

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 specific testing standard applied and its version, as identified in column 5.
- Column 5: Where two sets of testing standards are indicated (separated by a “;” or separated by a “or”), each set fulfils all the testing requirements to meet IMO Performance Standards. Thus testing to one set 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*Notes applicable to section 1: Life saving appliances*

Columns 3 and 4: Where these columns are split into two levels for a particular item designator, the upper level refers where applicable to vessels constructed under the HSC Code prior to 1 July 2002, and the lower box refers to vessels where applicable operating under the HSC Code on or after 1 July 2002.

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
1	2	3	4	5	6					
A.1/1.1	Lifebuoys	Regulation III/4, Regulation X/3	Regulation III/7.1 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1.3, 8.3 (1994 HSC Code)	IMO Resolution MSC.81 (70)		X	X	X		
		Regulation III/4, Regulation X/3	Regulation III/7.1 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.97(73) 8.1, 8.3 (2000 HSC Code)							

1	2	3	4	5	6					
A.1/1.2	Position-indicating lights for life-saving appliances (a) For survival craft and rescue boats (b) For lifebuoys (c) For lifejackets	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 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1, 8.3 and 8.10 (1994 HSC Code), IMO MSC/Circ. 885	IMO Resolution MSC.81 (70), except for battery requirements as specified in EN 394 (1993) which only apply to lifejacket lights		X	X	X		
		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 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.97(73), 8.1, 8.3, 8.10 (2000 HSC Code), IMO MSC/Circ. 885							
A.1/1.3	Lifebuoys self-activating smoke signals	Regulation III/4, Regulation X/3	Regulation III/7.1.3 and 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		
		Regulation III/4, Regulation X/3	Regulation III/7.1.3 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.97(73) 8.1, 8.3 (2000 HSC Code)							
A.1/1.4	Lifejackets	Regulation III/4, Regulation X/3	Regulation III/7.2 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1, 8.3 (1994 HSC Code)	IMO Resolution MSC.81(70), except for battery requirements as specified in EN 394 (1993) which only apply to lifejacket lights		X	X	X		
		Regulation III/4, Regulation X/3	Regulation III/7.2 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC. 97(73) 8.1, 8.3 (2000 HSC Code)							
A.1/1.5	Immersion suits and anti-exposure suits — insulated or not insulated	Regulation III/4, Regulation X/3	Regulation III/7.3, III/22.4, III/32.3 and 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		
		Regulation III/4, Regulation X/3	Regulation III/7.3, III/22.4, III/32.3 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC 97(73) 8.1, 8.3 (2000 HSC Code)							

1	2	3	4	5	6					
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 and 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		
		Regulation III/4, Regulation X/3	Regulation III/7.3, III/22.4, III/32.3 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.97(73) 8.1, 8.3 (2000 HSC Code)							
A.1/1.7	Thermal protective aids	Regulation III/4	Regulation III/7.3, III/22.4, III/32.3 and 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 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1, 8.2 (1994 HSC Code)	IMO Resolution MSC.81(70)		X		X		
		Regulation III/4, Regulation X/3	Regulation III/6.3 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC 97(73) 8.1, 8.2 (2000 HSC Code)							
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 and 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		
		Regulation III/4, Regulation X/3	Regulation III/18 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.97(73) 8.1, 8.8 (2000 HSC Code)							

1	2	3	4	5	6					
A.1/1.12	Inflatable liferafts	Regulation III/4, Regulation X/3	Regulation III/21.1, III/31.1 and III/34, IMO Resolution MSC.48 (66), IMO MSC/Circ.811, IMO Resolution MSC.36 (63) 8.1, 8.5, 8.6, 8.7 and 8.10 (1994 HSC Code)	IMO Resolution MSC.81(70)		X				
		Regulation III/4, Regulation X/3	Regulation III/21.1, III/31.1 and III/34, IMO Resolution MSC.48 (66), IMO MSC/Circ.811, IMO Resolution MSC.97 (73) 8.1, 8.5, 8.6, 8.7 and 8.10 (2000 HSC Code)							
A.1/1.13	Rigid liferafts	Regulation III/4, Regulation X/3	Regulation III/21.1, III/31.1.1.2 and III/34, IMO Resolution MSC.48 (66), IMO MSC/Circ. 811, IMO Resolution MSC.36 (63) 8.1, 8.5, 8.6, 8.7 and 8.10 (1994 HSC Code)	IMO Resolution MSC.81(70)		X				
		Regulation III/4, Regulation X/3	Regulation III/21.1, III/31.1.1.2 and III/34, IMO Resolution MSC.48 (66), IMO MSC/Circ. 811, IMO Resolution MSC.97 (73) 8.1, 8.5, 8.6, 8.7 and 8.10 (2000 HSC Code)							
A.1/1.14	Automatically self-righting liferafts	Regulation III/4, Regulation X/3	Regulation III/26.2.4 and 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, 8.6, 8.7 and 8.10 (1994 HSC Code)	IMO Resolution MSC.81(70)		X				
		Regulation III/4, Regulation X/3	Regulation III/26.2.4 and III/34, IMO Resolution MSC.48 (66), IMO MSC/Circ 809 ⁽¹⁾ , IMO MSC/Circ. 811, IMO Resolution MSC.97 (73) 8.1, 8.5, 8.6, 8.7 and 8.10 (2000 HSC Code)							

1	2	3	4	5	6					
A.1/1.15	Canopied reversible liferafts	Regulation III/4, Regulation X/3	Regulation III/26.2.4 and 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, 8.6 8.7 and 8.10 (1994 HSC Code)	IMO Resolution MSC.81(70)		X				
		Regulation III/4, Regulation X/3	Regulation III/26.2.4 and III/34, IMO Resolution MSC.48 (66), IMO MSC/Circ. 809 (1), IMO MSC/Circ.811, IMO Resolution MSC.97 (73) 8.1, 8.5, 8.6, 8.7 and 8.10 (2000 HSC Code)							
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 and III/34, IMO Resolution MSC.48 (66), IMO MSC/Circ. 811, IMO Resolution MSC.36 (63) 8.1 and 8.6 (1994 HSC Code)	IMO Resolution MSC.81(70)		X	X	X		
		Regulation III/4, Regulation X/3	Regulation III/13.4.2, III/26.2.2 and III/34, IMO Resolution MSC.48 (66), IMO MSC/Circ. 811, IMO Resolution MSC.97 (73) 8.1 and 8.6 (2000 HSC Code)							
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 and III/34, IMO Resolution MSC.48 (66)	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 and 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	
		Regulation III/4, Regulation X/3	Regulation III/21.2, III/31.2 and III/34, IMO Resolution MSC.48(66), IMO Resolution MSC.97(73) 8.1, 8.10 2000 HSC Code)							

1	2	3	4	5	6					
A.1/1.19	Inflated rescue boats	Regulation III/4, Regulation X/3	Regulation III/21.2, III/31.2 and III/34, IMO Resolution MSC.48(66), IMO Resolution MSC.36 (63) 8.1, 8.5, 8.6, 8.7 and 8.10 (1994 HSC Code)	IMO Resolution MSC.81(70)		X			X	
		Regulation III/4, Regulation X/3	Regulation III/21.2, III/31.2 and III/34, IMO Resolution MSC.48(66), IMO Resolution MSC.97 (73) 8.1, 8.5, 8.6, 8.7 and 8.10 (2000 HSC Code)							
A.1/1.20	Fast rescue boats	Regulation III/4, Regulation X/3	Regulation III/26.3 and 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	
		Regulation III/4, Regulation X/3	Regulation III/26.3 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.97 (73) 8.1 (2000HSC Code), IMO MSC/Circ. 809 (1)							
A.1/1.21	Launching appliances using fall and winch (davits)	Regulation III/4, Regulation X/3	Regulation III/23, III/33 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1, 8.5, 8.6 and 8.7 (1994 HSC Code)	IMO Resolution MSC.81(70)		X	X	X	X	
		Regulation III/4, Regulation X/3	Regulation III/23, III/33 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.97 (73) 8.1, 8.5, 8.6 and 8.7 (2000 HSC Code)							
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 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36(63) 8.1, 8.5 and 8.7 (1994 HSC Code)	IMO Resolution MSC.81(70)					X	
		Regulation III/4, Regulation X/3	Regulation III/33 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.97 (73) 8.1, 8.5 and 8.7 (2000 HSC Code)							

