LIST OF EQUIPMENT TO BE APPROVED

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| --- | --- | --- | --- | --- | --- | --- |
| Item-No. | Item designation | SOLAS-Regulations,MARPOL-RegulationsInternational and national standards,Testing standards | Name ofmanufacturer | Type,Trade name | Modules for conformity assessment | ***Equipment Approved by Notified Bodies******according to Directive (EU) 2020/1170.***  |
|  |  |  |  |  | B + D B + E B + F or only G | Name ofnotified body | Identifi-cation number | Number of EC-Type-Examination Certificate | Documen-tationenclosed?yes / no |
| **1. Life-Saving Appliances**  |
| MED/1.1 | Lifebuoys | Reg. III/4, III/7, III/34, X/3,LSA-Code I, II,HSC-Code 1994 + 2000, 8,Res. MSC.81(70) |       |       |       |       |       |       |       |
| MED/1.2 | Position-indicating lights for life-saving appliances: (a) for survival craft and rescue boats,(b) forlifebuoys,(c) for life-jackets | Reg. III/4, III/7, III/22., III/26, III/32, III/34, X/3,LSA-Code II, IV,HSC-Code 1994 + 2000, 8, Res. MSC.81(70) |       |       |       |       |       |       |       |
| MED/1.3 | Life-buoys self-activating smoke signals  | Reg. III/4, III/7, III/34, X/3,LSA-Code I, II, HSC-Code 1994 + 2000, 8, Res. MSC.81(70) |       |       |       |       |       |       |       |
| MED/1.4 | Life jackets | Reg. III/4, III/7, III/22, III/34, X/3, LSA-Code I, IIHSC-Code 1994 + 2000, 8, MSC/Circ. 922, MSC.1/Circ. 1304,MSC.1/Circ. 1470,Res. MSC.81(70) |       |       |       |       |       |       |       |
| MED/1.5 | Immersion suits and anti-exposure suitsdesigned to be worn in conjunction WITH a lifejacketa) immersion suit without inherent insulationb) immersion suit with inherent insulationc) anti exposure suit | Reg. III/4, III/7, III/22, III/32, III/34, X/3,LSA-Code I, II, HSC-Code 1994 + 2000, 8,MSC/Circ.1046,Res. MSC.81(70) |       |       |       |       |       |       |       |
| MED/1.6 | Immersion suits and anti-exposure suitsDesigned to be worn in conjunction WITHOUT a lifejacketa) immersion suit without inherent insulationb) immersion suit with inherent insulationc) anti exposure suit | Reg. III/4, III/7, III/22, III/32, III/34, X/3,LSA-Code I, II,HSC-Code 1994 + 2000, 8,MSC/Circ.1046,Res. MSC.81(70) |       |       |       |       |       |       |       |
| MED/1.7 | Thermal protective aids | Reg. III/4, III/22, III/32, III/34, X/3,LSA-Code I, II, HSC-Code 1994 + 2000, 8,MSC/Circ. 1046,Res. MSC.81(70) |       |       |       |       |       |       |       |
| MED/1.8 | Rocket parachuteflares(pyrotechnics)  | Reg. III/4, III/6, III/34, X/3,LSA-Code I, III,HSC-Code 1994 + 2000, 8,Res. MSC.81(70),Sprengstoffgesetz/BAM |       |       |       |       |       |       |       |
| MED/1.9 | Hand flares(pyrotechnics) | Reg. III/4, III/34, X/3,LSA-Code I, III,HSC-Code 1994 + 2000, 8,Res. MSC.81(70),Sprengstoffgesetz/BAM |       |       |       |       |       |       |       |
| MED/1.10 | Buoyantsmoke signals(pyrotechnics) | Reg. III/4, III/ 34, X/3,LSA-Code I, III,Res. MSC.81(70), Sprengstoffgesetz/BAM |       |       |       |       |       |       |       |
| MED/1.11 | Line-throwingappliances(pyrotechnics) | Reg. III/4, III/18, III/34, X/3,LSA-Code I, VII,HSC-Code 1994 + 2000, 8,Res. MSC.81(70),Sprengstoffgesetz/BAM |       |       |       |       |       |       |       |
| MED/1.12 | Inflatable liferafts | Reg. III/4, III/13, III/21, III/26, III/31, III/34, X/3,LSA-Code I, IV,HSC-Code 1994 + 2000, 8,Res. MSC.81(70),MSC/Circ. 811 and for extended service intervalls: MSC.1/Circ.1328 |       |       |       |       |       |       |       |
| MED/1.13 | Rigid liferafts | Reg. III/4, III/21, III/26, III/31, III/34, X/3, LSA-Code I, IV,HSC-Code 1994 + 2000, 8,Res. MSC.81(70), MSC/Circ. 811,MSC/Circ.1006 |       |       |       |       |       |       |       |
