler systems equivalent to that referred to in SOLAS Regulation II-2/12	Regulation II-2/36.1.2, II-2/36.2, II-2/41-2.5, II-2/52.2.	Regulation II-2/12, II-2/36.1.2, II-2/36.2, II-2/41-2.5, II-2/42.5.2, II-2/52.2.	IMO Resolution A.800(19).		X			X	
A.1/3.10	Nozzles for fixed pressure water spraying fire extinguishing systems for machinery spaces	Item transferred to Annex A2								
A.1/3.11	'A' and 'B' Class divisions, fire integrity	Regulation II-2/3.3.5, II-2/3.4.4.	Regulation II-2/3.3.5, II-2/3.4.4, II-2/16.11.	IMO Resolution A.754 (18), IMO Resolution MSC.61(67) Annex 1, Part 3, and Annex 2.		X	X	X		
A.1/3.12	Devices to prevent the passage of flame into the cargo tanks in oil tankers	Regulation II-2/59.1.5, II-2/59.1.9.4, II-2/59.2.	Regulation II-2/59.1.5, II-2/59.1.9.4, II-2/59.2.	IMO MSC/Circ.677.		X	X	X		
A.1/3.13	Non-combustible materials	Regulation II-2/3.1, Regulation X/3.	Regulation II-2/3.1, IMO Resolution MSC.36(63) 7.2.4 (1994 HSC Code).	IMO Resolution A.799(19), IMO Resolution MSC.61(67) Annex 1, Part 1, and Annex 2.		X	X	X		
A.1/3.14	Materials other than steel for pipes penetrating 'A' or 'B' Class division	Regulation II-2/18.2.1.	Regulation II-2/18.2.1.	IMO Resolution A.753(18), IMO Resolution A.754(18), IMO Resolution MSC.61(67) Annex 1, Part 3.		X	X	X		
A.1/3.15	Materials other than steel for pipes conveying oil or fuel oil	Regulation II-2/15.2.8, II-2/18.2.2, Regulation X/3.	Regulation II-2/15.2.8, II-2/18.2.2, IMO Resolution MSC.36(63) 7.5.4 (1994 HSC Code).	IMO Resolution A.753(18).		X	X	X		
A.1/3.16	Fire Doors	Regulation II-2/30.2, II-2/31.1.1 & II-2/47.	Regulation II-2/30.2, II-2/31.1.1, II-2/47.	IMO Resolution A.754(18) IMO Resolution MSC.61(67) Annex 1, Part 3.		X	X	X		

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					B+C	B+D	B+E	B+F	G	H
A.1/3.17	Fire door control systems	Regulation II-2/30.4.15, Regulation X/3.	Regulation II-2/30.4.15, IMO Resolution MSC.36(63) 7.9.3.3 (1994 HSC Code).	IMO Resolution MSC.61(67) Annex 1, Part 4		X	X	X		
A.1/3.18	Surface materials and floor coverings with low flame-spread characteristics	Regulation II-2/3.8 II-2/34.3, II-2/34.7, II-2/49.1, II-2/49.2, Regulation X/3.	Regulation II-2/3.8, II-2/3.23.4, II 2/3.23.5, II-2/16.1.1, II-2/32.1.4.3.1, II-2/34.2, II 2/34.3, II-2/49.1, II-2/50.3.1, II-2/34.7 IMO Resolution MSC.36(63) 7.4.3.4 & 7.4.3.6 (1994 HSC Code).	IMO Resolution A.653(16), IMO Resolution MSC.61(67), Annex 1, Parts 2 & 5, and Annex 2. ISO 1716 (1973) ¹ .		X	X	X		
A.1/3.19	Draperies, curtains and other suspended textile materials and films	Regulation II-2/3.23.3, II 2/26.2, Regulation X/3.	Regulation II-2/3.23.3, II-2/26.2, IMO Resolution MSC.36(63) 7.4.3.3.3 (1994 HSC Code).	IMO Resolution MSC.61(67) Annex 1, Part 7		X	X	X		
A.1/3.20	Upholstered furniture	Regulation II-2/3.23.6, II-2/26.2, Regulation X/3.	Regulation II-2/3.23.6, II-2/26.2, II-2/34.6, IMO Resolution MSC.36(63) 7.4.3.3.4 (1994 HSC Code).	IMO Resolution A.652(16), IMO Resolution MSC.61(67) Annex 1, Part 8.		X	X	X		
A.1/3.21	Bedding components	Regulation II-2/3.23.7, II-2/26.2, Regulation X/3.	Regulation II-2/3.23.7, II-2/26.2 IMO Resolution MSC.36(63) 7.4.3.3.5 (1994 HSC Code).	IMO Resolution A.688(17), IMO Resolution MSC.36(67) Annex 1, Part 9.		X	X	X		
A.1/3.22	Fire dampers	Regulation II-2/16.11.1.	Regulation II-2/16, II-2/32, II-2/48.	IMO Resolution A.754(18), IMO Resolution MSC.61(67) Annex 1, Part 3.		X	X	X		
A.1/3.23	Non-combustible duct penetrations through “A” class divisions	Item transferred to A.1/3.26								
A.1/3.24	Electric Cable Transits through “A” class divisions	Item transferred to A.1/3.26								

¹ Where the surface material is required to have a certain maximum calorific value, this shall be measured in accordance with ISO 1716.

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					B+C	B+D	B+E	B+F	G	H
A.1/3.25	Windows and side scuttles	Regulation, II-2/33.	Regulation II-2/33, MSC/Circ.847.	IMO Resolution A.754(18), IMO Resolution MSC.61(67) Annex 1 Part 3, ISO 614 (1989), ISO 1095 (1989), ISO 1751 (1993), ISO 3254 (1989), ISO 3903 (1993), ISO 3904 (1994).		X	X	X		
A.1/3.26	Penetrations through 'A' class divisions by pipes, trunks, etc "new item"	Regulation II-2/18.1.1.	Regulation II-2/18.1.1	IMO Resolution A.754(18), IMO Resolution MSC.61(67) Annex 1, Part 3.		X	X	X		
A.1/3.27	Penetrations through 'B' class divisions by electric cables, pipes, trunks, ducts, ventilation terminals, lighting fixtures etc "new item"	Regulation, II-2/18.1.2.	Regulation II-2/18.1.2.	IMO Resolution A.754(18), IMO Resolution MSC.61(67) Annex 1, Part 3.		X	X	X		
A.1/3.28	Sprinkler systems (limited to sprinkler heads and to the method of automatic sprinkling and signalling) "new item"	Regulation II-2/12.3, II-2/36.1.2, II-2/36.2, II-2/41.2.5 and II-2/52.2.	Regulation II-2/12, II-2/36.1.2, II-2/36.2, II-2/41.2.5 and II-2/52.2.	ISO 6182-1 (1993), ISO 6182-2 (1993), ISO 6182-3 (1993), ISO 6182-4 (1993), ISO 6182-5 (1995).		X	X	X		
A.1/3.29	Fire hoses "new item"	Regulation II-2/4.7.1, Regulation X/3.	Regulation II-2/4.7.1, IMO Resolution MSC.36(63) 7.7.8.5 (1994 HSC Code).	EN 671-2 (1994)		X	X	X		
A.1/3.30	Oxygen analysis and gas detection equipment "new item"	Regulation VI/3.1.	Regulation II-2/59.5, II-2/59.4.4.1, II-2/62.17, II-2/59.5, Regulation VI/3.1, MSC/Circ.774 (Fixed Installations)	EN 50104 (1999) Oxygen, EN 50054 (1991), EN 50057 (1999) Combustible Gases.		X	X	X		
A.1/3.31	Fixed sprinkler systems for high speed craft "new item"	Regulation X/3.	IMO Resolution MSC.36(63) 7.13.1 (1994 HSC Code), MSC/Circ.912.	IMO Resolution MSC.44(65), IMO Resolution A.800(19).		X	X	X	X	