1	2	3	4	5	6					
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, 8.6 and 8.7 (1994 HSC Code)	IMO Resolution MSC.81(70)		X	X	X	X	
		Regulation III/4, Regulation X/3	Regulation III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.97 (73) 8.1, 8.5, 8.6 and 8.7 (2000 HSC Code)							
A.1/1.25	Fast rescue boat launching appliances	Regulation III/4, Regulation X/3	Regulation III/26.3.2 and 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		
		Regulation III/4, Regulation X/3	Regulation III/26.3.2 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.97 (73) 8.1 (2000 HSC Code), IMO MSC/Circ. 809 ⁽¹⁾							
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 and 8.5 (1994 HSC Code)	IMO Resolution MSC.81(70)		X	X	X		
		Regulation III/4, Regulation X/3	Regulation III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.97 (73) 8.1 and 8.5 (2000 HSC Code)							
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 and 8.10 (1994 HSC Code)	IMO Resolution MSC.81(70)		X			X	
		Regulation III/4, Regulation X/3	Regulation III/15, III/26.2.1, III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.97 (73) 8.1, 8.7 and 8.10 (2000 HSC Code)							
A.1/1.28	Means of rescue	Regulation III/4, Regulation X/3	Regulation III/26.4 and III/34, IMO Resolution MSC.48 (66), IMO MSC/Circ. 810 ⁽²⁾ , IMO Resolution MSC.36 (63) 8.1, 8.5 and 8.10 (1994 HSC Code)	IMO Resolution MSC.81(70) MSC/Circ. 810		X				
		Regulation III/4, Regulation X/3	Regulation III/26.4 and III/34, IMO Resolution MSC.48 (66), IMO MSC/Circ. 810 ⁽²⁾ , IMO Resolution MSC.97 (73) 8.1, 8.5 and 8.10 (2000 HSC Code)							

1	2	3	4	5	6					
A.1/1.29	Embarkation ladders	Item moved to A.2/1.4								
A.1/1.30	Retro-reflective materials	Regulation III/4	Regulation III/34, IMO Resolution MSC.48 (66)	IMO Resolution A.658 (16) Annex 2		X	X	X		
A.1/1.31	Survival craft two-way VHF radio telephone apparatus	Moved to A.1/5.17 and A.1/5.18								
A.1/1.32	9GHz SAR transponder (SART)	Moved to A.1/4.18								
A.1/1.33	Radar reflector for lifeboats and rescue boats	Regulation III/4, Regulation X/3	Regulation III/34, IMO Resolution MSC.48 (66)	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 A.1/4.23								
A.1/1.35	Portable fire-extinguishing equipment for lifeboats and rescue boats	Moved to A.1/3.38								
A.1/1.36	Lifeboat/rescue boat propulsion engine	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	Regulation III/4, Regulation X/3	Regulation III/34, IMO Resolution MSC.48 (66)	IMO Resolution MSC.81(70)		X	X	X		
A.1/1.39	Open reversible liferafts	Regulation III/4, Regulation X/3	IMO Resolution MSC.36 (63) 8.1, 8.5, 8.7 and 8.10 (1994 HSC Code)	IMO Resolution MSC.36 (63) Annex 10 (1994 HSC Code)		X				
		Regulation III/4, Regulation X/3	IMO Resolution MSC.97 (73) 8.1, 8.5, 8.6, 8.7 and 8.10 (2000 HSC Code)	IMO Resolution MSC.97(73)Annex 11 (2000 HSC Code)						

1	2	3	4	5	6					
A.1/1.40 ex 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		
		Regulation V/23	Regulation V/23.6, IMO Resolution A.889 (21), IMO MSC/Circ. 773							

(¹) MSC Circ. 809 is only applicable if the equipment is to be fitted on ro-ro passenger ships.

(²) SC Circ. 810 is only applicable if the equipment is to be fitted on ro-ro passenger ships.

2. Marine-pollution prevention

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
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, Regulation 16(4) and (5)	Annex I, Regulation 16(1) and (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		
A.1/2.3	Oil-content meters	Annex I, Regulation 16(4) and (5)	Annex I, Regulation 16(1) and (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

Notes applicable to section 3: Fire protection

Columns 3 and 4: Where these columns are split into two levels for a particular item designator, the upper level refers to the Regulations applicable to ships built before 1 July 2002, the lower level refers to ships built on or after 1 July 2002 (but may also apply to ships built before 1 July 2002).

Column 5: in column 5 many items have more than one testing standard listed. It is up to the testing authority to ensure that the applicable testing standard is applied to the item so that it meets the international requirements of the convention.

[illegible]

1	2	3	4	5	6					
A.1/3.4	Firefighter'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				
		Regulation II-2/10.10.1, Regulation X/3, IMO Resolution MSC.98(73) Chapter 3.2.1.1.2 (FSS Code)	Regulation II-2/10.10.1, IMO Resolution MSC.97(73) 7.10.3.1.2 (2000 HSC Code), IMO Resolution MSC.98(73) Chapter 3.2.1.1.2 (FSS Code)							
A.1/3.5	Firefighter'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)		X				
		Regulation II-2/10.10.1, Regulation X/3, IMO Resolution MSC.98(73) Chapter 3.2.1.1.1 (FSS Code)	Regulation II-2/10.10.1, IMO Resolution MSC.97(73) 7.10.3.1.2 (2000 HSC Code), IMO Resolution MSC.98(73) Chapter 3.2.1.1.1 (FSS Code)							
A.1/3.6	Firefighter'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				
		Regulation II-2/10.10.1, Regulation X/3, IMO Resolution MSC.98(73) Chapter 3.2.1.1.3 (FSS Code)	Regulation II-2/10.10.1, IMO Resolution MSC.97(73) 7.10.3.1.3 (2000 HSC Code), IMO Resolution MSC.98(73) Chapter 3.2.1.1.3 (FSS Code)							
A.1/3.7	Self-contained compressed- air-operated breathing apparatus ⁽¹⁾	Regulation II-2/17.1.2, Regulation X/3	Regulation II-2/17.1.2.2, II-2/17.2, II-2/54.2.6.2, IMO Resolution MSC.36(63) 7.10.3.2.2, 7.10.3.2.3 (1994 HSC Code)	EN 137 (1993), EN 136 (1998)		X				
		Regulation II-2/10.10.1, Regulation X/3, IMO Resolution MSC.98(73) Chapter 3.2.1, 3.2.1.2 (FSS Code)	Regulation II-2/10.10.1, II-2/19.3.6.2 IMO Resolution MSC.97(73) 7.10.3.2.2 (2000 HSC Code), IMO Resolution MSC.98(73) Chapter 3.2.1.2, 3.2.1.3 (FSS Code)							

1	2	3	4	5	6					
A.1/3.8	Air-supplied breathing apparatus for use with a smoke helmet or smoke mask ⁽¹⁾	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				
		Note ⁽²⁾								
A.1/3.9	Sprinkler systems components for accommodation spaces, service spaces and control stations equivalent to that referred to in SOLAS 74 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	
		Regulation II-2/7.5.3.2, II-2/7.5.5.2, II-2/10.6.1.1, II-2/10.6.1.2, II-2/10.6.2, IMO Resolution MSC.98(73) Chapter 8.1 (FSS Code)	Regulation II-2/7.5.3.2, II-2/7.5.5.2, II-2/10.6.1.1, II-2/10.6.1.2, II-2/10.6.2, IMO Resolution MSC.98(73) Chapter 8.1 (FSS Code)							
A.1/3.10	Nozzles for fixed pressure water spraying fire extinguishing systems for machinery spaces	Moved to A2/3.11								
A.1/3.11	“A” and “B” Class divisions, fire integrity (a) “A” class divisions (b) “B” class divisions	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 (FTP Code). IMO MSC/Circ 916, IMO MSC/Circ 1004, IMO MSC/Circ 1005		X	X	X		
		Regulation II-2/3.2.5, II-2/3.4.4	Regulation II-2/3.2.5, II-2.3.4.4							
A.1/3.12	Devices to prevent the passage of flame into the cargo tanks in oil tankers (high velocity valves only)	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, MSC/Circ 1009		X	X	X		
		Regulation II-2/4.5.3.3, II 2/4.5.3.4.1.4, II-2/4.5.6.1, II-2/16.3.2.2.3	Regulation II-2/4.5.3.3, II-2/4.5.3.4.1.4, II-2/4.5.6.1, II-2/16.3.2.2.3							
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		
		Regulation II-2/3.33, Regulation X/3	Regulation II-2/3.33, IMO Resolution MSC.97(73) 7.2.3 (2000 HSC Code)							

