

MSN 1735 (M+F) Amendment 3

Type-Approval of Marine Equipment (UK Nominated Bodies)

Notice to Manufacturers, Shipbuilders, Shipowners, Ship Operators and Managers, Designers and Marine Consultants, Masters and Officers of Merchant Ships, Skippers of Fishing Vessels and Owners of Yachts and Pleasure Craft

This Notice amends Merchant Shipping Notice No. MSN 1735 (M+F) and revokes MSN 1735(M+F) Amendment 2.

PLEASE NOTE:-

Where this document provides guidance on the law it should not be regarded as definitive. The way the law applies to any particular case can vary according to circumstances - for example, from vessel to vessel and you should consider seeking independent legal advice if you are unsure of your own legal position.

Summary

This Notice covers changes to equipment listed in Annex A.2 of the European Council Directive 96/98/EC of 20 December 1996 on marine equipment as amended by EU Commission Directive 2008/67/EC of 30 June 2008. The changes apply where no detailed internationally agreed testing standard exists. Equipment listed in the amending Annex A.2. will continue to be type approved by the UK's Nominated Bodies until international standards are agreed and the products are transferred to Annex A.1 of the Marine Equipment Directive and into MSN 1734 (M+F).

Key Points

- This Notice further amends MSN 1735 (M + F) and revokes and replaces MSN 1735 (M + F) Amendment 2.
- This Notice updates the United Kingdom's designated Nominated Body contact list

1. Introduction

- 1.1 The Merchant Shipping (Delegation of Type Approval) Regulations 1996 SI (1996 No 147) provide for Nominated Bodies to undertake the "type approval" of marine equipment, of a safety or pollution prevention nature, for use on board United Kingdom ships. This legislation was supplemented by The Merchant Shipping (Marine Equipment) Regulations 1999 (SI 1999 No.1957) which implemented the European Council (EC) Directive 96/98/EC of 20 December 1996 on marine equipment (The MED). This introduced EU

Notified Bodies for type approval of MED Annex A.1 listed equipment (see MSN 1734 (M+F) as amended by MSN 1734 amendment 3 for further details).

- 1.2 Commission Directive 98/85/EC, of 11 November 1998 and 2001/53/EC of 10 July 2001, 2002/75/EC of 2 September 2002 further amended the list of equipment for which no agreed international standard existed but require type approval.

2. Amendment to MSN 1735 (M+F) Annex

- 2.1 In response to changes to the testing standards developed by those organisations listed in Article 2(n) of the MED, the EC Commission has again issued an amending directive that updates the list of equipment for which no agreed international testing standards currently exist. These are set out in the attached Annex A.2. The Annex to MSN 1735 (M+F) and MSN 1735 (M+F) Amendment 2 are revoked and replaced by the new Annex A.2. of this Notice.
- 2.2 The amending directive as Commission Directive 2008/67/EC of 30 June 2008 was published in the Official Journal of the European Communities (Volume 51, L 171 of 1 July 2008)¹ and entered into force on the 21st July 2009.
- 2.3 Annex A.2 also includes a list of “other” marine equipment some of which requires type approval as a consequence of (but not limited to) one or more of the following regulations:

Statutory Instrument 99 No. 1644 The Merchant Shipping (Implementation Schedule for Bulk Carriers) Regulations ~ Merchant Shipping Additional Safety Measures for Bulk Carriers) Regulations) 1999

Statutory Instrument 1996 No. 75 The Merchant Shipping (Distress Signals and Prevention of Collisions) Regulations

Statutory Instrument 1997 No. 1509 The Merchant Shipping (Cargo Ship Construction) Regulations

Statutory Instrument 1998 No. 1012 The Merchant Shipping (Fire Protection Large Ships) Regulations

Statutory Instrument 1997 No. 1508 The Merchant Shipping (Crew Accommodation) Regulations

Statutory Instrument 1998 No. 2070 The Merchant Shipping (Radio Installations) Regulations

Statutory Instrument 1999 No. 2205 The Merchant Shipping and Fishing Vessels (Personal Protective Equipment) Regulations

Statutory Instrument 1999 No. 2721 The Merchant Shipping (Life Saving Appliances for Ships) Regulations

Statutory Instrument 2000 No. 1850 The Merchant Shipping (EPIRB Registration) Regulations

Statutory Instrument 2002 No. 1473 The Merchant Shipping (Safety of Navigation) Regulations