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item No	Item designation	Regulation SOLAS 74 as amended where 'type-approval' is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.1/3.32	Fire restricting materials (except furniture) for high speed craft "new item"	Regulation X/3.	IMO Resolution MSC.36(63) 7.2.2 (1994 HSC Code).	IMO Resolution MSC.40(64), IMO Resolution MSC.90(71).		X	X	X		
A.1/3.33	Fire restricting materials for furniture for high speed craft "new item"	Regulation X/3.	IMO Resolution MSC.36(63) 7.2.2 (1994 HSC Code).	IMO Resolution MSC.40(64), IMO Resolution MSC.90(71).		X	X	X		
A.1/3.34	Fire resisting divisions for high speed craft "new item"	Regulation X/3.	IMO Resolution MSC.36(63) 7.2.1 (1994 HSC Code).	IMO Resolution MSC.45(65).		X	X	X		
A.1/3.35	Fire doors on high speed craft "new item"	Regulation X/3.	IMO Resolution MSC.36(63) 7.2.1, 7.4.2.6 (1994 HSC Code).	IMO Resolution MSC.45(65).		X	X	X		
A.1/3.36	Fire dampers on high speed craft "new item"	Regulation X/3.	IMO Resolution MSC.36(63) 7.6.4 (1994 HSC Code).	IMO Resolution MSC.45(65).		X	X	X		
A.1/3.37	Penetrations through fire resisting divisions on high speed craft by pipes, ducts, controls, electric cables etc "new item"	Regulation X/3.	IMO Resolution MSC.36(63) 7.4.2.6 (1994 HSC Code).	IMO Resolution MSC.45(65).		X	X	X		
Ex A.1/3.35	Portable fire-extinguishing equipment for lifeboats and rescue boats	Regulation III/4, Regulation X/3.	Regulation III/34, IMO Resolution MSC.48 (66), IMO Resolution A.602(15) IMO Resolution MSC.36(63) 8.1.2 (1994 HSC Code).	EN 3-1 (1996), 3-2 (1996), 3-3 (1994), 3-4 (1996), 3-5 (1996) + AC (1997), 3-6 (1995) + A1 (1999).		X	X	X		

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item No	Item designation	Regulation SOLAS 74 as amended where 'type-approval' is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.1/3.39	Alternative arrangements for halon fire extinguishing systems in machinery spaces and pump rooms – equivalent water based fire extinguishing systems "new item"	Regulation II-2/5.3, II-2/63.1.1	Regulation II-2/5.3, II-2/63.1.1	IMO MSC/Circ 668, IMO MSC/Circ.728.	X	X	X	X		

4. Navigation equipment

Notes for annex A.1 section 4 Navigation.

Column 4: ITU Recommendations cited are those referred to in the international conventions and the relevant resolutions and circulars of the IMO

Column 5: Wherever reference is made to EN/IEC 61162, the relevant product testing standard shall be verified to define the applicable part of EN/IEC 61162.

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item No	Item designation	Regulation SOLAS 74 as amended where 'type-approval' is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.1/4.1	Magnetic compass	Regulation V/12(r).	Regulation V/12 (b), IMO Resolution A.382 (X), IMO Resolution A.694 (17).	ISO 449 (1997), ISO 694 (2000), ISO 1069 (1973), ISO 2269 (1992), EN 60945 (1997); ISO 449 (1997), ISO 694 (2000), ISO 1069 (1973), ISO 2269 (1992), IEC 60945 (1996).		X	X	X	X	
A.1/4.2	Transmitting magnetic heading device (previously electro-magnetic compass)	Regulation V/12(r), Regulation X/3.	Regulation V/12 (b), IMO Resolution MSC.86 (70) annex 2, IMO Resolution MSC.36 (63) 13.2 (1994 HSC Code), IMO Resolution A.694 (17).	ISO 11606 (2000), EN 60945 (1997), EN 61162; ISO 11606 (2000), IEC 60945 (1996), IEC 61162.		X	X	X	X	
A.1/4.3	Gyro compass	Regulation V/12 (r).	Regulation V/12 (d), IMO Resolution A.424 (XI), IMO Resolution A.694 (17).	EN ISO 8728 (1997), EN 60945 (1997), EN 61162; ISO 8728 (1997), IEC 60945 (1996), IEC 61162.		X	X	X	X	