| MED /1.14 | Automatically self-righting liferafts | Reg. III/4, III/26, III/34, X/3,LSA-Code I, IV,HSC-Code 1994 + 2000, 8,Res. MSC.81(70),MSC/Circ. 809 incl. Add.1,MSC/Circ. 811 and for extended service intervals: MSC.1/Circ.1328 |       |       |       |       |       |       |       |
| MED /1.15 | Canopied reversible liferafts | Reg. III/4, III/26, III/34, X/3,LSA-Code I, IV,HSC-Code 1994 + 2000, 8,Res. MSC.81(70),MSC/Circ. 809 incl. Add.1, MSC./Circ.811and for extended service intervals: MSC.1/Circ.1328 |       |       |       |       |       |       |       |
| MED /1.16 | Float-free arrangements for liferafts (hydrostaticrelease units)  | Reg. III/4, III/13, III/26, III/34, X/3,LSA-Code I, IV,HSC-Code 1994 + 2000, 8,Res. MSC.81(70)MSC/Circ. 811 |       |       |       |       |       |       |       |
| MED /1.17 | Lifeboats:(a) davit-launchedlifeboats:- partially enclosed- totally enclosed(b) Free fall lifeboats: | Reg. III/4, III/21, III/31, III/34, X/3,LSA-Code I, IV,HSC-Code 1994 + 2000, 8,Res. MSC.81(70), MSC/Circ. 1006,MSC.1/Circ.1423 |       |       |       |       |       |       |       |
| MED /1.18 | Rigid rescueboats | Reg. III/4, III/21, III/31, III/34, X/3,LSA-Code I, V,HSC-Code 1994 + 2000, 8,Res. MSC.81(70),MSC/Circ.1006 |       |       |       |       |       |       |       |
| MED /1.19 | Inflatedrescue boats  | Reg. III/4, III/21, III/31, III/34, X/3, LSA-Code I, V,HSC-Code 1994 + 2000, 8,Res. MSC.81(70),ISO 15372 (2000) |       |       |       |       |       |       |       |
| MED /1.20 | Fast rescue boats:(a) inflated(b) rigid(c) rigid-inflated | Reg. III/4, III/26, III/34,LSA-Code I,V,Res. MSC.81(70),MSC/Circ. 1006,MSC/Circ. 1016, MSC/Circ. 1094,ISO 15372 (2000) |       |       |       |       |       |       |       |
| MED /1.21 | Launching appliances using falls (davits) | Reg. III/4, III/23, III/33, III/34, X/3LSA-Code I, VI,HSC-Code 1994 + 2000, 8,Res. MSC.81(70) |       |       |       |       |       |       |       |
| MED /1.22 | Float free launchingappliance for survival craft | Moved to MED /1.3 |
| MED /1.23 | Launchingappliances for free-fall lifeboats | Reg. III/4, III/16, III/23, III/33, III/34, X/3,LSA-Code I, VI,HSC-Code 1994 + 2000, 8,Res. MSC.81(70) |       |       |       |       |       |       |       |
| MED /1.24 | Liferaft launching appliances(davits) | Reg. III/4, III/12, III/16, III/34, X/3,LSA-Code I, VI, HSC-Code 1994 + 2000, 8,Res. MSC.81(70) |       |       |       |       |       |       |       |
| MED /1.25 | Fast rescue boat launching appliances(davits) | Reg. III/4, III/26, III/34, LSA-Code I, VI,Res. MSC.81(70) |       |       |       |       |       |       |       |
| MED /1.26 | Release mechanism for (a) Lifeboats and rescue boats (Launched by a fall or falls) (b) Liferafts (Launched by a fall or falls)c) Free fall lifeboats | Reg. III/4, III/16, III/34, X/3, LSA-Code I, IV, VI,HSC-Code 1994 + 2000, 8,Res. MSC.81(70),MSC/Circ.1419 |       |       |       |       |       |       |       |
| MED/1.27 | Marine evacuation systems  | Reg. III/4, III/15, III/26, III/34, X/3,LSA-Code I, VI,HSC-Code 1994 + 2000, 8,Res. MSC.81(70) |       |       |       |       |       |       |       |
| MED /1.28 | Means of rescue (MOR) | Reg. III/4, III/26, III/34, LSA-Code I, VI, Res. MSC.81(70),MSC/Circ. 810 |       |       |       |       |       |       |       |
| MED /1.29 | Embarkation ladders | Reg. III/4, III/11, III/34,X/3, LSA-Code,HSC-Code 1994 + 2000, Res. MSC.81(70), MSC.1/Circ.1285,ISO 5489 (2008) |  |  |  |  |  |  |  |
| MED /1.30 | Retro-reflective materials | Reg. III/4, III/34, X/3,LSA-Code I,HSC Code 1994 + 2000, 8,IMO Res. A.658(16) |       |       |       |       |       |       |       |
| MED /1.31 | Survival craft two-way VHF radio telephone apparatus | Item moved to MED/5.17 and MED /5.18 |
| MED /1.32 | 9GHz SAR trans-ponder (SART) | Item moved to MED /4.18 |
