L.N. 127 of 2005

PRODUCT SAFETY ACT (ACT NO. V OF 2001)

The Conformity Assessment of Marine Equipment Regulations, 2005

IN exercise of the powers conferred by articles 38 to 40 of the Product Safety Act, 2001, the Minister for Competitiveness and Communications, acting on the advice of the Malta Standards Authority, has made the following regulations:-

Citation.

1. (1) The title of these regulations is the Conformity Assessment of Marine Equipment Regulations, 2005

General scope

2. These regulations transpose the Conformity Assessment Procedures of Council directive 96/98/EC on Marine Equipment as amended by Commission Directives 98/85/EC[1], 2001/53/EC[2], 2002/75/EC[3] and Directive 2002/84/EC of the European Parliament and of the Council of 5th November 2002[4]:

L.N. 136 of 2003

Provided that the Method for Designating Conformity Assessment Bodies Regulations, 2003, as applied to these regulations, set out the conditions for the recognition of competence and the subsequent approval of notified bodies:

Provided also that the Directorate within the meaning of the regulations mentioned in the paragraph above of this regulation is the competent national administration referred to in the definition of Notified Body in regulation 4 of these regulations.

Technical scope

3. (1) These regulations shall apply to equipment placed on the market with the intent of use on board a Community Ship.

(2) Notwithstanding the fact that the equipment referred to in sub-regulation 3(1) of these regulations may fall within the scope of regulations other than these regulations for the purpose of free movement, and in particular Electromagnetic Compatibility Regulations,

[1] O.J. L315, page 14, 25.11.1998
[2] O.J. L 204, page 1, 28.7.2001
[3] O.J. L 254, page 1, 23.9.2002
[4] O.J.. L 324, page 53, 29.11.2002

2002, which transpose Council Directive 89/336/EEC of the 3rd May 1989 on the approximation of the laws of the Member States relating to electromagnetic compatibility and Personal Protective Equipment Regulations, 2002, which transpose Council Directive 89/686/EEC of the 21st December 1989 on the approximation of the laws of the Member States relating to personal protective equipment, that equipment shall be subject only to the Conformity Assessment of Marine Equipment Regulations, 2004, to the exclusion of all others for those purposes.

L.N. 368 of 2002L.N. 371 of 2002

Definitions

4. For the purposes of these regulations the following definitions shall apply:

"authorised representative" means any person (or organisation) established in the community or Malta who has been appointed by the manufacturer to act on his behalf in carrying out certain tasks required by these regulations;

"the Community" means the European Community;

L.N. 155 of 2004

"Community Ship" has the same meaning as in the Merchant Shipping (Marine Equipment) Regulations, 2004;

"Conformity Assessment Procedures" shall mean the procedures set out in regulation 7 hereto,

"the Directive" shall mean Council Directive 96/98/EC on Marine Equipment as amended by the directives mentioned in regulation 2 of these regulations;

"Directorate" means the Consumer and Industrial Goods Directorate of the Malta Standards Authority, as established by virtue of L.N. 213 of 2000 – Malta Standards Authority (Establishment of Directorates) Order, 2000 – published in the Government Gazette No. 17,002 of 20th October, 2000;

"equipment" shall mean items listed in Schedules Ia and Ib hereto, which must be placed on board a ship for use in order to comply with International Instruments or are voluntarily placed on board for use, and for which the approval of the flag state administration is required according to international instruments;

"International Instruments" shall have a meaning as understood in the Merchant Shipping (Marine Equipment) Regulations, 2004;

Cap 352

"Malta Maritime Authority" means the Authority established by section 3 of the Malta Maritime Authority Act;

"Mark" shall mean the symbol referred to in regulation 8 of these regulations and set out in Schedule IV, hereto;

"Manufacturer" means the person, who is primarily responsible for designing and manufacturing the relevant equipment so that it complies with the requirements of these regulations;

"Member State" means a member state of the European Union;

"Notified Body" shall mean a body designated by the competent national administration of a Member state in accordance with these regulations;

"Placing on board" shall have a meaning as understood in the Merchant Shipping (Marine Equipment) regulations, 2004;

"placing on the market" means the initial action of making a product available for the first time on the Community or Maltese market, with a view to its distribution or placing on board;

"radiocommunications equipment" shall mean equipment required by Chapter IV of the 1974 SOLAS Convention, in its up-to-date version, and survival craft two-way VHF radiotelephone apparatus required by regulation III/6.2.1 of the same convention;

"Registrar-General" shall have the same meaning as is assigned to it by Article 2 of the Merchant Shipping Act; Cap. 234

"Responsible person" in relation to equipment means:

(i) the manufacturer thereof, or
(ii) the manufacturer's authorised representative or;
(iii) where the manufacturer is not established in the Community or Malta and he has not appointed an authorised representative, the person who places the equipment on the Community or Maltese market; L.N. 155 of 2004

"Ship" has the same meaning as in the Merchant Shipping (Marine Equipment) Regulations, 2004;

"testing standards" shall mean the standards set by
—the International Maritime Organization (IMO),
—the International Organization for Standardization (ISO),

—the International Electrotechnical Commission (IEC),

—the European Committee for Standardization (CEN),

—the European Committee for Electrotechnical Standardization (Cenelec) and

—the European Telecommunication Standards Institute (ETSI) in their up to-date version, and established in accordance with the relevant international conventions and with the relevant IMO resolutions and circulars to define testing methods and test results, but only in the form referred to in Schedules Ia and Ib hereto;

"type-approval" shall mean the procedures for evaluating equipment produced in accordance with the appropriate testing standards and the issue of the appropriate certificate.

Placing on the market.

5. No equipment referred to in Schedules Ia hereto, which bears the mark or for other reasons complies with these regulations, shall be prohibited from being placed on the market.

Notified Bodies.

6. (1) The Commission and the other Member States shall be notified of the bodies that have been designated to carry out the procedures in regulation 7 of these regulations together with the specific tasks, which those notified bodies have been designated to carry out, and the identification numbers assigned to them beforehand by the Commission:

L.N. 136 of 2003.

Provided that these bodies shall be subject to the Method for Designating Conformity Assessment Bodies Regulations, 2003 and they shall also fulfil the criteria set out in Schedule III hereto.