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item No	Item designation	Regulation SOLAS 74 as amended where 'type-approval' is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.1/4.11	Loran-C equipment	Regulation V/12(r), Regulation X/3.	Regulation V/12 (p), IMO Resolution MSC.36 (63) 13.6 (1994 HSC Code), IMO Resolution A.694 (17), IMO Resolution A.818 (19).	EN 61075 (1993), EN 60945 (1997) EN 61162; IEC 61075 (1991), IEC 60945 (1996), IEC 61162.		X	X	X	X	
A.1/4.12	Chayka equipment	Regulation V/12 (r), Regulation X/3.	Regulation V/12 (p), IMO Resolution MSC.36 (63) 13.6 (1994 HSC Code), IMO Resolution A.818 (19), IMO Resolution A.694 (17).	EN 61075 (1993), EN 60945 (1997), EN 61162; IEC 61075 (1991), IEC 60945 (1996), IEC 61162.		X	X	X	X	
A.1/4.13	Decca navigator equipment	Item deleted.								
A.1/4.14	GPS equipment	Regulation V/12 (r), Regulation X/3.	Regulation V/12 (p), IMO Resolution MSC.36 (63) 13.6 (1994 HSC Code), IMO Resolution A.819 (19), IMO Resolution A.694 (17),	EN 61108-1 (1996), EN 61162; IEC 61108-1 (1994), IEC 61162.		X	X	X	X	
A.1/4.15	GLONASS equipment	Regulation V/12 (r), Regulation X/3.	Regulation V/12 (p), IMO Resolution MSC.36 (63) 13.6 (1994 HSC Code), IMO Resolution MSC.53 (66), IMO Resolution A.694 (17).	EN 61108-2 (1998), EN 61162; IEC 61108-2 (1998), IEC 60945 (1996), IEC 61162.		X	X	X	X	
A.1/4.16	Heading control system HCS (formerly auto-pilot)	Regulation V/18.7.	Regulation V/19.2.8.2, IMO Resolution A.342 (IX), as amended by IMO Resolution MSC.64 (67) Annex 3, IMO Resolution A.694 (17).	ISO 11674 (2000), EN 60945 (1997), EN 61162; ISO 11674, IEC 60945 (1996), IEC 61162.		X	X	X	X	
A.1/4.17	Mechanical pilot hoist	Regulation V/17 (b).	Regulation V/17 (f), IMO Resolution A.889 (21), IMO MSC/Circ. 773.	ISO 799 (1986).		X	X	X		

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item No	Item designation	Regulation SOLAS 74 as amended where 'type-approval' is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.1/4.18 Ex A.1/1.32	9ghz SAR transponder (SART)	Regulation III/4, Regulation IV/14 & X/3.	Regulation III/6.2.2, Regulation IV/7.1.3, IMO Resolution MSC.36 (63) 8.2.1.2 (1994 HSC Code), IMO Resolution A.530 (13), IMO Resolution A.802 (19), IMO Resolution A.694 (17), ITU-R M.628-3 (11/93).	EN 61097-1 (1993), EN 60945 (1997); IEC 61097-1 (1992), IEC 60945 (1996).		X	X	X		
A.1/4.19	Radar equipment for high speed craft "new item"	Regulation X/3.	IMO Resolution MSC.36 (63) 13.5 (1994 HSC Code), IMO Resolution A.278(VIII) IMO Resolution A.820(19), IMO Resolution A.694 (17), ITU-R M.628-3 (11/93), ITU-R M.1177-1(10/97)	EN 60936-2 (1999), EN 61162; IEC 60936-2 (1998), IEC 61162.		X	X	X		
A.1/4.20 Ex A.1/4.8	Rudder angle indicator	Regulation V/12 (r), Regulation X/3.	Regulation V/12 (m), IMO Resolution MSC.36 (63) 13.7.2 (1994 HSC Code) IMO Resolution A.694 (17).	EN 60945 (1997); IEC 60945 (1996).		X	X	X	X	
A.1/4.21 Ex A.1/4.8	Rpm indicator	Regulation V/12 (r).	Regulation V/12 (m), IMO Resolution A.694 (17).	EN 60945 (1997); IEC 60945 (1996).		X	X	X	X	
A.1/4.22 Ex A.1/4.8	Pitch indicator	Regulation V/12 (r).	Regulation V/12 (m), IMO Resolution A.694 (17).	EN 60945 (1997); IEC 60945 (1996).		X	X	X	X	
A.1/4.23 Ex A.1/1.34	Compass for lifeboats and rescue boats	Regulation III/4, Regulation X/3.	Regulation III/34, IMO Resolution MSC.36 (63) 8.1 (1994 HSC Code), IMO Resolution MSC.48 (66) 4.4.8.5.	ISO 613 (2000), ISO 10316 (1990).		X	X	X		
A.1/4.24	Automatic radar plotting aid (ARPA) for high speed craft "new item"	Regulation X/3.	IMO Resolution MSC.36 (63) 13.5.3 (1994 HSC Code), IMO Resolution A.823 (19). IMO Resolution A.694 (17).	EN 60872-1 (1998), EN 61162; IEC 60872-1 (1998), IEC 61162.		X	X	X		

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item No	Item designation	Regulation SOLAS 74 as amended where 'type-approval' is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.1/4.25	Automatic Tracking Aid (ATA) "new item"	Regulation V/12 (r).	Regulation V/12 (i), IMO Resolution MSC.64 (67) Annex 4 Appendix 1, IMO Resolution A.694 (17).	EN 60872-2 (1999), EN 61162 IEC 60872-2 (1999), IEC 61162.		X	X	X		
A.1/4.26	Automatic Tracking aid (ATA) for high speed craft "new item"	Regulation X/3.	IMO Resolution MSC.36 (63) 13.5.3 (1994 HSC Code), IMO Resolution MSC.64 (67) Annex 4 Appendix 1, IMO Resolution A.694 (17).	EN 60872-2 (1999), EN 61162 IEC 60872-2 (1999), IEC 61162.		X	X	X		
A.1/4.27	Electronic Plotting Aid (EPA) "new item"	Regulation V/12 (r).	Regulation V/12 (i), IMO Resolution MSC.64 (67) Annex 4 Appendix 2, IMO Resolution A.694 (17).	EN 60872-3 (1999), EN 61162 IEC 60872-3 (1999), IEC 61162.		X	X	X		

5. Radio-communication equipment

Notes for annex A.1 section 5 Radio -communication.

Column 4: ITU Recommendations cited are those referred to in the international conventions and the relevant resolutions and circulars of the IMO.

Column 5: In case of conflicting requirements between IMO MSC/Circ 862, cited for several items, and the product testing standards, the IMO MSC/Circ 862 requirements shall take precedence.

Column 5: Wherever reference is made to EN/IEC 61162, the relevant product testing standard shall be verified to define the applicable part of EN/IEC 61162.

