A.L. 241 ta' l-2009

PRODUCT SAFETY ACT
(CAP. 427)

Conformity Assessment of Marine Equipment Regulations, 2009

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

Citation.

1. The title of these regulations is the Conformity Assessment of Marine Equipment Regulations, 2009.

Scope and commencement.

2. (1) The purpose of these regulations is to enhance safety at sea and the prevention of marine pollution through the uniform application of the relevant international instruments relating to equipment listed in Schedules Ia and Ib to be placed on board ships for which safety certificates are issued by or on behalf of Member States pursuant to international conventions and to ensure the free movement of such equipment within the Community.

(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, 2001/53/EC, 2002/75/EC, 2002/84/EC and 2008/67/EC of 30 June 2008.

(3) These regulations shall be deemed to have come into force on the 21st July, 2009.

Definitions.

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

"the Act" means the Product Safety Act; Cap. 427.

"authorised representative" means any natural or legal person established within the Community or Malta who has received a written mandate from a manufacturer to act on his behalf in relation to specified tasks;

"Community" means the European Community;

"Community ship" means a ship for which safety certificates are issued by or on behalf of Member States or Malta under international

conventions. This definition does not include the issue of a certificate by a Member State’s administration for a ship at the request of a third country’s administration;

"conformity assessment procedures" mean the procedures as set out in regulation 8 and in Schedule II;

"the “Directive” means Council Directive 96/98/EC on marine equipment, as amended by the Directives mentioned in regulation 2(2);

"equipment" means items listed in Schedules Ia and Ib 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;

"existing ship" means a ship which is not a new ship;

"importer" means any natural or legal person established within the Community or Malta who places equipment from a third country on the Community market;

"international conventions" mean:

(a) the 1966 International Convention on Load Lines (LL66),

(b) the 1972 Convention on the International Regulations for Preventing Collisions at Sea (COLREG),

(c) the 1973 International Convention for the Prevention of Pollution from Ships (MARPOL), and

(d) the 1974 International Convention for the Safety of Life at Sea (SOLAS);

"international instruments" mean the relevant international conventions, the relevant resolutions and circulars of the International Maritime Organisation (IMO), and the relevant international testing standards;

"making available on the market" means any supply of equipment for distribution, consumption or use on the Community market in the course of a commercial activity, whether in return for payment or free of charge;

"manufacturer" means any natural or legal person who

manufactures equipment or has equipment designed or manufactured, and markets that equipment under his name or trademark;

"mark" means the symbol referred to in regulation 6 and set out in Schedule IV;

"Market Surveillance Directorate" means the Market Surveillance Directorate of the Malta Standards Authority as described in the Establishment of Directorates of the Malta Standards Authority Order; S.L. 419.03

"new ship" shall have the same meaning as assigned to it by the Merchant Shipping (Marine Equipment) Regulations; S.L. 234.40

"notified body" means an organisation designated by Regulatory Affairs Directorate in accordance with regulation 7 and with the Method for Designating Conformity Assessment Bodies Regulations; S.L. 427.45

"placed on board" means installed or placed on board a ship;

"placing on the market" means the making available of a product on the Community market for the first time;

"radiocommunications equipment" means equipment required by Chapter IV of the 1974 International Convention for the Safety of Life at Sea (SOLAS), in its updated version, and survival craft two-way VHF radiotelephone apparatus required by regulation III/6.2.1 of the same Convention;

"Registrar General" has the same meaning as is assigned to it by article 2 of the Merchant Shipping Act; Cap. 234.

"Regulatory Affairs Directorate" means the Regulatory Affairs Directorate of the Malta Standards Authority as described in the Establishment of Directorates of the Malta Standards Authority Order; S.L. 419.03

"safety certificates" mean the certificates issued by or on behalf of Member States in accordance with international conventions;

"ship" means a ship falling within the scope of international conventions, but does not include warships;

"testing standards" mean the standards set by -

(a) the International Maritime Organisation (IMO),

(b) the International Organisation for Standardisation

(ISO),

(c) the International Electrotechnical Commission (IEC),

(d) the European Committee for Standardisation (CEN),

(e) the European Committee for Electrotechnical Standardisation (CENELEC), and

(f) the European Telecommunication Standards Institute (ETSI),

in their updated 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;

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

Applicability.

4. (1) These regulations apply to equipment for use on board -

(a) a new Community ship whether or not the ship is situated within the Community or Malta at the time of construction;

(b) an existing Community ship -

(i) where such equipment was not previously carried on board, or

(ii) where equipment which was previously carried on board the ship is replaced, except where international conventions permit otherwise,

whether or not the ship is situated within the Community when the equipment is placed on board.

(2) These regulations shall not apply to equipment which on the date of the entry into force of these regulations has already been placed on board a ship.

(3) Notwithstanding the fact that the equipment referred to in sub-regulation (1) may fall within the scope of regulations other than these regulations for the purpose of free movement, and in particular the Electromagnetic Compatibility Regulations, and the Personal Protective Equipment Regulations, that equipment shall be subject only to these regulations, to the exclusion of all others for those purposes.

S.L. 427.35
S.L. 427.38

(4) Equipment on board ships for which a safety certificate is being issued or renewed must comply with the requirements of these regulations.

General requirements.

5. (1) Equipment listed in Schedule Ia that is placed on board a Community ship on or after 1 January 1999 shall meet the applicable requirements of the international instruments referred to in that Schedule.

(2) The compliance of equipment with the applicable requirements of the international conventions and of the relevant resolutions and circulars of the International Maritime Organisation shall be demonstrated solely in accordance with the relevant testing standards and the conformity assessment procedures referred to in Schedule Ia:

Provided that as regards items listed in Schedule Ia, where both IEC and ETSI testing standards are given, those standards shall be alternatives and a manufacturer or his authorised representative may determine which of them is to be used.

(3) Equipment listed in Schedule Ia and manufactured before 1 January 1999 may also be placed on the market and on board a Community ship the certificates of which were issued by or on behalf of a Member State or Malta in accordance with international conventions until 1 January 2001 if it was manufactured in accordance with procedures for type-approval already in force within the territory of that Member State or Malta before 1 January 1999.

(4) The placing on the market or the placing on board a Community ship of equipment referred to in Schedule Ia, which bears the mark or, for other reasons, complies with these regulations, shall not be prohibited. The issuing or renewal of safety certificates relating thereto shall not be refused.

(5) Notwithstanding the provisions of sub-regulation (4), measures may be taken as necessary by the Market Surveillance Directorate 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. Sample checks which are not provided for in the modules for conformity assessment in Schedule II shall be carried out at the expense of the Market Surveillance Directorate.

(6) The Regulatory Affairs and Market Surveillance Directorates shall offer assistance to other Member States with a view to the effective implementation and enforcement of these regulations.

Marking.

6. (1) Equipment referred to in Schedule Ia, which complies with the relevant international instruments and is manufactured in accordance with the conformity assessment procedures of regulation 8, shall have the mark affixed to it by the manufacturer or his authorised representative.

(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 authorised representative.

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

(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.

Notified bodies.

7. (1) The Regulatory Affairs Directorate shall notify the Commission and the other Member States of the bodies which it has designated to carry out the procedures set out in regulation 8, 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. Each organisation shall submit to the Regulatory Affairs Directorate complete information concerning, and evidence of, compliance with the criteria laid down in Schedule III.

(2) The conditions for the recognition of competence and the subsequent approval of notified bodies in the Method for Designating Conformity Assessment Bodies Regulations shall also apply. S.L. 427.45

(3) At least once every two years, the Regulatory Affairs Directorate shall cause an audit of the duties its notified bodies are undertaking on its behalf to be carried out by the administration or by an impartial external organisation appointed by the administration. That audit shall ensure that each notified body continues to comply with the criteria laid down in Schedule III.

(4) The designation of a body shall be withdrawn if the Regulatory Affairs Directorate finds that the body no longer complies with the criteria laid down in Schedule III. It shall immediately inform the Commission and the other Member States accordingly.

Conformity assessment procedures.

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

(a) EC Type-examination (module B) and, before equipment is placed on the market and according to the choice made by the manufacturer or his authorised representative from the possibilities indicated in Schedule Ia, all equipment shall be subject to:

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

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

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

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

(b) EC full quality assurance (module H).

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

(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).

Removal from the market.

9. (1) Where it is ascertained by inspection, 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, when correctly installed, maintained and used for its intended purpose, may compromise the health or safety of the crew, the passengers or, where applicable, other persons, or adversely affect the marine environment, the Market Surveillance Directorate shall, following consultation with the Registrar General, take all appropriate interim measures to withdraw that piece of equipment from the market or prohibit or restrict its being placed on the market or being used on board a ship.

(2) The Regulatory Affairs Directorate shall immediately inform the other Member States and the Commission of that measure and indicate the reasons for such decision and, in particular, whether non-compliance with these regulations is due to:

(a) failure to comply with regulation 5(1) and (2);

(b) incorrect application of the testing standards referred to in regulation 5(2); or

(c) shortcomings in the testing standards themselves.

(3) Where a non-complying piece of equipment bears the mark, the Market Surveillance Directorate shall take the appropriate measures against whomsoever affixed the mark. The Regulatory Affairs Directorate shall inform the Commission and the other Member States of the measures taken.

(4) Where equipment listed as "new item" under the heading "item designation" of Schedule Ia or as having been transferred from Schedule Ib to Schedule Ia was manufactured before 21 July 2009 in accordance with the procedures for type-approval already in force before that date within the Community, such equipment may be placed on the market and on board a Community ship until 21 July 2011.

Penalties.

10. The penalties applicable for the infringement of any of the provisions of these regulations shall be those provided for in article 32 of the Act.

Revocation of Legal Notice 127 of 2005.

11. The Conformity Assessment of Marine Equipment Regulations, 2005, are hereby revoked.

Schedule I

(Based on Annex A of Directive 96/98/EC)

List of acronyms used

Circ., Circular.

CENELEC, European Committee for Electro-technical Standardization.

COLREG, International Regulations for Preventing Collisions at Sea.

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

EN, European Standard.

ETSI, European Telecommunications Standards Institute.

FSS, International Code for Fire Safety Systems.

FTP, International Code for Application of Fire Test Procedures.

HSC, High Speed Craft Code.

ICAO, International Civil Aviation Organization.

IEC, International Electrotechnical Commission.

IMO, International Maritime Organization.

ISO, International Standardisation Organization.

ITU, International Telecommunication Union.

LSA, Life saving appliance.

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

MEPC, Marine Environment Protection Committee.

MSC, Maritime Safety Committee.

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

Reg., Regulation.

Res., Resolution.

Schedule Ia

(Based on Annex A.1 of Directive 96/98/EC)

[Regulations 2(1), 3, 5(1), (2) and (3), 6(1), 8(1)(a), 9(1) and (4)]

Equipment for which detailed testing standards already exist in International Instruments

Notes applicable to the whole of Schedule Ia

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

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

3. Column 5: International conventions and testing standards apply in their up-to-date version. For the purpose of identifying correctly the relevant standards, test reports, certificates of conformity and declarations of conformity shall identify the specific testing standard applied and its version.

4. Column 5: Where two sets of identifying standards are separated by "or", each set fulfils all the testing requirements to meet IMO Performance Standards; thus testing to one of these sets is sufficient to demonstrate compliance with the requirements of the relevant International Instruments. Conversely, when other separators (comma) are used all the listed references apply.

