



Lloyd's
Register

Notified Body authorised by the MCA

USCG-EU MRA



Maritime &
Coastguard
Agency

EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that:

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), designated as a "notified body" under the terms of the Merchant Shipping (Marine Equipment) Regulations 2016 (S.I. 2016 No. 1025) did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Life-saving appliance requirements of Marine Equipment Directive (MED) 2014/90/EU and Commission Implementing Regulation (EU) 2017/306 indicating design, construction and performance requirements and testing standards for marine equipment, subject to any conditions in the Design Appraisal Document attached hereto.

Manufacturer (Applicant) VIKING Life-Saving Equipment A/S

Address Saedding Ringvej 13
6710 Esbjerg V
Denmark

Reference Regulation Item Regulation 2017/306
MED/1.27 MARINE EVACUATION SYSTEMS
(No & Item designation)
USCG Category Number 160.175 MARINE EVACUATION SYSTEMS

Product Type MARINE EVACUATION SYSTEMS

Product Description Vertical chute gravity deployed marine evacuation system with liferafts - Type: "Venoc Viking MES"

Specified Standard IMO Resolution MSC.81 (70), Part 1

The attached Design Appraisal Document (schedule) forms part of this certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

Date of issue 22 August 2017 Expiry date 21 August 2022

Certificate No. MED 1750156

Signed

Sheet No 1 of 4

Name

L. Thomas
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038

Note:

This certificate is issued under the authority of the MCA.

This certificate is not valid for equipment; the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify the notified body named on this certificate of any modification or changes to the equipment in order to obtain a valid Certificate.

USCG-EU MRA - This product has been assigned a U.S. Coast Guard Module B number: USCG Module B number: 160.175/EC0038 to note type approval to Module B only as it pertains to obtaining U. S. Coast Guard approval as allowed by the "Corrigendum to Council Decision 2004/425/EC of 21 April 2004 on the conclusion of an Agreement between the European Community and the United States of America on the mutual recognition of certificates of conformity for marine equipment."

Lloyd's Register Verification Limited (Reg. no. 4929226) is a limited company registered in England and Wales. Registered office: 71 Fenchurch Street, London, EC3M 4BS, UK. A subsidiary of Lloyd's Register Group Limited.

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



DESIGN APPRAISAL DOCUMENT

Date 22 August 2017	Quote this reference on all future communications SOUTSO/SFS/TA/LT/WP30230695
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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1750156

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

EXAMINED DOCUMENTATION

DRAWINGS

<u>Dwg No.</u>	<u>Rev No.</u>	<u>Date</u>	<u>Drawing Title</u>
C02-064	2	28.03.12	FREE FLOAT SCENARIO
C02-065	1	29.03.12	FREE FLOAT ARRANGEMENT AND HYDROSTATIC RELEASES.
C02-926	4	04.01.12	GENERAL ARRANGEMENT
E12-547	3	19.10.11	GENERAL ASSEMBLY
E12-554	1	01.01.12	CONTAINER ASSEMBLY
E12-562	2	20.12.10	BUOYANCY UNIT ASSEMBLY
E33-052	1	09.02.12	ARRANGEMENT FOR SPLIT TUBE AND STEERING LINE
E33-101	0	23.03.12	ARRANGEMENT FOR SPLIT TUBE AND STEERING LINE RIGHT SIDE

- CD TECHNICAL FILE; Ref.Venoc 99061 Revision No 2.
- Maintenance Instruction for the MES type VENOC Document No 00091325 Revision No 2 issued on 17.02.2012.
- Operation Instruction for the MES type VENOC Document No 00091355 Revision No 2 issued on 17.02.2012.
- Technical and functional description for the MES type VENOC Document No 00092112 Revision No 3 issued on 11.04.2012.

TEST REPORTS

Prototype tests performed for the MES type VENOC in accordance with Res.MSC.81(70) Part.1, Document No P03-006 Revision No 2 dated 28.03.2012 with reports listed thereon, witnessed by Lloyd's Register surveyors and by surveyors acceptable to Lloyd's Register.

Inflation Test Report 50 DKS VENOC, Doc. No 980040-N13-058, dated 08.05.2014 as witnessed by Lloyd's Register Surveyor.

CONDITIONS OF CERTIFICATION

1. This MES consists of one or two Viking 100DKS liferafts DNV certificate number MEDB00001JF valid until 24.10.2021 and one Viking 50DKS option liferaft DNV Certificate number MEDB00001JF valid until 24.10.2021. The liferafts do not form a part of this design appraisal but it is expected that the liferafts used in conjunction with the MES covered under this certificate is an approved type "Viking100 DKS liferafts" or "Viking 50DKS liferafts"



DESIGN APPRAISAL DOCUMENT

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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1750156

2. Following satisfactory testing in conjunction with liferafts of the types below, the marine evacuation system is certified for use on board appropriate ships, and passenger ships (to which the final flooding requirements of SOLAS II-1/8 apply:-