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item N°	Item designation	Regulation SOLAS 74 as amended where ‘type-approval’ is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO.	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.1/5.1	VHF radio capable of transmitting and receiving DSC and radiotelephony	Regulation IV/14, Regulation X/3.	Regulation IV/7.1.1, IMO Resolution MSC.36 (63) 14.6.1.1 (1994 HSC Code), IMO Resolution A.385 (X), IMO Resolution A.524 (13), IMO Resolution A.803 (19) as amended by IMO Resolution MSC.68 (68) annex 1, IMO Resolution A.694 (17), ITU-R M.489-2 (10/95), ITU-R M.493-9 (10/97), ITU-R M.541-8 (10/97), ITU-R M.689-2 (11/93), IMO MSC/Circ 862.	ETS 300 162-1 (2000-12), EN 300 338 (V1.2.1 1999.04), EN 300 828 (V1.1.1 1998-03), IMO MSC/Circ 862, EN 61162; IEC 61097-3 (1994), IEC 61097-7 (1996), IEC 60945 (1996), IMO MSC/Circ 862, IEC 61162.		X	X	X	X	

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item N°	Item designation	Regulation SOLAS 74 as amended where ‘type-approval’ is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO.	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.1/5.2	VHF DSC watch-keeping receiver	Regulation IV/14, Regulation X/3.	Regulation IV/7.1.2, IMO Resolution MSC.36 (63) 14.6.1.2 (1994 HSC Code), IMO Resolution A.803 (19), IMO Resolution MSC.68 (68) Annex 1, IMO Resolution A.694 (17), ITU R M 489-2 (10/95), ITU-R.M 493-9 (10/97), ITU-R M 541-8 (10/97).	EN 300 338 (V1.2.1 1999-04), EN 301 033 (V1.1.1 1998-08), EN 300 828 (V1.1.1 1998-03), EN 60945 (1997); IEC 61097-3 (1994), IEC 61097-8 (1998), IEC 60945 (1996).		X	X	X	X	
A.1/5.3	NAVTEX receiver	Regulation IV/14, Regulation X/3.	Regulation IV/7.1.4, IMO Resolution MSC.36 (63) 14.6.1.4 (1994 HSC Code), IMO Resolution A.525 (13), IMO Resolution A.694 (17), ITU-R M 540-2 (06/90), ITU-R M 625-3 (10/95).	ETS 300 065 V 1.1.3 (2001-5), EN 301 011 V1.1.1 (1998-09); IEC 61097-6 (1995), IEC 60945 (1996)		X	X	X	X	
A.1/5.4	EGC receiver	Regulation IV/14, Regulation X/3.	Regulation IV/7.1.5, IMO Resolution MSC.36 (63) 14.6.1.5 (1994 HSC Code), IMO Resolution A.570 (14), IMO Resolution A.664 (16), IMO Resolution A.694 (17).	ETS 300 460 Ed.1 (1997-11) +A1 (1997-11), EN 300 829 V1.1.1 (1998-03); IEC 61097-4 (1994), IEC 60945 (1996).		X	X	X	X	

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item N°	Item designation	Regulation SOLAS 74 as amended where ‘type-approval’ is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO.	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.1/5.5	HF marine safety information (MSI) equipment (HF NBDP receiver)	Regulation IV/14, Regulation X/3.	Regulation IV/7.1.5, IMO Resolution MSC.36 (63) 14.6.1.5 (1994 HSC Code), IMO Resolution A.699(17), IMO Resolution A.700 (17), IMO Resolution A.806 (19), IMO Resolution A.694 (17), 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).	ETS 300 067 Ed.1 (1992-09) +A1 (1998-09), EN 60945 (1997), EN 61162; IEC 61097-11 (2000), EN 61162.		X	X	X	X	
A.1/5.6	406 MHz (COSPAS-SARSAT)	Regulation IV/14, Regulation X/3.	Regulation IV/7.1.6, IMO Resolution MSC.36 (63) 14.6.1.6 (1994 HSC Code), IMO Resolution A.662 (16), IMO Resolution A.696 (17), IMO Resolution A.810 (19) as amended by IMO Resolution MSC.56 (66), IMO Resolution A.694 (17), ITU-R M633-1 (06/90), ITU-R M.690-1 (10/95), IMO MSC/Circ 862.	ETS 300 066 V 1.3.1 (2001-01), EN 60945 (1997), MSC/Circ 862 ¹ ; IEC 61097-2 (1994), IEC 60945 (1996), MSC/Circ 862.		X	X	X	X	
A.1/5.7	L-band EPIRB (INMARSAT)	Regulation IV/14, Regulation X/3.	Regulation IV/7.1.6, IMO Resolution MSC.36 (63) 14.6.1.6 (1994 HSC Code), IMO Resolution A.662 (16), IMO Resolution A.812 (19), IMO Resolution A.694 (17), ITU-R M.632-3 (02/97), ITU-R M.690-1 (10/95), IMO MSC/Circ 862.	ETS 300 372 Ed.1 (1996-05), EN 60945 (1997), MSC/Circ 862 ¹ ; IEC 61097-5 (1997), MSC/Circ 862.		X	X	X	X	

¹ IMO MSC/Circ 862 is applicable only to the optional remote activation device, not to the EPIRB itself.

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item N°	Item designation	Regulation SOLAS 74 as amended where ‘type-approval’ is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO.	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.1/5.8	2182 kHz watch receiver	Item deleted								
A.1/5.9	Two-tone alarm generator	Item deleted								
A.1/5.10	MF radio capable of transmitting and receiving DSC and radiotelephony ¹	Regulation IV/14, Regulation X/3.	Regulation IV/9.1.1, IV/10.1.2, IMO Resolution MSC.36 (63) 14.8.1.1 (1994 HSC Code), IMO Resolution A.804 (19) as amended by IMO Resolution MSC.68 (68) Annex 2, IMO Resolution A.694 (17), ITU-R M 1173 (10/95) ITU-R M 493-9 (10/97), ITU-R M 541-8 (10/97).	ETS 300 338 V1.2.1 (1999-04), ETS 300 373 ed.1 (1995-08) + A1 (1997-08), EN 60945 (1997), MSC/Circ 862, EN 61162; IEC 61097-3 (1994), IEC 61097-9 (1997), IEC 60945 (1996), MSC/Circ 862, IEC 61162.		X	X	X	X	
A.1/5.11	MF DSC watch-keeping receiver	Regulation IV/14, Regulation X/3.	Regulation IV/9.1.2, Regulation IV/10.1.3, IMO Resolution MSC.36 (63) 14.8.1.2 (1994 HSC Code), IMO Resolution A.804 (19) as amended by IMO Resolution MSC.68 (68) Annex 2, IMO Resolution A.694 (17), ITU R M 493-9 (10/97), ITU R M.541-8 (10/97), ITU R.M.1173 (10/95).	EN 301 033 V1.1.1 (1998-08), ETS 300 338 V1.2.1 (1999-04), EN 60945 (1997); IEC 61097-3 (1994), IEC 61097-8 (1998), IEC 60945 (1996)		X	X	X	X	

¹ In line with IMO and ITU decisions, the requirements for Two Tone Alarm generator and transmission on H3E are not applicable anymore in the testing standards.