| MED /1.33 | Radar reflector for lifeboats and rescue boats (passive) | Reg. III/4, III/ 34, X/3,LSA-Code I, IV, V,HSC-Code 1994 + 2000, 8,Res. A.164(78), Res. A384(X),- EN ISO 8729(1998),- EN 60945 (2002) incl. IEC 60945 Corrig. 1 (2008). Or- EN ISO 8729(1998),- IEC 60945 (2002) incl. IEC 60945 Corrig. 1 (2008). Or - ISO 8729-1 (2010),- EN 60945 (2002) incl. IEC 60945, Corrig 1 (2008). Or- ISO 8729-1 (2010),- IEC 60945 (2002) incl. IEC 60945, Corrig. 1 (2008)  |       |       |       |       |       |       |       |
| MED /1.34 | Compass for lifeboats and rescue boats | Item moved to MED /4.23 |
| MED /1.35 | Portable fire extinguishing equipment for lifeboats and rescue boats | Item moved to MED /3.38 |
| MED /1.36 | Lifeboat/rescue boat propulsion engine | Reg. III/4, III/34, X/3,LSA-Code IV, V,Res. MSC.81(70) |       |       |       |       |       |       |       |
| MED /1.37 | Rescue boat propulsion engine -outboard motor | Reg. III/4, III/34, X/3,LSA-Code V,Res. MSC.81(70) |       |       |       |       |       |       |       |
| MED /1.38 | Searchlights for use in lifeboats and rescue boats | Reg. III/4, III/34, X/3,LSA-Code I, IV, V, HSC-Code 1994 +2000, 8,Res. MSC.81(70) |       |       |       |       |       |       |       |
| MED /1.39 | Open reversible liferafts | Reg. III/4, Reg. X/3,LSA-Code I,HSC-Code 1994, 8,Annex 10,HSC-Code 2000, 8,Annex 11,And for extended service intervals: MSC.1/Circ.1328 |       |       |       |       |       |       |       |
| MED /1.40 | Mechanical pilot hoist | Moved to MED /4.48 |
| MED /1.41 | Winches for survival craft and rescue boats (a) davit launched life boats, (b) free-fall life boats (c) liferafts, (d) rescue boats,(e) fast rescueboats | Reg. III/4, III/16, III/17, III/23,III/24,III/34, X/3,LSA-Code I, VI,HSC-Code 1994 +2000, 8,Res. MSC.81(70) |       |       |       |       |       |       |       |
| MED /1.42 | Pilot ladder | Moved to MED /4.49 |
| MED /1.43 | Rigid/inflated rescue boats | Reg. III/4, III/21, III/31, III/34, X/3,LSA-Code I, V,HSC-Code 1994 + 2000, 8,Res. MSC.81(70),MSC/Circ. 1006, ISO 15372.2000 |       |       |       |       |       |       |       |
|  |
| **2. Marine-Pollution Prevention** |
| MED /2.1 | Oil filteringequipment (for an oil content of the effluent not exceeding 15 p.p.m.) | MARPOL 73/78 Annex I, Reg. 14, MEPC.1/Circ.643,Res. MEPC.107 (49) |       |       |       |       |       |       |       |
| MED /2.2 | Oil/water interface detectors | MARPOL 73/78 Annex I Reg. 32, Res. MEPC 5 (XIII) |       |       |       |       |       |       |       |
| MED/2.3 | Oil-content meters | MARPOL 73/78 Annex I, Reg. 14, MEPC.1/Circ.643,Res. MEPC.107 (49) |       |       |       |       |       |       |       |
| MED /2.4 | Process units inten-ded for attachment to existing oily water separating equipment (for an oil content of the effluent not exceeding 15 p.p.m.) | Deliberately left blank |
| MED /2.5 | Oil discharge monitoring and control system for oil tankers | Annex I, Reg. 31,MEPC.1/Circ.761, Rev.1,Res. MEPC 108 (49) |       |       |       |       |       |       |       |
| MED /2.6 | Sewage systems | Annex IV, Reg. 9, Res. MEPC.227(64): (a) incl. sect. 4.2 (for use by passenger ships in all areas, incl. MARPOL Annex IV special area (b) not including section 4.2 (for use by ships, other than passenger ships, in all areas and by passenger ships outside MARPOL Annex IV special areas). |       |       |       |       |       |       |       |
| MED /2.7 | Shipboard incinerators (Incinertor plants with capacities greater than 1500 Kw and up to 4000 kW | Annex IV, Reg. 16,MEPC.1/Circ.793,Res. MEPC.76 (40) |       |       |       |       |       |       |       |
| MED /2.8 | NOx analyser for use on board as per NOx Technical Code 2008 | Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 13), - Res. MEPC.177(58) - NOx-Technical Code 2008)- MEPC.198(62),MEPC. -1/Circ. 638 |       |       |       |       |       |       |       |
| MED /2.9 | Equipment using other technological methods to limit SOx emissions | Item deliberately eft blank |       |       |       |       |       |       |       |