1	2	3	4	5	6					
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		
		Regulation II-2/9.3.1, II-2/9.3.2	Regulation II-2/9.3.1, II-2/9.3.2							
A.1/3.15	Materials other than steel for pipes conveying oil or fuel oil: (a) pipes and fittings (b) valves (c) flexible pipe assemblies	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), ISO 15540 (1999), ISO 15541 (1999)		X	X	X		
		Regulation II-2/4.2.2.5.1, II-2/4.2.2.5.6, Regulation X/3	Regulation II-2/4.2.2.5.1, II-2/4.2.2.5.6. IMO Resolution MSC.97(73) 7.5.4 (2000 HSC Code)							
A.1/3.16	Fire doors	Regulation II-2/30.2, II-2/31.1.1 and 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, IMO MSC/Circ 916, IMO MSC/Circ 1004		X	X	X		
		Regulation II-2/9.4.1.1.2, II-2/9.4.1.2.1, II-2/9.4.2	Regulation II-2/9.4.1.1.2, II-2/9.4.1.2.1, II-2/9.4.2							
A.1/3.17	Fire door control systems components ⁽³⁾	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		
		Regulation II-2/9.4.1.1.4.15, Regulation X/3	Regulation II-2/9.4.1.1.4.15, IMO Resolution MSC.97(73) 7.9.3.3 (2000 HSC Code)							
A.1/3.18	Surface materials and floor coverings with low flame-spread characteristics ⁽⁴⁾ : (a) decorative veneers (b) paint systems (c) floor coverings (d) pipe insulation covers	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-2/49.2, II-2/50.3.1, II 2/34.7, IMO Resolution MSC.36(63) 7.4.3.4, 7.4.3.5 and 7.4.3.6 (1994 HSC Code)	IMO Resolution A.653(16), IMO Resolution MSC.61(67), Annex 1, Parts 2 and 5, and Annex 2 ISO 1716 (1973) ⁽⁵⁾ IMO MSC/Circ 916 amended by IMO MSC/Circ 1008, IMO MSC/Circ 1004		X	X	X		
		Regulation II-2/3.29, II-2/5.3.2.4, II-2/6.2, Regulation X/3	Regulation II-2/3.29, II-2/3.40.4, II-2/3.40.5, II-2/9.7.1.1.1, II-2/9.7.4.4.3.1, II-2/5.3.1.1, II-2/5.3.2.4, II-2/6.2 IMO Resolution MSC.97(73) 7.4.3.4, 7.4.3.5 and 7.4.3.6 (2000 HSC Code)							

1	2	3	4	5	6					
A.1/3.19	Draperies, curtains and other suspended textile materials and films	Regulation II-2/3.23.3, Regulation X/3	Regulation II-2/3.23.3, 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		
		Regulation II-2/3.40.3, II-2/9.2.2.3.2, Regulation X/3	Regulation II-2/3.40.3, II-2/9.2.2.3.2 IMO Resolution MSC.97(73) 7.4.3.3.3 (2000 HSC Code)							
A.1/3.20	Upholstered furniture	Regulation II-2/3.23.6, Regulation X/3	Regulation II-2/3.23.6, 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		
		Regulation II-/3.40.6, II-2/9.2.2.3.2, Regulation X/3	Regulation II-2/3.40.6,II-2/9.2.2.3.2, II-2/5.3.3 IMO Resolution MSC.97(73) 7.4.3.3.4 (2000 HSC Code)							
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.61(67) Annex 1, Part 9		X	X	X		
		Regulation II-2/3.40.7, II-2/9.2.2.3.2, Regulation X3	Regulation II-2/3.40.7, II-2/9.2.2.3.2 IMO Resolution MSC.97(73) 7.4.3.3.5 (2000 HSC Code)							
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		
		Regulation II-2/9.7.1.2	Regulation II-2/9.7.1.1							
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								

1	2	3	4	5	6					
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), IMO MSC/Circ 1004		X	X	X		
		Regulation II-2/9.4.1.3	Regulation II-2/9.4.1.3, MSC/Circ.847							
A.1/3.26	Penetrations through "A" class divisions (a) electric cable transits (b) pipe, duct, trunk, etc penetrations	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		
		Regulation II-2/9.3.1	Regulation II-2/9.3.1							
A.1/3.27	Penetrations through "B" class (a) electric cable transits (b) pipe, duct, trunk, etc penetrations	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		
		Regulation II-2/9.3.2	Regulation II-2/9.3.2							
A.1/3.28	Sprinkler systems (limited to sprinkler heads and to the method of automatic sprinkling and signalling e.g. flow switches, alarm panels)	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	EN 12259-1 (1999), EN 12259-2 (1999), EN 12259-3 (2000), EN 12259-4 (2000) EN 12259-5, ISO 6182-1 (1993), ISO 6182-2 (1993), ISO 6182-3 (1993), ISO 6182-4 (1993), ISO 6182-5 (1995)		X	X	X		
		Regulation II-2/10.6.1.2, II-2/10.6.1.1, II-2/10.6.2 IMO Resolution MSC.98(73) Chapter 8.1, Chapter 8.2.5.2.3 (FSS Code)	Regulation II-2/10.6.1.2, II-2/10.6.1.1, II-2/10.6.2, IMO Resolution MSC.98 (73) Chapter 8.1, Chapter 8.2.5.2.3 (FSS Code)							
A.1/3.29	Fire hoses	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 (2001), EN ISO15540 (2001), EN ISO 15541 (2001), ISO 15540 (1999), ISO 15541 (1999)		X	X	X		
		Regulation II-2/10.2.3.1.1, Regulation X/3	Regulation II-2/10.2.3.1.1, IMO Resolution MSC.97 (73) 7.7.5.5 (2000 HSC Code)							

1	2	3	4	5	6					
A.1/3.30	Oxygen analysis and gas detection equipment	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		
			Regulation II-2/4.5.7.1, II-2/4.5.7.2.1, II-2/4.5.7.2.2, IMO Resolution MSC.98 (73) Chapter 15.2.4.2.4 (FSS Code)							
A.1/3.31	Fixed sprinkler systems components for high-speed craft	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	
			IMO Resolution MSC.97 (73) 7.13.1 (2000 HSC Code), IMO MSC/Circ 912							
A.1/3.32	Fire restricting materials (except furniture) for high-speed craft	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		
			IMO Resolution MSC.97 (73) 7.2.2 (2000 HSC Code)							
A.1/3.33	Fire restricting materials for furniture for high-speed craft	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		
			IMO Resolution MSC.97 (73) 7.2.2 (2000 HSC Code)							
A.1/3.34	Fire resisting divisions for high-speed craft	Regulation X/3	IMO Resolution MSC.36 (63) 7.2.1 (1994 HSC Code)	IMO Resolution MSC.45(65)		X	X	X		
			IMO Resolution MSC.97 (73) 7.2.1 (2000 HSC Code)							
A.1/3.35	Fire doors on high-speed craft	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		
			IMO Resolution MSC.97 (73) 7.2.1, 7.4.2.6 (2000 HSC Code)							