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item N°	Item designation	Regulation SOLAS 74 as amended where ‘type-approval’ is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO.	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.1/5.12	Inmarsat -B SES	Regulation IV/14, Regulation X/3.	Regulation IV/10.1.1, IMO Resolution MSC.36 (63) 14.9.1.1 (1994 HSC Code), IMO Resolution A.570 (14), IMO Resolution A.808 (19), IMO Resolution A.694 (17), IMO MSC/Circ 862.	IEC 61097-10 (1999), MSC/Circ. 862.		X	X	X	X	
A.1/5.13	Inmarsat -C SES	Regulation IV/14, Regulation X/3.	Regulation IV/10.1.1, IMO Resolution MSC.36 (63) 14.9.1.1 (1994 HSC Code), IMO Resolution A.570 (14), IMO Resolution A.664 (16) ¹ , IMO Resolution A.807 (19) as amended by IMO Resolution MSC.68 (68) Annex 4, IMO Resolution A.694 (17), IMO MSC/Circ 862.	ETS 300 460 ed.1 (1996-05) +A1 (1997-11), EN 300 829 V1.1.1 (1998-03), EN 61162, MSC/Circ. 862; IEC 61097-4 (1994), IEC 60945 (1996), IEC 61162, MSC/Circ. 862.		X	X	X	X	
A.1/5.14	MF/HF radio capable of transmitting and receiving DSC, NBDP and radiotelephony ²	Regulation IV/14, Regulation X/3.	Regulation IV/ 10.2.1, IMO Resolution MSC.36 (63) 14.9.2.1 (1994 HSC Code), IMO Resolution A.806 (19) as amended by IMO Resolution MSC.68 (68) Annex 3, IMO Resolution A.694 (17), ITU-R M.476-5 (10/95), ITU-R M.491-1 (07/86), ITU-R M.492-6 (10/95), ITU-R M.493-9 (10/97), ITU-R M.541-8 (10/97), ITU-R.M.625-3 (10/95), ITU-R.M.1173 (10/95), IMO MSC/Circ. 862.	ETS 300 373 ed.1 (1995-08) + A1 (1997-08), EN 300 338 V1.2.1 (1999-04), ETS 300 067 Ed.1 (1992-09) +A1 (1998-09), EN 60945 (1997), EN 61162, MSC/Circ 862; IEC 61097-3 (1994), IEC 61097-9 (1997), IEC 61097-11 (2000), IEC 60945 (1996), IEC 61162, MSC/Circ. 862.		X	X	X	X	

¹ Applicable only if the Inmarsat C SES comprises the EGC functions.

² In line with IMO and ITU decisions, the requirements for the two tone alarm generator and transmission A3H are no more valid in the testing standards.

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item N°	Item designation	Regulation SOLAS 74 as amended where ‘type-approval’ is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO.	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.1/5.15	MF/HF DSC watch keeping receiver	Regulation IV/14, Regulation X/3.	Regulation IV/10.2.2, IMO Resolution MSC.36 (63) 14.9.2.2 (1994 HSC Code), IMO Resolution A.806 (19) as amended by IMO Resolution MSC.68 (68) Annex 3, IMO Resolution A.694 (17), ITU-R M.493-9 (10/97), ITU-R.M 541-8 (10/97).	EN 301 033 V1.1.1 (1998-08), ETS 300 338 V1.2.1 (1999-04), EN 60945 (1997); IEC 61097-3 (1994), IEC 61097-8 (1998), IEC 60945 (1996)		X	X	X	X	
A.1/5.16	Aeronautical two way VHF radio telephone apparatus	Regulation IV/14, Regulation X/3.	Regulation IV/7.5, IMO Resolution MSC.36 (63) (1994 HSC Code), IMO Resolution MSC.80 (70) Annex 1 and2; IMO Resolution A.694 (17), ICAO Convention, Annex 10, Radio Regulations.	EN 301 688 V1.1.1 (2000-07), EN 60945 (1997); EN 301 688 V1.1.1 (2000-07), IEC 60945(1996).		X	X	X	X	
A.1/5.17 Ex A.1/31	Portable Survival craft two-way VHF radiotelephone apparatus.	Regulation III/4, Regulation X/3.	Regulation III/6.2.1, IMO Resolution MSC.36 (63) (1994 HSC Code), IMO Resolution A.809 (19) annex 1, IMO Resolution A.694 (17), ITUR M.489-2 (10/95), ITU-R M.542.1 (07/82).	ETS 300 225 Ed 3 (1998-01), EN 300 828 V1.1.1 (1998-03), EN 60945 (1997); IEC 61097-12 (1996), IEC 60945 (1996).		X	X	X	X	
A.1/5.18 Ex A.1/31	Fixed Survival craft two-way VHF radiotelephone apparatus.	Regulation III/4, Regulation X/3.	Regulation III/6.2.1, IMO Resolution MSC.36 (63) (1994 HSC Code), IMO Resolution A.809 (19) annex 2, IMO Resolution A.694 (17), ITUR M.489-2 (10/95).	EN 301 466 (2000-11), EN 60945 (1997); EN 301 466 (2000-11), IEC 60945 (1997).		X	X	X	X	

Annex A.2 Equipment for which no detailed testing standards exist in international instruments

1. Life-saving appliances

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item N°	Item designation	Regulation SOLAS 74 as amended where ‘type-approval’ is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO.	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.2/1.1	Radar reflector for liferafts	Regulation III/4, III/34, Regulation X/3, IMO Resolution MSC 48 (66).								
A.2/1.2	Immersion suit materials	Regulation III/4, III/34, IMO Resolution MSC 48 (66).								
A.2/1.3 ex A.1/1.22	Float-free launching appliances for survival craft	Regulation III/34, IMO Resolution MSC 48 (66).								

2. Marine-pollution prevention

P.M.

3. Fire protection

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item N°	Item designation	Regulation SOLAS 74 as amended where ‘type-approval’ is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO.	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.2/3.1	Non-portable and transportable extinguishers	Regulation II-2/6.1, II-2/7.1.3, II-2/7.2.3, II-2/ 7.3.1, Regulation X/3.	Regulation II-2/6.1 , II-2/7.1.3, II-2/7.2.3, II-2/ 7.3.1, IMO Resolution MSC.36(63) 7.5.6.11.2, 7.5.6.11.3 (1994 HSC Code).	EN 1866 (1998) ISO 11601 (1999).						

