

## **EU/US MRA (27 February 2004) - ANNEX II**

### **Product Coverage For Mutual Recognition**

#### **Life saving appliances**

<b>Product item identification</b>	<b>Applicable international instruments for construction, performance and testing requirements<sup>1</sup></b>	<b>EC technical regulations, item number indicated in Annex A.1 of Directive 96/98/EC, as amended</b>	<b>US technical regulations</b>
Lifebuoy self-activating smoke signals (pyrotechnics)  Note: Expiration date not to exceed 48 months after month of manufacture.	LSA Code, sections 1.2, and 2.1.3; Recommendation on Testing, Part 1, paragraphs 4.1 to 4.5, and 4.8, and Part 2, section 4; IMO MSC Circ.980, section 3.3.	A.1/1.3	Guidelines for Approval of "SOLAS" Pyrotechnic Devices, October 1998
Rocket parachute flares (pyrotechnics)  Note: Expiration date not to exceed 48 months after month of manufacture.	LSA Code, sections 1.2, and 3.1; Recommendation on Testing, Part 1, paragraphs 4.1 to 4.6, and Part 2, section 4; IMO MSC Circ.980, section 3.1.	A.1/1.8	Guidelines for Approval of "SOLAS" Pyrotechnic Devices, October 1998
Hand flares (pyrotechnics)  Note: Expiration date not to exceed 48 months after month of manufacture.	LSA Code, sections 1.2, and 3.2; Recommendation on Testing, Part 1, paragraphs 4.1 to 4.5, and 4.7, and Part 2, section 4; IMO MSC Circ.980, section 3.2.	A.1/1.9	Guidelines for Approval of "SOLAS" Pyrotechnic Devices, October 1998
Buoyant smoke signals (pyrotechnics)  Note: Expiration date not to exceed 48 months after month of manufacture.	LSA Code, sections 1.2, and 3.3; Recommendation on Testing, Part 1, paragraphs 4.1 to 4.5, and 4.8; and Part 2, section 4; IMO MSC Circ.980, section 3.3.	A.1/1.10	Guidelines for Approval of "SOLAS" Pyrotechnic Devices, October 1998

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<sup>1</sup> "LSA Code" refers to the International Life-Saving Appliance Code adopted on 4 June 1996 (IMO Resolution MSC.48(66)).  
"Recommendation on Testing" refers to the IMO recommendation on Testing of Life-Saving Appliances adopted on 6 November 1991 (IMO Resolution A.689(17)) as amended on 11 December 1998 (IMO Resolution MSC.81(70)).

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Line-throwing appliances (pyrotechnics)  Note: Expiration date not to exceed 48 months after month of manufacture.	LSA Code, sections 1.2, and 7.1; Recommendation on Testing, Part 1, section 9; and Part 2, section 4; IMO MSC Circ.980, section 7.1.	A.1/1.11	Guidelines for Approval of "SOLAS" Pyrotechnic Devices, October 1998
Rigid liferafts  Note: The emergency pack is not covered by the Agreement	LSA Code, sections 1.2, 4.1 and 4.3; Recommendation on Testing, Part 1, paragraphs 5.1 to 5.16, and 5.20; IMO MSC Circ.811; IMO MSC Circ.980, section 4.2; IMO MSC Circ.1006 or other appropriate standard for hull or fire-retardant covering.	A.1/1.13	Rigid Liferaft – Coast Guard (G-MSE-4) Review Checklist, 27 July 1998
Automatically self-righting rigid liferafts  Note: The emergency pack is not covered by the Agreement	LSA Code, sections 1.2, 4.1 and 4.3; Recommendation on Testing, Part 1, paragraphs 5.1 to 5.16, and 5.18 to 5.21; IMO MSC Circ.809; IMO MSC Circ.811; IMO MSC Circ.980, section 4.2; IMO MSC Circ.1006 or other appropriate standard for hull or fire-retardant covering.	A.1/1.14	Rigid Liferaft – Coast Guard (G-MSE-4) Review Checklist, 27 July 1998
Canopied reversible rigid liferafts  Note: The emergency pack is not covered by the Agreement	LSA Code, sections 1.2, 4.1 and 4.3; Recommendation on Testing, Part 1, paragraphs 5.1 to 5.16, 5.18, and 5.21; IMO MSC Circ.809; IMO MSC Circ.811; IMO MSC Circ.980, section 4.2; IMO MSC Circ.1006 or other appropriate standard for hull or fire-retardant covering.	A.1/1.15	Rigid Liferaft – Coast Guard (G-MSE-4) Review Checklist, 27 July 1998
Float-free arrangements for liferafts (hydrostatic release units)	LSA Code, sections 1.2 and 4.1.6.3; Recommendation on Testing, Part 1, section 11; IMO MSC Circ.980, section 4.3.1;	A.1/1.16	46 CFR 160.062