1	2	3	4	5	6					
A.1/3.36	Fire dampers on high-speed craft	Regulation X/3	IMO Resolution MSC.36(63) 7.6.4 (1994 HSC Code)	IMO Resolution MSC.45(65)		X	X	X		
			IMO Resolution MSC.97(73) 7.6.4 (2000 HSC Code)							
A.1/3.37	Penetrations through fire resisting divisions on high-speed craft (a) electric cable transits (b) pipe, duct, trunk etc penetrations	Regulation X/3	IMO Resolution MSC.36(63) 7.4.2.6 (1994 HSC Code)	IMO Resolution MSC.45(65)		X	X	X		
			IMO Resolution MSC.97(73) 7.4.2.6 (2000 HSC Code)							
A.1/3.38 Ex A.1/1.35	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		
			Regulation III/34, IMO Resolution MSC.97(73) 8.1.2 (2000 HSC Code)							
A.1/3.39	Alternative arrangements for halon fire extinguishing systems components in machinery spaces and pump rooms — equivalent water-based fire extinguishing system components	Regulation II-2/10.1, II-2/63.1.3	Regulation II-2/10.1, II-2/63.1.3	IMO MSC/Circ 668, IMO MSC/Circ.728		X	X	X		
		Regulation II-2/10.4.1.1.3, II-2/10.9.1	Regulation II-2/10.4.1.1.3, II-2/10.9.1, II-2/10.9.3, IMO Resolution MSC.98(73) Chapter 7.2.2 (FSS Code)							
A.1/3.40	Low-location lighting systems (components only) (New item)	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) or ISO 15370 (2001)		X	X	X	X	
		Regulation II-2/13.3.2.5.1, II-2/13.3.2.5.2, IMO Resolution MSC.98(73) Chapter 11 (FSS Code)	Regulation II-2/13.3.2.5.1, II-2/13.3.2.5.2 IMO Resolution MSC.98 (73) Chapter 11 (FSS Code)							

1	2	3	4	5	6					
A.1/3.41	Emergency escape breathing devices (EEBD) (New item)	⁽⁶⁾		EN 400 (1993), EN 401 (1993), EN 402 (1993), EN 1146 (1997), EN 1061 (1996)		X	X	X		
		Regulation II-2/1.2.2.2, II-2/13.3.4, II-2/13.4.3	Regulation II-2/1.2.2.2, II-2/13.3.4, II-2/13.4.3, IMO Resolution MSC.98(73) Chapter 3.2.2 (FSS Code), IMO MSC/Circ 849							
A.1/3.42	Inert gas systems components (New item)	Regulation II-2/62.1	Regulation II-2/62, IMO MSC/Circ 847	IMO MSC/Circs.1009, 677, 485, 450/Rev.1, 387, 353 and 282, IMO Resolution A.567(14) and Corr.1		X	X	X	X	
		Regulation II-2/4.5.5	Regulation II-2/4.5.5, IMO Resolution MSC.98(73) Chapter 15 (FSS Code), IMO MSC/Circ 847							
A.1/3.43	Deep fat cooking equipment fire extinguishing systems components (automatic or manual type) (New item)	⁽⁷⁾		ISO 15371 (2000), ISO 6182-1 (1993)		X	X	X	X	
		Regulation II-2/1.2.2.3, II-2/10.6.4, Regulation X/3	Regulation II-2/1.2.2.3, II-2/10.6.4.2-5, IMO Resolution MSC.97(73) 7.7.6 (2000 HSC Code)							
A.1/3.44	Firefighters outfit — lifeline (New item)	Regulation II-2/17.2, Regulation X/3	Regulation II-2/17.2, IMO Resolution MSC.36(63) 7.10.3.3 (1994 HSC Code)	IMO MSC.98(73) Chapter 3.2.1.3 (FSS Code) ⁽⁸⁾		X	X	X		
		Regulation II-2/10.1, Regulation X/3	Regulation II-2/10.1, IMO Resolution MSC.97(73) 7.10.3.3 (2000 HSC Code), IMO Resolution MSC.98(73) Chapter 3.2.1.3 (FSS Code)							
A.1/3.45	Equivalent fixed gas fire extinguishing systems components for machinery spaces and cargo pump rooms (New item)	Regulation II-2/7.1.1, II-2/63, Regulation X/3	Regulation II-2/7.1.1, II-2/63, IMO Resolution MSC.36(63) 7.7.4 (1994 HSC Code)	IMO MSC/Circ. 848		X	X	X		
		Regulation II-2/10.4.1.1.1, II-2/10.9.1 Regulation X/3, IMO Resolution MSC.98(73) Chapter 5.2.5 (FSS Code)	Regulation II-2/10.4.1.1.1, II-2/10.9.1 IMO Resolution MSC.97(73) 7.7.3.1 (2000 HSC Code), IMO Resolution MSC.98(73) Chapter 5.2.5 (FSS Code)							
A.1/3.46	Equivalent fixed gas fire extinguishing systems components for machinery spaces (aerosol systems) (New item)	Regulation II-2/7.1.1, Regulation X/3	Regulation II-2/7.1.1, IMO Resolution MSC.36(63) 7.7.4 (1994 HSC Code)	IMO MSC/Circ. 1007		X	X	X		
		Regulation II-2/10.4.1.1.1, Regulation X/3, IMO Resolution MSC.98(73) Chapter 5.2.5 (FSS Code)	Regulation II-2/10.4.1.1.1, IMO Resolution MSC.97(73) 7.7.3.1 (2000 HSC Code), IMO Resolution MSC.98(73) Chapter 5.2.5 (FSS Code)							

1	2	3	4	5	6					
A.1/3.47	Concentrate for fixed high expansion foam fire extinguishing systems for machinery spaces and cargo pump rooms ⁽⁹⁾ (New item)	Regulation II-2/9	Regulation II-2/9	IMO MSC/Circ. 670		X	X	X	X	
		Regulation II-2/10.4.1.1.2	Regulation II-2/10.4.1.1.2, IMO Resolution MSC.98(73) Chapter 6.2.2 (FSS Code)							
A.1/3.48	Fixed water based local application fire fighting systems components for use in category "A" machinery spaces. (New item)	⁽¹⁰⁾		IMO MSC/Circ. 913		X	X	X	X	
		Regulation II-2/1.2.2.4, II-2/10.5.6, Regulation X/3	Regulation II-2/1.2.2.4, II-2/10.5.6, IMO Resolution MSC.97(73) 7.7.3.2.1 (2000 HSC Code)							
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 (New item)	Regulation II-2/37.1.3, II-2/54.2.9 Regulation X/3	Regulation II-2/37.1.3, II-2/38.2.2, II-2/38-1.2, II-2/38-1/3, II-2/53.2.2.1.4, II-2/53.2.2, II-2/54.2.9, IMO Resolution MSC.36(63) 7.8.2 (1994 HSC Code)	IMO Resolution A.123 (V) (Performance), IMO MSC/Circ 914		X	X	X		
		Regulation II-2/19.3.1.3, II-2/19.3.9, II-2/20.6.1.2, Regulation X/3, IMO Resolution MSC.98(73) Chapter 7 (FSS Code)	Regulation II-2/19.3.1.3, II-2/19.3.9, II-2/20.6.1.1.3, II-2/20.6.1.2, II-2/20.6.1.3, II-2/20.6.1.4, IMO Resolution MSC.97(73) 7.8.2 (2000 HSC Code), IMO Resolution 98 (73) Chapter 7 (FSS Code)							
A.1/3.50	Protective clothing resistant to chemical attack (New item)	Regulation II-2/54.2.6.1	Regulation II-2/54.2.6.1	EN 368 (1992), EN 369 (1993), EN 463 (1994), EN 943-2 (2001)		X	X	X		
		Regulation II-2/19.3.6.1	Regulation II-2/19.3.6.1							

⁽¹⁾ For use in accidents involving dangerous goods a positive pressure type mask is required.

⁽²⁾ Not included in new Chapter II-2 Regulations (IMO Resolution MSC.99(73)) or FSS Code (IMO Resolution MSC.98(73)).

⁽³⁾ When the term "system components" is used in column 2 it may be that a single component, a group of components or the whole system needs to be tested to ensure that the international requirements are fulfilled.

⁽⁴⁾ Surfaces referred to in Regulations II-2/34.3, 34.7, 49.1 and 49.2 in columns 3 and 4 are those of bulkheads, decks, floor coverings, wall linings and ceilings as appropriate. The requirements described within these regulations are not meant to apply to plastic pipes, electric cables and furniture (ref. MSC/Circ.965).

⁽⁵⁾ Where the surface material is required to have a certain maximum calorific value, this shall be measured in accordance with ISO 1716.

⁽⁶⁾ Ships constructed before 1 July 2002 shall comply with Regulations II-2/1.2.2 and II-2/13.4.3 (IMO Resolution MSC.99(73)) not later than the date of the first survey after 1 July 2002.

⁽⁷⁾ Ships constructed before 1 July 2002 shall comply with Regulations II-2/1.2.2.3 and II-2/10.6.4 (IMO Resolution MSC.99(73)) for new installations only.