(2) The period of validity of a decision of designating a Conformity Assessment Body within the meaning of sub-regulation (1) hereto shall not exceed two years.

(3) A body, which has been designated in accordance with the requirements of these regulations, shall have its designation withdrawn if it ceases to comply with the criteria set out in Schedule III hereto.

(4) The Commission and the other Member States shall be informed accordingly.

Conformity Assessment Procedures.

7. (1) The conformity assessment procedures, details of which are listed in Schedule II hereto, shall be:

(i) EC type-examination (module B) and, before equipment is placed on the market and according to the choice made by the manufacturer or his authorized representative established within the Community from the possibilities indicated in schedule Ia hereto, all equipment shall be subject to:

(a) the EC declaration of conformity to type (module C);

(b) the EC declaration of conformity to type (production-quality assurance)(module D);

(c) the EC declaration of conformity to type (product-quality assurance)(module E);

(d) the EC declaration of conformity to type (product verification) (module F);or

(ii) EC full-quality assurance (module H).

(2) The declaration of conformity to type shall be in written form and shall give the information specified in Schedule II hereto.

(3) Where sets of equipment are produced individually or in small quantities and not in series or in mass, the conformity assessment procedure may be the EC unit verification (module G).

The Mark.

8. (1) Equipment referred to in Schedule Ia, hereto, which complies with the relevant international instruments and is manufactured in accordance with the conformity-assessment procedures shall have the mark affixed to it by the manufacturer or his authorized representative established within the Community.

(2) The mark shall be followed by the identification number of the notified body, which has performed the conformity-assessment procedure, if that body is involved in the production-control phase, and by the last two digits of the number of the year in which the mark is affixed. The identification number of the notified body shall be affixed under its responsibility either by the body itself or by the manufacturer or his authorized representative established within the Community.

(3) The form of the mark to be used shall be as set out in Schedule IV, hereto.

(4) The mark shall be affixed to the equipment or to its data plate so as to be visible, legible and indelible throughout the anticipated

useful life of the equipment. However, where that is not possible or not warranted on account of the nature of the piece of equipment, it shall be affixed to the packaging of the product, to a label or to a leaflet.

(5) No marks or inscriptions, which are likely to mislead third parties with regard to the meaning or the graphics of the mark referred to in these regulations, shall be affixed.

(6) The mark shall be affixed at the end of the production phase.

(7) Equipment shall be accompanied by literature required for its correct and safe use. The languages shall include English.

9. Notwithstanding regulation 5 of these regulations, measures may be taken as necessary to ensure that sample checks are carried out on equipment bearing the mark which is on the market and which has not yet been placed on board, in order to ensure that it complies with these regulations. The expense for carrying out sample checks, which are not provided for in the modules for conformity assessment in Schedule II, shall be born as provided for in the Merchant Shipping (Marine Equipment) Regulations, 2004.

L.N. 155 of 2004.

Removal from the market.

10. (1) Where it is ascertained by inspection or communication from the Registrar-General or otherwise that, notwithstanding the fact that it bears the mark, a piece of equipment referred to in Schedule Ia hereto, when correctly installed, maintained and used for its intended purpose, may compromise the health and, or safety of the crew, the passengers or, where applicable, other persons, or adversely affect the marine environment, the Director of Consumer Affairs shall, following consultation with the Registrar-General, take appropriate interim measures to withdraw that piece of equipment from the market or prohibit or restrict its being placed on the market.

L.N. 213 of 2000.

L.N. 155 of 2004

(2) The Director of Consumer Affairs shall immediately inform the Directorate of any such measure, indicating the reason for its decision and, in particular, whether non-conformity is due to:

(i) failure to comply with the Merchant Shipping (Marine Equipment) Regulations , 2004;

(ii) incorrect application of the testing standards referred to in the Merchant Shipping (Marine Equipment) Regulations , 2004;

(iii) shortcomings in the testing standards themselves.

(3) Where a non-conformity product referred to in these regulations bears the mark, the Director of Consumer Affairs shall take the appropriate measures against whom so ever has affixed the marking and shall so inform the Directorate thereof.

(4) Any decision taken pursuant to these regulations which restricts the placing on the market and putting into service of products shall state the exact grounds on which it is based. Such a decision shall be notified as soon as possible to the party concerned, who shall at the same time be informed of the legal remedies available to him under the laws in force in Malta and of the time limits to which such remedies are subject.

(5) The Directorate shall immediately inform the Registrar-General, the other Member States and the Commission of any measures taken in pursuance to sub-regulations (1), (2), (3) and (4) hereto.

LIST OF SCHEDULES

Schedule	Based on Annex to the Directive	Contents
Ia	A1	Equipment for which detailed testing standards already exist in international instruments.
Ib	A2	Equipment for which no detailed testing standards exist in international instruments.
II	B	Modules for Conformity Assessment
		Appendix to Schedule III
III	C	Minimum Criteria to be taken into account by Member States for the designation of bodies.
IV	D	Mark of Conformity

Schedule Ia

Equipment for which detailed testing standards already exist in International Instruments

Notes applicable to the whole of Schedule Ia

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

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 111/34, 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 111/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.97(73) 8.1, 8.3 (2000 HSC Code)							

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.1/1.2	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 111/34, 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 111/34, 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 111/34, 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 111/34, 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 111/34, 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 111/34, IMO Resolution MSC.48 (66), IMO Resolution MSC. 97(73) 8.1, 8.3 (2000 HSC Code)							

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.1/1.5	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 111/34, 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 111/34, IMO Resolution MSC.48 (66), IMO Resolution MSC 97(73) 8.1, 8.3 (2000 HSC Code)							
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 111/34, 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 111/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.97(73) 8.1, 8.3 (2000 HSC Code)							
A.l/1.7	Thermal protective aids	Regulation III/4	Regulation III/7.3, III/22.4, III/32.3 and 111/34, 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 111/34, 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 111/34, 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 111/34, IMO Resolution MSC.48 (66)	IMO Resolution MSC.81(70)		X		X		

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.1/1.10	Buoyant smoke signals (pyrotechnics)	Regulation III/4	Regulation 111/34, 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 111/18 and 111/34, 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 111/18 and 111/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.97(73) 8.1, 8.8 (2000 HSC Code)							
A.1/1.12	Inflatable liferafts	Regulation III/4, Regulation X/3	Regulation III/21.1, III/31.1 and 111/34, 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 111/34, 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 111/34, 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 111/34, 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)							