<u>Type</u>	<u>SOLAS Pack</u>	<u>Maximum Free Fall Drop Height</u>	<u>Carrying Capacity</u>	<u>Towing strain @ 2knots</u>	<u>Towing strain @ 3knots</u>
100 DKS	A	30 m	101 persons	1.1 kN	2.3 kN
100DKS	B	30 m	101 persons	1.1 kN	2.3 kN
50DKS	A	30 m	51 persons	1.2 kN	1.95 kN
50DKS	B	30 m	51 persons	1.2 kN	1.95 kN

3. When used with Lifejackets, they are to be of an approved type which ensures the lifejacket remains in place when used and they should be to the satisfaction of the attending Surveyor

4. Following satisfactory testing in conjunction with liferafts of the types above, the marine evacuation system is certified for use on board cargo ships for the following capacities:

<u>Capacity</u>	<u>Number of liferafts</u>
125	2

5. Following satisfactory testing in conjunction with liferafts of the types above, the marine evacuation system is certified for use on board passenger ships for the following capacities:

<u>Capacity</u>	<u>Number of liferafts</u>
202	2

6. Maximum Installation height of the system is 40.0 metres
7. The MES container is to be marked with the maker's name and trade mark, serial number, approving authority, capacity of the system, SOLAS, date of Manufacture, date when last serviced, maximum stowage height and stowage position
8. The MES is to be marked with the maker's name and trade mark, serial number, date of manufacture, approving authority, name and place of last servicing station and the capacity of the system
9. A full set of manuals and associated documents are to be provided on board for use on all operations involved in the inspections, maintenance and resetting of the MES and associated equipment
10. Inflatable components or sections of marine evacuation systems are to be serviced at intervals not exceeding twelve months by a person suitably qualified and authorised by the manufacturer
11. The production models are to be manufactured in accordance with an approved Production Quality Control Assurance system which ensures that the items are of the same standard as the approved prototype
12. The electrical and hydraulic components are not part of this design appraisal, but is expected that the suitability of these items are to be established by the attending surveyor on an installation-by-installation basis
13. Production tests are to be conducted in accordance with IMO Resolution MSC.81 (70), Part 2 and the results recorded by the manufacturer in accordance with an approved Production Quality Assurance System
14. **Installation on board:** The on board arrangements and installation of this MES system are not part of this design Appraisal or certificate. This approval does not apply to any aspect of installation of the system on board or the arrangements connected therewith which the Manufacturer shall ensure to be to the satisfaction of the rigs Administration and Classification Society. All such arrangements are to be to the satisfaction of the Surveyors attending on board
15. If the specified standards are amended during the validity of this certificate, this product type is to be re-approved prior to it being supplied to vessels to which the amended standards apply



Lloyd's
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Lloyd's Register Verification Limited

71 Fenchurch Street, London, EC3M 4BS
Telephone 020 7423 2416 Fax 020 7423 2053
Email med@lr.org

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Document number MED 1750156
Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 22 August 2017	Quote this reference on all future communications SOUTSO/SFS/TA/LT/WP30230695
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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1750156

16. Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D), or a Product Verification Process (Module F). The wheelmark cannot be affixed to the product until a conformity assessment module is in place
17. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81 (70), Part 2 and be recorded by the manufacturer in accordance with either the approved Production Quality Assurance system (Module D) or witnessed by the Notified Body (LRV) as required by the Product Verification (Module F) of the Marine Equipment Directive. This does not preclude any further testing to additional requirements of the Marine Administration of the country where the ship is registered (i.e. the flag state) or those acting on behalf of that Administration
18. This product has been assigned a **U.S. Coast Guard Module B number USCG Approval Category 160.175/EC0038** to note type approval to Module B only as it pertains to obtaining U. S. Coast Guard approval as allowed by the "Corrigendum to Council Decision 2004/425/EC of 21 April 2004 on the conclusion of an Agreement between the European Community and the United States of America on the mutual recognition of certificates of conformity for marine equipment"

In those instances where the Notified Body conducting the conformity assessment in accordance with either Module D, E or F of the Marine Equipment Directive is not Lloyd's Register Verification Ltd., such Notified Body would use the above U.S. Coast Guard Module B number to provide the manufacturer with the U.S. Coast Guard approval number by noting it on the Certificate of Conformity, thereby authorizing the manufacturer to mark the product accordingly

Note: For products placed on board U.S. flagged ships there is no declaration of conformity required to meet U.S. Coast Guard requirements
19. Each item, batch or lot of the equipment is to be issued with a "Declaration of Conformity" and have the "Mark of Conformity" affixed after a conformity assessment module is in place
20. Should a change of Place of Production from that stated below be required i.e. where the stages of manufacture/assembly/testing of this product take place, the new Place of Production is to be advised to us prior to the change taking place. This Certificate will require to be updated for Approval to be maintained

PLACE OF PRODUCTION

VIKING Life-Saving Equipment Norge AS
Idrettsvegen 110
NO-5353 Straume
Norway



Lijo Thomas
Senior Specialist
Statutory Fire & Safety
Southampton Technical Support Office, Marine & Offshore
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038