| MED /2.10 | On board exhaust gas cleaning systems | Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4)- Res. MEPC. 184(59)- Res. MEPC. 259(68)  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **3. Fire Protection** |
| MED /3.1 | Primary decks covering | Reg. II-2/4, II-2/6, X/3, HSC Code 1994 + 2000, 7,2010 FTP Code  |       |       |       |       |       |       |       |
| MED /3.2 | Portable fire extinguishers | Reg.II-2/4, II-2/10, II-2/18, II-2/19, II-2/20, X/3,FSS Code, 4, Res. A.951(23), HSC Code 1994 + 2000, 7,MSC/Circ. 1239,MSC/Circ. 1275,EN 3-7 :2004+A.1 :2007, EN 3-8 :2006+AC:2007,EN 3-9 :2006+AC:2007,EN 3-10 :2009 |       |       |       |       |       |       |       |
| MED /3.3 | Fire-fighters outfit: protective clothing (close proximity clothing) | Reg. II-2/10., X/3,FSS Code, 3,HSC Code 1994 + 2000, 7,Protective clothing for fire fighting:- EN 469:2005 + A1:2006 + AC:2006, ORProtective clothing for fire fighting - reflective clothing for specialised fire-fighting: - EN 1486 :2007, ORProtective clothing for fire fighting - Protective clothing with a reflective outer surface: -ISO 15538:2001 Note: Level 2. |       |       |       |       |       |       |       |
| MED /3.4  | Fire-fighters outfit:boots | Reg. II-2/10., X/3,FSS Code, 3,HSC Code 1994 + 2000, 7, EN 15090 :2012 |       |       |       |       |       |       |       |
| MED/3.5  | Fire-fighters outfit: gloves | Reg. II-2/10., X/3,FSS Code, 3,HSC Code 1994 + 2000, 7,EN 659 :2003 + A1:2008 + AC:2009 |       |       |       |       |       |       |       |
| MED /3.6 | Firefighters outfit: helmet | Reg. II-2/10., X/3,FSS Code, 3,HSC Code 1994 + 2000, 7,EN 443:2008 |       |       |       |       |       |       |       |
| MED /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., X/3,FSS Code, 3,HSC Code 1994 + 2000, 7,EN 136:1998 + AC:2003, EN 137:2006 And where the apparatus is for use in accidents with cargo:IBC Code 14, IGC Code 14,ISO 23269-3:2011 |       |       |       |       |       |       |       |
| MED /3.8 | Compressed air line breathing apparatus | Reg. X/3,HSC Code 1994, 7,EN 14593-1:2005,EN 14593-2:2005+AC:2005,EN 14594:2005+AC:2005 | Note: This equipment is only for high speed craft built under provisions of the 1994 HSC Code.  - The use is not allowed on ships, flying the German Flag -  |
| MED /3.9 | Sprinkler systems components for accommodation spaces, service spaces and control stations equivalent to that referred to in SOLAS 74 Reg. II-2/12 (limited to nozzles and their performance).(Nozzels for fixedsprinkler systems for high speed craft (HSC) are included under this item). | Reg. II-2/7, II-2/9, II-2/10,X/3,FSS Code, 8,HSC Code 1994 + 2000, 7,Res. MSC.44(65),Res. A.800(19),MSC.Circ.912 |       |       |       |       |       |       |       |
| MED /3.10  | Nozzles for fixed pressure water-spraying fire extin-guishing systems for machinery spaces and cargo pump-rooms. | Reg. II-2/10., X/3,FSS Code, 7,HSC Code 1994 + 2000, 7,MSC.1/Circ.1313,MSC/Circ.1165, Appendix A, as amended. |       |       |       |       |       |       |       |
| MED /3.11 | „A“ and „B“ Class divisions fire integrity (a) "A" class divisions,(b) "B" class divisions | Reg.II-2/9 and,„A“Class: Reg.II-2/3.2,MSC.Circ.1120, MSC.1/Circ.1434,MSC.1/Circ.1435,Res. MSC. 307(88)-(2010 FTP Code)“B”Class: Reg.II-2/ 3.42010 FTP Code  |       |       |       |       |       |       |       |
| MED /3.12 | Devices to prevent the passage of flame into the cargo tanks in tankers | Reg.II-2/4, II-2/16,MSC/Circ. 677 EN ISO 16852:2010,ISO 15364:2007(a) P/V valves: MSC/Circ. 677, EN ISO 16852:2010,ISO 15364:2007 (b) Flame arresters: MSC/Circ. 677, EN ISO 16852:2010, (c) Detonation flame arresters: MSC/Circ. 677, EN ISO 16852:2010, (d) high velocity vent valves: MSC/Circ. 677, EN ISO 16852:2010, ISO 15364:2016 |       |       |       |       |       |       |       |
| A.1/3.13 | Non-combustible materials | Reg. II-2/3, II-2/5, II-2/9, X/3,HSC Code 1994 + 2000, 7,2010 FTP Code  |       |       |       |       |       |       |       |