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.1/1.14	Automatically self-righting liferafts	Regulation III/4, Regulation X/3	Regulation III/26.2.4 and 111/34, IMO Resolution MSC.48 (66), IMO MSC/Circ. 809 ('), 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 111/34, IMO Resolution MSC.48 (66), IMO MSC/Circ 809 ('), IMO MSC/Circ. 811, IMO Resolution MSC.97 (73) 8.1, 8.5, 8.6, 8.7 and 8.10 (2000 HSC Code)							
A.1/1.15	Canopied reversible life rafts	Regulation III/4, Regulation X/3	Regulation III/26.2.4 and 111/34, IMO Resolution MSC.48 (66), IMO MSC/Circ. 809 ('), 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 111/34, IMO Resolution MSC.48 (66), IMO MSC/Circ. 809 ('), 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 111/34, 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 111/34, IMO Resolution MSC.48 (66), IMO MSC/Circ. 811, IMO Resolution MSC.97 (73) 8.1 and 8.6 (2000 HSC Code)							

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.1/1.17	Lifeboats	Regulation III/4, Regulation X/3	Regulation III/21.1, III/31.1.1.1, 111/31.1.2.1, III/31.1.6, III/31.1.7 and 111/34, 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 111/34, 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 111/34, IMO Resolution MSC.48(66), IMO Resolution MSC.97(73) 8.1, 8.10 2000 HSC Code)							
A.1/1.19	Inflated rescue boats	Regulation III/4, Regulation X/3	Regulation III/21.2, III/31.2 and 111/34, 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 111/34, 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 111/34, 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 111/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.97 (73) 8.1 (2000HSC Code), IMO MSC/Circ. 809 ([1])							

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.1/1.21	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 Schedule 1b								
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)							
A.1/1.24	Liferaft launching appli-ances	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)							

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.1/1.25	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)							

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.1/1.29	Embarkation ladders	Item moved to A.2/1.4								
A.1/1.30	Retro-reflective materials	Regulation III/4	Regulation 111/34, 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.l/5.17 and A.l/5.18								
A.1/1.32	9GHz SAR transponder (SART)	Moved to A. 1/4.18								
A.1/1.33	Radar reflector for life-boats 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.l/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)						

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.1/1.40 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.I/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 detec-tors	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		

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.1/2.6	Sewage treatment plants	Annex IV, Regulation	Annex IV, Regulation 8(l)(b)	IMO Resolution MEPC.2 (VI)		X	X	X	X	
A.1/2.7	Shipboard incinerators	Annex VI, 16(2)(a) Regulation	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.

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.1/3.1	Primary deck coverings	Regulation II-2/34.8, 11-2/ 49.3	Regulation II-2/34.8, II-2/49.3	IMO Resolution MSC.61(67) Annex 1, Parts 2 and 6, Annex 2, IMO MSC/Circ. 1004		X				
		Regulation II-2/4.4.4, 11-2/ 6.3	Regulation II-2/4.4.4, II-2/6.3							
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 and 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) +Al: (1999)		X	X	X		
		Regulation II-2/10.3.1, Regulation X/3, IMO Resolution MSC.98(73) Chapter 4.1.2 (FSS Code)	Regulation II-2/10.3, IMO Resolution A.602(15), IMO Resolution MSC.97(73) 7.7.4, 7.8.4.1.3. 7.17.3.7 (2000 HSC Code), IMO Resolution MSC.98(73) Chapter 4.1.2,. 4.2.1 (FSS Code)							

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. 1/3.3	Fire-fighter's outfit: protective clothing (close proximity 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 (1995) + A1 (1998), EN 1486 (1996), ISO 15538 (2001)		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) 7.10.3.1.1 (2000 HSC Code), IMO Resolution MSC. 98(73) Chapter 3.2.1.1.1 (FSS Code)							
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)							

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. 1/3.7	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, 11-2/ 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)							
A.l/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 11-2/ 12	Regulation II-2/36.1.2, II-2/36.2, II-2/41-2.5, 11-2/ 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, 11-2/ 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, 11-2/ 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, 11-2/ 3.4.4	Regulation II-2/3.2.5, II-2.3.4.4							

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.I/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, 11-2/59.1.9.4, 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, 11-2/4.5.3.4.1.4, II-2/4.5.6.1, 11-2/16.3.2.2.3							
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)							
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, 11-2/ 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, 11-2/4.2.2.5.6. IMO Resolution MSC.97(73) 7.5.4 (2000 HSC Code)							
A.1/3.16	Fire doors	Regulation II-2/30.2, 11-2/31.1.1 andII-2/47	Regulation 11-2/30.2,11-2/31.1.1, 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, 11-2/9.4.1.2.1, II-2/9.4.2							

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.1/3.17	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 11-2/ 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, 11-2/ 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, 11-2/ 32.1.4.3.1, II 2/34.2, II 2/34.3, 11-2/ 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, 11-2/ 5.3.2.4, II-2/6.2, Regulation X/3	Regulation II-2/3.29, II-2/3.40.4, 11-2/3.40.5,11-2/9.7.1.1.1, II-2// 9.7.4.4.3.1, II-2/5.3.1.1, 11-2/ 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)							
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, 11-2/ 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, 11-2/ 9.2.2.3.2, Regulation X/3	Regulation 11-2/3.40.6,11-2/ 9.2.2.3.2, II-2/5.3.3 IMO Resolu-tion MSC.97(73) 7.4.3.3.4 (2000 HSC Code)							

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.I/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, 11-2/ 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.I/3.26								
A. 1/3.24	Electric Cable Transits through 'A' class divisions	Moved to A.I/3.26								
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-12/9.3.1							
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							

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. 1/3.28	Sprinkler systems (limited to sprinkler heads and to the method of automatic sprinkling and signaling e.g. flow switches, alarm panels)	Regulation II-2/12.3, 11-2/36.1.2, 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)							
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, 11-2/4.5.7.2.1, II-2/4.5.7.2.2, IMO Resolution MSC.98 (73) Chapter 15.2.4.2.4 (FSS Code)							
A.l/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)							