Statutory Instrument 2004 No. 302 The Merchant Shipping (High Speed Craft) Regulations

Statutory Instrument 2008 No.2924 The Merchant Shipping (Prevention of Air Pollution from Ships) Regulations

3. Update to UK's Nominated Bodies.

- 3.1 An amending Section 8 (Information About Type Approvals) is provided in this MSN and contains an updated contact list of UK Nominated Bodies approved to undertake type approval of the equipment listed. This replaces the original Section 8 in MSN 1735 (M+F) and revokes MSN 1735 (M+F) Amendment 2.
- 3.2 For equipment not listed in the amending Annex or in MSN 1734 (M + F) and MSN 1734 (M + F) amendment 3 which requires to be type approved, contact the MCA at the address below.

More Information

Corporate Governance and Risk Branch
Maritime and Coastguard Agency
Spring Place
105 Commercial Road
Southampton
SO15 1EG

Tel : +44 (0) 23 8032 9186
Fax : +44 (0) 23 8032 9388

e-mail: MTU@mcga.gov.uk

General Inquiries: infoline@mcga.gov.uk

MCA Website Address: www.mcga.gov.uk

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Amending Section 8 - Information About Type Approvals MSN 1735 (M+F) Amendment 2

8.1. Information concerning Type Approved Marine Equipment and how to obtain type approval for equipment listed in the Annex A.2. is available from:

ABS Europe Ltd
1 Frying Pan Alley
London E1 7HR
Tel: 0207 377 2453
Fax: 0207 247 3255

Bureau Veritas Marine Division
Head of Department Technology Equipment
67/71 Boulevard du Chateau
92200 Neuilly-sur-Seine
France
Tel. + 33 1 55 24 75 73
Fax. + 33 1 55 24 70 45

Det Norske Veritas
Palace House
3 Cathedral Street
London SE1 9DE
Tel: 0207 357 6080
Fax: 0207 357 6048

Germanischer Lloyd AG
Vorsetzen 35
20459 Hamburg
Germany
Tel: 0049 40 36149 319
Fax: 0049 40 36149 7399

London Design Support Services
Lloyds Register EMEA
71 Fenchurch Street
London EC3M 4BS
Tel: 0207 423 2566
Fax: 0207 423 2053

QINETIQ Ltd.
Cody Technology Park
Building A5 Room 1005
Ivley Road
Farnborough GU14 0LX
Tel: 01252 394 009 or 01252 394 236
Fax: 01252 397 058

Registro Interbationale Navale (RINa Spa)
4th Floor, Kingston House
29-31 Kingston Crescent
Portsmouth
PO2 8AA
Tel: 02392 666320
Fax: 02392 666845

Commission Directive 2008/67/EC of 30 June 2008
Amending Council Directive 96/98/EC on marine equipment
Annex A2 ~ Equipment for which no detailed testing standards exist in international instruments

1. Life saving appliances

No	Item designation	Regulation SOLAS 74 where "type approval" is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.2/1.1	Radar reflector for liferafts	— Reg. III/4, — Reg. III/34, — Reg. X/3.	— IMO Res. MSC.48(66)-(LSA Code).		
A.2/1.2	Immersion suit materials	— Reg. III/4, — Reg. III/34.	— IMO Res. MSC.48(66)-(LSA Code).		
A.2/1.3	Float-free launching appliances for survival craft	— Reg. III/4, — Reg. III/34.	— Reg. III/13, — Reg. III/16, — Reg. III/26, — Reg. III/34, — IMO Res. MSC.36(63)-(1994 HSC Code) 8, — IMO Res. MSC.48(66)-(LSA Code) I, 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.		

Other ~ Life saving appliances

Item designation
Lifeboat equipment (oars, knives, matches, torches, electrical equipment, etc)
LSA gas inflation system
LSA miscellaneous equipment (emergency life-line etc.)
Lifeboat manual pumps
Emergency equipment lockers
Sea anchors
Survival craft first aid kits
Survival craft rations and water
Lifejacket material
Non-SOLAS liferafts, rescue boats and inflatable boats
Foam buoyancy material
Glass fibre materials
Polyester resin
Lifejackets - inflatable (Adult/Child) to modified CAA specification - single compartment
Float free arrangements for Search and Rescue Transponder (SART)

Commission Directive 2008/67/EC of 30 June 2008
Amending Council Directive 96/98/EC on marine equipment
Annex A2 ~ Equipment for which no detailed testing standards exist in international instruments