⁽⁸⁾ This standard only applies to ships constructed on or after 1 July 2002.

⁽⁹⁾ The fixed high expansion foam fire extinguishing system for machinery spaces and cargo pump rooms must still be tested with the approved concentrate to the satisfaction of the Administration.

⁽¹⁰⁾ Passenger ships of 2000 gross tonnage and above, excluding high-speed craft passenger craft, constructed before the 1 July 2002 shall comply with Regulations II-2/1.2.2.4 and II-2/10.5.6 (IMO Resolution MSC.99(73)) not later than 1 October 2005.

L 254/22

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Official Journal of the European Communities

23.9.2002

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1	2	3	4	5	6					
A.1/4.5	Automatic radar plotting aid (ARPA)	Moved to A.1/4.34								
A.1/4.6	Echo-sounding equipment	Regulation V/12 (r), Regulation X/3, IMO Resolution MSC.36 (63) 13.13.1 (1994 HSC Code)	Regulation V/12 (k), IMO Resolution MSC.36 (63) 13.4 (1994 HSC Code), IMO Resolution A.224 (VII) as amended by IMO Resolution MSC74 (69) Annex 4, IMO Resolution A.694 (17)	EN ISO 9875 (1997), EN 60945 (1997), EN 61162; ISO 9875 (2000), IEC 60945 (1996), IEC 61162		X	X	X	X	
		Regulation V/18.1, Regulation X/3, IMO Resolution 97 (73) 13.17.1 (2000 HSC Code)	Regulation V/19.2.3.1, IMO Resolution 97 (73) 13.4.1 (2000 HSC Code), IMO Resolution A.224 (VII) as amended by IMO Resolution MSC74 (69) Annex 4, IMO Resolution A.694 (17)							
A.1/4.7	Speed and distance measuring equipment (SDME)	Regulation V/12 (r), Regulation X/3, IMO Resolution MSC.36 (63) 13.13.1 (1994 HSC Code)	Regulation V/12 (l), IMO Resolution A.824 (19), as amended by IMO Resolution MSC.96(72) IMO Resolution MSC.36 (63) 13.3 (1994 HSC Code), IMO Resolution A.694 (17)	EN 61023 (1999),EN 60945 (1997), EN 61162; IEC 61023 (1999), IEC 60945 (1996), IEC 61162		X	X	X	X	
		Regulation V/18.1, Regulation X/3, IMO Resolution 97 (73) 13.17.1 (2000 HSC Code)	Regulation V/19.2.3.4, IMO Resolution A.824 (19), as amended by IMO Resolution MSC.96(72) IMO Resolution 97 (73) 13.3 (2000 HSC Code), IMO Resolution A.694 (17)							
A.1/4.8	Rudder angle, rpm, pitch indicator	Item split in three. Moved to A.1/4.20-21-22								
A.1/4.9	Rate-of-turn indicator	Regulation V/12 (r), Regulation X/3, IMO Resolution MSC.36 (63) 13.13.1 (1994 HSC Code)	Regulation V/12 (n), IMO Resolution MSC.36 (63) 13.7.1 (1994 HSC Code), IMO Resolution A.526 (13), IMO Resolution A. 694 (17)	IMO Resolution A.526 (13), EN 60945 (1997), EN 61162; IMO Resolution A.526 (13), IEC 60945 (1996), IEC 61162		X	X	X	X	
		Regulation V/18.1, Regulation X/3, IMO Resolution 97 (73) 13.17.1 (2000 HSC Code)	Regulation V/19.2.9.1, IMO Resolution 97 (73) 13.7.1 (2000 HSC Code), IMO Resolution A.526 (13), IMO Resolution A. 694 (17)							

1	2	3	4	5	6					
A.1/4.16	Heading control system (HCS) (formerly auto-pilot)	Regulation V/18.1	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)	EN/ISO 11674 (2001), EN 60945 (1997), EN 61162; ISO 11674 (2000), IEC 60945 (1996), IEC 61162		X	X	X	X	
A.1/4.17	Mechanical pilot hoist	Moved to A.1/1.40								
A.1/4.18	9 GHz SAR transponder (SART)	Regulation III/4, Regulation IV/14, Regulation X/3, IMO Resolution MSC.36 (63) 13.13.1 (1994 HSC Code)	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	X	
		Regulation III/4, Regulation IV/14, Regulation X/3, IMO Resolution 97 (73) 13.17.1 (2000 HSC Code)	Regulation III/6.2.2, Regulation IV/7.1.3, IMO Resolution MSC.97 (73) 14.7.1.3 (2000 HSC Code), IMO Resolution A.530 (13), IMO Resolution A.802 (19), IMO Resolution A.694 (17), 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	Regulation V/12 (r), Regulation X/3, IMO Resolution MSC.36 (63) 13.13.1 (1994 HSC Code)	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	
		Regulation V/18.1, Regulation X/3, IMO Resolution 97 (73) 13.17.1 (2000 HSC Code)	Regulation V/19.2.5.4, IMO Resolution 97 (73) 13.7.2 (2000 HSC Code), IMO Resolution A.694 (17)							
A.1/4.21	Propeller revolution indicator	Regulation V/12 (r)	Regulation V/12 (m), IMO Resolution A.694 (17)	EN 60945 (1997); IEC 60945 (1996)		X	X	X	X	
		Regulation V/18.1	Regulation V/19.2.5.4, IMO Resolution A.694 (17)							
A.1/4.22	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	
		Regulation V/18.1	Regulation V/19.2.5.4, IMO Resolution A.694 (17)							

1	2	3	4	5	6					
A.1/4.23	Compass for lifeboats and rescue boats	Regulation III/4, Regulation X/3, IMO Resolution MSC.36 (63) 13.13.1 (1994 HSC Code)	Regulation III/34, IMO Resolution MSC.36 (63) 8.1 (1994 HSC Code), IMO Resolution MSC.48 (66) 4.4.8.5, 5.1.2.2.3	EN ISO 613 (2001), ISO 10316 (1990) ISO 613 (2000), ISO 10316 (1990)		X	X	X	X	
		Regulation III/4, Regulation X/3, IMO Resolution 97 (73) 8.1.6 and 13.17.1 (2000 HSC Code)	Regulation III/34, IMO Resolution 97 (73) 8.1.2 (2000 HSC Code), IMO Resolution MSC.48 (66) 4.4.8.5, 5.1.2.2.3							
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 (New item)	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.97 (73) 15.4.3 (2000 HSC Code), IMO Resolution MSC.64 (67) Annex 1, IMO Resolution A.694 (17)	EN 61209 (1999), EN 60945 (1997), EN 61162; IEC 61209 (1999), IEC 60945 (1996), IEC 61162		X	X	X	X	
A.1/4.29	Voyage data recorder (VDR) (New item)	Regulation V/18.1, V/20.2 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 (2001),EN 60945 (1997), EN 61162; IEC 61996 (2000) IEC 60945 (1996), IEC 61162		X	X	X	X	

1	2	3	4	5	6					
A.1/4.30	Electronic chart display and information system (ECDIS) with backup, and raster chart display system (RCDS) (New item)	Regulation V/18.1, Regulation X/3, IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code)	Regulation V/19.2.1.4, 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)	EN 61174 (2002), EN 60945 (1997), EN 61162; IEC 61174 (2002), IEC 60945 (1996), IEC 61162		X	X	X	X	
A.1/4.31	Gyro compass for high-speed craft (New item)	Regulation X/3, IMO Resolution MSC.36 (63) 13.13.1 (1994 HSC Code)	IMO Resolution MSC.36 (63) 13.2.6 (1994 HSC Code), IMO Resolution A.821 (19), IMO Resolution A.694 (17)	ISO 16328 (2001), EN 60945 (1997), EN 61162; ISO 16328 (2001) IEC 60945 (1996), IEC 61162		X	X	X	X	
		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)							
A.1/4.32	Universal automatic identification system equipment (AIS) (New item)	Regulation V/18.1, Regulation X/3, IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code)	Regulation V/19.2.4, IMO Resolution MSC.74 (69) Annex 3, IMO Resolution MSC.97 (73) 13.15 (2000 HSC Code), IMO Resolution A.694 (17), ITU R. M. 1371-1 (10/00) ⁽¹⁾	EN 61993-2 (2002), EN 60945 (1997), EN 61162; IEC 61993-2 (2002), IEC 60945 (1996), IEC 61162		X	X	X	X	
A.1/4.33	Track control system (New item)	Regulation V/18.7, Regulation X/3, 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)	IEC 62065 (2002), EN 60945 (1997), EN 61162; IEC 62065 (2002), IEC 60945 (1996), IEC 61162		X	X	X	X	
A.1/4.34	Radar equipment with automatic radar plotting aid (ARPA)	Regulation V/12 (r)	Regulation V/12 (g), Regulation V/12 (h), Regulation V/12 (j), IMO Resolution A.278 (VIII) IMO Resolution A. 477 (XII) as amended by IMO Resolution MSC.64 (67) Annex 4, IMO Resolution A.823 (19), IMO Resolution A.694 (17), ITU-R M.628-3 (11/93), ITU-R M.1177-2 (05/00)	EN 60936-1 (2000), EN 60872-1 (1998), EN 60945 (1997), EN 61162; IEC 60936-1 (1999), IEC 60872-1 (1998), IEC 60945 (1996), IEC 61162		X	X	X	X	