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Release mechanism for (a) Lifeboats and rescue boats and (b) Liferafts Launched by a fall or falls  Limited to Davit-launched liferaft automatic release hook	LSA Code, sections 1.2 and 6.1.5; Recommendation on Testing, Part 1, section 8.2; and Part 2, paragraphs 6.2.1 through 6.2.4; IMO MSC Circ.980, section 6.1.3.	A.1/1.26	(Nothing in addition to international instruments)
Marine evacuation systems	LSA Code, sections 1.2 and 6.2; Recommendation on Testing, Part 1, section 12, IMO MSC Circ.980, section 6.2.	A.1/1.27	(Nothing in addition to international instruments)

## Fire protection

Product item identification	Applicable international instruments for construction, performance and testing requirements	EC technical regulations, item number indicated in Annex A.1 of Directive 96/98/EC, as amended	US technical regulations
Primary deck coverings	FTP Code Annex 1, Parts 2 & 6, Annex 2; IMO Resolution A.687(17); MSC/Circ. 916; MSC/Circ. 1004.	A.1/3.1	(Nothing in addition to international instruments)
"A" and "B" Class division fire integrity, including: Bulkheads (without windows) Decks Fire doors (with windows no larger than 645 cm <sup>2</sup> ) Ceilings and linings	SOLAS II-2/3.2; II-2/3.4; FTP Code Annex 1, Part 3, and Annex 2; IMO Resolution A.754 (18); MSC/Circ.916; MSC/Circ.1004; MSC/Circ.1005.	A.1/3.11	(Nothing in addition to international instruments)
Non-combustible materials	SOLAS II-2/3.33; FTP Code Annex 1, Part 1, and Annex 2.	A.1/3.13	(Nothing in addition to international instruments)
Fire doors  Limited to fire doors without windows or with total window area no more than 645 cm <sup>2</sup> in each door leaf. Approval limited to maximum door size tested. Doors must be used with a fire tested frame design.	SOLAS II-2/9.4.1.1.2, II-2/9.4.1.2.1, and II-2/9.4.2; FTP Code Annex 1, Part 3; IMO Resolution A.754 (18); MSC/Circ. 916; MSC/Circ. 1004.	A.1/3.16	(Nothing in addition to international instruments)
Fire door control systems	SOLAS II-2/9.4.1.1.4; 1994 HSC Code 7.9.3.3; 2000 HSC Code 7.9.3.3; FTP Code Annex 1, Part 4.	A.1/3.17	(Nothing in addition to international instruments)

