

## List of MARINE type approvals

ABS	Certificate number	Issued at	Valid until	HI-FOG system	Regulation
Ro-Ro spaces and special category spaces	08-LD369670-2-PDA	May 2013	May 2018	SPU	Ro-Ro Circ.1272 & 1430
Balcony	08-LD361737-2-PDA	May 2013	May 2018	SPU	Balcony Circ.1268
Machinery local application	03-LD375738/2-PDA	Jun 2013	Jun 2018	SPU	ML5-ML9 Circ.913 & 1387
Machinery space low pressure bilge foam	13-LD964185-PDA	Jun 2013	Jun 2018	Custom	Bilge foam Circ.1165
Deep fat fryer	14-PR1144943-PDA	Mar 2014	Mar 2019	SPU & KAU	DFF ISO15371:2009
Machinery space total flooding 1500m3	04-LD411874/5-PDA	Apr 2014	Apr 2019	GPU	GPU Circ.1165
Accomodation, public spaces and storage areas HF3000	14-GD1278794-PDA	Nov 2014	Nov 2019	SPU	HI-FOG3000 Res.MSC.265(84)
Machinery space total flooding 6600m3	15-LD1433474-PDA	Oct 2015	Oct 2020	SPU	MT4 Circ.1165
Accomodation, public spaces and storage areas HF1900	14-LD1516362-PDA	May 2016	May 2021	GPU&SPU	HI-FOG1900 Res.A.800(19)
Ducts	16-LD1518446-PDA	Jun 2016	Jun 2021	SPU	Ducts ISO15371:2009
Machinery local application	16-LD1588174-PDA	Jan 2017	Jan 2022	GPU	GPU Circ.913 & 1387

Bureau Veritas	Certificate number	Issued at	Valid until	HI-FOG system	Regulation
Machinery space low pressure bilge foam	31907/A1 BV	Nov 2012	Nov 2017	Custom	Bilge foam Circ.1165
Ro-Ro spaces and special category spaces	21458/B0 BV	May 2014	Aug 2019	SPU	Ro-Ro Circ.1272 & 1430
Accomodation, public spaces and storage areas HF3000	39817/A0 BV	Jan 2015	Jan 2020	SPU	HI-FOG3000 Res.MSC.265(84)
Accomodation, public spaces and storage areas HF1900	43614/A0 BV	Dec 2015	Dec 2020	GPU&SPU	HI-FOG1900 Res.A.800(19)
Deep fat fryer	35595/A0 BV	Dec 2015	Dec 2020	SPU & KAU	DFF ISO15371:2009
Machinery space total flooding 6600m3	17131/C0 BV	Nov 2015	Jan 2021	SPU	MT4 Circ.1165
Ducts	45724/A0 BV	Jun 2016	Jun 2021	SPU	Ducts ISO15371:2009
Machinery space total flooding 1500m3	09484/D0 BV	Sep 2016	Feb 2022	GPU	GPU Circ.1165

Bureau Veritas MED EC Type Examination Certificate Council Directive 96/98 EC on Marine Equipment (MED)	Certificate number	Issued at	Valid until	HI-FOG system	Regulation
Machinery local application	09485/C0 EC	Sep 2012	Sep 2017	GPU	GPU Circ.913 & 1387

China Classification Society	Certificate number	Issued at	Valid until	HI-FOG system	Regulation
Machinery local application	SW16T00001_04	May 2016	Mar 2019	SPU	ML5-ML9 Circ.913 & 1387
Deep fat fryer	SW16T00001_02	May 2016	Mar 2019	SPU & KAU	DFF ISO15371:2009
Machinery space total flooding 6600m3	SW16T00001_03	May 2016	Mar 2019	SPU	MT4 Circ.1165
Accomodation, public spaces and storage areas HF3000	SW16T00001_01	May 2016	Mar 2019	SPU	HI-FOG3000 Res.MSC.265(84)