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

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

1. Life-saving appliances					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/1.1	Lifebuoys	- Reg. III/4, - Reg. X/3.	- Reg. III/7, - Reg. III/34, - IMO Res. MSC.36 (63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - LSA Code) I, II, - IMO Res. MSC.97(73) - 2000 HSC Code) 8, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.2	Position-indicating lights for life-saving appliances: (a) for survival craft and rescue boats, (b) for lifebuoys, (c) for lifejackets.	- Reg. II/4, - Reg. X/3.	- Reg. III/7, - Reg. III/22, - Reg. III/26, - Reg. III/32, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) II, IV, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 885, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70). (Except for battery requirements as specified in EN 394:1993 which only apply to lifejacket lights)	B + D B + E B + F
A.1/1.3	Lifebuoys self-activating smoke signals	- Reg. III/4, - Reg. X/3.	- Reg. III/7, - Reg. III/34, - IMO Res. MSC.36 (63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, II, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.4	Lifejackets	- Reg. III/4, - Reg. X/3.	- Reg. III/7, - Reg. III/22, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, II, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 922, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70). (Except for battery requirements as specified in EN 394:1993 which only apply to lifejacket lights)	B + D B + E B + F

1. Life-saving appliances					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/1.5	Immersion suits and anti-exposure suits not classified as lifejackets: insulated or not insulated	- Reg. III/4, - Reg. X/3.	- Reg. III/7, - Reg. III/22, - Reg. III/32, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, II, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70), - EN ISO 15027 - 3:2002.	B + D B + E B + F
A.1/1.6	Immersion suits and anti-exposure suits classified as lifejackets: insulated or not insulated	- Reg. III/4, - Reg. X/3.	- Reg. III/7, - Reg. III/22, - Reg. III/32, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, II, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70), - EN ISO 15027 - 3:2002.	B + D B + E B + F
A.l/1.7	Thermal protective aids	- Reg. III/4, - Reg. X/3.	- Reg. III/22, - Reg. III/32, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, II, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70).	B + D B + E B + F
A.1/1.8	Rocket parachute flares (pyrotechnics)	- Reg. III/4, - Reg. X/3.	- Reg. III/6, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, III, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70).	B + D B + E B + F

1. Life-saving appliances					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/1.9	Hand flares (pyrotechnics)	- Reg. III/4, - Reg. X/3.	- Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, III, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70).	B + D B + E B + F
A.1/ 1.10	Buoyant smoke signals (pyrotechnics)	- Reg. III/4, - Reg. X/3.	- Reg. III/34, - IMO Res. MSC.48(66) - (LSA Code) I, III, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70).	B + D B + E B + F
A.1/ 1.11	Line-throwing appliances	- Reg. III/4, - Reg. X/3.	- Reg. III/18, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, VII, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70).	B + D B + E B + F
A.1/ 1.12	Inflatable liferafts	- Reg. III/4, - Reg. X/3.	- Reg. III/13, - Reg. III/21, - Reg. III/26, - Reg. III/31, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, IV, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 811, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70).	B + D B + E B + F
A.1/ 1.13	Rigid liferafts	- Reg. III/4, - Reg. X/3.	- Reg. III/21, - Reg. III/26, - Reg. III/31, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, IV, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 811, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70), - IMO MSC/ Circ.1006.	B + D B + E B + F

1. Life-saving appliances					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 1.14	Automatically self-righting liferafts	- Reg. III/4, - Reg. X/3.	- Reg. III/26, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, IV, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ.809 including Add.1, - IMO MSC/Circ. 811, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70), - IMO MSC/Circ.809 including Add.1, - IMO MSC/ Circ.1006.	B + D B + E B + F
A.1/ 1.15	Canopied reversible life rafts	- Reg. III/4, - Reg. X/3.	- Reg. III/26, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, Annex 10, - IMO Res. MSC.48(66) - (LSA Code) I, IV, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, Annex 11, - IMO MSC/Circ.809 including Add.1, - IMO MSC/Circ. 811, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70), - IMO MSC/Circ.809 including Add.1, - IMO MSC/ Circ.1006.	B + D B + E B + F
A.1/ 1.16	Float-free arrangements for liferafts (hydrostatic release units)	- Reg. III/4, - Reg. X/3.	- Reg. III/13, - Reg. III/26, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, IV, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 811, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70).	B + D B + E B + F

1. Life-saving appliances					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 1.17	Lifeboats	- Reg. III/4, - Reg. X/3.	- Reg. III/21, - Reg. III/31, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, IV, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70), - IMO MSC/ Circ.1006.	B + D B + F G
A.1/ 1.18	Rigid rescue boats	- Reg. III/4, - Reg. X/3.	- Reg. III/21, - Reg. III/31, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, V, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70), - IMO MSC/ Circ.1006.	B + D B + F G
A.1/ 1.19	Inflated rescue boats	- Reg. III/4, - Reg. X/3.	- Reg. III/21, - Reg. III/31, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, V, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70), - ISO 15372:2000.	B + D B + F G
A.1/ 1.20	Fast rescue boats	- Reg. III/4.	- Reg. III/26, - Reg. III/34, - IMO Res. MSC.48(66) - (LSA Code) I, V, - IMO MSC/Circ.809 including Add.1, - IMO MSC/Circ. 980. - IMO MSC/Circ. 1016, - IMO MSC/CIRC. 1094.	- IMO Res. MSC.81(70), - IMO MSC/ Circ.1006, - ISO 15372:2000	B + D B + F G

1. Life-saving appliances					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 1.21	Launching appliances using falls (davits)	- Reg. III/4, - Reg. X/3.	- Reg. III/23, - Reg. III/33, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, VI, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70).	B + D B + E B + F G
A.1/ 1.22	Float-free launching appliances for survival craft	Moved to A.2/1.3			
A.1/ 1.23	Launching appliances for free-fall lifeboats	- Reg. III/4, - Reg. X/3.	- Reg. III/16, - Reg. III/23, - Reg. III/33, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, VI, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70).	B + D B + E B + F G
A.1/ 1.24	Liferaft launching appliances (Davits)	- Reg. III/4, - Reg. X/3.	- Reg. III/12, - Reg. III/16, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, VI, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70).	B + D B + E B + F G
A.1/ 1.25	Fast rescue boat launching appliances (Davits)	- Reg. III/4.	- Reg. III/26, - Reg. III/34, - IMO Res. MSC.48(66) - (LSA Code) I, VI, - IMO MSC/Circ.809 including Add.1, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70).	B + D B + E B + F G

1. Life-saving appliances					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 1.26	Release mechanism for: (a) Lifeboats and rescue boats and (b) Liferafts, Launched by a fall or falls	- Reg. III/4, - Reg. X/3.	- Reg. III/16, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, IV, VI, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70).	B + D B + E B + F
A.1/ 1.27	Marine evacuation systems	- Reg. III/4, - Reg. X/3.	- Reg. III/15, - Reg. III/26, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, VI, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70).	B + D B + F G
A.1/ 1.28	Means of rescue	- Reg. III/4, - Reg. X/3.	- Reg. III/26, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, VI, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70), - IMO MSC/ Circ.810.	B + D B + F
A.1/ 1.29	Embarkation ladders	Moved to A.2/1.4			
A.1/ 1.30	Retro-reflective materials	- Reg. III/4, - Reg. X/3.	- Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 980.	- IMO Res. A.658(16).	B + D B + E B + F
A.1/ 1.31	Survival craft two-way VHF radio telephone apparatus	Moved to A.1/5.17 and A.1/5.18			
A.1/ 1.32	9GHz SAR transponder (SART)	Moved to A.1/4.18			

1. Life-saving appliances					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 1.33	Radar reflector for lifeboats and rescue boats	- Reg. III/4, - Reg. X/3.	- Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, IV, V, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO Res. MSC.164(78), - IMO MSC/Circ. 980.	- EN ISO 8729:1998	B + D B + E B + F G
A.1/ 1.34	Compass for lifeboats and rescue boats	Moved to A.1/4.23			
A.1/ 1.35	Portable fire-extinguishing equipment for lifeboats and rescue boats	Moved to A.1/3.38			
A.1/ 1.36	Lifeboat/ rescue boat propulsion engine	- Reg. III/4, - Reg. X/3.	- Reg. III/34, - IMO Res. MSC.48(66) - (LSA Code) IV, V.	- IMO Res. MSC.81(70).	B + D B + E B + F
A.1/ 1.37	Rescue boat propulsion engine-outboard motor	- Reg. III/4, - Reg. X/3.	- Reg. III/34, - IMO Res. MSC.48(66) - (LSA Code) V.	- IMO Res. MSC.81(70).	B + D B + E B + F
A.1/ 1.38	Searchlights for use in Lifeboats and Rescue Boats	- Reg. III/4, - Reg. X/3.	- Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, IV, V, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ. 980.	- IMO Res. MSC.81(70).	B + D B + E B + F
A.1/ 1.39	Open reversible liferafts	- Reg. III/4, - Reg. X/3.	- IMO Res. MSC.36(63) - (1994 HSC Code) 8, Annex 10, - IMO Res. MSC.48(66) - (LSA Code) I, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, Annex 11, - IMO MSC/Circ. 980.	- IMO Res. MSC.36(63) - (1994 HSC Code) Annex 10, - IMO Res. MSC.97(73) – (2000 HSC Code) Annex 11.	B + D B + F

1. Life-saving appliances

No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 1.40	Mechanical pilot hoist	- Reg. V/23.	- Reg. V/23, - IMO Res. A.889(21), - IMO MSC/Circ.773, - IMO MSC/Circ.980.	- ISO 799:2004	B + D B + E B + F
A.1/ 1.41 (New item)	Winches for survival craft and rescue boats	- Reg. III/4, - Reg. X/3.	- Reg. III/16, - Reg. III/17, - Reg. III/23 - Reg. III/24, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, VI, - IMO Res. MSC.97(73) - (2000 HSC Code) 8,	- IMO Res. MSC.48(66) - (LSA Code), - IMO Res. MSC.81(70).	B + D B + E B + F G
A.1/ 1.42 (New item)	Pilot ladder	- Reg. V/23, - Reg. X/3.	- Reg. V/23, - IMO Res. A.889(21), - IMO MSC/Circ.528/rev.1.	- IMO Res. A.889(21).	B + D B + E B + F G

2. Marine pollution prevention

No	Item designation	Regulation Marpol 73/78 where 'type-approval' is required	Regulations of Marpol 73/78 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/2.1	Oil-filtering equipment (for an oil content of the effluent not exceeding 15 p.p.m.)	- Annex I, Reg. 16(4), - Annex I, Reg. 16(5), - Revised Annex I, Reg. 14.6, - Revised Annex I, Reg. 14.7.	- Annex I, Reg. 16(1), - Annex I, Reg. 16(2), - Revised Annex I Reg. 14.1, - Revised Annex I Reg. 14.2, - Revised Annex I Reg. 14.3.	- IMO Res. MEPC.60(33), - IMO Res. MEPC.107(49).	B + D B + E B + F
A.1/2.2	Oil/water interface detectors	- Annex I, Reg. 15(3)(b), - Revised Annex I, Reg. 32.	- Annex I, Reg. 15(3)(b), - Revised Annex I, Reg. 32.	- IMO Res. MEPC.5(XIII).	B + D B + E B + F