| A.1/3.14 | Materials other than steel for pipes penetrating „A“ or „B“ class division | Item included in MED/3.26 and MED/3.27 |
| MED /3.15 | Materials other than steel for pipes conveying oil or fuel oil (a) plastic pipes and fittings,(b) valves,(c) flexible pipe assemblies and compensators,(d) metallic pipe components with resilient and elastomeric seals. | Reg. II-2/4, X/3 HSC Code 1994+2000,7,10,MSC/Circ.1120for a) Res. A.753(18),2010 FTP Codefor b) EN ISO 10497:2010for c) EN ISO 15540:2001 + EN ISO 15541:2001for d) ISO 19921:2005 + ISO 19922:2005 |       |       |       |       |       |       |       |
| MED /3.16 | Fire doors | Reg. II-2/92010 FTP-Code MSC.1/Circ. 1319 |       |       |       |       |       |       |       |
| MED /3.17 | Fire door control systems components | Reg. II-2/9, X/3,HSC Code 2000, 7,FTP-Code 2010 |       |       |       |       |       |       |       |
| MED /3.18 | Surface materials and floor coverings with low flame-spread characteristics (a) decorative veneers,(b) paint sys-tems,(c) floor cover-ings,(d) pipe insulation covers,(e) adhesives used in the construction of "A","B" & "C" class divisions,(f) combustible ducts membrane. | Reg. II-2/3, II-2/5, II-2/6, II-2/9, X/3HSC Code 1994 + 2000, 7,2010 FTP-Code MSC/Circ.1120 |       |       |       |       |       |       |       |
| MED /3.19 | Draperies, curtains and other suspended textile materials and films | Reg. II-2/3, II-2/9, X/3,HSC Code 1994 + 2000, 7,2010 FTP-Code MSC.1/Circ.1456 |       |       |       |       |       |       |       |
| MED /3.20 | Upholstered furni-ture | Reg. II-2/3, II-2/5, II-2/9, X/3,HSC Code 1994 + 2000, 7,2010 FTP-Code  |       |       |       |       |       |       |       |
| MED /3.21 | Bedding components | Reg. II-2/3, II-2/9, X/3,HSC Code 1994 + 2000, 7,2010 FTP-Code  |       |       |       |       |       |       |       |
| MED /3.22 | Fire dampers | Reg. II-2/9,2010 FTP-Code |       |       |       |       |       |       |       |
| MED /3.23 | Non-combustible duct penetrations through „A“ class divisions | Item deliberately left blank. |
| MED /3.24 | Electric cable transits through „A“ class divisions | Item deliberately left blank. |
| MED/3.25 | “A” and “B” class fire proof windows and side scuttles | Reg. II-2/9,MSC/Circ.1120,2010 FTP-Code  |       |       |       |       |       |       |       |
| MED /3.26 | Penetrations through “A” class divisions(a) electric cable transits,(b) pipe,duct, trunk, etc. penetrations | Reg. II-2/9,MSC.Circ.1/1488,MSC/Circ. 1276 (only applicable to (b)),2010 FTP-Code |       |       |       |       |       |       |       |
| MED /3.27 | Penetrations through ‘B’ class divisions by (a) electric cable transits,(b) pipe, duct, trunk, etc. penetrations | Reg. II-2/9,2010 FTP-Code  |       |       |       |       |       |       |       |
| MED /3.28 | Sprinkler systems (limited to sprinkler heads).(Nozzels forfixed sprinkler sytems for high speed craft (HSC) are included under this item). | Reg. II-2/7, II-2/10, X/3,HSC Code 1994 + 2000, 7,Res. MSC.44(65),FSS Code, 8, MSC/Circ.912,ISO 6182‑1:2014. OrEN 12259-1:1999) incl. A 1:2001, A2:2004 and A3: 2006 |       |       |       |       |       |       |       |
| MED /3.29 | Fire fighting hoses Non-percolating lay flat fire-fighting hoses (range of the inside diameter from 25 mm to 52 diameter) | Reg. II-2/10, X/3,HSC Code 1994 + 2000, 7,EN 14540:2014 |       |       |       |       |       |       |       |
| MED /3.30 | Portable oxygen analysis and gas detection equipment | Reg. II‑2/4, VI/3,FSS-Code, 15,- EN 60945:2002 incl.IEC 60945 Corrig. 1 (2008) or IEC 60945 (2002) incl.IEC 60945 Corrig. 1 (2008),- IEC 60092-504:2001 incl. IEC 60092-504 Corrig. 1:2011,- IEC 60533:1999 and fora) Category 1: (safe area)- EN 50104:2010,- EN 60079-29-1:2007,b) Category 2: (explosive gasatmospheres):- EN 50104:2010,- EN 60079-29-1:2007,- EN 60079-0:2012 incl. A11:2013, - EN 60079-1:2007 incl. IEC 60079-1-Corrig. 1 (2008),- EN 60079-10-1:2009- EN 60079-11:2012- EN 60079-15:2010- EN 60079-26:2007 |       |       |       |       |       |       |       |