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. 1/3.33	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.97 (73) 7.2.2 (2000 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	Regulation X/3	IMO Resolution MSC.36 (63) 7.2.1 (1994 HSC Code) IMO Resolution MSC.97 (73) 7.2.1 (2000 HSC Code)	IMO Resolution MSC.45(65)		X	X	X		
A.l/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.97 (73) 7.2.1, 7.4.2.6 (2000 HSC Code)	IMO Resolution MSC.45(65)		X	X	X		
A. 1/3.36	Fire dampers on highspeed craft	Regulation X/3	IMO Resolution MSC.36(63) 7.6.4 (1994 HSC Code) IMO Resolution MSC.97(73) 7.6.4 (2000 HSC Code)	IMO Resolution MSC.45(65)		X	X	X		
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.97(73) 7.4.2.6 (2000 HSC Code)	IMO Resolution MSC.45(65)		X	X	X		
A.l/3.38 Ex A.l/1.35	Portable fire-extinguishing equipment for lifeboats and rescue boats	Regulation III/4, Regulation X/3	Regulation 111/34, IMO Resolution MSC.48 (66), IMO Resolution A.602 (15) IMO Resolution MSC.36 (63) 8.1.2 (1994 HSC Code) Regulation 111/34, IMO Resolution MSC.97(73) 8.1.2 (2000 HSC Code)	EN 3-1 (1996), 3-2 (1996), 3-3 (1994), 3-4 (1996), 3-5 (1996) + AC (1997), 3-6 (1995) + Al (1999)		X	X	X		

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. 1/3.39	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, 11-2/63.1.3	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, 11-2/10.9.1, 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, 11-2/28.1.11,11-2/41-2.4.7	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, 11-2/13.3.2.5.2 IMO Resolution MSC.98 (73) Chapter 11 (FSS Code)							
A.l/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.l, 387, 353 and 282, IMO Resolution A.567(14) and Corr.l		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)							

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. 1/3.44	Firefighters outfit — life-line (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, 11-2/ 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., 11-2/ 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 Reso-lution 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)							
A. 1/3.47	Concentrate for fixed high expansion foam fire extin-guishing 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)							

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/.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-extin-guishing 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, 11-2/ 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, 11-2/ 19.3.9, II-2/20.6.1.1.3, 11-2/ 20.6.1.2, II-2/20.6.1.3, 11-2/ 20.6.1.4, IMO Resolution MSC.97(73) 7.8.2 (2000 HSC Code), IMO Resolution 98 (73) Chapter 7 (FSS Code)							
A.l/3.50	Protective clothing resis-tant 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.

4. **Navigation equipment**

Notes applicable to section 4: Navigation

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 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 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. 1/4.1	Magnetic compass	Regulation V/12.(r)	Regulation V/12 (b), IMO Resolution A.382 (X), IMO Resolution A.694 (17)	EN ISO 449 (1999), EN ISO 694 (2001), 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	
		Regulation V/18.1	Regulation V/19.2.1.1, IMO Resolution A.382 (X), IMO Resolution A.694 (17)							
A. 1/4.2	Transmitting magnetic heading device (previously electro-magnetic compass)	Regulation V/12(r), Regulation X/3, IMO Resolution MSC.36 (63) 13.13.1 (1994 HSC Code)	Regulation V/12 (b), IMO Resolution MSC.36 (63) 13.2.5, (1994 HSC Code), IMO Resolution MSC.86 (70) annex 2, IMO Resolution A.694 (17)	EN ISO 11606 (2001), EN 60945 (1997), EN 61162; ISO 11606 (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/19.2.3.5, IMO Resolution 97 (73) 13.2.5, (2000 HSC Code), IMO Resolution MSC.86 (70) annex 2, IMO Resolution A.694 (17)							
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 (1998), EN 60945 (1997), EN 61162 ISO 8728 (1997), IEC 60945 (1996), IEC 61162		X	X	X	X	
		Regulation V/18.1	Regulation V/19.2.5.1, IMO Resolution A.424 (XI), IMO Resolution A.694 (17)							
A. 1/4.4	Radar equipment	Moved to A. 1/4.34, A. 1/4.3 5 and A. 1/4.36								

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.I/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 (1), 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.I/4.8	Rudder angle, rpm, pitch indicator	Item split in three. Moved to A. 1/4.20-21-22								

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. 1/4.9	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/l 9.2.9.1, IMO Resolution 97 (73) 13.7.1 (2000 HSC Code), IMO Resolution A.526 (13), IMO Resolution A. 694 (17)							
A.1/4.10	Direction finder	Item deleted								
A.1/4.11	Loran-C equipment	Regulation V/12 (r), Regulation X/3, IMO Resolution MSC.36 (63) 13.13.1 (1994 HSC Code)	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	
		Regulation V/18.1, Regulation X/3, IMO Resolution 97 (73) 13.17.1 (2000HSC Code)	Regulation V/l 9.2.1.6, IMO Resolution 97 (73) 13.6 (2000 HSC Code), IMO Resolution A.818 (19). IMO Resolution A.694 (17)							
A.1/4.12	Chayka equipment	Regulation V/12 (r), Regulation X/3, IMO Resolution MSC.36 (63) 13.13.1 (1994 HSC Code)	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	
		Regulation V/18.1, Regulation X/3, IMO Resolution 97 (73) 13.17.1 (2000 HSC Code)	Regulation V/l 9.2.1.6, IMO Resolution 97 (73) 13.6 (2000 HSC Code), IMO Resolution A.818 (19), IMO Resolution A.694 (17)							
A.1/4.13	Decca navigator equipment	Item deleted								

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.l/4.14	GPS equipment	Regulation V/12 (r), Regulation X/3, IMO Resolution MSC.36 (63) 13.13.1 (1994 HSC Code)	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 60945 (1997), EN 61162; IEC 61108-1 (1994), 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/19.2.1.6, IMO Resolution 97 (73) 13.6 (2000 HSC Code), IMO Resolution A.819 (19), IMO Resolution A.694 (17)							
A.1/4.15	GLONASS equipment	Regulation V/12 (r), Regulation X/3, IMO Resolution MSC.36 (63) 13.13.1 (1994 HSC Code)	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 60945 (1997), EN 61162; IEC 61108-2 (1998), 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/19.2.1.6, IMO Resolution 97 (73) 13.6 (2000 HSC Code), IMO Resolution MSC.53 (66), IMO Resolution A.694 (17)							
A.1/4.16	Heading control system (HCS) (formerly autopilot)	Regulation V/18.1	Regulation V/l 9.2.8.2, 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.l/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)							