2. Marine pollution prevention					
No	Item designation	Regulation Marpol 73/78 where 'type-approval' is required	Regulations of Marpol 73/78 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/2.3	Oil-content meters	- Annex I, Reg. 16(5), - Revised Annex I, Reg. 14.7, - Revised Annex I, Reg. 14.7.	- Annex I, Reg. 16(1) and (2), - Revised Annex I Reg. 14.1 and 14.2.	- IMO Res. MEPC.60(33), - IMO Res. MEPC.107(49).	B + D B + E B + F
A.1/2.4	Process units intended for attachment to existing oily water separating equipment (for an oil content of the effluent not exceeding 15 p.p.m.)	Item deleted			
A.1/2.5	Oil discharge monitoring and control system for an oil tanker	- Annex I, Reg. 15(3)(a), - Revised Annex I, Reg. 31.2, - Revised Annex I, Reg. 31.3.	- Annex I, Reg. 15(3), - Revised Annex I, Reg. 31.2, - Revised Annex I, Reg. 31.3, - Revised Annex I, Reg. 31.4.	- IMO Res. MEPC.108(49).	B + D B + E B + F
A.1/2.6	Sewage systems	- Annex IV, Reg. 9.	- Revised Annex IV, Reg. 9.	- IMO Res. MEPC.2(VI)	B + D B + E B + F
A.1/2.7	Shipboard incinerators	- Annex VI, Reg. 16(2)(a), - Annex VI, Reg. 16.	- Annex VI, Reg. 16(2)(a), - Annex VI, Reg. 16.	- IMO Res. MEPC.76(40).	B + D B + E B + F G

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/3.1	Primary decks covering	- Reg. II-2/4, - Reg. II-2/6, - Reg. X/3.	- Reg. II-2/4, - Reg. II-2/6, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7.	- IMO Res. A.653(16), - IMO Res. A.687(17), - IMO Res. MSC.61(67) -(FTP Code), - IMO MSC/Circ.916, - IMO MSC/ Circ.1004.	B + D
A.1/3.2	Portable fire extinguishers	- Reg. II-2/10, - Reg. X/3, - IMO Res. MSC.98(73) - (FSS Code) 4.	- Reg. II-2/10, - Reg. II-2/19, - Reg. II-2/20, - IMO Res. A.951(23), - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7, - IMO Res. MSC.98(73) - (FSS Code) 4.	- EN 3-3:1994, - EN 3-6:1995 including A.1:1999, - EN 3-7:2004.	B + D B + E B + F
A.1/3.3	Fire-fighter's outfit: protective clothing (close proximity clothing)	- Reg. II-2/10, - Reg. X/3, - IMO Res. MSC.98(73) - (FSS Code) 3.	- Reg. II-2/10, -IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7, - IMO Res. MSC.98(73) - (FSS Code) 3.	- EN 469:2006, - EN 531:1995, - EN 531/A1:1998, - EN 1486:1996. Or - ISO 15538:2001.	B + D B + E B + F
A.1/3.4	Firefighter's outfit: boots	- Reg. II-2/10, - Reg. X/3, - IMO Res. MSC.98(73) – (FSS Code) 3.	- Reg. II-2/10, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7, - IMO Res. MSC.98(73) – (FSS Code) 3.	- EN ISO 20344:2004, - EN ISO 20345:2004.	B + D B + E B + F
A.1/3.5	Firefighter's outfit: gloves	- Reg. II-2/10, - Reg. X/3, - IMO Res. MSC.98(73) - (FSS Code) 3.	- Reg. II-2/10, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7, - IMO Res. MSC.98(73) - (FSS Code) 3.	- EN 659:2003, - EN 60903:2002 (for conductivity only).	B + D B + E B + F

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/3.6	Firefighter's outfit: helmet	- Reg. II-2/10, - Reg. X/3, - IMO Res. MSC.98(73) - (FSS Code) 3.	- Reg. II-2/10, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7, - IMO Res. MSC.98(73) - (FSS Code) 3.	- EN 443:1997.	B + D B + E B + F
A.1/3.7	Self-contained compressed-air-operated breathing apparatus Note: For use in accidents involving dangerous goods a positive pressure type mask is required.	- Reg. II-2/10, - Reg. X/3, - IMO Res. MSC.98(73) - (FSS Code) 3.	- Reg. II-2/10, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7, - IMO Res. MSC.98(73) - (FSS Code) 3.	- EN 136:1998, - EN 137:2007.	B + D B + E B + F
A.1/3.8	Air-supplied breathing apparatus for use with a smoke helmet or smoke mask Note: For use in accidents involving dangerous goods a positive pressure type mask is required.	- Reg. X/3. Note: This item is not included in new Chapter II-2 Regulations [IMO Res. MSC.99(73)] or FSS Code [IMO Res. MSC.98(73)].	- IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7,	- EN 14593-1:2005, - EN 14593-2:2005, - EN 14594:2005.	B + D B + E B + F

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/3.9	Sprinkler systems components for accommoda-tion spaces, service spaces and control stations equivalent to that referred to in SOLAS 74 Regulation II-2/12 (limited to nozzles and their performance).	- Reg. II-2/7, - Reg. II-2/10, - IMO Res. MSC.98(73) - (FSS Code) 8.	- Reg. II-2/7, - Reg. II-2/9, - Reg. II-2/10, - IMO Res. MSC.98(73) - (FSS Code) 8.	- IMO Res. A.800(19).	B + D B + E B + F G
A.1/ 3.10	Nozzles for fixed pressure water spraying fire extinguishing systems for machinery spaces	Moved to A.2/3.11			
A.1/ 3.11	'A' and 'B' Class divisions, fire integrity (a) 'A' class divisions, (b) 'B' class divisions.	‘A’ Class: - Reg. II-2/3.2. ‘B’ Class: - Reg. II-2/3.4.	- Reg. II-2/9, and, ‘A’ Class: - Reg. II-2/3.2. ‘B’ Class: - Reg. II-2/3.4.	- IMO Res. MSC.61(67) - (FTP Code), - IMO MSC/ Circ.1120.	B + D B + E B + F
A.1/ 3.12	Devices to prevent the passage of flame into the cargo tanks in tankers	- Reg. II-2/4, - Reg. II-2/16.	- Reg. II-2/4, - Reg. II-2/16.	- EN 21874:2001, - ISO 15364:2000, - MO MSC/Circ.677, - IMO MSC/ Circ.1009.	B + F
A.1/ 3.13	Non-combustible materials	- Reg. II-2/10, - Reg. X/3.	- Reg. II-2/3, - Reg. II-2/5, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.98(73) - (FSS Code) 7.	- IMO Res. MSC.61(67) - (FTP Code), - IMO MSC/ Circ.1120.	B + D B + E B + F

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 3.14	Materials other than steel for pipes penetrating 'A' or 'B' Class division	- Reg. II-2/9.	- Reg. II-2/9.	- IMO Res. A.754(18), - IMO Res. MSC.61(67) - (FTP Code), - IMO MSC/ Circ.1120.	B + D B + E B + F
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	- Reg. II-2/4, - Reg. X/3.	- Reg. II-2/4, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, 10, - IMO Res. MSC.97(73) - (2000 HSC Code) 7, 10.	- IMO Res. A.753(18), - ISO 15540:1999, - ISO 15541:1999.	B + D B + E B + F
A.1/ 3.16	Fire doors	- Reg. II-2/9.	- Reg. II-2/9.	- IMO Res. MSC.61(67) - (FTP Code), - IMO MSC/ Circ.1120.	B + D B + E B + F G
A.1/ 3.17	Fire door control systems components Note: When the term 'system components' is used in column 2 it may be that a single component, a group of components or a whole system needs to be tested to ensure that the international requirements are fulfilled.	- Reg. II-2/9, - Reg. X/3.	- Reg. II-2/9, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7.	- IMO Res. MSC.61(67) - (FTP Code).	B + D B + E B + F

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 3.18	Surface materials and floor coverings with low flame-spread characteristics: (a) decorative veneers, (b) paint systems, (c) floor coverings, (d) pipe insulation covers, (e) adhesives used in the construction of 'B' and 'C' class divisions, (f) combustible ducts.	- Reg. II-2/3, - Reg. II-2/5, - Reg. II-2/6, - Reg. II-2/9, - Reg. X/3.	- Reg. II-2/3, - Reg. II-2/5, - Reg. II-2/6, - Reg. II-2/9, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7.	- IMO Res. MSC.61(67) - (FTP Code), - IMO MSC/Circ.916, - IMO MSC/ Circ.1004, - IMO MSC/ Circ.1036, - IMO MSC/ Circ.1120, - ISO 1716:2002. Note: Where the surface material is required to have a certain maximum calorific value, this shall be measured in accordance with ISO 1716.	B + D B + E B + F
A.1/ 3.19	Draperies, curtains and other suspended textile materials and films (The designation is with regard to SOLAS requirements).	- Reg. II-2/3, - Reg. II-2/9, - Reg. X/3.	- Reg. II-2/3, - Reg. II-2/9, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7.	- IMO Res. MSC.61(67) - (FTP Code).	B + D B + E B + F
A.1/ 3.20	Upholstered furniture (The designation is with regard to SOLAS requirements).	- Reg. II-2/3, - Reg. II-2/5, - Reg. II-2/9, - Reg. X/3.	- Reg. II-2/3, - Reg. II-2/5, - Reg. II-2/9, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7.	- - IMO Res. MSC.61(67) - (FTP Code).	B + D B + E B + F

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 3.21	Bedding components (The designation is with regard to SOLAS requirements).	- Reg. II-2/3, - Reg. II-2/9, - Reg. X/3.	- Reg. II-2/3, - Reg. II-2/9, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7.	- IMO Res. MSC.61(67) - (FTP Code).	B + D B + E B + F
A.1/ 3.22	Fire dampers	- Reg. II-2/9.	- Reg. II-2/9.	- IMO Res. MSC.61(67) - (FTP Code), - IMO MSC/ Circ.1120.	B + D B + E B + F
A.1/ 3.23	Non-combustible duct penetrations through 'A' class divisions	Moved to A.1/3.26			
A.1/ 3.24	Electric Cable Transits through 'A' class divisions	Moved to A.1/3.26			
A.1/ 3.25	‘A’ and ‘B’ class fire proof windows and side scuttles	- Reg. II-2/9.	- Reg. II-2/9, - IMO MSC/Circ.847, - IMO MSC/Circ.1120,	- IMO Res. MSC.61(67) - (FTP Code), - IMO MSC/ Circ.1004, - IMO MSC/ Circ.1036, - IMO MSC/ Circ.1120.	B + D B + E B + F
A.1/ 3.26	Penetrations through 'A' class divisions (a) electric cable transits, (b) pipe, duct, trunk, etc penetrations	- Reg. II-2/9.	- Reg. II-2/9.	- IMO Res. MSC.61(67) - (FTP Code), - IMO MSC/ Circ.1120.	B + D B + E B + F