## List of MARINE type approvals

<b>DNV (now DNV-GL) (+ former Germanischer Lloyd's approvals)</b>	<b>Certificate number</b>	<b>Issued at</b>	<b>Valid until</b>	<b>HI-FOG system</b>	<b>Regulation</b>
Accommodation, public spaces and storage areas HF3000	F-21116	May 2015	Jun 2019	SPU	HI-FOG3000 Res.MSC.265(84)
Accommodation, public spaces and storage areas HF1900	TAF0000023	Jul 2015	Jul 2019	GPU&SPU	HI-FOG1900 Res.A.800(19)
Combustion turbines, machinery spaces, and special hazard machinery spaces in enclosures with volumes up to, and including 260 m <sup>3</sup>	262.1-021221-J-1, Rev.1	Dec 2015	Dec 2019	MAU	Machinery space 260 m <sup>3</sup>
SVQ valve	TAP000006D	Nov 2015	Jun 2020	SVQ	DNV valve
Machinery local application	TAF00000E6	Sep 2016	Jun 2021	GPU	GPU Circ.913 & 1387
Machinery local application	TAF00000E5	Sep 2016	Jun 2021	SPU	MLPU Circ.913 & 1387
Machinery local application	TAF00000E7	Sep 2016	Jun 2021	SPU	ML9 Circ.913 & 1387
Quality	63724-2009-AQ-FIN-FINAS	Oct 2015	Sep 2018	Quality	ISO9001

<b>DNV MED EC Type Examination Certificate Council Directive 96/98 EC on Marine Equipment (MED)</b>	<b>Certificate number</b>	<b>Issued at</b>	<b>Valid until</b>	<b>HI-FOG system</b>	<b>Regulation</b>
Machinery space low pressure bilge foam	MED-B-7932	Jan 2013	Jan 2018	Custom	Bilge foam Circ.1165
Machinery space total flooding 1500m <sup>3</sup>	MED-B-8405	Jun 2013	Jun 2018	GPU	GPU Circ.1165
Deep fat fryer	MED-B-8587	Feb 2015	Feb 2020	SPU & KAU	DFF ISO15371:2009
Accommodation, public spaces and storage areas HF3000	MED-B-9677	May 2015	May 2020	SPU	HI-FOG3000 Res.MSC.265(84)
Machinery space total flooding 6600m <sup>3</sup>	MEDB00000E9	Dec 2015	Dec 2020	SPU	MT4 Circ.1165
Ro-Ro spaces and special category spaces	MEDB00000EC	Dec 2015	Dec 2020	SPU	Ro-Ro Circ.1272 & 1430
Balcony	MEDB00000ED	Dec 2015	Dec 2020	SPU	Balcony Circ.1268
Ducts	MEDB0000193	Aug 2016	Aug 2021	SPU	Ducts ISO15371:2009

<b>Korean Register of Shipping</b>	<b>Certificate number</b>	<b>Issued at</b>	<b>Valid until</b>	<b>HI-FOG system</b>	<b>Regulation</b>
Machinery local application	45 991-03 HH	May 2012	May 2017	SPU	ML5-ML9 Circ.913 & 1387

## List of MARINE type approvals

Lloyd's Register	Certificate number	Issued at	Valid until	HI-FOG system	Regulation
Machinery local application	SAS F120384/M1	Dec 2015	Dec 2017	SPU	ML5-ML9 Circ.913 & 1387
Machinery space low pressure bilge foam	SAS F130049	Mar 2013	Mar 2018	Custom	Bilge foam Circ.1165
Ro-Ro spaces and special category spaces	SAS F140100	Apr 2014	Mar 2019	SPU	Ro-Ro Circ.1272 & 1430
Ro-Ro spaces and special category spaces	SAS F140101	Apr 2014	Mar 2019	SPU	Ro-Ro Circ.1272 & 1430
Balcony	SAS F150022	Jun 2014	May 2019	SPU	Balcony Circ.1268
Deep fat fryer	SAS F140179	Jul 2014	Jul 2019	SPU & KAU	DFE ISO15371:2009
Machinery space total flooding 6600m3	SAS F150057	Feb 2015	Feb 2020	SPU	MT4 Circ.1165
Accommodation, public spaces and storage areas HF3000	SAS F150066	Feb 2015	Feb 2020	SPU	HI-FOG3000 Res.MSC.265(84)
Machinery space total flooding 1500m3	SAS F150176	Mar 2015	Mar 2020	GPU	GPU Circ.1165
Machinery local application	SAS F150334	Aug 2015	Aug 2020	GPU	GPU Circ.913 & 1387
Accommodation, public spaces and storage areas HF1900&2000	SAS F160049	Aug 2015	Aug 2020	GPU	HI-FOG1900 Res.A.800(19)
Accommodation, public spaces and storage areas HF1900	SAS F160050	Aug 2015	Aug 2020	SPU	HI-FOG1900 Res.A.800(19)
Ducts	SAS F170075	Apr 2017	Apr 2022	SPU	Ducts ISO15371:2009