2. Marine Pollution Prevention

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.2/2.1	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) MEPC. 174 (58) — IMO Res. MEPC 126(53) MEPC. 169 (57)	

Other Marine Pollution prevention equipment

Item designation	
Crude oil washing machines	MARPOL 73/78 Annex 1 Regulation 33.2, IMO Resolution A.466(XI) para 4.2 as amended

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			
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 vehicle 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, accommodation spaces, machinery spaces and unattended machinery spaces	Moved to A.1/3.51			
A.2/3.6	Smoke detectors	Moved to A.1/3.51			
A.2/3.7	Heat detectors	Moved to A.1/3.51			

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 Ex A.1/3.50	Protective clothing resistant to chemical attack	— Reg. II-2/19.	— Reg. II-2/19, — IMO Res. MSC.36(63)-(1994 HSC Code) 7, — IMO Res. MSC.97(73)-(2000 HSC Code) 7.	— EN 943-1 (2002), — EN 943-1 (2002)/AC (2005), — EN 943-2 (2002), — EN ISO 6529 (2003), — EN ISO 6530 (2005), — EN 14605 (2005), — IMO MSC/Circ.1120.	
A.2/3.10	Low-location lighting systems	Moved to A.1/3.40			
A.2/3.11	Nozzles for fixed pressure water spraying fire extinguishing systems for machinery spaces	— Reg. II-2/10, — Reg. X/3, — IMO Res. MSC.98(73)-(FSS Code).	— Reg. II-2/10, — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code), — IMO Res. MSC.98(73)-(FSS Code).		

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.2/3.12	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) 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 14593-1 (2005), — EN 14593-2 (2005).	
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			

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.2/3.17	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.	

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.2/3.22	Galley Exhaust Duct Fixed Fire Extinguishing Systems components	— Reg. II-2/9.	— Reg. II-2/9.		
A.2/3.23	Helicopter Deck Fire Extinguishing Systems components	— Reg. II-2/18.	— Reg. II-2/18.		
A.2/3.24	Portable Foam 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.		

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.2/3.27	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).	— pr EN 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.	
A.2/3.29	Fixed Low Expansion Foam Fire Extinguishing Systems components for Machinery Spaces and Tanker Deck Protection	— Reg. II-2/10.	— Reg. II-2/10, — IMO Res. MSC.98(73)-(FSS Code).	— IMO MSC/Circ.582 and Corrigendum 1.	
A.2/3.30	Expansion Foam for Fixed Fire Extinguishing Systems for Chemical Tankers	— IMO Res. MSC.4(48)-(IBC Code).	— IMO Res. MSC.4(48)-(IBC Code).	— IMO MSC/Circ.553, — IMO MSC/Circ.582, — IMO MSC/Circ.799.	
A2/3.31	Water Spraying Hand Operated System	— Reg. II-2/10,	— Reg. II-2/10, A800(19).		

3. Fire Protection Equipment

Other ~ Fire Protection Equipment

Item designation
Firemain and hydrants (components)
Fire blankets
Remote closing valves for oil fuels
Portable foam applicator units
Fixed pressure water spraying fire extinguishing system in cargo spaces
Paint lockers and flammable liquid lockers fire extinguishing system (components)
Galley exhaust duct fixed fire extinguishing system (components)
Helicopter deck fire extinguishing system (components)
C class divisions
Fixed low expansion foam extinguishing system for deck and machinery spaces (components)
Expansion foam for fixed fire extinguishing system for chemical tankers
Gaseous fuel systems used for domestic purposes (components)
Fixed CO ₂ system (components)
Sample extraction smoke detection system
Fire hose reels
Safety lamps & torches
Deck foam systems
Pressure Vacuum Valves (other than pressure vacuum valves for the cargo tanks of oil tankers)
International Shore Connection

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.1/4.31			
A.2/4.2	Heading control system for high speed craft (formerly autopilot)	Moved to A.1/4.40			
A.2/4.3	Transmitting heading device THD (GNSS method)	Moved to A.1/4.41			
A.2/4.4	Daylight signalling lamp	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code).	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.95(72), — IMO Res. 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			

Commission Directive 2008/67/EC of 30 June 2008
Amending Council Directive 96/98/EC on marine equipment
Annex A2 ~ Equipment for which no detailed testing standards exist in international instruments

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.2/4.10	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				
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).		