| MED /3.31 | Nozzles for fixed sprinkler systems for high speed craft HSC | Item deleted as it is covered by MED /3.9 and MED /3.28 |       |       |       |       |       |       |       |
| MED /3.32 | Fire restricting materials (except furniture) for high speed craft | Reg. X/3,HSC Code 1994 + 2000, 7,2010 FTP-Code,MSC.1/Circ.1457  |       |       |       |       |       |       |       |
| MED /3.33 | Fire restricting materials for furniture for high speed craft | Reg. X/3,HSC Code 1994 + 2000, 7,2010 FTP-Code |       |       |       |       |       |       |       |
| MED /3.34 | Fire resisting divisions for high speed craft | Reg. X/3,HSC Code 1994 + 2000, 7,2010 FTP-Code MSC.1/Circ.1457 |       |       |       |       |       |       |       |
| MED /3.35 | Fire doors on high speed craft | Reg. X/3,HSC Code 1994 + 2000, 7,2010 FTP-Code  |       |       |       |       |       |       |       |
| MED /3.36 | Fire dampers on high speed craft | Reg. X/3,HSC Code 1994 + 2000, 7,2010 FTP-Code  |       |       |       |       |       |       |       |
| MED /3.37 | Penetrations through fire resisting divisions on high speed craft (a) electric cable transits (b) pipe, duct, trunk etc. penetrations | Reg. X/3,HSC Code 1994 + 2000, 7,2010 FTP-Code  |       |       |       |       |       |       |       |
| MED /3.38 | Portable fire-extinguishing equipment for lifeboats and rescue boats | Reg. III/4, III/34, X/3,HSC Code 1994,8 + 2000,8, LSA Code I, IV, V,Res. A.951(23),EN 3-7:2004 + A1:2007,EN 3-8:2006 + AC:2007, EN 3-9:2006 + AC 2007,EN 3-10:2009 |       |       |       |       |       |       |       |
| MED /3.39 | Nozzles for equivalent water- mist fire extingui-shing systems for machinery spaces and cargo pump rooms | Reg. II-2/10, X/3,HSC Code 1994,7 + 2000, 7,FSS Code, 7,MSC/Circ. 1165,MSC.1/Circ. 1313,MSC.1/Circ.1458 |       |       |       |       |       |       |       |
| MED /3.40 | Low-location lighting systems (components only) | Reg. II-2/13, FSS Code, 11Res. A.752(18) or ISO 15370:2010 |       |       |       |       |       |       |       |
| MED /3.41 | Emergency escape breathing devices (EEBD) | ISO 23269-1 (2008) and alternatively: For self contained open circuit compressed air breathing apparatus with full mask or mouthed piece assembly for escape: EN 402:2003.For self contained open circuit compressed air breathing apparatus with a hood for escape: EN 1146:2005. For self contained: closed circuit compressed air breathing apparatus: EN 13794:2002. |       |       |       |       |       |       |       |
| MED /3.42 | Inert gas systems components | Reg. II-2/4,Res. A.567(14),FSS Code, 15,MSC/Circ. 353, MSC/Circ. 485, MSC/Circ. 731,MSC/Circ. 1120 |       |       |       |       |       |       |       |
| MED /3.43 | Nozzles for deep fat cooking equipment fire extinguishing systems (automatic or manual type) | Reg. II-2/1, II-2/10, X/3,HSC Code 2000, 7,MSC.1/Circ.1433,  ISO 15371:2015 |       |       |       |       |       |       |       |
| MED /3.44 | Firefighters outfit - lifeline | Reg. II-2/10, X/3HSC Code 1994 + 2000, 7,FSS Code, 3,2010 FTP-Code  |       |       |       |       |       |       |       |
| MED /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, X/3,FSS Code, 5,HSC Code 1994 + 2000, 7,MSC/Circ. 848, MSC.1/Circ. 1313,MSC.1/Circ. 1316,  |       |       |       |       |       |       |       |
| MED /3.46 | Equivalent fixed gas fire extinguishing systems for machinery spaces (aerosol systems) | Reg. II-2/10, X/3,FSS Code, 5,HSC Code 1994 + 2000, 7,MSC.1/Circ. 1270 incl.Corrigendum 1MSC.1/Circ. 1313 |       |       |       |       |       |       |       |