Nippon Kaiji Kyokai	Certificate number	Issued at	Valid until	HI-FOG system	Regulation
Machinery local application	KB14ES220	Sep 2014	Jun 2019	SPU	MLPU Circ.913 & 1387

RINA	Certificate number	Issued at	Valid until	HI-FOG system	Regulation
Machinery local application	FPE190112CS	Jul 2012	Jul 2017	SPU	ML5-ML9 Circ.913 & 1387
Machinery space low pressure bilge foam	FPE036914CS	Feb 2014	Feb 2019	Custom	Bilge foam Circ.1165
Deep fat fryer	FPE164314CS	Jun 2014	Jun 2019	SPU & KAU	DFE ISO15371:2009
Accommodation, public spaces and storage areas HF3000	FPE337314CS	Nov 2014	Nov 2019	SPU	HI-FOG3000 Res.MSC.265(84)
Machinery space total flooding 1500m3	FPE020515CS	Feb 2015	Feb 2020	GPU	GPU Circ.1165
Ro-Ro spaces and special category spaces	FPE020615CS	Feb 2015	Feb 2020	SPU	Ro-Ro Circ.1272 & 1430
Balcony	FPE020715CS	Feb 2015	Feb 2020	SPU	Balcony Circ.1268
Accommodation, public spaces and storage areas HF1900	FPE211615CS	Jun 2015	Jun 2020	GPU&SPU	HI-FOG1900 Res.A.800(19)
Machinery local application	FPE024116CS	Jan 2016	Jan 2021	GPU	GPU Circ.913 & 1387
Ducts	FPE172116CS	Jun 2016	Jun 2021	SPU	Ducts ISO15371:2009
Machinery space total flooding 6600m3	FPE205116CS	Aug 2016	Aug 2021	SPU	MT4 Circ.1165

## List of MARINE type approvals

Russian Maritime Register of Shipping	Certificate number	Issued at	Valid until	HI-FOG system	Regulation
Galley & Laundry Ducts	13.00641.313	Feb 2013	Feb 2018	SPU	Ducts
Machinery space low pressure bilge foam	13.01102.313	Mar 2013	Mar 2018	Custom	Bilge foam Circ.1165
Deep fat fryer	15.01337.313	May 2015	May 2020	SPU & KAU	DFI ISO15371:2009
Accommodation, public spaces and storage areas HF3000	15.01335.313	May 2015	May 2020	SPU	HI-FOG3000 Res.MSC.265(84)
Machinery space total flooding 1500m3	17.00378.313	Jan 2017	Jan 2022	GPU	GPU Circ.1165
Machinery local application	17.00379.313	Jan 2017	Jan 2022	GPU	GPU Circ.913 & 1387
Machinery space total flooding 6600m3	17.00379.313	Jan 2017	Jan 2022	SPU	MT4 Circ.1165
Ro-Ro spaces and special category spaces	17.00384.313	Jan 2017	Jan 2022	SPU	Ro-Ro Circ.1272 & 1430
Machinery local application	17.00382.313	Jan 2017	Jan 2022	SPU	ML5-ML9 Circ.913 & 1387
Ducts	17.00386.313	Jan 2017	Jan 2022	SPU	Ducts ISO15371:2009

Panama Maritime Authority	Certificate number	Issued at	Valid until	HI-FOG system	Regulation
Accommodation and public spaces	SEG-TEC-RG02/06/80	Jun 2002	Continuous	SPU	HI-FOG2000 Res.A.800(19)
Machinery local application	SEG-TEC-RG02/06/70	Jun 2002	Continuous	SPU	MLPU Circ.913 & 1387

US Coast Guard	Certificate number	Issued at	Valid until	HI-FOG system	Regulation
Machinery space total flooding 6600m3	162.135/11/0	Jan 2015	Jan 2019	SPU	MT4 Circ.1165
Accommodation, public spaces and storage areas HF3000	162.135/18/0	Mar 2016	Mar 2021	SPU	HI-FOG3000 Res.MSC.265(84)
Accommodation, public spaces and storage areas HF1900&2000	162.135/9/0	Jul 2016	Jul 2021	SPU	HI-FOG1900&2000 Res.A.800(19)
Machinery space total flooding 1500m3	162.135/6/0	Sep 2016	Sep 2021	GPU	GPU Circ.1165
Gas turbine encl., paint lockers and mach. spaces up to and including 260m <sup>3</sup>	162.135/13/0	Dec 2016	Dec 2021	MAU	Machinery space 260 m <sup>3</sup>