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.l/4.19	Radar equipment for high-speed craft	Moved to A.l/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)							
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 111/34, 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 111/34, 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.l/4.37								
A. 1/4.25	Automatic tracking aid (ATA)	Moved to A. 1/4.3 5								

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. 1/4.26	Automatic tracking aid (ATA) for high-speed craft	Moved to A. 1/4.3 8								
A. 1/4.27	Electronic plotting aid (EPA)	Moved to A.l/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	
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/l 9.2.4, 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	

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. 1/4.33	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/l 9.2.8.2, 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.I 177-2 (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	
		Regulation V/18.1	Regulation V/19.2.3.2, Regulation V/l 9.2.7.1, Regulation V/l 9.2.8.1, 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.I 177-2 (05/00)							
A.l/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.I 177-2 (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.I 177-2 (05/00)							

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. 1/4.36	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.I 177-2 (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.I 177-2 (05/00)							
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.I 177-2 (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.I 177-2 (05/00)							

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.l/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.I 177-2 (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.I 177-2 (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 *XI* 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 (VI.1.1), EN 300 338 (Vl.2.1 1999.04), EN 300 828 (VI.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 *XI* 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 (Vl.2.1 1999-04), EN 301 033 (VI.1.1 1998-08), EN 300 828 (VI.1.1 1998-03), EN 60945 (1997); IEC 61097-3 (1994), IEC 61097-8 (1998), IEC 60945 (1996).		X	X	X	X	

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. 1/5.3	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 VI.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, 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.l (1997-11) +A1 (1997-11), EN 300 829 VI.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.l (1992-09) +A1 (1998-09), EN 60945 (1997), EN 61162; ETS 300 067 Ed.l (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 M633-2 (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 ('); IEC 61097-2 (1994), IEC 60945 (1996), MSC/Circ 862		X	X	X	X	

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. 1/5.7	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.l (1996-05), EN 60945 (1997), MSC/Circ 862 ([1]); IEC 61097-5 (1997), MSC/Circ 862		X	X	X	X	
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 Vl.2.1 (1999-04), ETS 300 373 ed.l (1995-08) + Al (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.l/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), ITUR.M.1173 (10/95)	EN 301 033 VI.1.1 (1998-08), EN 300 338 Vl.2.1 (1999-04), EN 60945 (1997) IEC 61097-3 (1994), IEC 61097-8 (1998), IEC 60945 (1996)		X	X	X	X	

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.1/5.12	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	
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.l (1996-05) +A1 (1997-11), EN 300 829 VI.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.l (1995-08) + Al 1997-08), EN 300 338 Vl.2.1 (1999-04), ETS 300 067 Ed.l (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	

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.1/5.15	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 VI.1.1 (1998-08), ETS 300 338 VI.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, 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 VI.1.1 (2000-07), EN 60945 (1997); EN 301 688 VI.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 VI.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.

Schedule Ib

Equipment for which no detailed testing standards exist in International Instruments

Notes applicable to the whole of Schedule Ib
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, 111/34, Regulation X/3	IMO Resolution MSC 48 (66)							
A.2/1.2	Immersion suit materials	Regulation III/4, 111/34	IMO Resolution MSC 48 (66)							
A.2/1.3 ex A.1/1.22	Float-free launching appli-ances for survival craft	Regulation 111/34	IMO Resolution MSC 48 (66)							
A.2/1.3 (New item)	Public address and general emergency alarm system	Regulation 111/6(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, Regula-tion X/3	Regulation 111/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1 (1994 HSC Code)	ISO 799-1980						
		Regulation III/4, Regula-tion X/3	Regulation 111/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.97 (73) 8.1 (2000 HSC Code)							

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.2/2.1 (New item)	On board NO_x monitoring and recording devices	Annex VI Resolution 2 Chapter 1 Regulation 1.3.9, Resolution 2 Chapter 2 Regulation 2.1.2.5 and Resolution 2 Chapter 6.1	Annex VI Resolution 2 Chapter 1 Regulation 1.3.9, Resolution 2 Chapter 2 Regulation 2.1.2.5 and Resolution 2 Chapter 6.1	To be developed by IMO						
A.2/2.2 (New item)	On board exhaust gas cleaning systems	Annex VI Regulation 13.3(b)(i) and Regulation 14.4(b)	Annex VI Regulation 13.3(b)(i) and Regulation 14.4(b)	To be developed by IMO						
A.2/2.3 (New item)	Equivalent methods to reduce on board NO_x emissions	Annex VI Regulation 13.3(b)(ii)	Annex VI Regulation 13.3(b)(ii)	To be developed by IMO						
A.2/2.4 (New item)	Other technological methods to limit SO_x emissions	Annex VI Regulation 14.4(c)	Annex VI Regulation 14.4(c)	To be developed by IMO						

3. **Fire protection**

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.2/3.1	Non-portable and transportable extinguishers	Regulation II-2/6.1, 11-2/7.1.3,11-2/7.2.3,11-2/7.3.1, Regulation X/3	Regulation II-2/6.1, II-2/7.1.3, 11-2/ 7.2.3, 11-2/ 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)						
		Regulation II-2/10.5.1.2.2, II-2/10.5.2.2.2, 11-2/10.5.3.2.1, Regulation X/3, IMO Resolution MSC. 98 (73) Chapter 4.1.2 (FSS Code)	Regulation II-2/10.5.1.2.2, 11-2/10.5.2.2.2, II-2/10.5.3.2.1, IMO Resolution MSC.97(73) 7.5.6.11.2, 7.5.6.11.3 (2000 HSC Code), IMO Resolution MSC.98(73) Chapter 4.1.2 (FSS Code)							

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.2/3.2	Nozzles for fixed pressure water-spraying fire-extinguishing systems for special category spaces	Moved to A.l/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, 11-2/ 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, 11-2/ 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, 11-2/ 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, 11-2/ 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, 11-2/ 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)							