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item N°	Item designation	Regulation SOLAS 74 as amended where ‘type-approval’ is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO.	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.2/3.2	Nozzles for fixed pressure water-spraying fire-extinguishing systems for special category spaces	Regulation II-2/37.1.3, II 2/54.2.9, Regulation X/3.	Regulation II-2/37.1.3, II-2/54.2.9, IMO Resolution MSC.36 (63) 7.8.2 (1994 HSC Code).	IMO Resolution A 123 (V) (Performance) IMO MSC/Circular 914.						
A.2/3.3	Cold-weather starting of generator sets (starting devices)	Regulation II-1/44.2, Regulation X/3.	Regulation II-1/44.2, IMO Resolution MSC.36(63) 12.4 (1994 HSC Code).							
A.2/3.4	Dual purpose type nozzles (spray/jet type)	Regulation II-2/4.8.4, II -2/41-2.1.5, Regulation X/3.	Regulation II-2/4.8.4, II-2/41-2.1.5 IMO Resolution MSC.36(63) 7.7.8.6 (1994 HSC Code).							
A.2/3.5	Fixed fire detection and fire alarm systems for control stations, service spaces, accommodation spaces, machinery spaces and unattended machinery spaces	Regulation II-2/13, II-2/14.1 Regulation X/3.	Regulation II-2/13, II-2/14.1 IMO Resolution MSC.36 (63) 7.7.1 (1994 HSC Code).	EN 54-2 (1997) + AC (1999) EN 54-4 (1997) + AC(1999).						
A.2/3.6	Smoke detectors	Regulation II-2/13.3.2, Regulation X/3.	Regulation II-2/13.3.2, IMO Resolution MSC.36(63) 7.7.1 (1994 HSC Code).	EN 54-7 (2000), pr EN 54-12, pr EN 54-15.						
A.2/3.7	Heat detectors	Regulation II-2/13.3, Regulation X/3.	Regulation II-2/13.3.3, IMO Resolution MSC.36(63) 7.7.1 (1994 HSC Code).	EN 54-5 (2000), EN 54-6 (1982) + A1 (1998), pr EN 54-15.						
A.2/3.8	Electric safety lamp	Regulation II-2/17.1.1.4, Regulation X/3.	Regulation II-2/17.1.1.4, IMO Resolution MSC.36(63) 7.10.3.1.4 (1994 HSC Code),	IEC Publication 79						
A.2/3.9	Protective clothing resistant to chemical attack	Regulation II-2/54.2.6.1	Regulation II-2/54.2.6.1	EN 368 (1992), EN 369 (1993), EN 463 (1994).						
A.2/3.10	Low-location lighting systems	Regulation II-2/28.1.10, II-2/28.1.11, II-2/41-2.4.7	Regulation II-2/28.1.10, II-2/28.1.11, II-2/41-2.4.7	IMO Resolution A.752 (18), ISO/CD 15370.						

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item N°	Item designation	Regulation SOLAS 74 as amended where ‘type-approval’ is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO.	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.2/3.11 ex A.1/3.10	Nozzles for fixed pressure water spraying fire extinguishing systems for machinery spaces	Regulation II-2/10.1, Regulation X/3.	Regulation II-2/10.1, IMO Resolution MSC.36(63) 7.7.4 (1994 HSC Code).							
A.2/3.12	Equivalent fixed gas fire extinguishing systems for machinery spaces and cargo pump rooms	Regulation II-2/5.1.12, Regulation X/3.	Regulation II-2/5.1.12, IMO Resolution MSC.36(63) 7.7.6.1 (1994 HSC Code).	IMO MSC/Circ. 848.						
A.2/3.13	Compressed airline breathing apparatus	Regulation II-2/17.1.2, Regulation X/3.	Regulation II-2/17.1.2, IMO Resolution MSC.36 (63) 7.10.3.2.1 (1994 HSC Code).	EN 139 (1994) + AC (1995) + A1 (1999).						
A.2/3.14	Fire hoses (reel type)	Regulation II-2/4.7.1, Regulation X/3.	Regulation II-2/4.7.1, IMO Resolution MSC.36 (63) 7.7.8.5 (1994 HSC Code).	EN 671-1 (1994)						
A.2/3.15	Sample extraction smoke detection systems	Regulation II-2/13-1	Regulation II-2/13-1							
A.2/3.16	Flame detectors	Regulation II-2/13, Regulation X/3.	Regulation II-2/13, IMO Resolution MSC.36 (63) 7.7.1 (1994 HSC Code).	Pr EN 54-10						
A.2/3.17	Manual call points	Regulation II-2/13, Regulation X/3.	Regulation II-2/13, IMO Resolution MSC.36 (63) 7.7.1 (1994 HSC Code).	Pr EN 54-11						

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item N°	Item designation	Regulation SOLAS 74 as amended where ‘type-approval’ is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO.	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.2/3.18	Alarm devices	Regulation II-2/13, Regulation X/3.	Regulation II-2/13, IMO Resolution MSC.36 (63) 7.7.1 (1994 HSC Code).	Pr EN 54-3 (2000).						
A.2/3.19	Fixed water based local application fire fighting systems for use in category ‘A’ machinery spaces.	Regulation II-2/7.7 ¹ .	Regulation II-2/7.7.	IMO MSC/Circ. 913.						

¹ Reference to SOLAS Chapter II is to SOLAS 1974 as amended by MSC 73 and entering into force on July 1st 2002.

4. Navigation equipment

Notes for annex A.2 section 4 Navigation equipment.

Column 3 and 4: References to SOLAS Ch V are to SOLAS 1974 as amended by MSC 73 and entering into force on July 1st 2002.

Column 4: ITU Recommendations cited are those referred to in the international conventions and the relevant resolutions and circulars of the IMO

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item N°	Item designation	Regulation SOLAS 74 as amended where 'type-approval' is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.2/4.1	Gyro compass for high speed craft	Regulation X/3, IMO Resolution MSC.97 (73) 13.17.4 (2000 HSC Code).	IMO Resolution MSC.97 (73) 13.2.6 (2000 HSC Code), IMO Resolution A.821 (19), IMO Resolution A.694 (17).	Future EN/ISO 16328, EN 60945 (1997), EN 61162; ISO 16328 (1999) IEC 60945 (1996), IEC 61162.		X	X	X		
A.2/4.2	Heading control system for high speed craft (formerly auto-pilot)	Regulation X/3, IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code).	IMO Resolution MSC.97 (73) 13.12 (2000 HSC Code), IMO Resolution A.822 (19), IMO Resolution A.694 (17).	ISO project 16329, EN 60945 (1997), EN 61162; ISO project 16329, IEC 60945 (1996), IEC 61162.		X	X	X		
A.2/4.3	Transmitting heading device THD (GNSS method) (formerly electromagnetic compass).	Regulation V/18.1, Regulation X/3, IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code).	Regulation V/19.2.5.1, IMO Resolution MSC.97 (73) 13.2.5 (2000 HSC Code), IMO Resolution A.382 (X), IMO Resolution MSC.116 (73), IMO Resolution A.694 (17).	Future ISO 22090-X, EN 60945 (1997), EN 61162; Future ISO 22090-X, IEC 60945 (1996), IEC 61162.		X	X	X		
A.2/4.4	Daylight signalling lamp	Regulation V/18.1, Regulation X/3, IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code).	Regulation V/19.2.2.2, IMO Resolution MSC.95 (72), IMO Resolution MSC.97(73) 13.9 (2000 HSC Code), IMO Resolution A.694 (17).	EN 60945 (1997); IEC 60945 (1996).		X	X	X		