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Surface materials and floor coverings with low flame-spread characteristics  Limited to exposed surfaces of ceilings, walls, and floors. Does not apply to pipes, pipe coverings, or cables.	SOLAS II-2/3.29; 1994 HSC Code 7.4.3.4.1 and 7.4.3.6; 2000 HSC Code 7.4.3.4.1 and 7.4.3.6; FTP Code, Annex 1, Parts 2 & 5, and Annex 2; IMO Resolution A.653 (16); ISO 1716 (1973); MSC/Circ. 916, MSC/Circ. 1004 and MSC/Circ. 1008.	A.1/3.18	(Nothing in addition to international instruments)
Draperies, curtains and other suspended textile materials and films	SOLAS II-2/3.40.3; FTP Code Annex 1, Part 7.	A.1/3.19	(Nothing in addition to international instruments)
Upholstered furniture	FTP Code Annex 1, Part 8; IMO Resolution A.652 (16).	A.1/3.20	(Nothing in addition to international instruments)
Bedding components	FTP Code Annex 1, Part 9; IMO Resolution A.688 (17).	A.1/3.21	(Nothing in addition to international instruments)
Fire dampers	SOLAS II-2/9.4.1.1.8, and II-2/9.7.3.1.2; FTP Code Annex 1, Part 3; IMO Resolution A.754 (18); MSC/Circ. 916.	A.1/3.22	(Nothing in addition to international instruments)
Penetrations through 'A' class divisions by electric cables, pipes, trunks, ducts etc.	SOLAS II-2/9.3.1; FTP Code Annex 1, Part 3; IMO Resolution A.754 (18); MSC/Circ. 916, and MSC/Circ. 1004.	A.1/3.26	(Nothing in addition to international instruments)
Penetrations through 'B' class divisions by pipes other than steel or copper	SOLAS II-2/9.3.2.1; FTP Code Annex 1, Part 3; IMO Resolution A.754 (18); MSC/Circ. 916, and MSC/Circ. 1004.	A.1/3.27	(Nothing in addition to international instruments)

## Navigation equipment

Product item identification	Applicable international instruments for construction, performance and testing requirements	EC technical regulations, item number indicated in Annex A.1 of Directive 96/98/EC, as amended	US technical regulations
Magnetic compass	SOLAS V/19.2.1.1; IMO Resolution A.382 (X); IMO Resolution A.694 (17); ISO 449 (1997), ISO 694 (2000), ISO 1069 (1973), ISO 2269 (1992), IEC 60945 (1996).	A.1/4.1	Navigation and Vessel Inspection Circular NVIC 8-01, enclosure (4), 2/165.101.
Transmitting magnetic heading device (TMHD)	IMO Resolution MSC 86 (70) annex 2; IMO Resolution A.694 (17); ISO 11606 (2000), IEC 60945 (1996), IEC 61162.	A.1/4.2	Navigation and Vessel Inspection Circular NVIC 8-01, enclosure (4), 2/165.102.
Gyro compass	IMO Resolution A.424 (XI); IMO Resolution A.694 (17); ISO 8728 (1997), IEC 60945 (1996), IEC 61162.	A.1/4.3	Navigation and Vessel Inspection Circular NVIC 8-01, enclosure (4), 2/165.103.
Echo-sounding equipment	IMO Resolution A.224 (VII) as amended by IMO Resolution MSC74 (69) Annex 4, IMO Resolution A.694 (17); ISO 9875 (2000), IEC 60945 (1996), IEC 61162.	A.1/4.6	Navigation and Vessel Inspection Circular NVIC 8-01, enclosure (4), 2/165.107.
Speed and distance measuring equipment (SDME)	1994 HSC Code 13.3.2; 2000 HSC Code 13.3.2; IMO Resolution A.824 (19) as amended by IMO Resolution MSC 96(72); IMO Resolution A.694 (17); IEC 60945 (1996), IEC 61023 (1999), IEC 61162.	A.1/4.7	Navigation and Vessel Inspection Circular NVIC 8-01, enclosure (4), 2/165.105.
Rate-of-turn indicator	IMO Resolution A.694 (17); IMO Resolution A.526 (13); IEC 60945 (1996), IEC 61162.	A.1/4.9	Navigation and Vessel Inspection Circular NVIC 8-01, enclosure (4), 2/165.106.
Loran-C equipment	IMO Resolution A.694 (17); IMO Resolution A.818 (19); IEC 61075 (1991), IEC 60945 (1996), IEC 61162.	A.1/4.11	Navigation and Vessel Inspection Circular NVIC 8-01, enclosure (4), 2/165.135.