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 3.27	Penetrations through 'B' class (a) electric cable transits, (b) pipe, duct, trunk, etc penetrations	- Reg. II-2/9.	- Reg. II-2/9.	- IMO Res. MSC.61(67) - (FTP Code), - IMO MSC/ Circ.1120.	B + D B + E B + F
A.1/ 3.28	Sprinkler systems (limited to sprinkler heads)	- Reg. II-2/7, - Reg. II-2/10, - IMO Res. MSC.98(73) - (FSS Code), 8.	- Reg. II-2/10, - IMO Res. MSC.98(73) - (FSS Code), 8.	- ISO 6182-1:2004. Or, - EN 12259-1:1999.	B + D B + E B + F
A.1/ 3.29	Fire hoses	- Reg. II-2/10, - Reg. X/3.	- Reg. II-2/10, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7.	- EN 14540:2004.	B + D B + E B + F
A.1/ 3.30	Portable oxygen analysis and gas detection equipment	- Reg. II-2/4, - Reg. VI/3.	- Reg. II-2/4, - IMO Res. MSC.98(73) - (FSS Code) 15.	- EN 60945:2002, - IEC 60092-504:2001, - IEC 60533:1999, And as applicable to: (a) Category 1: (safe area): - EN 50104:2002 including Amd. 2004 Oxygen, - EN 61779-1:2000, - EN 61779-4:2000, (b) Category 2: (explosive gas atmospheres): - EN 50104:2002 including Amd. 2004 Oxgygen, - EN 61779-1:2000, - EN 61779-4:2000, - IEC 60079-0:2004, - IEC 60079-1:2003, - IEC 60079-10:2002, - IEC 60079-11:2006, - IEC 60079-15:2005, - IEC 60079-26:2006.	B + D B + E B + F

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 3.31	Nozzles for fixed sprinkler systems, for high-speed craft	- Reg. X/3.	- IMO MSC/Circ.912, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7.	- IMO MSC/ Circ.44(65).	B + D B + E B + F G
A.1/ 3.32	Fire restricting materials (except furniture) for high-speed craft	- Reg. X/3.	- IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7.	- IMO Res. MSC.61(67) - (FTP Code).	B + D B + E B + F
A.1/ 3.33	Fire restricting materials for furniture for high-speed craft	- Reg. X/3.	- IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7.	- IMO Res. MSC.61(67) - (FTP Code).	B + D B + E B + F
A.1/ 3.34	Fire resisting divisions for high speed craft	- Reg. X/3.	- IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7.	IMO Res. MSC.61(67) - (FTP Code).	B + D B + E B + F
A.1/ 3.35	Fire doors on high speed craft	- Reg. X/3.	- IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7.	- IMO Res. A.754(18), - IMO Res. MSC.61(67) - (FTP Code).	B + D B + E B + F
A.1/ 3.36	Fire dampers on high speed craft	- Reg. X/3.	- IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7.	- IMO Res. A.754(18), - IMO Res. MSC.61(67) - (FTP Code).	B + D B + E B + F
A.1/ 3.37	Penetrations through fire resisting divisions on high-speed craft (a) electric cable transits, (b) pipe, duct, trunk etc penetrations	- Reg. X/3.	- IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7.	- IMO Res. A.754(18), - IMO Res. MSC.61(67) - (FTP Code).	B + D B + E B + F

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 3.38	Portable fire-extinguishing equipment for lifeboats and rescue boats	- Reg. III/4, - Reg. X/3.	- Reg. III/34, - IMO Res. A.951(23), - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, IV, V, - IMO Res. MSC.97(73) - (2000 HSC Code) 8.	- EN 3-3:1994, - EN 3-6:1995, - EN 3-6A1:1999, - EN 3-7:2004.	B + D B + E B + F
A.1/ 3.39	Nozzles for equivalent water based fire extinguishing systems for machinery spaces of category ‘A’ and cargo pump rooms	- Reg. II-2/10.	- Reg. II-2/10, - IMO Res. MSC.98(73) - (FSS Code) 7.	- IMO MSC/ Circ.1165.	B + D B + E B + F
A.1/ 3.40	Low-location lighting systems (components only)	- Reg. II-2/13, - IMO Res. MSC.98(73) - (FSS Code) 11.	- Reg. II-2/13, - IMO Res. MSC.98(73) - (FSS Code) 11.	- IMO Res. A.752(18). Or, - ISO 15370:2001.	B + D B + E B + F G
A.1/ 3.41	Emergency escape breathing devices (EEBD)	- Reg. II-2/13.	- Reg. II-2/13.3.4, - Reg. II-2/13.4.3, - IMO Res. MSC.98(73) - (FSS Code) 3, - IMO MSC/Circ.849.	- EN 402:2003, - EN 1146:2005, - EN 13794:2002.	B + D B + E B + F
A.1/ 3.42	Inert gas systems components	- Reg. II-2/4.	- Reg. II-2/4, - IMO Res. A.567(14), - IMO Res. MSC.98(73) - (FSS Code) 15, - IMO MSC/Circ.847 Corr.1, - IMO MSC/Circ.1120.	- IMO MSC/Circ.353, - IMO MSC/Circ.450 Rev.1, - IMO MSC/Circ.485.	B + D B + E B + F G
A.1/ 3.43	Nozzles for deep fat cooking equipment fire extinguishing systems (automatic or manual type)	- Reg. II-2/1, - Reg. II-2/10, - Reg. X/3.	- Reg. II-2/1.2.2.3, - Reg. II-2/10.6.4, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7.	- ISO 15371:2000.	B + D B + E B + F G

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 3.44	Firefighters outfit lifeline	- Reg. II-2/10, - Reg. X/3, - IMO Res. MSC.98(73) - (FSS Code) 3.	- Reg. II-2/10, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7, - IMO Res. MSC.98(73) - (FSS Code) 3.	- IMO Res. MSC.61(67) - (FTP Code), - IMO Res. MSC.98(73) - (FSS Code).	B + D B + E B + F
A.1/ 3.45	Equivalent fixed gas fire extinguishing systems components (extinguishing medium, head valves and nozzles) for machinery spaces and cargo pump rooms	- Reg. II-2/10, - Reg. X/3, - IMO Res. MSC.98(73) - (FSS Code) 5.	- Reg. II-2/10 - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7, - IMO Res. MSC.98(73) - (FSS Code) 5. - IMO MSC/Circ.848.	- IMO MSC/Circ.848.	B + D B + E B + F
A.1/ 3.46	Equivalent fixed gas fire extinguishing systems components for machinery spaces (aerosol systems)	- Reg. II-2/10, - Reg. X/3, - IMO Res. MSC.98(73) - (FSS Code) 5, - IMO MSC/ Circ.1007.	- Reg. II-2/10, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7, - IMO Res. MSC.98(73) - (FSS Code) 5. - IMO MSC/Circ.1007.	- IMO MSC/ Circ.1007.	B + D B + E B + F

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 3.47	Concentrate for fixed high expansion foam fire extinguishing systems for machinery spaces and cargo pump rooms Note: The fixed high expansion foam fire extinguishing system for machinery spaces and cargo pump rooms must still be tested with the approved concentrate to the satisfaction of the Administration	- Reg. II-2/10.	- Reg. II-2/10, - IMO Res. MSC.98(73) - (FSS Code) 6.	- IMO MSC/Circ.670.	B + D B + E B + F G
A.1/ 3.48	Fixed water based local application fire fighting systems components for use in category 'A' machinery spaces. (Nozzles and performance tests)	- Reg. II-2/1, - Reg. II-2/10, - Reg. II-X/3.	- Reg. II-2/1, - Reg. II-2/10, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7,	- IMO MSC/Circ.913.	B + D B + E B + F

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 3.49	Nozzles for fixed pressure water-spraying fire-extinguishing systems for special category spaces, ro-ro cargo spaces, ro-ro spaces and vehicle spaces	Moved to A.2/3.2			
A.1/ 3.50	Protective clothing resistant to chemical attack	Moved to A.2/3.9			

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 3.51 Ex A.2/3.5 Ex A.2/3.6 Ex A.2/3.7 Ex A.2/ 3.16 Ex A.2/ 3.17	Fixed fire detection and fire alarm systems components for control stations, service spaces, accommo-dation spaces, machinery spaces and unattented machinery spaces	- Reg. II-2/7, - Reg. X/3, - IMO Res. MSC.98(73) - (FSS Code) 9.	- Reg. II-2/7.2.2, - Reg. II-2/7.4, - Reg. II.2/7.4.1, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7, - IMO Res. MSC.98(73) - (FSS Code) 9.	Control and indicating equipment. Electrical installations in ships: - EN 54-2:1997 including AC:1999 and A1:2006. Power supply equipment: - EN 54-4:1997 including AC:1999, A1:2002 and A2:2006. Heat detectors - Point detectors: - EN 54-5:2000 including A1:2002. Smoke detectors - Point detectors using scattered light, transmitted light or ionization: - EN 54-7:2000 including A1:2002 and A2:2006. Flame detectors - Point detectors: - EN 54-10:2002 including A1:2005. Manual call points: - EN 54-11:2001 including A1:2005. And, as applicable, electrical and electronic installations in ships: - IEC 60092-504:2001, - IEC 60533:1999.	B + D B + E B + F

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 3.52 Ex A.2/3.1	Non-portable and transportable extinguishers	- Reg. II-2/10, - Reg. X/3, - IMO Res. MSC.98(73) - (FSS Code) 4.	- Reg. II-2/4, - Reg. II-2/10, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7, - IMO Res. MSC.98(73) - (FSS Code) 4.	- EN 1866:1998. Or, - EN 11601:1999.	B + D B + E B + F
A.1/ 3.53 Ex A.2/ 3.18	Alarm devices	- Reg. II-2/7, - Reg. X/3, - IMO Res. MSC.98(73) - (FSS Code) 9.	- Reg. II-2/7, -IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7, - IMO Res. MSC.98(73) - (FSS Code) 9.	Sounders - EN 54-3:2001 including A1:2002 and A2:2006, - IEC 60092-504:2001, - IEC 60533:1999.	B + D B + E B + F
A.1/ 3.54 (New item)	Fixed oxygen analysis and gas detection equipment	- Reg. VI/3.	- Reg. II-2/4, - IMO Res. MSC.98(73) - (FSS Code) 15.	- EN 60945:2002, - IEC 60092-504:2001, - IEC 60533:1999, And as applicable to: (a) Category 4: (safe area): - EN 50104:2002 including AMD 2004 Oxygen, - EN 61779-1:2000, - EN 61779-4:2000. (b) Category 3: (explosive gas atmospheres): - EN 50104:2002 including AMD 2004 Oxygen, - EN 61779-11:2000.	B + D B + E B + F

4. Navigation equipment

Notes applicable to section 4: Navigation equipment

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

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 4.1	Magnetic compass	- Reg. V/18.	- Reg. V/19, - IMO Res. A.382(X), - IMO Res. A.694(17).	- EN ISO 449:1999, - EN ISO 694:2001, - ISO 1069:1973, - ISO 2269:1992, - EN 60945:2002. Or, - ISO 449:1997, - ISO 694:2000, - ISO 1069:1973, - ISO 2269:1992, - IEC 60945:2002.	B + D B + E B + F G
A.1/ 4.2	Transmitting heading device THD (magnetic method)	- Reg. V/18, - Reg. V/19, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13, - IMO Res. MSC.116(73).	- EN 60945:2002, - EN 61162 series, - ISO 22090-2:2004 including corrigendum 2005. Or, - IEC 60945:2002, - IEC 61162 series, - ISO 22090-2:2004 including corrigendum 2005.	B + D B + E B + F G
A.1/ 4.3	Gyro compass	- Reg. V/18.	- Reg. V/19, - IMO Res. A.424(XI), - IMO Res. A.694(17).	- EN ISO 8728:1998, - EN 60945:2002, - EN 61162 series. Or, - ISO 8728:1997, - IEC 60945:2002, - IEC 61162 series.	B + D B + E B + F G
A.1/ 4.4	Radar equipment	Moved to A.1/4.34, A.1/4.35 and A.1/4.36			
A.1/ 4.5	Automatic radar plotting aid (ARPA)	Moved to A.1/4.34			
A.1/ 4.6	Echo sounding equipment	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.224(VII), - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- EN ISO 9875:2001, - EN 60945:2002, - EN 61162 series. Or, - ISO 9875:2000, - IEC 60945:2002, - IEC 61162 series.	B + D B + E B + F G