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.2/3.7	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) + Al (1998), pr EN 54-15						
		Regulation II-2/7.2.2, 11-2/ 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)							
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 Resolu-tion 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 resis-tant to chemical attack	Moved to A.l/3.50								
A.2/3.10	Low-location lighting systems	Moved to A.l/3.40								
A.2/3.11 ex A.1/3.10	Nozzles for fixed pressure water spraying fire extin-guishing 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.l/3.45								

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.2/3.13	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, 11-2/10.2.3.3.2, IMO Resolution MSC.97(73) 7.7.5.5 (2000 HSC Code)							
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, 11-2/19.3.3, 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, 11-2/7.2.2, 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)							

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.2/3.17	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, 11-2/7.2.2, 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, 11-2/7.2.2, 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.l/3.48								
A.2/3.20	Upholstered furniture	Moved to A.l/3.20								
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, 11-2/32.1.9.3							
		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							

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.2/3.24 (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, 11-2/ 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						
		Regulation II-2/10.4.1.1.1, Regulation X/3	Regulation II-2/10.4.1.1.1, 1-2/ 10.5.1.1, II-2/10.6.3.1.1, 11-2/ 10.7.1.1.11-2/10.7.1.3, II-2/10.9.1.1 IMO Resolution 97(73) 7.7.3.3, 7.15,7.17.3.8.1 (2000 HSC Code) IMO Resolution MSC.98(73) Chapter 5.2.2 (FSS Code)							
A.2/3.28 (New item)	Medium expansion foam fire extinguishing systems components — fixed deck foam for tankers	Regulation II-2/61.4	Regulation II-2/61.4	IMO MSC/Circ 798						
		Regulation II-2/10.8.1	Regulation II-2/10.8.1, IMO Resolution MSC.98(73) Chapter 14 (FSS Code)							

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.2/3.29 (New item)	Fixed low expansion foam fire extinguishing systems components for machinery spaces and tanker deck protection	Regulation II-2/8, II-2/61.4	Regulation II-2/8, II-2/61.4	IMO MSC/Circ 582 and Corr. 1						
		Regulation II-2/10.8.1	Regulation II-2/10.8.1, IMO Resolution MSC.98(73) Chapter 6.2.3. Chapter 14 (FSS Code)							
A.2/3.30 (New item)	Expansion foam for fixed fire extinguishing systems for chemical tankers	IMO Resolution MSC.4(48) Chapter 11 paragraph 11.3 (IBC Code)	IMO Resolution MSC.4(48) Chapter 11 paragraph 11.3 (IBC Code)	IMO MSC/Circs 799, 582, 553						

4. **Navigation equipment**

Notes for Schedule Ib section 4 Navigation equipment.

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

Column 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.2/4.1	Gyro compass for high-speed craft	Item moved to A. 1/4.31								
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 electro-magnetic 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						

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.2/4.4	Daylight signalling lamp	Regulation V/18.1, Regulation X/3, IMO Resolution MSC.97 (73) 13.17.1 (2000 HSC Code)	Regulation V/l 9.2.2.2, 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.l/4.33								
A.2/4.8	Electronic chart display and information system (ECDIS)	Moved to A.l/4.30								
A.2/4.9	Electronic chart display and information system (ECDIS) backup	Moved to A.l/4.30								
A.2/4.10	Raster chart display system (RCDS)	Moved to A.l/4.30								
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/l 9.2.1.6, 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/l 9.2.1.6, IMO Res-lution 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						

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.2/4.13	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.l/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)						
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						

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.2/4.21	Chart facilities for ship-borne 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 Schedule 1b 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 **1/14**	Annex 1/14, 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/l (Performance), Bells or Gongs — Colreg 72 Annex III/2 (Performance) IEC 60945 (1996), Whistles — Colreg 72 Annex III/l (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 *XIVU,* 1997 SOLAS Conference Resolution 5	Regulation XII/11, 1997 SOLAS Conference Resolution 5	IACS Recommendation No 48 on loading instruments (SOLAS/ CONF.4/7)						

Schedule II

Modules for Conformity Assessment

EC TYPE-EXAMINATION (MODULE B)

1. A notified body must ascertain and attest that a specimen, representative of the production envisaged, complies with the provisions of the international instruments that apply to it.

2. The application for the EC type-examination must be lodged by the manufacturer or his authorized representative established within the Community with a notified body of his choice.

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

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

3. The technical documentation must make it possible to assess the product's compliance with the requirements of the relevant international instruments. It must, as far as is relevant for such assessment, cover the design, the building standard, manufacture, installation and functioning of the product in accordance with the description of technical documentation set down in the Appendix to this Schedule.

4. The notified body must:

4.1. examine the technical documentation and verify that the type has been manufactured in accordance with the technical documentation;

4.2. perform the appropriate examinations and necessary tests or have them performed to check whether the requirements of the relevant international instruments have actually been met;

4.3. agree with the applicant the location where the examinations and necessary tests will be carried out.

5. Where the type meets the provisions of the relevant international instruments, the notified body must issue an EC type-examination certificate to the applicant. The

---

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

certificate must give the name and address of the manufacturer, details of the equipment, the conclusions of the examination, the conditions of its validity and the necessary data for identification of the approved type.
A list of the relevant parts of the technical documentation must be annexed to the certificate and a copy kept by the notified body.
If a manufacturer is refused a type-certification, the notified body must give detailed reasons for that refusal.
Where a manufacturer reapplies for type-approval for equipment for which a type-certificate has been refused, his submission to the notified body must include all relevant documentation, including the original test reports, the detailed reasons for the previous refusal and details of all modifications made to the equipment.

6. The applicant must inform the notified body that holds the technical documentation concerning the EC type-examination certificate of all modifications to the approved product, which must receive additional approval where such changes may affect compliance with the requirements or the prescribed conditions for use of the product. Such additional approval must be given in the form of an addition to the original EC type-examination certificate.

7. Each notified body must, on request, provide flag Member State administrations and the other notified bodies with the relevant information concerning the EC type-examination certificates and additions issued and withdrawn.

8. The other notified bodies may receive copies of the EC type-examination certificates and/or their additions. The Annexes to the certificates must be kept at the disposal of the other notified bodies.

9. The manufacturer or his authorized representative established within the Community must keep with the technical documentation copies of EC type-examination certificates and their additions for at least 10 years after the last product has been manufactured.