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.2/4.18	Sound reception system	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code).	— Reg. V/19, — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.86(70), — IMO Res. MSC.97(73)-(2000 HSC Code).	— EN 60945 (2002), — EN 61162 series. Or, — IEC 60945 (2002), — IEC 61162 series.	
A.2/4.19	Magnetic compass for high speed craft	— Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code).	— IMO Res. A.382(X), — IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code).	— EN ISO 449 (1999), — EN ISO 694 (2001), — ISO 1069 (1973), — ISO 2269 (1992), — EN 60945 (2002). Or, — ISO 449 (1997), — ISO 694 (2000), — ISO 1069 (1973), — ISO 2269 (1992), — IEC 60945 (2002).	
A.2/4.20	Track control system for high-speed craft	— Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code).	— IMO Res. A.694(17), — IMO Res. MSC.36(63)-(1994 HSC Code), — IMO Res. MSC.97(73)-(2000 HSC Code).	— EN 60945 (2002), — EN 61162 series. Or, — IEC 60945 (2002), — IEC 61162 series.	
A.2/4.21	Chart facilities for shipborne radar	Moved to A.1/4.45			
A.2/4.22	Transmitting heading device THD (Gyroscopic method)	Moved to A.1/4.46			
A.2/4.23	Transmitting heading device THD (Magnetic method)	Moved to A.1/4.2			

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.2/4.24	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).		
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).	

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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.2/4.29 Ex A.1/4.22	Pitch indicator	— Reg. V/18.	— Reg. V/19, — IMO Res. A.694 (17).	— EN 60945 (2002). Or, — IEC 60945 (2002).	
A.2/4.30 Ex A.1/4.28	Integrated bridge system	— Reg. V/18, — Reg. X/3, — IMO Res. MSC.36(63)-(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).	

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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/8, — 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).	
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).	

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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.2/5.6 Ex A.1/5.7	L-band EPIRB (INMARSAT)	<ul style="list-style-type: none"> — Reg. IV/14, — Reg. X/3, — IMO Res. MSC.36(63)-(1994 HSC Code) 14, — IMO Res. MSC.97(73)-(2000 HSC Code) 14. 	<ul style="list-style-type: none"> — 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). 	<ul style="list-style-type: none"> — ETSI ETS 300372 Ed.1 (1996-05), — EN 60945 (2002), — IEC 61097-5 (1997), — IMO MSC/Circ.862 <p>Note: IMO MSC/Circ.862 is applicable only to the optional remote activation device, not to the EPIRB itself.</p>	
A.2/5.7 (New item)	Ship security alert system		<ul style="list-style-type: none"> — Reg. XI-2/6, — IMO Res. A.694(17), — IMO Res. MSC.147(77), — IMO MSC/Circ.1072. 	<ul style="list-style-type: none"> — EN 60945 (2002). Or, — IEC 60945 (2002). 	

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6. Equipment under COLREG 72

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.2/6.1	Navigation lights	Moved to A.1/6.1			
A.2/6.2	Sound signal appliances	— Annex III/3.	— Annex III/3, — IMO Res. A.694(17).	— EN 60945 (2002), — Whistles — COLREG 72 Annex III/1 (Performance), — Bells or Gongs — COLREG 72 Annex III/2 (Performance), — IEC 60945 (1996), — Whistles — COLREG 72 Annex III/1 (Performance), — Bells or Gongs — COLREG 72 Annex III/2 (Performance).	

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7. Bulk Carrier Safety Equipment

No	Item designation	Regulation SOLAS 74 where "type approval" is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
1	2	3	4	5	6
A.2/7.1	Loading instrument	— Reg. XII/11, — 1997 SOLAS Conference Res. 5.	— Reg. XII/11, — 1997 SOLAS Conference Res. 5.		
A.2/7.2 (New item)	Water level detectors on bulk carriers	— IMO Res. MSC.188(79).	— Reg. XII/12, — IMO Res. MSC.188(79).	— IEC 60092-0504, — IEC 60529, — IMO Res. MSC.188(79). ¹	

8. Marine Engineering equipment

Equipment not included in MED annexes and for which no detailed testing standards exist in international instruments

Item designation
Fuel & lube oil flexible pipes in machinery spaces & couplings
Structural measuring equipment
Watertight Doors

9. Crew accommodation equipment

Equipment not included in MED annexes and for which no detailed testing standards exist in international instruments

Item designation
Vacuum discharge piping systems
Thermostatic mixing valves
Plant used to produce drinking and/or fresh water