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 4.7	Speed and distance measuring equipment (SDME)	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. A.824(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- EN 60945:2002, - EN 61023:1999, - EN 61162 series. Or, - IEC 60945:2002, - IEC 61023:1999, - IEC 61162 series.	B + D B + E B + F G
A.1/ 4.8	Rudder angle, rpm, pitch indicator	Moved to A.1/4.20, A.1/4.21 and A.1/4.22			
A.1/ 4.9	Rate-of-turn indicator	Moved to A.2/4.26			
A.1/ 4.10	Direction finder	Item deleted			
A.1/ 4.11	Loran-C equipment	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. A.824(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- EN 60945:2002, - EN 61075:1993, - EN 61162 series. Or, - IEC 60945:2002, - IEC 61075:1991, - IEC 61162 series.	B + D B + E B + F G
A.1/ 4.12	Chayka equipment	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. A.818(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- EN 60945:2002, - EN 61075:1993, - EN 61162 series. Or, - IEC 60945:2002, - IEC 61075:1991, - IEC 61162 series.	B + D B + E B + F G
A.1/ 4.13	Decca navigator equipment	Item deleted			

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 4.14	GPS equipment	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. A.819(19), - IMO Res. MSC.36(63) – (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code), - IMO Res. MSC.112(73).	- EN 60945:2002, - EN 61108-1:2003, - EN 61162 series. Or, - IEC 60945:2002, - IEC 61108-1:2003, - IEC 61162 series.	B + D B + E B + F G
A.1/ 4.15	GLONASS equipment	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13, - IMO Res. MSC.113(73).	- EN 60945:2002, - EN 61108-2:1998, - EN 61162 series. Or, - IEC 60945:2002, - IEC 61108-2:1998, - IEC 61162 series.	B + D B + E B + F G
A.1/ 4.16	Heading control system (HCS) (formerly autopilot)	- Reg. V/18.	- Reg. V/19, - IMO Res. A.342(IX), - IMO Res. A.694(17).	- EN ISO 11674:2001, - EN 60945:2002, - EN 61162 series. Or, - IEC 11674:2000, - IEC 60945:2002, - IEC 61162 series.	B + D B + E B + F G
A.1/ 4.17	Mechanical pilot hoist	Moved to A.1/1.40			
A.1/ 4.18	9 GHz SAR transponder (SART)	- Reg. III/4, - Reg. IV/14, - Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. III/6, - Reg. IV/7, - IMO Res. A.530(13), - IMO Res. A.802(19), - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code) 8, 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, 14, - ITU-R M.628-3(11/93).	- EN 60945:2002, - EN 61097-1:1993. Or, - IEC 60945:2002, - IEC 61097-1:1992.	B + D B + E B + F G
A.1/ 4.19	Radar equipment for high-speed craft	Moved to A.1/4.37			

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 4.20	Rudder angle indicator	Moved to A.2/4.27			
A.1/ 4.21	Propeller revolution indicator	Moved to A.2/4.28			
A.1/ 4.22	Pitch indicator	Moved to A.2/4.29			
A. 1/ 4.23	Compass for lifeboats and rescue boats	- Reg. III/4, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. III/34, - IMO Res. MSC.48(66) - (LSA Code) IV, V, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, 13.	- EN ISO 613:2001, - ISO 10316:1990. Or, - ISO 613:2000, - ISO 10316:1990.	B + D B + E B + F G
A.1/ 4.24	Automatic radar plotting aid (ARPA) for high speed craft	Moved to A.1/4.37			
A.1/ 4.25	Automatic tracking aid (ATA)	Moved to A.1/4.35			
A.1/ 4.26	Automatic tracking aid (ATA) for high speed craft	Moved to A.1/4.38			
A.1/ 4.27	Electronic plotting aid (EPA)	Moved to A.1/4.36			
A.1/ 4.28	Integrated bridge system	Moved to A.2/4.30			

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 4.29	Voyage data recorder (VDR)	- Reg. V/18, - Reg. V/20, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. V/20, - IMO Res. A.694(17), - IMO Res. A.861(20), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- EN 60945:2002, - EN 61162 series, - EN 61996:2001 Or, - IEC 60945:2002, - IEC 61162 series, - IEC 61996:2000	B + D B + E B + F G
A.1/ 4.30	Electronic chart display and information system (ECDIS) with backup, and raster chart display system (RCDS)	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. A.817(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13. [ECDIS back-up and RCDS are only applicable when this functionality is included in the ECDIS. The module B certificate shall indicate whether these options were tested].	- EN 60945:2002, - EN 61162 series, - EN 61174:2001-12. Or, - IEC 60945:2002, - IEC 61162 series, - IEC 61174:2001-10.	B + D B + E B + F G
A.1/ 4.31	Gyro compass for high-speed craft	- Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- IMO Res. A.694(17), - IMO Res. A.821(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- ISO 16328:2001, - EN 60945:2002, - EN 61162 series. Or, - ISO 16328:2001, - IEC 60945:2002, - EN 61162 series.	B + D B + E B + F G

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 4.32	Universal automatic identification system equipment (AIS)	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.74(69), - IMO Res. MSC.97(73) - (2000 HSC Code) 13, - ITU-R M. 1371-1(10/00). Note: ITU-R M. 1371-1(10/ 00) Annex 3 shall only be applicable in accordance with requirements of IMO Res. MSC.74(69).	- EN 60945:2002, - EN 61162 series, - EN 61993-2:2001. Or, - IEC 60945:2002, - IEC 61162 series, - IEC 61993-2:2001	B + D B + E B + F G
A.1/ 4.33	Track control system (working at ship's speed from minimum maneuvering speed up to 30 knots)	- Reg. V/18, - Reg. X/3.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.74(69).	- EN 60945:2002, - EN 61162 series, - EN 62065:2002. Or, - IEC 60945:2002, - IEC 61162 series, - IEC 62065:2002.	B + D B + E B + F G
A.1/ 4.34	Radar equipment with automatic radar plotting aid (ARPA)	- Reg. V/18.	- Reg. V/19, - IMO Res. A.278(VIII), - IMO Res. A.694(17), - IMO Res. A.823(19), - IMO Res. MSC.64(67), - ITU-R M. 628-3(11/93), - ITU-R M. 1177-3(06/03).	- EN 60872-1:1998, - EN 60936-1:2000, - EN 60936-1 A1:2002, - EN 60945:2002, - EN 61162 series. Or, - IEC 60872-1:1998, - IEC 60936-1 Ed.1.1:2002, - IEC 60945:2002, - IEC 61162 series.	B + D B + E B + F G
A.1/ 4.35	Radar equipment with automatic tracking aid (ATA)	- Reg. V/18.	- Reg. V/19, - IMO Res. A.278(VIII), - IMO Res. A.694(17), - IMO Res. MSC.64(67), - ITU-R M. 628-3(11/93), - ITU-R M. 1177-3(06/03).	- EN 60872-2:1999, - EN 60936-1:2000, - EN 60936-1 A1:2002, - EN 60945:2002, - EN 61162 series. Or, - IEC 60872-1:1998, - IEC 60936-1 Ed.1.1:2002, - IEC 60945:2002, - IEC 61162 series.	B + D B + E B + F G

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 4.36	Radar equipment with electronic plotting aid (EPA)	- Reg. V/18.	- Reg. V/19, - IMO Res. A.278(VIII), - IMO Res. A.694(17), - IMO Res. MSC.64(67), - ITU-R M. 628-3(11/93), - ITU-R M. 1177-3(06/03).	- EN 60872-3:2001, - EN 60936-1:2000, - EN 60936-1 A1:2002, - EN 60945:2002, - EN 61162 series. Or, - IEC 60872-3:2000, - IEC 60936-1 Ed.1.1:2002, - IEC 60945:2002, - IEC 61162 series.	B + D B + E B + F G
A.1/ 4.37	Radar equipment with automatic radar plotting aid (ARPA) for high speed craft	- Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- IMO Res. A.278(VIII), - IMO Res. A.694(17), - IMO Res. A.820(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.64(67), - IMO Res. MSC.97(73) - (2000 HSC Code) 13, - ITU-R M. 628-3(11/93), - ITU-R M. 1177-3(06/03).	- EN 60872-1:1998, - EN 60936-2:1999, - EN 60945:2002, - EN 61162 series. Or, - IEC 60872-1:1998, - IEC 60936-2:1998, - IEC 60945:2002, - IEC 61162 series.	B + D B + E B + F G
A.1/ 4.38	Radar equipment with automatic tracking aid (ATA) for high speed craft	- Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- IMO Res. A.278(VIII), - IMO Res. A.694(17), - IMO Res. A.820(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.64(67), - IMO Res. MSC.97(73) - (2000 HSC Code) 13, - ITU-R M. 628-3(11/93), - ITU-R M. 1177-3(06/03).	- EN 60872-2:1999, - EN 60936-2:1999, - EN 60945:2002, - EN 61162 series. Or, - IEC 60872-2:1998, - IEC 60936-2:1998, - IEC 60945:2002, - IEC 61162 series.	B + D B + E B + F G
A.1/ 4.39	Radar reflector	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13, - IMO Res. MSC.164(78),	- EN ISO 8729:1998, - EN 60945:2002. Or, - ISO 8729:1997, - IEC 60945:2002.	B + D B + E B + F G

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 4.40 Ex A.2/ 4.2	Heading control system for high speed craft (formerly auto pilot)	- Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- IMO Res. A.694(17), - IMO Res. A.822(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13,	- ISO 16329:2003, - EN 60945:2002, - EN 61162 series. Or, - ISO 16329:2003, - IEC 60945:2002, - IEC 61162 series.	B + D B + E B + F G
A.1/ 4.41 Ex A.2/ 4.3	Transmitting heading device THD (GNSS method)	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13, - IMO Res. MSC.116(73).	- ISO 22090-3:2004, - EN 60945:2002, - EN 61162 series. Or, - ISO 22090-3:2004, - IEC 60945:2002, - IEC 61162 series.	B + D B + E B + F G
A.1/ 4.42 Ex A.2/ 4.5	Searchlight for high speed craft	- Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13,	- ISO 17884:2004, - EN 60945:2002, Or, - ISO 17884:2004, - IEC 60945:2002.	B + D B + E B + F G
A.1/ 4.43 Ex A.2/ 4.6	Night vision equipment for high speed craft	- Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.94(72), - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- ISO 16273:2003, - EN 60945:2002, Or, - ISO 16273:2003, - IEC 60945:2002.	B + D B + E B + F G

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 4.44 Ex A.2/ 4.12	Differential beacon receiver: DGPS, DGLONASS Equipment	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63)-– (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13, - IMO Res. MSC.114(73).	- EN 60945:2002, - EN 61108-1:2003, - EN 61108-2:1998, - EN 61108-4:2004, - EN 61162 series. Or, - IEC 60945:2002, - IEC 61108-1:2003, - IEC 61108-2:1998, - IEC 61108-4:2004, - IEC 61162 series.	B + D B + E B + F G
A.1/ 4.45 Ex A.2/ 4.21	Chart facilities for shipborne radar	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. A.817(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.64(67), - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- EN 60936-3:2002, - EN 60945:2002, - EN 61162 series. Or, - IEC 60936-3:2002, - IEC 60945:2002, - IEC 61162 series.	B + D B + E B + F G
A.1/ 4.46 Ex A.2/ 4.22	Transmitting heading device THD (Gyroscopic method)	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13, - IMO Res. MSC.116(73).	- ISO 22090-1:2002, - EN 60945:2002, - EN 61162 series. Or, - ISO 22090-1:2002, - IEC 60945:2002, - IEC 61162 series.	B + D B + E B + F G
A.1/ 4.47 (New item)	Simplified voyage data recorder (S-VDR)	- Reg. V/20.	- Reg. V/20, - IMO Res. A.694(17), - IMO Res. MSC.163(78).	- EN 60945:2002, - EN 61162 series, - IEC 61996-2:2006. Or, - IEC 60945:2002, - IEC 61162 series, - IEC 61996-2:2006.	B + D B + E B + F G

5. Radiocommunication equipment

Notes applicable to section 5: Radiocommunication equipment.