———

CONFORMITY TO TYPE (MODULE C)

1. A manufacturer or his authorized representative established within the Community must ensure and declare that the products concerned conform to type as described in the EC type-examination certificate and satisfy the requirements of the international instruments that apply to them. The manufacturer or his authorized representative established within the Community must affix the mark to each product and draw up a written declaration of conformity.

2. The manufacturer must take all measures necessary to ensure that the manufacturing process ensures that the manufactured products conform to type as described in the EC type-examination certificate and comply with the requirements of the international instruments that apply to them.

3. The manufacturer or his authorized representative established within the Community must keep a copy of the declaration of conformity for at least 10 years

after the last product has been manufactured.

PRODUCTION-QUALITY ASSURANCE (MODULE D)

1. A manufacturer who satisfies the obligations of point 2 must ensure and declare that the products concerned conform to type as described in the EC type-examination certificate. The manufacturer or his authorized representative established within the Community must affix the mark to each product and draw up a written declaration of conformity. The mark must be accompanied by the identification symbol of the notified body responsible for surveillance as specified in point 4.

2. The manufacturer must operate an approved quality system for production, final-product inspection and testing as specified in point 3 and must be subject to surveillance as specified in point 4.

3. **Quality system**

3.1. The manufacturer must lodge an application for assessment of his quality system with a notified body of his choice for the products concerned.

The application must include:

— all relevant information for the product category envisaged,
— the documentation concerning the quality system,
— the technical documentation of the approved type and a copy of the EC type-examination certificate.

3.2. The quality system must ensure that the products conform to type as described in the EC type-examination certificate.

All the elements, requirements and provisions adopted by the manufacturer must be documented in a systematic and orderly manner in the form of written policies, procedures and instructions. The quality-system documentation must permit a consistent interpretation of the quality programmes, plan, manuals and records.

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

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

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

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

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

3.4. The manufacturer must undertake to fulfil the obligations arising out of the quality system as approved and to uphold it so that it remains adequate and efficient. The manufacturer or his authorized representative established within the Community must keep the notified body that has approved the quality system informed of any intended updating of that quality system.

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

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

4. **Surveillance under the responsibility of the notified body**

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

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

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

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

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

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

— the documentation referred to in the second indent of the second paragraph of point 3.1,
— the updating referred to in the second paragraph of point 3.4,
— the decision and reports from the notified body referred to in the final paragraph of point 3.4, point 4.3 and point 4.4.

6. Each notified body must, on request, provide flag Member State administrations and the other notified bodies with the relevant information concerning the quality-system approvals issued and withdrawn.

———

PRODUCT-QUALITY ASSURANCE (MODULE E)

1. A manufacturer who satisfies the obligations of point 2 ensures and declares that the products concerned conform to type as described in the EC type-examination certificate. The manufacturer or his authorized representative established within the Community must affix the mark to each product and draw up a written declaration of conformity. The mark must be accompanied by the identification symbol of the notified body responsible for surveillance as specified in point 4.

2. The manufacturer must operate an approved quality system for final inspection and testing as specified in point 3 and must be subject to surveillance as specified in point 4.

3. **Quality system**

3.1**.** The manufacturer must lodge an application for assessment of his quality system for the products concerned with a notified body of his choice.
The application must include:

— all relevant information for the product category envisaged,
— documentation concerning the quality system,
— the technical documentation of the approved type and a copy of the EC type-examination certificate.

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

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

— the quality objectives and the organizational structure, responsibilities and powers of the management with regard to product quality,
— the examinations and tests that will be carried out after manufacture,
— the means of monitoring the effective operation of the quality system,
— the quality records, such as inspection reports and test data, calibration data, qualification reports of the personnel concerned, etc.

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

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

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

3.4. The manufacturer must undertake to fulfill the obligations arising out of the quality system as approved and to maintain it in an appropriate and efficient manner. The manufacturer or his authorized representative established within the Community must keep the notified body that has approved the quality system informed of any intended updating of that quality system.

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

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

4. **Surveillance under the responsibility of the notified body**

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

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

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

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

manufacturer with audit reports.

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

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

— the documentation referred to in the third indent of the second paragraph of point 3.1,
— the updating referred to in the second paragraph of point 3.4,
— the decision and reports from the notified body referred to in the final paragraph of point 3.4, point 4.3 and point 4.4.

6. Each notified body must on request provide flag Member State administrations and the other notified bodies with the relevant information concerning the quality-system approvals issued and withdrawn.

PRODUCT VERIFICATION (MODULE F)

1. A manufacturer or his authorized representative established within the Community must check and attest that the products subject to point 3 conform to the type as described in the EC type-examination certificate.

2. The manufacturer must take all measures necessary to ensure that the manufacturing process ensures that the products conform to type as described in the EC type-examination certificate. He must affix the mark to each product and must draw up a declaration of conformity.

3. The notified body must carry out the appropriate examinations and tests in order to check that the product complies with the requirements of the international instruments either by examination and testing of every product as specified in point 4 or by examination and testing of products on a statistical basis, as specified in point 5, at the choice of the manufacturer.

3a. The manufacturer or his authorized representative established within the Community must keep a copy of the declaration of conformity for at least 10 years after the last product has been manufactured.

4. **Verification by examination and testing of every product**

4.1. All products must be individually examined and appropriate tests must be carried out in order to verify their conformity to type as described in the EC type-examination certificate.

4.2. The notified body must affix its identification symbol or cause it to be affixed to each approved product and draw up a written certificate of conformity relating to the tests carried out.

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

5. **Statistical verification**

5.1. The manufacturer must present his products in the form of homogeneous lots and must take all measures necessary to ensure that the manufacturing process ensures the homogeneity of each lot produced.

5.2. All products must be available for verification in the form of homogeneous lots. A random sample must be drawn from each lot. Products in a sample must be individually examined and appropriate tests must be carried out to ensure that they comply with the requirements of the international instruments which apply to them and to determine whether the lot is to be accepted or rejected.

5.3. In the case of accepted lots, the notified body must affix its identification symbol or cause it to be affixed to each product and must draw up a written certificate of conformity relating to the tests carried out. All products in the lot may be put on the market except those products from the sample which are found not to comply.
If a lot is rejected, the notified body or the competent authority must take appropriate measures to prevent that lot's being put on the market. In the event of frequent rejection of lots the notified body may suspend statistical verification.
The manufacturer may, under the responsibility of the notified body, affix the latter's identification symbol during the manufacturing process.