1	2	3	4	5	6					
		Regulation V/18.1	Regulation V/19.2.3.2, Regulation V/19.2.7.1, Regulation V/19.2.8.1, IMO Resolution A.278 (VIII) IMO Resolution A. 477 (XII) as amended by IMO Resolution MSC.64 (67) Annex 4, IMO Resolution A.823 (19). IMO Resolution A.694 (17), ITU-R M.628-3 (11/93), ITU-R M.1177-2 (05/00)							
A.1/4.35	Radar equipment with automatic tracking aid (ATA)	Regulation V/12 (r)	Regulation V/12 (g), Regulation V/12 (h), Regulation V/12 (i), IMO Resolution A.278 (VIII) IMO Resolution A. 477 (XII) as amended by IMO Resolution MSC.64 (67) Annex 4, IMO Resolution A.694 (17) ITU-R M.628-3 (11/93), ITU-R M.1177-2 (05/00)	EN 60936-1 (2000), EN 60872-2 (1998), EN 60945 (1997), EN 61162; IEC 60936-1 (1999), IEC 60872-2 (1998), IEC 60945 (1996), IEC 61162		X	X	X	X	
		Regulation V/18.1	Regulation V/19.2.3.2, Regulation V/19.2.7.1, Regulation V/19.2.5.5, IMO Resolution A.278 (VIII) IMO Resolution A. 477 (XII) as amended by IMO Resolution MSC.64 (67) Annex 4, IMO Resolution A.694 (17) ITU-R M.628-3 (11/93), ITU-R M.1177-2 (05/00)							
A.1/4.36	Radar equipment with electronic plotting aid (EPA)	Regulation V/12 (r)	Regulation V/12 (g), Regulation V/12 (h), Regulation V/12 (i), IMO Resolution A.278 (VIII) IMO Resolution A. 477 (XII) as amended by IMO Resolution MSC.64 (67) Annex 4, IMO Resolution A.694 (17), ITU-R M.628-3 (11/93), ITU-R M.1177-2 (05/00)	EN 60936-1 (2000), EN 60872-3 (1999), EN 60945 (1997), EN 61162; IEC 60936-1 (1999), IEC 60872-3 (1999), IEC 60945 (1996), IEC 61162		X	X	X	X	
		Regulation V/18.1	Regulation V/19.2.3.2, Regulation V/19.2.3.3, Regulation V/19.2.7.1, IMO Resolution A.278 (VIII) IMO Resolution A. 477 (XII) as amended by IMO Resolution MSC.64 (67) Annex 4, IMO Resolution A.694 (17) ITU-R M.628-3 (11/93), ITU-R M.1177-2 (05/00)							

1	2	3	4	5	6					
A.1/4.37	Radar equipment with automatic radar plotting aid (ARPA) for high-speed craft	Regulation X/3, IMO Resolution MSC.36 (63) 13.13.1 (1994 HSC Code)	IMO Resolution MSC.36 (63) 13.5 (1994 HSC Code), IMO Resolution A.820 (19), IMO Resolution A.823 (19), IMO Resolution A.694 (17), ITU-R M.628-3 (11/93), ITU-R M.1177-2 (05/00)	EN 60936-2 (1999), EN 60872-1 (1998), EN 61162, EN 60945 (1997); IEC 60936-2 (1998), IEC 60872-1 (1998), IEC 61162, EN 60945 (1997)		X	X	X	X	
		Regulation X/3, IMO Resolution 97 (73) 13.17.1 (2000 HSC Code)	IMO Resolution MSC.97 (73) 13.5 (2000 HSC Code), IMO Resolution A.823 (19), IMO Resolution A.820 (19), IMO Resolution A.694 (17), ITU-R M.628-3 (11/93), ITU-R M.1177-2 (05/00)							
A.1/4.38	Radar equipment with automatic tracking aid (ATA) for high-speed craft	Regulation X/3, IMO Resolution MSC.36 (63) 13.13.1 (1994 HSC Code)	IMO Resolution MSC.36 (63) 13.5 (1994 HSC Code), IMO Resolution A.820 (19), IMO Resolution MSC.64 (67) Annex 4, IMO Resolution A.694 (17), ITU-R M.628-3 (11/93), ITU-R M.1177-2 (05/00)	EN 60936-2 (1999), EN 60872-2 (1998), EN 61162, EN 60945 (1997); IEC 60936-2 (1998), IEC 60872-2 (1998), IEC 61162, EN 60945 (1997)		X	X	X	X	
		Regulation X/3, IMO Resolution 97 (73) 13.17.1 (2000 HSC Code)	IMO Resolution MSC.97 (73) 13.5 (2000 HSC Code), IMO Resolution A.820 (19), IMO Resolution MSC.64 (67) Annex 4, IMO Resolution A.694 (17), ITU-R M.628-3 (11/93), ITU-R M.1177-2 (05/00)							
A.1/4.39	Radar reflector (New item)	Regulation V/18.1, Regulation X/3, IMO Resolution MSC.97(73) 13.17.1 (2000 HSC Code)	Regulation V/19.2.1.7, IMO Resolution MSC.97(73) 13.13	IMO Resolution A.384 (X), EN 60945 (1997), EN ISO 8729 (1998); IMO Resolution A.384 (X), IEC 60945 (1996), ISO 8729 (1997)		X	X	X	X	

(¹) ITUR.M.1371-1 Annex 3 shall only be applicable in accordance with the requirements of IMO Resolution MSC.74 (69).

5. Radiocommunication equipment

Notes applicable to section 5: Radiocommunication equipment

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 61 162, the relevant product testing standard shall be verified to define the applicable part of EN/IEC 61 162.

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
1	2	3	4	5	6					
A.1/5.1	VHF radio capable of transmitting and receiving DSC and radiotelephony	Regulation IV/14, Regulation X/3, IMO Resolution MSC.36 (63) 14.13.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code)	Regulation IV/7.1.1, Regulation X/3, IMO Resolution MSC.36 (63) 14.6.1.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 14.7.1.1 (2000 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.493-10 (05/00), 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 301 925 (V1.1.1), 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	
A.1/5.2	VHF DSC watch-keeping receiver	Regulation IV/14, Regulation X/3, IMO Resolution MSC.36 (63) 14.13.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code)	Regulation IV/7.1.2, Regulation X/3, IMO Resolution MSC.36 (63) 14.6.1.2 (1994 HSC Code), IMO Resolution MSC.97 (73) 14.7.1.2 (2000 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 493-10 (05/00), 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, IMO Resolution MSC.36 (63) 14.13.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code)	Regulation IV/7.1.4, Regulation X/3, IMO Resolution MSC.36 (63) 14.6.1.4 (1994 HSC Code), IMO Resolution MSC.97 (73) 14.7.1.4 (2000 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)	EN 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	