CERTIFICATE OF TYPE APPROVAL

This is to certify that

The product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer	VIKING Life-Saving Equipment AS
Address	Saedding Ringvej 13 6710 Esbjerg V Denmark
Product Type	MARINE EVACUATION SYSTEMS (MES)
Product Description	Vertical chute gravity deployed marine evacuation system with liferaft - Type "Venoc Viking MES"
Specified Standards	IMO Resolution MSC.81 (70), Part 1

The attached Design Appraisal Document forms part of this certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

Date of issue 22 August 2017

Expiry date 21 August 2022

Certificate No. SAS S170073

Signed 

Sheet No 1 of 5

Name L. Thomas
Surveyor to Lloyd's Register EMEA
A Member of the Lloyd's Register Group

Note:

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register of any modification or changes to the equipment in order to obtain a valid certificate.

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



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Lloyd's Register EMEA

71 Fenchurch Street, London, EC3M 4BS

Telephone 020 7423 2416 Fax 020 7423 2053

Email tass@lr.org

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Issue number

1

DESIGN APPRAISAL DOCUMENT

Date

22 August 2017

Quote this reference on all future communications

SOUTSO/SFS/TA/LT/WP30230695

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S170073

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

EXAMINED DOCUMENTATION

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<u>Dwg No.</u>	<u>Rev No.</u>	<u>Date</u>	<u>Drawing Title</u>
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S170073

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<u>Type</u>	<u>SOLAS Pack</u>	<u>Maximum Free Fall Drop Height</u>	<u>Carrying Capacity</u>	<u>Towing strain @ 2knots</u>	<u>Towing strain @ 3knots</u>
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50DKS	B	30 m	51 persons	1.2 kN	1.95 kN

- When used with Lifejackets, they are to be of an approved type which ensures the lifejacket remains in place when used and they should be to the satisfaction of the attending Surveyor

- Following satisfactory testing in conjunction with liferafts of the types above, the marine evacuation system is certified for use on board cargo ships for the following capacities:

<u>Capacity</u>	<u>Number of liferafts</u>
125	2

- Following satisfactory testing in conjunction with liferafts of the types above, the marine evacuation system is certified for use on board passenger ships for the following capacities:

<u>Capacity</u>	<u>Number of liferafts</u>
202	2

- Maximum Installation height of the system is 40.0 metres
- The MES container is to be marked with the maker's name and trade mark, serial number, approving authority, capacity of the system, SOLAS, date of Manufacture, date when last serviced, maximum stowage height and stowage position
- The MES is to be marked with the maker's name and trade mark, serial number, date of manufacture, approving authority, name and place of last servicing station and the capacity of the system
- A full set of manuals and associated documents are to be provided on board for use on all operations involved in the inspections, maintenance and resetting of the MES and associated equipment
- Inflatable components or sections of marine evacuation systems are to be serviced at intervals not exceeding twelve months by a person suitably qualified and authorised by the manufacturer
- The production models are to be manufactured in accordance with an approved Production Quality Control Assurance system which ensures that the items are of the same standard as the approved prototype
- The electrical and hydraulic components are not part of this design appraisal, but is expected that the suitability of these items are to be established by the attending surveyor on an installation-by-installation basis



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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S170073

13. Production tests are to be conducted in accordance with IMO Resolution MSC.81 (70), Part 2 and the results recorded by the manufacturer in accordance with an approved Production Quality Assurance system
14. **Installation on board:** The on board arrangements and installation of this MES system are not part of this design Appraisal or certificate. This approval does not apply to any aspect of installation of the system on board or the arrangements connected therewith which the Manufacturer shall ensure to be to the satisfaction of the rigs Administration and Classification Society. All such arrangements are to be to the satisfaction of the Surveyors attending on board
15. If the specified standards are amended during the validity of this certificate, this product type is to be re-approved prior to it being supplied to vessels to which the amended standards apply
16. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure compliance with SOLAS Regulation III/5
17. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81 (70), Part 2 and each item, batch, or lot be delivered with an LR Certificate of SOLAS Production Testing issued by the attending LR Surveyors following their witness of the tests. This does not preclude any further testing to additional requirements of the Marine Administration of the country where the vessel is registered (i.e. the flag state) or those acting on behalf of that Administration
18. Should a change of Place of Production from that stated below be required i.e. where the stages of manufacture/assembly/testing of this product take place, the new Place of Production is to be advised to us prior to the change taking place. This Certificate will require to be updated for Approval to be maintained



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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S170073

PLACE OF PRODUCTION

VIKING Life-Saving Equipment Norge AS
Idrettsvegen 110
NO-5353 Straume
Norway



Lijo Thomas
Senior Specialist
Statutory Fire & Safety
Southampton Technical Support Office, Marine & Offshore
Lloyd's Register EMEA

Supplementary Type Approval Terms and Conditions

This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s).