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

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

5. Radiocommunication equipment

No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 5.1	VHF radio capable of transmitting and receiving DSC and radiotelephony	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14.	- Reg. IV/7, - Reg. X/3, - IMO Res. A.385(X), - IMO Res. A.524(13), - IMO Res. A.694(17), - IMO Res. A.803(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14, - IMO MSC/Circ.862, - IMO COMSAR Circ.32, - ITU-R M.489-2 (10/95), - ITU-R M.493-10 (05/00), - ITU-R M.541-8 (10/97), - ITU-R M.689-2 (11/93).	- ETSI ETS 300 162-1 V1.4.1:2005-05, - ETSI EN 300338 V1.2.1:1999-04, - ETSI EN 300828 V1.1.1:1998-03, - ETSI EN 301925 V1.1.1:2002-09, - EN 60495:2002, - IEC 61097-3:1994, - IEC 61097-7:1996, - EN 61162 series, - IMO MSC/Circ.862.	B + D B + E B + F G
A.1/ 5.2	VHF DSC watch-keeping receiver	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14.	- Reg. IV/7, - Reg. X/3, - IMO Res. A.694(17), - IMO Res. A.803(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) – (2000 HSC Code) 14, - IMO COMSAR Circ.32, - ITU-R M.489-2 (10/95), - ITU-R M.493-10 (05/00), - ITU-R M.541-8 (10/97).	- ETSI EN 300338 V1.2.1:1999-04, - ETSI EN 300828 V1.1.1:1998-03, - ETSI EN 301033 V1.2.1:2005-05, - EN 60495:2002, - IEC 61097-3:1994, - IEC 61097-8:1998.	B + D B + E B + F G
A.1/ 5.3	NAVTEX receiver	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14.	- Reg. IV/7, - Reg. X/3, - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) – (2000 HSC Code) 14, - IMO Res. MSC.148(77), - IMO COMSAR Circ.32, - ITU-R M.540-2 (06/90), - ITU-R M.625-3 (10/95).	- ETSI EN 300 065-1 V1.1.3:2005-5, - ETSI EN 301011 V1.1.1:1998-09, - N 60495:2002, - IEC 61097-6:2005-12.	B + D B + E B + F G

5. Radiocommunication equipment

No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 5.4	EGC receiver	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14.	- Reg. IV/7, - Reg. X/3, - IMO Res. A.570(14), - IMO Res. A.664(16), - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14, - IMO COMSAR Circ.32.	- ETSI ETS 300460 Ed.1:1996-05, - ETSI ETS 300 460/ A1:1997-11, - ETSI EN 300829 V1.1.1:1998-03, - EN 60945:2002, - IEC 61097-4:1994.	B + D B + E B + F G
A.1/ 5.5	HF marine safety information (MSI) equipment (HF NBDP receiver)	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14.	- Reg. IV/7, - Reg. X/3, - IMO Res. A.694(17), - IMO Res. A.699(17), - IMO Res. A.700(17), - IMO Res. A.806(19), - IMO Res. MSC.36(63) – (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14, - IMO COMSAR Circ.32, - ITU-R M.491-1 (07/86), - ITU-R M.492-6 (10/95), - ITU-R M.540-2 (06/90), - ITU-R M.625-3 (10/95), - ITU-R M.688 (06/90).	- ETSI ETS 300067 Ed.1:1990-11, - ETSI ETS 300 067/ A1 Ed.1:1993-10, - EN 60945:2002, - EN 61162 series.	B + D B + E B + F G
A.1/ 5.6	406 MHz EPIRB (COSPAS-SARSAT)	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14.	- Reg. IV/7, - Reg. X/3, - IMO Res. A.662(16), - IMO Res. A.694(17), - IMO Res. A.696(17), - IMO Res. A.806(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) – (2000 HSC Code) 14, - IMO MSC/Circ.862, - IMO COMSAR Circ.32, - ITU-R M.633-2 (05/00), - ITU-R M.690-1 (10/95).	- ETSI ETS 300066 v1.3.1:2001-01, - EN 60945:2002, - EN 61097-2:2002, - IMO MSC/Circ.862. Note: IMO MSC/Circ 862 is applicable only to the optional remote activation device, not to the EPIRB itself.	B + D B + E B + F G
A.1/ 5.7	L-band EPIRB (INMARSAT)	Moved to A.2/5.6			
A.1/ 5.8	2182 kHz watch receiver	Item deleted			

5. Radiocommunication equipment

No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 5.9	Two-tone alarm generator	Item deleted			
A.1/ 5.10	MF radio capable of transmitting and receiving DSC and radiotelephony Note: In line with IMO and ITU decisions, the requirements for Two Tone Alarm generator and transmission on H3E are no longer applicable in the testing standards	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14.	- Reg. IV/9, - Reg. IV/10, - Reg. X/3, - IMO Res. A.694(17), - IMO Res. A.804(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14, - IMO COMSAR Circ.32, - ITU-R M.493-10 (05/00), - ITU-R M.541-8 (10/97).	- ETSI EN 300338 V1.2.1:1999-04, - ETSI ETS 300 373-1 V1.2.1:2002-10, - EN 60945:2002, - EN 61097-3:1994, - EN 61097-9:1997, - EN 61162 series, - IMO MSC/Circ.862.	B + D B + E B + F G
A.1/ 5.11	MF DSC watch-keeping receiver	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14.	- Reg. IV/9, - Reg. IV/10, - Reg. X/3, - IMO Res. A.694(17), - IMO Res. A.804(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14, - IMO COMSAR Circ.32, - ITU-R M.493-10 (05/00), - ITU-R M.541-8 (10/97), - ITU-R M.1173 (10/95).	- ETSI EN 300338 V1.2.1:1999-04, - ETSI ETS 301033 V1.2.1:2005-05, - EN 60945:2002, - EN 61097-3:1994, - EN 61097-8:1998.	B + D B + E B + F G

5. Radiocommunication equipment

No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 5.12	Inmarsat-B SES	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14.	- Reg. IV/10, - Reg. X/3, - IMO Res. A.570(14), - IMO Res. A.694(17), - IMO Res. A.808(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14, - IMO MSC/Circ.862, - IMO COMSAR Circ.32.	- EN 60945:2002, - IEC 61097-10:1999, - IMO MSC/Circ.862.	B + D B + E B + F G
A.1/ 5.13	Inmarsat-C SES	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14.	- Reg. IV/10, - Reg. X/3, - IMO Res. A.570(14), - IMO Res. A.664(16), (applicable only if the Inmarsat-C SES comprises EGC functions), - IMO Res. A.694(17), - IMO Res. A.807(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14, - IMO MSC/Circ.862, - IMO COMSAR Circ.32.	- ETSI ETS 300460 Ed.1:1996-05, - ETSI ETS 300460/ A1:1997-11, - ETSI EN 300829 V1.1.1:1998-03, - EN 60945:2002, - IEC 61097-4:1994, - EN 61162 series, - IMO MSC/Circ.862.	B + D B + E B + F G

5. Radiocommunication equipment

No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 5.14	MF/HF radio capable of transmitting and receiving DSC, NBDP and radiotelephony Note: In line with IMO and ITU decisions, the requirements for Two Tone Alarm generator and transmission on A3H are no longer applicable in testing standards.	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14.	- Reg. IV/10, - Reg. X/3, - IMO Res. A.694(17), - IMO Res. A.806(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14, - IMO MSC/Circ.862, - IMO COMSAR Circ.32, - ITU-R M.476-5 (10/95), - ITU-R M.491-1 (07/86), - ITU-R M.492-6 (10/95), - ITU-R M.493-10 (05/00), - ITU-R M.541-8 (10/97), - ITU-R M.625-3 (10/95), - ITU-R M.1173 (10/95).	- ETSI ETS 300067 Ed.1:1990-11, - ETSI ETS 300 067/ A1 Ed.1:1993-10, - ETSI EN 300338 V1.2.1:1999-04, - ETSI EN 300 373-1 V1.2.1:2002-10, - EN 60945:2002, - IEC 61097-3:1994, - IEC 61097-9:1997, - EN 61162 series, - IMO MSC/Circ.862.	B + D B + E B + F G
A.1/ 5.15	MF/HF DSC watch keeping receiver	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73)-– (2000 HSC Code) 14.	- Reg. IV/10, - Reg. X/3, - IMO Res. A.694(17), - IMO Res. A.806(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14, - IMO COMSAR Circ.32, - ITU-R M.493-10 (05/00), - ITU-R M.541-8 (10/97).	- ETSI EN 300338 V1.2.1:1999-04, - ETSI EN 301033 V1.2.1:2005-05, - EN 60945:2002, - IEC 61097-3:1994, - IEC 61097-8:1998.	B + D B + E B + F G
A.1/ 5.16	Aeronautical two way VHF radio telephone apparatus	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14.	- Reg. IV/7, - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14, - IMO Res. MSC.80(70), - IMO COMSAR Circ.32, - ICAO Convention, Annex 10, Radio Regulations.	- ETSI EN 301688 V1.1.1:2000-07, - EN 60945:2002.	B + D B + E B + F G

5. Radiocommunication equipment

No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.1/ 5.17	Portable survival craft two-way VHF radiotelephone apparatus	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14.	- Reg. III/6, - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code) 8, 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, 14, - IMO Res. MSC.149(77), - ITU-R M.489-2 (10/95), - ITU-R M.542-1 (07/82).	- ETSI EN 300225 V1.4.1:2004-12, - EN 300828 V1.1.1:1998-03, - EN 60945:2002, - IEC 61097-12:1996.	B + D B + E B + F G
A.1/ 5.18	Fixed survival craft two-way VHF radiotelephone apparatus	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14.	- Reg. III/6, - IMO Res. A.694(17), - IMO Res. A.809(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 8, 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, 14, - ITU-R M.489-2 (10/95).	- ETSI EN 301466 V1.1.1:2000-11, - EN 60945:2002, - IEC 61097-12:1996.	B + D B + E B + F G
A.1/ 5.19 Ex A.2/ 5.3	Inmarsat-F SES	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14.	- Reg. IV/10, - IMO Res. A.570(14), - IMO Res. A.694(17), - IMO Res. A.808(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14, - IMO MSC/Circ.862, - IMO COMSAR Circ.32.	- EN 60945:2002, - IEC 61097-13:2003, - IMO MSC/Circ.862	B + D B + E B + F G