1	2	3	4	5	6					
A.1/5.4	EGC receiver	Regulation IV/14, Regulation X/3, IMO Resolution MSC.36 (63) 14.13.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code)	Regulation IV/7.1.5, Regulation X/3, IMO Resolution MSC.36 (63) 14.6.1.5 (1994 HSC Code), IMO Resolution MSC.97 (73) 14.7.1.5 (2000 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	
A.1/5.5	HF marine safety information (MSI) equipment (HF NBDP receiver)	Regulation IV/14, Regulation X/3, IMO Resolution MSC.36 (63) 14.13.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 3.17.1 (2000 HSC Code)	Regulation IV/7.1.5, Regulation X/3, IMO Resolution MSC.36 (63) 14.6.1.5 (1994 HSC Code), IMO Resolution MSC.97 (73) 14.7.1.5 (2000 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; ETS 300 067 Ed.1 (1992-09) +A1 (1998-09), IEC 60945 (1996), IEC 61162		X	X	X	X	
A.1/5.6	406 MHz (COSPAS-SARSAT)	Regulation IV/14, Regulation X/3, IMO Resolution MSC.36 (63) 14.13.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code)	Regulation IV/7.1.6, Regulation X/3, IMO Resolution MSC.36 (63) 14.6.1.6 (1994 HSC Code), IMO Resolution MSC.97 (73) 14.7.1.6 (2000 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) and IMO Resolution MSC.120 (74), IMO Resolution A.694 (17), ITU-R M.633-2 (05/00), 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, IMO Resolution MSC.36 (63) 14.13.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code)	Regulation IV/7.1.6, Regulation X/3, IMO Resolution MSC.36 (63) 14.6.1.6 (1994 HSC Code), IMO Resolution MSC.97 (73) 14.7.1.6 (2000 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	2	3	4	5	6					
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 ⁽²⁾	Regulation IV/14, Regulation X/3, IMO Resolution MSC.36 (63) 14.13.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code)	Regulation IV/9.1.1, IV/10.1.2, Regulation X/3, IMO Resolution MSC.36 (63) 14.8.1.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 14.9.1.1 (2000 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 493-10 (05/00), ITU-R M 541-8 (10/97)	EN 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, IMO Resolution MSC.36 (63) 14.13.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code)	Regulation IV/9.1.2, Regulation IV/10.1.3, Regulation X/3, IMO Resolution MSC.36 (63) 14.8.1.2 (1994 HSC Code), IMO Resolution MSC.97 (73) 14.9.1.2 (2000 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 493-10 (05/00), ITU R M.541-8 (10/97), ITU R.M.1173 (10/95)	EN 301 033 V1.1.1 (1998-08), EN 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.1/5.12	Inmarsat-B SES	Regulation IV/14, Regulation X/3, IMO Resolution MSC.36 (63) 14.13.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code)	Regulation IV/10.1.1, Regulation X/3, IMO Resolution MSC.36 (63) 14.9.1.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 14.10.1.1 (2000 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, IEC 60945 (1996)		X	X	X	X	

1	2	3	4	5	6					
A.1/5.13	Inmarsat-C SES	Regulation IV/14, Regulation X/3, IMO Resolution MSC.36 (63) 14.13.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code)	Regulation IV/10.1.1, Regulation X/3, IMO Resolution MSC.36 (63) 14.9.1.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 14.10.1.1 (2000 HSC Code), IMO Resolution A.570 (14), IMO Resolution A.664 ⁽³⁾ , 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 ⁽⁴⁾	Regulation IV/14, Regulation X/3, IMO Resolution MSC.36 (63) 14.13.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code)	Regulation IV/ 10.2.1, Regulation X/3, IMO Resolution MSC.36 (63) 14.9.2.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 14.10.2.1 (2000 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.493-10 (05/00), 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 (1990-11) +A1 (1993-10), 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	
A.1/5.15	MF/HF DSC watch keeping receiver	Regulation IV/14, Regulation X/3, IMO Resolution MSC.36 (63) 14.13.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code)	Regulation IV/10.2.2, Regulation X/3, IMO Resolution MSC.36 (63) 14.9.2.2 (1994 HSC Code), IMO Resolution MSC.97 (73) 14.10.2.2 (2000 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.493-10 (05/00), 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	

1	2	3	4	5	6					
A.1/5.16	Aeronautical two way VHF radio telephone apparatus	Regulation IV/14, Regulation X/3, IMO Resolution MSC.36 (63) 14.13.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code)	Regulation IV/7.5, IMO Resolution 97 (73) 14.7.2 (2000 HSC Code) IMO Resolution MSC.80 (70) Annex 1 and 2; 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	Portable Survival craft two-way VHF radiotelephone apparatus	Regulation III/4, Regulation X/3, IMO Resolution MSC.36 (63) 14.13.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 8.1.6 and 13.17.1 (2000 HSC Code)	Regulation III/6.2.1, IMO Resolution MSC.36 (63) 8.2.1.1 (1994 HSC Code), IMO Resolution 97 (73) 8.2.1.1 (2000 HSC Code) IMO Resolution A.809 (19) Annex 1, IMO Resolution A.694 (17), ITU R 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	Fixed Survival craft two-way VHF radiotelephone apparatus	Regulation III/4, Regulation X/3, IMO Resolution MSC.36 (63) 14.13.1 (1994 HSC Code), IMO Resolution MSC.97 (73) 8.1.6 and 13.17.1 (2000 HSC Code)	Regulation III/6.2.1, IMO Resolution MSC.36 (63) 8.2.1.1 (1994 HSC Code), IMO Resolution 97 (73) 8.2.1.1 (2000 HSC Code), IMO Resolution A.809 (19) Annex 2, IMO Resolution A.694 (17), ITU R 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	

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

⁽²⁾ In line with IMO and ITU decisions, the requirements for Two Tone Alarm generator and transmission on H3E are no longer applicable in the testing standards.

⁽³⁾ Applicable only if the Inmarsat CSES comprises the EGC functions.

⁽⁴⁾ In line with IMO and ITU decisions, the requirements for Two Tone Alarm generator and transmission on A3H are no longer applicable in the testing standards.

ANNEX A.2: EQUIPMENT FOR WHICH NO DETAILED TESTING STANDARDS EXIST IN INTERNATIONAL INSTRUMENTS

Notes applicable to the whole of Annex A.2

Column 5: Where a package of testing standards is indicated for an item, it is either incomplete or contains standards that have not yet been adopted.

1. Life-saving appliances

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
1	2	3	4	5	6					
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)							
A.2/1.3 (New item)	Public address and general emergency alarm system	Regulation III/6(5)	LSA Code 7.2, IMO Resolution A.830 (18), MSC/Circ.808, IMO Resolution MSC.97(73) 4.2.2 (2000 HSC Code)							
A.2/1.4 ex 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)	ISO 799-1980						
		Regulation III/4, Regulation X/3	Regulation III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.97 (73) 8.1 (2000 HSC Code)							

L 254/36

EN

Official Journal of the European Communities

23.9.2002

1	2	3	4	5	6					
A.2/3.2	Nozzles for fixed pressure water-spraying fire-extinguishing systems for special category spaces	Moved to A.1/3.49								
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)							
			Regulation II-1/44.2, IMO Resolution MSC.97(73) 12.4 (2000 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)							
		Regulation II-2/10.2.3.3.4, Regulation X/3	Regulation II-2/10.2.3.3.4, IMO Resolution MSC.97(73) 7.7.5.6 (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	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)						
		Regulation II-2/7.2.2, II-2/7.4, II-2/7.4.1 Regulation X/3 IMO Resolution MSC.98(73) Chapter 9 (FSS Code)	Regulation II-2/7.2.2, II-2/7.4, II-2/7.4.1 IMO Resolution MSC.97(73) 7.7.1 (2000 HSC Code) IMO Resolution MSC.98(73) Chapter 9 (FSS Code)							
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						
		Regulation II-2/7.2.2, II-2/7.4 Regulation X/3, IMO Resolution MSC.98(73) Chapter 9.2.3.1.2 (FSS Code)	Regulation II-2/7.2.2, II-2/7.4, IMO Resolution MSC.97(73) 7.7.1 (2000 HSC Code), IMO Resolution MSC.98(73) Chapter 9.2.3.1.2 (FSS Code)							
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						
		Regulation II-2/7.2.2, II-2/7.4 Regulation X/3, IMO Resolution MSC.98(73) Chapter 9.2.3.1.3 (FSS Code)	Regulation II-2/7.2.2, II-2/7.4, IMO Resolution MSC.97(73) 7.7.1 (2000 HSC Code), IMO Resolution MSC.98(73) Chapter 9.2.3.1.3 (FSS Code)							

