

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

Product Coverage For Mutual Recognition

Life saving appliances

Product item identification	Applicable international instruments for construction, performance and testing requirements ¹	EC technical regulations, item number indicated in Annex A.1 of Directive 96/98/EC, as amended	US technical regulations
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

¹ "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)).

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
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

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
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 ²) 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 ² 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)

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

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.

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
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.

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
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.