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

———

UNIT VERIFICATION (MODULE G)

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

2. The notified body must examine the individual product and carry out appropriate tests to ensure that it complies with the relevant requirements of the international instruments.

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

carried out.

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

———

FULL-QUALITY ASSURANCE (MODULE H)

1. A manufacturer who satisfies the obligations of paragraph 2 must ensure and declare that the products concerned comply with the requirements of the international instruments that apply to them. The manufacturer or his authorized representative established within the Community must affix the mark to each product and draw up a written declaration of conformity. The mark must be accompanied by the identification symbol of the notified body responsible for surveillance as specified in point 4.

2. The manufacturer must operate an approved quality system for design, manufacture, final-product inspection and testing as specified in point 3 and must be subject to surveillance as specified in point 4.

3. **Quality system**

3.1. The manufacturer must lodge an application for assessment of his quality system with a notified body.

The application must include:

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

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

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

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

— the quality objectives and the organizational structure, responsibilities and powers of the management with regard to product quality,
— the technical design specifications, including standards, that will be applied and the assurance that the essential requirements of the international instruments that apply to the products will be met,
— the design-control and design-verification techniques, processes and systematic actions that will be used in the design of the products pertaining to the product

category covered,
— the corresponding manufacturing, quality-control and quality-assurance techniques, processes and systematic actions that will be used,
— the examinations and tests that will be carried out before, during and after manufacture, and the frequency with which they will be carried out,
— the quality records, such as inspection reports and test data, calibration data, qualification reports of the personnel concerned, etc.,
— the means of monitoring the achievement of the required design and product quality and the effective operation of the quality system.

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

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

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

3.4. The manufacturer must undertake to fulfil the obligations arising from the quality system as approved and to uphold it so that it remains adequate and efficient.
The manufacturer or his authorized representative established within the Community must keep the notified body that has approved the quality system informed of any intended updating of that quality system.

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

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

4. **EC surveillance under the responsibility of the notified body**

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

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

— the quality-system documentation,
— the quality records as provided for in the design part of the quality system, such as the results of analyses, calculations, tests, etc.,
— the quality records as provided for in the manufacturing part of the quality system, such as inspection reports and test data, calibration data, qualification reports of the personnel concerned, etc.

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

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

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

— the documentation referred to in the second indent of the second paragraph of point 3.1,
— the updating referred to in the second paragraph of point 3.4,
— the decision and reports from the notified body referred to in the final paragraph of point 3.4, point 4.3 and point 4.4.

6. Each notified body must, on request, provide flag Member State administrations and the other notified bodies with the relevant information concerning the quality-system approvals issued and withdrawn.

7. **Design examination**

7.1. The manufacturer must lodge an application for examination of the design with a single notified body.

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

It must include:

— the technical design specifications, including standards, that have been applied and
— the necessary supporting evidence for their adequacy, in particular where the standards specified in Article 5 have not been applied in full. Such supporting evidence must include the results of tests carried out by an appropriate laboratory of the manufacturer's or on his behalf.

7.3. The notified body must examine the application and where the design complies with those provisions of the international instruments that apply it must issue an EC design-examination certificate to the applicant. The certificate must include the conclusions of the examination, the conditions of its validity, the data necessary for identification of the approved design and, if relevant, a description of the product's functioning.

7.4. The applicant must keep the notified body that has issued the EC design-examination certificate informed of any modification to the approved design.

Modifications to the approved design must receive additional approval from the notified body that issued the EC design-examination certificate where such changes may affect compliance with the relevant requirements of the international instruments or the prescribed conditions for use of the product. Such additional approval must be given in the form of an addition to the original EC design-examination certificate.

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

Appendix to Schedule II

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

The provisions set down in this Appendix apply to all modules of Schedule II.

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

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

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

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

Where appropriate, the design documentation must contain the following:

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

Schedule III

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

Notified bodies must fulfill the requirements of the relevant EN 45000 series.

A notified body must be independent and must not be controlled by manufacturers or by suppliers.

A notified body must be established within the territory of the Community.

Where type-approvals are issued by a notified body on behalf of a Member State, the Member State must ensure that the qualifications, technical experience and staffing of the notified body are such as will enable it to issue type-approvals which comply with the requirements of this Directive and to guarantee a high level of safety.

A notified body must be in a position to provide maritime expertise.

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

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

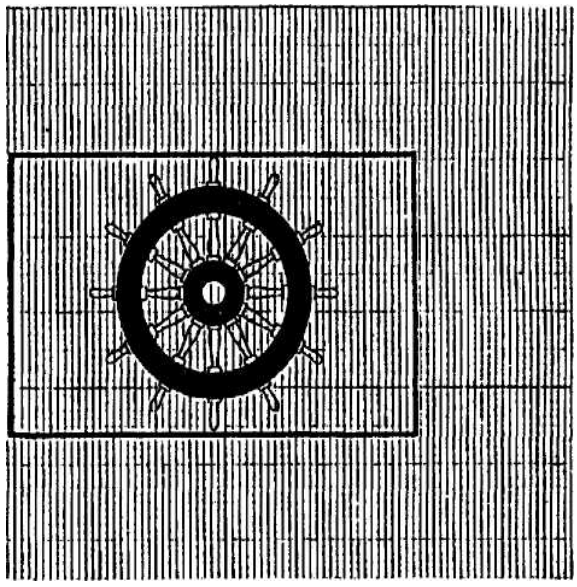
If a subsidiary of a notified body performs conformity-assessment procedures, all documents relating to the conformity-assessment procedures must be issued by and in the name of the notified body and not in the name of the subsidiary.

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

Schedule IV

Mark of Conformity

The mark of conformity must take the following form:



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

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

That minimum dimension may be waived for small devices.

B 2060

Ippubblikat mid-Dipartiment ta' l-Informazzjoni (doi.gov.mt) — Valletta — *Published by the Department of Information (doi.gov.mt) — Valletta*
Mitbugh fl-Istamperija tal-Gvern — *Printed at the Government Printing Press*
Prezz Lm1.44ċ – *Price Lm 1.44c*