6. Equipment required under COLREG 7**2**

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

Schedule Ib

(Based on Annex A.2 of Directive 96/98/EC)

[Regulations 2(1), 3 and 9(4)]

Equipment for which no detailed testing standards already exist in International Instruments

1. Life-saving appliances					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/ 1.1	Radar reflector for liferafts	- Reg. III/4, - Reg. III/34, - Reg. X/3.	- IMO Res. MSC.48(66) - (LSA Code).		
A.2/ 1.2	Immersion suit materials	- Reg. III/4, - Reg. III/34.	- IMO Res. MSC.48(66) - (LSA Code).		
A.2/ 1.3	Float-free launching appliances for survival craft	- Reg. III/4, - Reg. III/34.	- Reg. III/13, - Reg. III/16, - Reg. III/26, - Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code) 8, - IMO Res. MSC.48(66) - (LSA Code) I, IV, VI, - IMO Res. MSC.97(73) - (2000 HSC Code) 8, - IMO MSC/Circ.980.		
A.2/ 1.4	Embarkation ladders	- Reg. III/4, - Reg. X/3.	- Reg. III/34, - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.48(66) - (LSA Code), - IMO Res. MSC.97(73) - (2000 HSC Code).	- ISO 799:1980.	
A.2/ 1.5 Ex A.2/ 1.3	Public address & general emergency alarm system (when used as fire alarm device item A.1/3.53 shall apply)	- Reg. III/6.	- IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.48(66) - (LSA Code), - IMO Res. MSC.97(73) - (2000 HSC Code), - IMO MSC/Circ.808.		

2. Marine pollution prevention					
No	Item designation	Regulation MARPOL73/78 where 'type-approval' is required	Regulations of MARPOL 73/78 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/2.1	On board NOx monitoring and recording devices	- Annex VI Reg. 13, - NOx Technical Code.	- Annex VI Reg. 13, - NOx Technical Code.		
A.2/2.2	On board exhaust gas cleaning systems	- Annex VI Reg. 13.3(b)(i), - Annex VI Reg. 14.4(b).	- Annex VI Reg. 13.3(b)(i), - Annex VI Reg. 14.4(b).	- IMO Res. MEPC.130(55).	
A.2/2.3	Equivalent methods to reduce on board NOx emissions	- Annex VI Reg. 13.3(b)(ii).	- Annex VI Reg. 13.3(b)(ii).		
A.2/2.4	Other technological methods to limit SOx emissions	- Annex VI Reg. 14.4(c).	- Annex VI Reg. 14.4(c).		
A.2/2.5	Ballast water management systems			- IMO Res. MEPC.125(53), - IMO Res. MEPC.126(53).	

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/3.1	Non-portable and transportable extinguishers	Moved to A.1/3.52			

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/ 3.2	Nozzles for fixed pressure water-spraying fire extinguishing systems for special category spaces, ro-ro cargo spaces, ro-ro spaces and vehicles spaces	- Reg. II-2/19, - Reg. II-2/20, - Reg. X/3, - IMO Res. MSC.98(73) - (FSS Code) 7.	- Reg. II-2/19, - Reg. II-2/20, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7, - IMO Res. MSC.98(73) - (FSS Code) 7.	- IMO Res. A.123(V), - IMO MSC.Circ.914.	
A.2/ 3.3	Cold-weather starting of generator sets (starting devices)	- Reg. II-1/44, - Reg. X/3.	- Reg. II-1/44, - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code).		
A.2/ 3.4	Dual purpose type nozzles (spray/jet type)	- Reg. II-2/10, - Reg. X/3.	- Reg. II-2/10, - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code).		
A.2/ 3.5	Fixed fire detection and fire alarm systems components for control stations, service spaces, accommo-dation spaces, machinery spaces and unattended machinery spaces	Moved to A.1/3.51			
A.2/ 3.6	Smoke detectors	Moved to A.1/3.51			
A.2/ 3.7	Heat detectors	Moved to A.1/3.51			

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/3.8	Electric safety lamp	- Reg. II-2/10, - Reg. X/3, - IMO Res. MSC.98(73) - (FSS Code).	- Reg. II-2/10, - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code), - IMO Res. MSC.98(73) - (FSS Code).	- IEC Publication 79.	
A.2/3.9	Protective clothing resistant to chemical attack	- Reg. II-2/19.	- Reg. II-2/19, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7.	- EN 943-1:2002, - EN 943-1:2002/AC 2005, - EN 943-2:2002, - EN ISO 6529:2003, - EN ISO 6530:2005, - EN 14605:2005, - IMO MSC/Circ.1120.	
A.2/3.10	Low-location lighting systems	Moved to A.1/3.40			
A.2/3.11	Nozzles for fixed pressure water spraying fire extinguishing systems for machinery spaces	- Reg. II-2/10, - Reg. X/3, - IMO Res. MSC.98(73) - (FSS Code).	- Reg. II-2/10, - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code), - IMO Res. MSC.98(73) - (FSS Code).		
A.2/3.12	Equivalent fixed gas fire extinguishing systems for machinery spaces and cargo pump rooms	Moved to A.1/3.45			
A.2/3.13	Compressed airline breathing apparatus (High Speed Craft)	- Reg. II-2/10, - Reg. X/3, - IMO Res. MSC.98(73) - (FSS Code).	- Reg. II-2/10, - IMO Res. MSC.36(63) - (1994 HSC Code) 7, - IMO Res. MSC.97(73) - (2000 HSC Code) 7, - IMO Res. MSC.98(73) - (FSS Code) 3.	- EN 14593-1:2005, - EN 14593-2:2005.	

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/ 3.14	Fire hoses (reel type)	- Reg. II-2/10, - Reg. X/3.	- Reg. II-2/10, - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code).	- EN 671-1:1994 + AC:1995.	
A.2/ 3.15	Sample extraction smoke detection systems components	- Reg. II-2/7, - Reg. II-2/19, - Reg. II-2/20, - IMO Res. MSC.98(73) - (FSS Code).	- Reg. II-2/7, - Reg. II-2/19, - Reg. II-2/20, - IMO Res. MSC.98(73) - (FSS Code).		
A.2/ 3.16	Flame detectors	Moved to A.1/3.51			
A.2/ 3.17	Manual call points	Moved to A.1/3.51			
A.2/ 3.18	Alarm devices	Moved to A.1/3.53			
A.2/ 3.19	Fixed water based local application fire fighting systems components for use in category 'A' machinery spaces	Moved to A.1/3.48			
A.2/ 3.20	Upholstered furniture	Moved to A.1/3.20			
A.2/ 3.21	Paint lockers and flammable liquid lockers fire extinguishing systems components	- Reg. II-2/10.	- Reg. II-2/10, - IMO Res. MSC.98(73) - (FSS Code).	- IMO MSC/Circ.847.	
A.2/ 3.22	Galley exhaust duct fixed fire extinguishing systems components	- Reg. II-2/9.	- Reg. II-2/9.		

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/ 3.23	Helicopter deck fire extinguishing systems components	- Reg. II-2/18.	- Reg. II-2/18.		
A.2/ 3.24	Portable foam applicator units	- Reg. II-2/10, - Reg. II-2/20, - Reg. X/3.	- Reg. II-2/10, - Reg. II-2/20, - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code), - IMO Res. MSC.98(73) - (FSS Code).		
A.2/ 3.25	'C' class divisions	- Reg. II-2/3.	- Reg. II-2/3.	- IMO Res. A.653(16), - IMO Res. A.799(19), - IMO Res. MSC.61(67) - (FTP Code), - ISO 1716:1973.	
A.2/ 3.26	Gaseous fuel systems used for domestic purposes (components)	- Reg. II-2/4.	- Reg. II-2/4.		
A.2/ 3.27	Fixed gas fire extinguishing systems (CO_2) components	- Reg. II-2/5, - Reg. II-2/10, - Reg. X/3.	- Reg. II-2/10, - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code), - IMO Res. MSC.98(73) - (FSS Code).	- prEN 12094 Parts 1-20.	
A.2/ 3.28	Medium expansion foam fire extinguishing systems components - fixed deck foam for tankers	- Reg. II-2/10.	- Reg. II-2/10.8.1, - IMO Res. MSC.98(73) - (FSS Code).	- IMO MSC/Circ.798.	

3. Fire protection equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/ 3.29	Fixed low expansion foam fire extinguishing systems components for machinery spaces and tanker deck protection	- Reg. II-2/10.	- Reg. II-2/10, - IMO Res. MSC.98(73) - (FSS Code).	- IMO MSC/Circ.582 and Corrigendum 1.	
A.2/ 3.30	Expansion foam for fixed fire extinguishing systems for chemical tankers	- IMO Res. MSC.4(48) - (IBC Code).	- IMO Res. MSC.4(48) - (IBC Code).	- IMO MSC/Circ.553, - IMO MSC/Circ.582, - IMO MSC/Circ.799.	
A.2/ 3.31	Water spraying hand operated system	- Reg. II-2/10.	- Reg. II-2/10, A800(19).		

4. Navigation equipment

Notes applicable to section 4: Navigation equipment

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

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/ 4.1	Gyro compass for high speed craft	Moved to A.1/4.3.1			
A.2/ 4.2	Heading control system for high speed craft (formerly auto-pilot)	Moved to A.1/4.41			
A.2/ 4.3	Transmitting heading device THD (GNSS method)	Moved to A.1/4.41			

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/ 4.4	Daylight signalling lamp	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63)-– (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code).	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.95(72), - IMO Res. MSC.97(73) - (2000 HSC Code).	- EN 60945:2002. Or, - IEC 60945:2002.	
A.2/ 4.5	Searchlight for high speed craft	Moved to A.1/4.42			
A.2/ 4.6	Night vision equipment for high speed craft	Moved to A.1/4.43			
A.2/ 4.7	Track control system	Moved to A.1/4.33			
A.2/ 4.8	Electronic chart display and information system (ECDIS)	Moved to A.1/4.30			
A.2/ 4.9	Electronic chart display and information system (ECDIS) backup	Moved to A.1/4.30			
A.2/ 4.10	Raster chart display system (RCDS)	Moved to A.1/4.30			
A.2/ 4.11	Combined GPS/ GLONASS equipment	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code).	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.74(69), - IMO Res. MSC.97(73) - (2000 HSC Code).	- EN 60945:2002, - EN 61162 series. Or, - IEC 60945:2002, - IEC 61162 series.	
A.2/ 4.12	DGPS, DGLONASS equipment	Moved to A.1/4.44			

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/ 4.13	Gyro compass for high- speed craft	Moved to A.1/4.31			
A.2/ 4.14	Voyage data recorder (VDR)	Moved to A.1/4.29			
A.2/ 4.15	Integrated navigation system	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.86(70).	- EN 60945:2002, - EN 61162 series, - IEC 61924:2006. Or, - IEC 60945:2002, - IEC 61162 series, - IEC 61924:2006.	
A.2/ 4.16	Integrated bridge system	Moved to A.1/4.28			
A.2/ 4.17	Radar target enhancer	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code).	- IMO Res. A.694(17), - ITU-R M 1176 (10/95).	- EN 60945:2002. Or, - IEC 60945:2002.	
A.2/ 4.18	Sound reception system	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.86(70), - IMO Res. MSC.97(73) - (2000 HSC Code).	- EN 60945:2002, - EN 61162 series. Or, - IEC 60945:2002, - IEC 61162 series.	