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item N°	Item designation	Regulation SOLAS 74 as amended where ‘type-approval’ is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.2/4.5	Searchlight for high speed craft	Regulation X/3, IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code).	IMO Resolution MSC.97 (73) 13.9 (2000 HSC Code), IMO Resolution A.694 (17).	EN 60945 (1997), EN 61162; IEC 60945 (1996) IEC 61162.		X	X	X		
A.2/4.6	Night vision equipment for high speed craft	Regulation X/3, IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code).	IMO Resolution MSC.97 (73) 13.10 (2000 HSC Code), IMO Resolution MSC.94 (72), IMO Resolution A.694 (17).	Future EN 16273, EN 60945 (1997), EN 61162; Future ISO 16273, IEC 60945 (1996), IEC 61162.		X	X	X		
A.2/4.7	Track control system	Regulation V/18.7, IMO Resolution MSC.97 (73) 13.17.4 (2000 HSC Code).	Regulation V/19.2.8.2, IMO Resolution MSC.97 (73) 13.12 (2000 HSC Code) IMO Resolution MSC.74 (69) Annex 2, IMO Resolution A.694 (17).	Future EN 62065, EN 60945 (1997), EN 61162; Future IEC 62065, IEC 60945 (1996), IEC 61162.		X	X	X		
A.2/4.8	Electronic Chart Display and Information System (ECDIS).	Regulation V/18.1, Regulation X/3, IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code).	Regulation V/19.2.1.4, IMO Resolution MSC.97 (73) 13.8 (2000 HSC Code) IMO Resolution A.817 (19) as amended by IMO Resolution MSC.64 (67) Annex 5 and by IMO Resolution MSC.86 (70) Annex 4, IMO Resolution A.694 (17).	Future EN 61174 (2001), EN 60945 (1997), EN 61162; Future IEC 61174 (2001), IEC 60945 (1996), IEC 61162.		X	X	X		
A.2/4.9	Electronic Chart Display and Information System (ECDIS) backup	Regulation V/18.1, Regulation X/3, IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code).	Regulation V/19.2.1.5, IMO Resolution MSC.97 (73) 13.8 (2000 HSC Code), IMO Resolution A.817 (19) as amended by IMO Resolution MSC.64 (67) Annex 5 and by IMO Resolution MSC.86 (70) Annex 4, IMO Resolution A.694 (17).	Future EN 61174 (2001), EN 60945 (1997), EN 61162; Future IEC 61174 (2001), IEC 60945 (1996), IEC 61162.		X	X	X		

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item N°	Item designation	Regulation SOLAS 74 as amended where ‘type-approval’ is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.2/4.10	Raster Chart Display System (RCDS)	Regulation V/18.1, Regulation X/3, IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code).	Regulation V/19.2.1.4, IMO Resolution MSC.97 (73) 13.8 (2000 HSC Code), IMO Resolution A.817 (19) as amended by IMO Resolution MSC.64 (67) Annex 5 and by IMO Resolution MSC.86 (70) Annex 4, IMO Resolution A.694 (17).	Future EN 61174, EN 60945 (1997), EN 61162; Future IEC 61174, IEC 60945 (1996), IEC 61162.		X	X	X		
A.2/4.11	Combined GPS/GLONASS equipment	Regulation V/18.1, Regulation X/3, IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code).	Regulation V/19.2.1.6, IMO Resolution MSC.97 (73) 13.6 (2000 HSC Code), IMO Resolution MSC.74 (69) Annex 1, IMO Resolution A.694 (17).	Future EN 61108-3, EN 60945 (1997), EN 61162; Future IEC 61108-3, IEC 60945 (1996), IEC 61162.		X	X	X		
A.2/4.12	DGPS, DGLONASS-equipment	Regulation V/18.1, Regulation X/3, IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code).	Regulation V/19.2.1.6, IMO Resolution MSC.97 (73) 13.6 (2000 HSC Code), IMO Resolution MSC.64 (67) Annex 2, IMO Resolution A.694 (17).	Future EN 61108-4, EN 60945 (1997), EN 61162; Future IEC 61108-4, IEC 60945 (1996), IEC 61162.		X	X	X		
A.2/4.13	Universal Automatic Identification System equipment (AIS)	Regulation V/18.1, Regulation X/3, IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code).	Regulation V/2.4, IMO Resolution MSC.74 (69) Annex 3, IMO Resolution MSC.97 (73) 13.15 (2000 HSC Code), IMO Resolution A.694 (17), ITUR. M. 1371-1 (10/00).	Future EN 61993-2, EN 60945 (1997), EN 61162; Future IEC 61993-2, IEC 60945 (1996), IEC 61162.						
A.2/4.14	Voyage data recorder	Regulation V/18.1, Regulation X/3, IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code).	Regulation V/20, IMO Resolution A.861 (20), IMO Resolution MSC.97 (73) 13.16 (2000 HSC Code), IMO Resolution A.694 (17).	EN 61996 (2000), EN 60945 (1997), EN 61162; IEC 61996 (2000), IEC 60945 (1996), IEC 61162.						

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item N°	Item designation	Regulation SOLAS 74 as amended where ‘type-approval’ is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.2/4.15	Integrated Navigation system	Regulation V/18.7, Regulation X/3, IMO Resolution MSC.97 (73) 13.17.4 (2000 HSC Code).	Regulation V/19.6, IMO Resolution MSC.86 (70) Annex 3, IMO Resolution A.694 (17).	Future EN 61924 , EN 60945 (1997), EN 61162; Future IEC 61924, IEC 60945 (1996), IEC 61162.						
A.2/4.16	Integrated bridge system	Regulation V/18.7, Regulation X/3, IMO Resolution MSC.97 (73) 13.17.4 (2000 HSC Code).	Regulation V/19.6, IMO Resolution MSC64 (67) Annex 1, IMO Resolution A.694 (17).	EN 61209 (1999), EN 60945 (1997), EN 61162; IEC 61209 (1999), IEC 60945 (1996), IEC 61162.						
A.2/4.17	Radar target enhancer	Regulation V/18.7, Regulation X/3, IMO Resolution MSC.97 (73) 13.17.4 (2000 HSC Code).	ITU-R M 1176-(10/95), IMO Resolution A.694 (17).	EN 60945 (1997); IEC 60945 (1996).						
A.2/4.18	Sound reception system	Regulation V/18.1, Regulation X/3, IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code).	Regulation V/19.2.1.8, IMO Resolution MSC.97 (73) 13.14 (2000 HSC Code), IMO Resolution MSC.86 (70) Annex 1, IMO Resolution A.694 (17).	EN 60945 (1997), EN 61162; IEC 60945 (1996), IEC61162.						
A.2/4.19	Magnetic compass for high speed craft	Regulation X/3, IMO Resolution MSC.97 (73) 13.1.2 (2000 HSC Code).	IMO Resolution MSC.97 (73) 13.2 (2000 HSC Code), IMO Resolution A.382 (X), IMO Resolution A.694 (17).	ISO 449 (1997), ISO 694 (2000), ISO 1069 (1973), ISO 2269 (1992), EN 60945 (1997); ISO 449 (1997), ISO 694 (2000), ISO 1069 (1973), ISO 2269 (1992), IEC 60945 (1996).						
A.2/4.20	Track control system for high-speed craft.	IMO Resolution MSC.97 (73) 13.17.4 (2000 HSC Code).	IMO Resolution MSC.97 (73) 13.12 (2000 HSC Code), IMO Resolution A.694 (17).	EN 60945 (1997), EN 61162; IEC 60945 (1996), IEC61162.						