| MED /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 (incl. those systems which use inside air from their working spaces for their intended performance),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,FSS Code, 6,MSC/Circ. 670 |       |       |       |       |       |       |       |
| MED /3.48 | Fixed water based local application fire fighting systems components for use in category “A” machinery spaces.(Nozzles and performance tests). | Reg. II-2/10, X/3,HSC Code 1994 + 2000, 7,MSC.1/Circ. 1387 |       |       |       |       |       |       |       |
| MED /3.49  | Fixed water-based fire-fighting systems for ro-ro spaces, vehicle spaces and special category spaces (a) Prescriptive-based systems as per Circ. 1430 Clause 4:(b) Performance-based systems as per Circ. 1430 Clause 5.  | Reg. II-2/19, II-2/20, X/3,HSC Code 1994 + 2000, 7,FSS Code, 7, MSC.1/Circ. 1430 |       |       |       |       |       |       |       |
| MED /3.50 | Protective clothing resistant to chemical attack | Item deliberately left blank. |
| A.1/3.51 | Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces(a) Control and indicating equipment(b) Power supply equipment(c) Heat detectors - Point detectors(d) Smoke detectors: Point detectors using scattered light, transmitted light or ionization(e) Flame detectors: Point detectors(f) Manual call points(g) Short circuit isolators(h) Input/output devices(i) Cables | Reg. II-2/7, Regel X/3, FSS Code, 9,HSC Code 1994 + 2000, 7,MSC.1/Circ. 1242, MSC.1/Circ.1487(a) Control and indicating equipment, electrical installations in ships: EN 54-2:1997 incl. AC:1999 and A1:2006.(b) Power supply equipment: EN 54-4:1997 incl. AC:1999, A1:2002 and A2:2006(c) Heat detectors-Point detectors: EN 54-5:2000 incl.A1:2002(d) Smoke detectors-Point detectors using scattered light transmitted light or ionisation: EN 54-7:2015 (e) Flame detectors-Point detectors: EN 54-10:2002 incl. A1:2005(f) Manual call points:EN 54-11:2001 incl.A1:2005(g) Short circuit isolators:EN 54-17:2007 incl.AC:2007(h) Input/output devices:EN 54-18:2005 incl.AC:2007(i) Cables: EN 60332-1-2:2004, IEC 60092-376:2003,And, as applicable, electrical and electronic installations in ships: IEC 60092-504:2016,IEC 60533:2015 |       |       |       |       |       |       |       |
| MED/3.52 | Non-portable and transportable fire extinguishers | Reg. II-2/10, X/3, II-2/4,HSC Code 1994 + 2000, 7,EN 1866-1:2007,EN 1866-2:2014. Or EN 1866-1:2007,EN 1866-3:2013. Or ISO 11601:2008 |       |       |       |       |       |       |       |
| MED/3.53 | Fire alarm devices-Sounders | Reg. II-2/7, X/3,FSS Code, 9,HSC Code 1994 + 2000, 7,MSC.1/Circ.1242, MSC.1/Circ.1487.Sounders:- EN 54-3 :2014, -IEC 60092-504:2016 -IEC 60533:2015. |       |       |       |       |       |       |       |
| MED/3.54 | Fixed oxygen analysis and gas detection equipment | Reg. II-2/4, VI/3,FSS Code, 15,For combined O2// HC systems additionally: -MSC.1/Circ.1370.- IEC 60092-504:2016,- IEC 60533.2015. And as applicable to:a) Category 4: (safe area)EN 5010:2010b) Category 3: (explosive gas atmospheres: - EN 50104 :2010,- EN 60079-0 :2012 incl. A11:2013,EN 60079-29-1:2007. |       |       |       |       |       |       |       |
| MED/3.55  | Dual-purpose type nozzles(spray/jet type) | Reg. II-2/10, X/3,HSC Code 1994 + 2000, 7,Hand held branchpipes for fire service use-Combination branchpipes PN 16:- EN 15182-1:2007 incl.A1:2009 - EN 15182-2 :2007 incl. A1 :2009Hand held branchpipes for fire service use - Smooth bore jet and/or one fixed spray jet angle branchpipes PN 16:- EN 15182-1:2007 incl. A1:(2009, - EN 15182-3:2007 incl. A1:2009 |       |       |       |       |       |       |       |
| MED/3.56  | Fire fighting hose systems Hose reels with semi-rigid hose | Reg. II-2/10, X/3,HSC Code 1994 + 2000, 7,EN 671-1:2012  |       |       |       |       |       |       |       |
| MED/3.57  | Medium expansion foam fire extinguishing systems components - Fixed deck Foam for Tankers | Reg. II-2/10., II-2/10.8.1,FSS Code, 14,MSC.1/Circ.1239,MSC.1/Circ.1276,MSC/Circ.798 |       |       |       |       |       |       |       |