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/ 4.19	Magnetic compass for high speed craft	- Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- IMO Res. A.382(X), - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code).	- EN ISO 449:1999, - EN ISO 694:2001, - ISO 1069:1973, - ISO 2269:1992, - EN 60945:2002. Or, - ISO 449:1999, - ISO 694:2001, - ISO 1069:1973, - ISO 2269:1992, - IEC 60945:2002.	
A.2/ 4.20	Track control system for high speed craft	- Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code).	- EN 60945:2002, - EN 61162 series. Or, - IEC 60945:2002, - IEC 61162 series.	
A.2/ 4.21	Chart facilities for shipborne radar	Moved to A.1/4.45			
A.2/ 4.22	Transmitting heading device THD (Gyroscopic method)	Moved to A.1/4.46			
A.2/ 4.23	Transmitting heading device THD (Magnetic method)	Moved to A.1/4.2			
A.2/ 4.24	Thrust indicator	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73)- (2000 HSC Code).	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code).		

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/ 4.25	Lateral thrust, pitch and mode indicators	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code).	Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code).		
A.2/ 4.26 Ex A.1/ 4.9	Rate-of-turn indicator	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.526(13), - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- EN 60945:2002, - EN 61162 series. Or, - IEC 60945:2002, - IEC 61162 series.	
A.2/ 4.27 Ex A.1/ 4.20	Rudder angle indicator	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- EN 60945:2002. Or, - IEC 60945:2002.	
A.2/ 4.28 Ex A.1/ 4.21	Propeller revolution indicator	- Reg. V/18.	- Reg. V/19, - IMO Res. A.694(17).	- EN 60945:2002. Or, - IEC 60945:2002.	
A.2/ 4.29 Ex A.1/ 4.22	Pitch indicator	- Reg. V/18.	- Reg. V/19, - IMO Res. A.694(17).	- EN 60945:2002. Or, - IEC 60945:2002.	

4. Navigation equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/ 4.30 Ex A.1/ 4.28	Integrated bridge system	- Reg. V/18, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 13, - IMO Res. MSC.97(73) - (2000 HSC Code) 13.	- Reg. V/19, - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code) 15, - IMO Res. MSC.64(67), - IMO Res. MSC.97(73) - (2000 HSC Code) 15.	- EN 60945:2002, - EN 61162 series, - EN 61209:1999. Or, - IEC 60945:2002, - IEC 61162 series, - IEC 61209:1999.	
A.2/ 4.31 (New item)	Bearing device	- Reg. V/18.	- Reg. V/19.	- EN 60945:2002.	
A.2/ 4.32 (New item)	Bridge Navigational Watch Alarm System (BNWAS)		- IMO Res. A.694(17), - IMO Res. MSC.128(75), - IMO MSC.Circ.982.		
A.2/ 4.33 (New item)	Track control system (working at ship's speed from 30 knots and above)	- Reg. V/18, - Reg. X/3.		- EN 60945:2002.	

5. Radiocommunication equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/ 5.1	VHF EPIRB	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code).	- Reg. IV/18, - IMO Res. A.662(16), - IMO Res. A.694(17), - IMO Res. A.805(19), - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code), - ITU-R M.489-2 (10/95), - ITU-R M.693 (06/90).	- EN 60945:2002. Or, - IEC 60945:2002.	

5. Radiocommunication equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/ 5.2	Radio reserve source of energy	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code).	- Reg. IV/13, - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code), - IMO COMSAR Circ.16, - IMO COMSAR Circ.32.	- EN 60945:2002. Or, - IEC 60945:2002.	
A.2/ 5.3	Inmarsat-F SES	Moved to A.1/5.19			
A.2/ 5.4	Distress panel	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code).	- Reg. IV/6, - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code), - IMO MSC/Circ.862, - IMO COMSAR Circ.32.	- EN 60945:2002. Or, - IEC 60945:2002.	
A.2/ 5.5	Distress alarm or alert panel	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code).	- Reg. IV/6, - IMO Res. A.694(17), - IMO Res. MSC.36(63) - (1994 HSC Code), - IMO Res. MSC.97(73) - (2000 HSC Code), - IMO MSC/Circ.862, - IMO COMSAR Circ.32.	- EN 60945:2002. Or, - IEC 60945:2002.	
A.2/ 5.6 Ex A.1/ 5.7	L-band EPIRB (INMARSAT)	- Reg. IV/14, - Reg. X/3, - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14.	- Reg. IV/7, - Reg. X/3, - IMO Res. A.662(16), - IMO Res. A.694(17), - IMO Res. A.812(19), - IMO Res. MSC.36(63) - (1994 HSC Code) 14, - IMO Res. MSC.97(73) - (2000 HSC Code) 14, - IMO MSC/Circ.862, - IMO COMSAR Circ.32, - ITU-R M.632-3 (02/97), - ITU-R M.690-1 (10/95).	- ETSI ETS 300372 Ed.1:1996-05, - EN 60945:2002, - IEC 61097-5:1997, - IMO MSC/Circ.862. Note: IMO MSC/ Circ.862 is applicable only to the optional remote activation device, not to the EPIRB itself.	

5. Radiocommunication equipment					
No	Item designation	Regulation SOLAS 74 where 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/ 5.7 (New item)	Ship security alert system		- Reg. XI-2/6, - IMO Res. A.694(17), - IMO Res. MSC.147(77), - IMO MSC/Circ.1072.	- EN 60945:2002. Or, - IEC 60945:2002.	

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

7. Bulk carrier safety equipment					
No	Item designation	Regulation SOLAS 74 here 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/ 7.1	Loading instrument	- Reg. XII/11, - 1997 SOLAS Conference Res. 5.	- Reg. XII/11, - 1997 SOLAS Conference Res. 5.		

7. Bulk carrier safety equipment					
No	Item designation	Regulation SOLAS 74 here 'type-approval' is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for Conformity Assessment
1	2	3	4	5	6
A.2/ 7.2 (New item)	Water level detectors on bulk carriers	- IMO Res. MSC.188(79)	- Reg. XII/12, - IMO Res. MSC.188(79).	- IEC 60092-0504, - IEC 60529, - IMO Res. MSC.188(79).	

Schedule II

(Based on Annex B of Directive 96/98/EC)

[Regulations 3, 5(5), 8(1) and (2)]

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' (*). 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:

(a) examine the technical documentation and verify that the type has been manufactured in accordance with the technical documentation;

(b) 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;

(c) agree with the applicant on the location where the examinations and necessary tests will be carried out.

5. Where the type meets the provisions of the relevant international instruments, the notified body must issue an EC type-examination certificate to the applicant. The certificate must give the name and address of the manufacturer, details of the equipment, the conclusions of the examination, the conditions of its validity and the necessary data for identification of the approved type.

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

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

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

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

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* 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.

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 ten 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 ten 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

(a) 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.

(b) 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.

(c) The notified body must assess the quality system to determine whether it satisfies the requirements laid down in point 3(b). 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.

(d) 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(b) 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

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

(b) 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.

(c) 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.

(d) 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(a),

- the updating referred to in the second paragraph of point 3(d),

- the decision and reports from the notified body referred to in the final paragraph of point 3(d), point 4(c) and point 4(d).

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

(a) 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,

- the documentation concerning the quality system,

- the technical documentation of the approved type and a copy of the EC type-examination certificate.

(b) 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.

(b) The notified body must assess the quality system to determine whether it satisfies the requirements laid down in point 3(b). 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.

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

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

The notified body must assess the modifications proposed and decide whether the modified quality system will still satisfy the requirements laid down in point 3(b) 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

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

(b) 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 technical documentation,

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

(c) 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.

(d) 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 ten 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(a),

- the updating referred to in the second paragraph of point 3(d),

- the decision and reports from the notified body referred to in the final paragraph of point 3(d), point 4(c) and point 4(d).

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.

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

4. Verification by examination and testing of every product

(a) 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.

(b) 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.

(c) 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

(a) 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.

(b) 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.

(c) 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 ensure that that lot is not 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.

(d) 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

(a) 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,

(b) 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 product 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.

(c) The notified body must assess the quality system to determine whether it satisfies the requirements laid down in point 3(b). 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.

(d) 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 assess the modifications proposed and decide whether the modified quality system will still satisfy the requirements laid down in point 3(b) 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. EC Surveillance under the responsibility of the notified body

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

(b) 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.

(c) 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.

(d) 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(a),

- the updating referred to in the second paragraph of point 3(d),

- the decision and reports from the notified body referred to in the final paragraph of point 3(d), point 4(c) and point 4(d).

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

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

(b) 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 regulations 5(1) to 5(3) of these regulations 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.

(c) 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.

(d) 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.

(e) 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

(Based on Appendix to Annex B of Directive 96/98/EC)

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

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

2. 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.

3. 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.

4. 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.

5. 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 or inspection or monitoring of the appliance,

- any other document that makes it possible for the notified body to improve its assessment.

Schedule III

(Based on Annex C of Directive 96/98/EC)

[Regulation 7(1), (3) and (4)]

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

1. Notified bodies shall be subject to the Method for Designating Conformity Assessment Bodies Regulations, and they shall also fulfil the criteria set out below.

2. Notified bodies must fulfil the requirements of the relevant EN 45000 series.

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

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

5. 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.

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

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

8. 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.

9. 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.

10. 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.

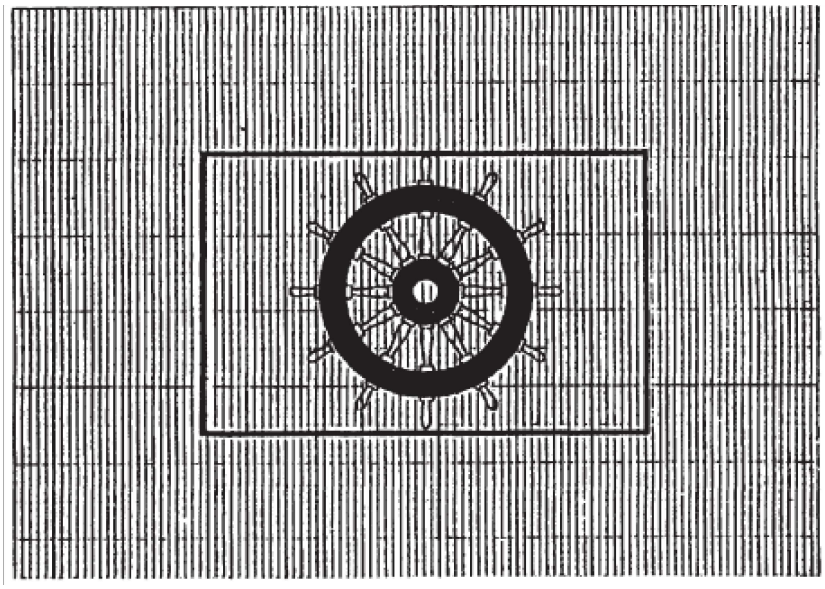
Schedule IV

(Based on Annex D of Directive 96/98/EC)

[Regulations 3 and 6(3)]

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.