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item N°	Item designation	Regulation SOLAS 74 as amended where ‘type-approval’ is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.2/4.21	Chart facilities for shipborne radar	Regulation V/18.1, Regulation X/3, IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code)	Regulation V/19.2.3.2, IMO Resolution MSC.97 (73) 13.2 (2000 HSC Code), IMO Resolution A.817 (19) as amended by IMO Resolution MSC.64 (67) Annex 5, IMO Resolution A.477 (XII) as amended by IMO Resolution MSC.64 (67) Annex 4, IMO Resolution A.694 (17).	Future EN 60936-3 (2001), EN 60945 (1997), EN 61162; Future IEC 60936-3 (2001), IEC 60945 (1996), IEC 61162.						
A.2/4.22	Transmitting heading device THD (Gyroscopic method)	Regulation V/18.1, Regulation X/3, IMO Resolution MSC.97 (73) 13.1.2 (2000 HSC Code).	Regulation V/19.2.3.5, IMO Resolution MSC.97 (73) 13.2 (2000 HSC Code), IMO Resolution MSC.116 (73), IMO Resolution A.694 (17).	Future ISO 22090-1, EN 60945 (1997), EN 61162; Future ISO 22090-1, IEC 60945 (1996), IEC 61162.		X	X	X		
A.2/4.23	Transmitting heading device THD (Magnetic method)	Regulation V/18.1, Regulation X/3, IMO Resolution MSC.97 (73) 13.1.2 (2000 HSC Code).	Regulation V/19.2.3.5, IMO Resolution MSC.97 (73) 13.2 (2000 HSC Code), IMO Resolution MSC.86 (70) Annex 2, IMO Resolution MSC.116 (73), IMO Resolution A.694 (17).	Future ISO 22090-2, EN 60945 (1997), EN 61162; Future ISO 22090-2, IEC 60945 (1996), IEC 61162.						
A.2/4.24	Thrust indicator	Regulation V/18.1, Regulation X/3, IMO Resolution MSC.97 (73) 13.1.2 (2000 HSC Code).	Regulation V/19.2.5.4, IMO Resolution MSC.97 (73) 13.7.2 (2000 HSC Code), IMO Resolution A.694 (17).							
A.2/4.25	Lateral thrust, pitch and mode indicators	Regulation V/18.1, Regulation X/3, IMO Resolution MSC.97 (73) 13.1.2 (2000 HSC Code).	Regulation V/19.2.5.4, IMO Resolution MSC.97 (73) 13.11.2 (2000 HSC Code), IMO Resolution A.694 (17).							

5. Radio-communication equipment

Notes for annex A.2 section 5 Radio -communication.

Column 4: ITU Recommendations cited are those referred to in the international conventions and the relevant resolutions and circulars of the IMO.

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item N°	Item designation	Regulation SOLAS 74 as amended where ‘type-approval’ is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.2/5.1	VHF EPIRB	Regulation IV/14, Regulation X/3.	Regulation IV/8.3 IMO Resolution MSC.97 (73) 14.8.3 (2000 HSC Code), IMO Resolution A.662 (16), IMO Resolution A.805 (19), IMO Resolution A.694 (17), ITUR M.489-2 (10/95), ITU-R M 693 (06/90).	EN 60945 (1997); IEC 60945 (1996).						
A.2/5.2	Radio reserve source of energy	Regulation IV/14, Regulation X/3.	Regulation IV/13.2, IMO Resolution MSC.97 (73) 14.13 (2000 HSC Code), COMSAR Circ. 16, IMO Resolution A.694 (17).	Future EN 61097-14; Future IEC 61097-14.						
A.2/5.3	Inmarsat -F SES	Regulation IV/14, Regulation X/3.	Regulation IV/10.1.1, IMO Resolution MSC.97 (73) 14.10.1 (2000 HSC Code), IMO Resolution A.570 (14), IMO Resolution A.808 (19), IMO Resolution A.694 (17), IMO MSC/Circ 862.	Future IEC 61097-13, IMO MSC/Circ 862.						
A.2/5.4	Distress panel	Regulation IV/14, Regulation X/3.	Regulation IV/6.6, IMO Resolution MSC.97 (73) 14.6.4 (2000 HSC Code).							

6. Equipment required under COLREG 72

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item N°	Item designation	Regulation COLREG 72 as amended where ‘type-approval’ is required	Applicable regulations of COLREG 72, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.2/6.1	Navigation lights	Annex I/14	Annex I/14, IMO Resolution A.694(17).	EN 60945 (1997), Colreg 72 Annex I (Performance) IEC 60945 (1996);,Colreg 72 Annex I (Performance)						
A.2/6.2	Sound signal appliances	Annex III/3	Annex III/3 IMO Resolution A.694(17).	EN 60945 (1997),Whistles – Colreg 72 Annex III/1 (Performance)Bells or Gongs - Colreg 72 Annex III/2 (Performance) IEC 60945 (1996), Whistles – Colreg 72 Annex III/1 (Performance), Bells or Gongs - Colreg 72 Annex III/2 (Performance)						

7. Bulk carrier safety equipment

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6					
Item N°	Item designation	Regulation SOLAS 74 as amended where ‘type-approval’ is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B+C	B+D	B+E	B+F	G	H
A.2/7.1	Loading instrument	Regulation XII/11, 1997 SOLAS Conference Resolution 5	Regulation XII/11, 1997 SOLAS Conference Resolution 5.	IACS Recommendation No. 48 on loading instruments (SOLAS/CONF.4/7)						