1	2	3	4	5	6					
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						
		Regulation II-2/10.10, Regulation X.3, IMO Resolution MSC.98(73) Chapter 3.2.1.1.4 (FSS Code)	Regulation II-2/10, IMO Resolution MSC.97(73) 7.10.3.1.4 (2000 HSC Code), IMO Resolution MSC.98(73) Chapter 3.2.1.1.4 (FSS Code)							
A.2/3.9	Protective clothing resistant to chemical attack	Moved to A.1/3.50								
A.2/3.10	Low-location lighting systems	Moved to A.1/3.40								
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)							
		Regulation II-2/10.4, IMO Resolution MSC.98(73) Chapter 7 (FSS Code). NB Not included in the 2000 HSC Code	Regulation II-2/10.4, IMO Resolution MSC.98(73) Chapter 7 (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	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)						
		Regulation II-2/10.10.1, Regulation X/3, IMO Resolution MSC.98(73) Chapter 3 (FSS Code)	Regulation II-2/10.10.1, IMO Resolution MSC.97(73) 7.10.3.2.1 (2000 HSC Code), IMO Resolution MSC.98(73) Chapter 3 (FSS Code)							
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) + AC (1995)						
		Regulation II-2/10.2.3.1.1, II-2/10.2.3.3.2, Regulation X/3	Regulation II-2/10.2.3.1.1, II-2/10.2.3.3.2, IMO Resolution MSC.97(73) 7.7.5.5 (2000 HSC Code)							

1	2	3	4	5	6					
A.2/3.15	Sample extraction smoke detection systems components	Regulation II-2/13-1	Regulation II-2/13-1							
		Regulation II-2/7.6, II-2/19.3.3, II-2/20.4.2, IMO Resolution MSC.98(73) Chapter 10 (FSS Code)	Regulation II-2/7.6, II-2/19.3.3, II-2/20.4.2, IMO Resolution MSC.98(73) Chapter 10 (FSS Code)							
A.2/3.16	Flame detectors	Regulation II-2/132, Regulation X/3	Regulation II-2/13, IMO Resolution MSC.36 (63) 7.7.1 (1994 HSC Code)	Pr EN 54-10						
		Regulation II-2/7.1, II-2/7.2.2, Regulation X/3, IMO Resolution MSC.98(73) Chapter 9.2.3.1.1 (FSS Code)	Regulation II-2/7.1, II-2/7.2.2, IMO Resolution MSC.97(73) 7.7.1, 7.7.1..5 (2000 HSC Code), IMO Resolution MSC.98(73) Chapter 9.2.3.1.1 (FSS Code)							
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						
		Regulation II-2/7.1, II-2/7.2.2, Regulation X/3, IMO Resolution MSC.98(73) Chapter 9.2.1.1 (FSS Code)	Regulation II-2/7.1, II-2/7.2.2, IMO Resolution MSC.97(73) 7.7.1 (2000 HSC Code), IMO Resolution MSC.98(73) Chapter 9.2.1.1 (FSS Code)							
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 (2001)						
		Regulation II-2/7.1, II-2/7.2.2, Regulation X/3, IMO Resolution MSC.98(73) Chapter 9.2.5 (FSS Code)	Regulation II-2/7.1, II-2/7.2.2, IMO Resolution MSC.97(73) 7.7.1 (2000 HSC Code), IMO Resolution MSC.98(73) Chapter 9.2.5 (FSS Code)							
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								

1	2	3	4	5	6					
A.2/3.21 (New item)	Paint lockers and flammable liquid lockers fire extinguishing systems components	Regulation II-2/18.7	Regulation II-2/18.7	IMO MSC/Circ 847						
		Regulation II-2/10.6.3	Regulation II-2/10.6.3							
A.2/3.22 (New item)	Galley exhaust duct fixed fire extinguishing systems components	Regulation II-2/16.7.4, II-2/32.1.9.3	Regulation II-2/16.7.4, II-2/32.1.9.3							
		Regulation II-2/9.7.5	Regulation II-2/9.7.5							
A.2/3.23 (New item)	Helicopter deck fire extinguishing systems components	Regulation II-2/18.8.2.3	Regulation II-2/18.8.2.3	IMO Resolution A.855(20)						
		Regulation II-2/18.1.2	Regulation II-2/18.1.2							
A.2/3.24 (New item)	Portable foam applicator units	Regulation II-2/6.4, Regulation X/3	Regulation II-2/6.4, IMO Resolution MSC. 36(63) 7.8.4.1.2 (1994 HSC Code)							
		Regulation X/3	IMO Resolution MSC. 97(73) 7.8.4.1.2 (2000 HSC Code), IMO Resolution MSC.98(73) Chapter 4.1.2 (FSS Code)							
A.2/3.25 (New item)	C class divisions	Regulation II-2/3.5	Regulation II-2/3.5	IMO Resolution A.799(19), IMO Resolution A.653(16), IMO Resolution MSC.61(67) Annex 1 Parts 1, 2 and 5 and Annex 2, ISO 1716 (1973)						
		Regulation II-2/3.10	Regulation II-2/3.5							
A.2/3.26 (New item)	Gaseous fuel systems used for domestic purposes (components)	Regulation II-2/51	Regulation II-2/51							
		Regulation II-2/4.3	Regulation II-2/4.3							
A.2/3.27 (New item)	Fixed gas fire extinguishing systems (CO ₂) components	Regulation II-2/5.2, Regulation X/3	Regulation II-2/5.2, II-2/7.1.1.1, II-2/38.2.1, II-2/39.1, II-2/53.1, II-2/53.2.2.1, II-2/63.1.1 IMO Resolution MSC.36(63) 7.7.6.2, 7.15 (1994 HSC Code)	Pr EN.12094, Parts 1—20						

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1	2	3	4	5	6					
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)	Future ISO 16329, EN 60945 (1997), EN 61162; Future ISO 16329, IEC 60945 (1996), IEC 61162						
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						
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)						
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						
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 ISO 16273, EN 60945 (1997), EN 61162; Future ISO 16273, IEC 60945 (1996), IEC 61162						
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								

1	2	3	4	5	6					
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						
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 MSC.36 (63) 7.7.1 (1994 HSC Code), IMO Resolution A.694 (17)	Future EN 61108-4, EN 60945 (1997), EN 61162; Future IEC 61108-4, IEC 60945 (1996), IEC 61162						
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	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	Moved to A.1/4.28								
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), IEC 61162						
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)						

1	2	3	4	5	6					
A.2/4.20	Track control system for high-speed craft	Regulation X/3, 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), IEC 61162						
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						
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.36 (63) 13.11.2 (1994 HSC Code), IMO Resolution MSC.97 (73) 13.11.2 (2000 HSC Code), IMO Resolution A.694 (17)							

5. Radiocommunication equipment

Notes for Annex A.2 section 5 Radiocommunication.

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

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
1	2	3	4	5	6					
A.2/5.1	VHF EPIRB	Regulation IV/14, Regulation X/3, IMO Resolution MSC.97 (73) 13.1.2 (2000 HSC Code)	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), ITU R 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, IMO Resolution MSC.97 (73) 13.1.2 (2000 HSC Code)	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, EN 60945 (1997); Future IEC 61097-14 IEC 60945 (1996)						
A.2/5.3	Inmarsat-F SES	Regulation IV/14, Regulation X/3, IMO Resolution MSC.97 (73) 13.1.2 (2000 HSC Code)	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, IEC 60945 (1996), IMO MSC/Circ 862						
A.2/5.4	Distress panel	Regulation IV/14, Regulation X/3, IMO Resolution MSC.97 (73) 13.1.2 (2000 HSC Code)	Regulation IV/6.4, IMO Resolution MSC.97 (73) 14.6.4 (2000 HSC Code), IMO Resolution A.694 (17), IMO MSC/Circ 862	EN 60945 (1997); IEC 60945 (1996)						
A.2/5.5	Distress alarm or alert panel	Regulation IV/14, Regulation X/3, IMO Resolution MSC.97 (73) 13.1.2 (2000 HSC Code)	Regulation IV/6.6, IMO Resolution MSC.97 (73) 14.6.6 (2000 HSC Code), IMO Resolution A.694 (17), IMO MSC/Circ 862	EN 60945 (1997); IEC 60945 (1996)						

6. Equipment required under Colreg 72

No	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
1	2	3	4	5	6					
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

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
1	2	3	4	5	6					
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)						