| A.1/3.58  | Fixed low expansion foam fire extinguishing systems components for Machinery Spaces and Tanker Deck Protection | Reg. II-2/10,FSS Code, 6, 14,MSC.1/Circ.1239,MSC.1/Circ.1276,MSC.1/Circ.1312,MSC.1/Circ.1312 Corr.1.  |       |       |       |       |       |       |       |
| MED/3.59  | Expansion Foam for Fixed Fire Extinguishing Systems for Chemical Tankers | Reg.II-2/1,IBC Code, 11,MSC/Circ. 553, MSC.1/Circ.1312, MSC.1/Circ.1312/ Corr.1 |       |       |       |       |       |       |       |
| MED/3.60 | Nozzles for fixed pressure water-spraying fire-extinguishing systems for cabin balconies | Reg. II-2/10,FSS Code, 7,MSC.1/Circ.1268, MSC.1/Circ.1313. |       |       |       |       |       |       |       |
| MED/3.61 | a) Inside air high expansion foam systems for the protection of machinery spaces and cargo pump rooms, vehicle and ro-ro spaces, special category spaces and cargo spaces.b) Outside air high expansion foam systems for the protection of machinery spaces, cargo pump rooms, vehicle and ro-ro spaces, special category spaces and cargo spaces. | Reg. II-2/10,FSS Code, 6, MSC.1/Circ.1384Note: Inside/Outside air high expansion foam systems for the protection of machinery spaces, cargo pump rooms, vehicle and ro-ro spaces, special category spaces and cargo spaces shall be tested with the approved concentrate to the satisfaction of the Administration. |       |       |       |       |       |       |       |
| MED/3.62 | Dry chemical powderextinguishing systems | Reg.II-2/1, IGC Code, 11,MSC.1/Circ.1315.  |  |  |  |  |  |  |   |
| MED/3.63 | Sample extractionsmoke detectionsystems components | Reg. II-2/7, II-2/19, II-2/20,FSS Code, 10,and for: Control and indicating equipment. Electrical installations in ships:- EN 54-2:1997 incl. AC:1999 and A1:2006.Power supply equipment:- EN 54-4:1997 incl. AC:1999, and A1:2002 and A2:2006.Aspiring smoke detectors:- EN 54-20:2006 incl. AC: 2008. And as applicable, electrical and electronic installations in ships:-IEC 60092-504:2016 ,- IEC 60533:2015 And, as applicable for explosive atmospheres:EN 60079-0:2012 incl. A11:2013 |  |  |  |  |  |  |  |
| MED/3.64  | "C" class divisions | Reg.II-2/3.10, II-2/9, 2010 FTP Code  |  |  |  |  |  |  |  |
| MED/3.65 | Fixed hydrocarbon gas detection system | Reg. II-2/4, FSS Code, 16,MSC.1/Circ.1370.- IEC 60079-0:2012 incl. A11:2013- EN 60079-29-1:2007,- IEC 60092-504:2016,IEC 60533:2015. |  |  |  |  |  |  |  |
| MED/3.66 | Evacuation guidance systems used as an alternative to low-location lighting systems | Reg. II-2/13,MSC.1/Circ.1168 |  |  |  |  |  |  |  |
| MED/3.67 | Helicopter facility foam-fire fighting appliances | Reg. II-2/18,MSC.1/Circ.1431.- EN 13565-1:2003 including A1:2007 |  |  |  |  |  |  |  |
| MED/3.68 | Galley Exhaust Duct Fixes Fire Extinguishing Systems components | Reg. II-2/9, ISO 15371:2015 |  |  |  |  |  |  |  |
| MED/3.69 | Mobile water monitor for ships constructed on or after 1 January 2016 designed to carry five or more tiers of containers on or above the weather deck | Reg. II-2/10, MSC.1/Circ.1472 |  |  |  |  |  |  |  |
| MED/3.70 | Fire-fighting hoses Semi-rigid hoses for fixed systems | Reg. II-2/10, Reg. X/3MSC.1/Circ.1472HSC Code 1994 + 2000, 7,- EN 694:2014 |  |  |  |  |  |  |  |
| MED/3.71 | Fixed firefighting hose systems Hose systems with lay-flat hose | Reg. II-2/10, Reg. X/3.HSC Code 1994 + 2000, 7,- EN 671-2:2012 |  |  |  |  |  |  |  |
| **Additional equipment to be approved for seagoing German flagged ships (only BG Verkehr approvals)** |
| 1 | Special extinguishing powder | IGC-Code Kap.11.4.1Approval certificate issued by the Ministry of the Interior of North-Rhine Westphalia or Saxony |       |       |       |       |       |       |       |
| 2 | Electric safety lamps, explosion-proof | Reg. II-2/17.1.1.4IMO Resolution MSC.36(63) 7.10.3.1.4 (1994 HSC Code),APR §§ 48, 278(3)Certificate for use in hazar-dous areas |       |       |       |       |       |       |       |