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Chakya equipment	IMO Resolution A.694 (17); IMO Resolution A.818 (19); IEC 61075 (1991), IEC 60945 (1996), IEC 61162.	A.1/4.12	Navigation and Vessel Inspection Circular NVIC 8-01, enclosure (4), 2/165.136.
GPS equipment	IMO Resolution A.819 (19), IMO Resolution A.694 (17); IEC 60945 (1996), IEC 61108-1 (1994), IEC 61162.	A.1/4.14	Navigation and Vessel Inspection Circular NVIC 8-01, enclosure (4), 2/165.130.
GLONASS equipment	IMO Resolution MSC 53 (66); IMO Resolution A.694 (17); IEC 61108-2 (1998), IEC 60945 (1996), IEC 61162.	A.1/4.15	Navigation and Vessel Inspection Circular NVIC 8-01, enclosure (4), 2/165.131.
Heading Control System HCS	SOLAS V/24.1; IMO Resolution A.342 (IX); as amended by IMO Resolution MSC 64 (67) Annex 3; IMO Resolution A.694 (17); ISO 11674 (2000), IEC 60945 (1996), IEC 61162.	A.1/4.16	Navigation and Vessel Inspection Circular NVIC 8-01, enclosure (4), 2/165.110.
Automatic Radar Plotting Aid (ARPA)  (Radar equipment used with ARPA must have separate EU and US certifications.)	IMO Resolution A.823 (19); IMO Resolution A.694 (17); IEC 60872-1 (1998), IEC 61162.	A.1/4.34	Navigation and Vessel Inspection Circular NVIC 8-01, enclosure (4), 2/165.120.
Automatic Tracking Aid (ATA)  (Radar equipment used with ATA must have separate EU and US certifications.)	IMO Resolution MSC 64(67), Annex 4, Appendix 1; IMO Resolution A.694 (17); IEC 60872-2 (1999), IEC 60945 (1996), IEC 61162.	A.1/4.35	Navigation and Vessel Inspection Circular NVIC 8-01, enclosure (4), 2/165.111.
Electronic Plotting Aid (EPA)  (Radar equipment used with EPA must have separate EU and US certifications.)	IMO Resolution MSC 64(67), Annex 4, Appendix 2; IMO Resolution A.694 (17); IEC 60872-3 (2000), IEC 60945 (1996), IEC 61162.	A.1/4.36	Navigation and Vessel Inspection Circular NVIC 8-01, enclosure (4), 2/165.121.
Integrated bridge system	IMO Resolution MSC.64 (67) Annex 1; IMO Resolution A.694 (17); IEC 61209 (1999), IEC 60945 (1996), IEC 61162.	A.1/4.28	Navigation and Vessel Inspection Circular NVIC 8-01, enclosure (4), 2/165.140.

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Voyage Data Recorder (VDR)	IMO Resolution A.861(20); IMO Resolution A.694 (17); IEC 61996 (2000), IEC 60945 (1996), IEC 61162.	A.1/4.29	Navigation and Vessel Inspection Circular NVIC 8-01, enclosure (4), 2/165.150.
Gyro compass for high speed craft	IMO Resolution A.821 (19); IMO Resolution A.694 (17); ISO 16328 (2001), IEC 60945 (1996), IEC 61162.	A.1/4.31	Navigation and Vessel Inspection Circular NVIC 8-01, enclosure (4), 2/165.203.
Universal Automatic Identification System equipment (AIS)	IMO Resolution MSC.74 (69) Annex 3; IMO Resolution A.694 (17); ITU R. M. 1371-1 (10/00) IEC 61993-2 (2002), IEC 60945 (1996), IEC 61162	A.1/4.32	Navigation and Vessel Inspection Circular NVIC 8-01, enclosure (4), 2/165.155. NOTE: In addition, the radio transmitter is required to be authorized by the US Federal Communications Commission
Track control system	IMO Resolution MSC.74 (69) Annex 2; IMO Resolution A.694 (17); IEC 62065 (2002), IEC 60945 (1996), IEC 61162.	A.1/4.33	Navigation and Vessel Inspection Circular NVIC 8-01, enclosure (4), 2/165.112.
Radar reflector	IMO Resolution A.384 (X); IEC 60945 (1996), ISO 8729 (1997).	A.1/4.39	Navigation and Vessel Inspection Circular NVIC 8-01, enclosure (4), 2/165.160.