

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Marine evacuation systems

with type designation(s)
Viking Automatic Slide VAS 1.1

Issued to

Viking Life-Saving Equipment A/S
Esbjerg V, Denmark

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2015/559**,
Annex A.1, item No. A.1/1.27 and Annex B, Module B in the Directive; SOLAS 74 as amended,
Reg. III/4, III/15, III/26, III/34 & X/3, LSA Code and 2000 HSC Code 8.

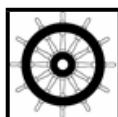
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-02-23**.

Issued at **Høvik** on **2017-02-24**

DNV GL local station:
Fredericia

Approval Engineer:
Tessa Biever



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body



Product description

The Viking Automatic Slide VAS 1.1 is an automatic deployed Marine Evacuation System with single inflatable slide, fitted with inflatable 150 pers. open life raft. The MES system can be delivered with length of slides 2.8 – 4.0 – 5.0 and 6.0 m.

The max stowage height 3.65 m and the max weight of system with HSC pack is 750 kg

Material:

Slide camber materials: Conti-tech NK205/2 and Phoenix Art. 029

Stowage box materials Aluminium

Application/Limitation

- The system is approved for evacuation heights of 1.5 – 3.65 metres (6.0 m slide)
- The associated liferafts shall have separate EC Approval and be wheelmarked.
- Gas cylinders shall be of an approved type
- Components in the gas inflation system for inflatable parts of the MES system (i.e. platform and slides) shall be approved according to ISO 15738:2002 or an equivalent standard
- The arrangement of the MES onboard any vessel, including the passageway and embarkation areas, are subject to approval by the administration to ensure that the flow rate as stated above can be maintained throughout the total evacuation of the number of persons for which the MES is certified for.
- It shall be verified that the ship on which the MES is installed is equipped with a sufficient number of rescue boats to satisfactory marshal and support the bowing and tow away, as applicable, of all the associated life rafts within the times allowed for embarkation as per SOLAS Ch.III/Reg.21.1.3 and 31.1.5.

Installation tests to be carried out in accordance with IMO Res. MSC.81(70), part 2, item 7.

The following is to be submitted to the flag administration in each case, either by the yard, owner or equipment manufacturer:

Plan showing the MES system fully deployed on the specific vessel in side-view and cross-sectional view under required unfavourable conditions of trim and list as the type approval does not cover the requirements to installation covered by LSA Code Ch. 6.2.2.1.5 and SOLAS Ch. III. Details shall be shown.

Max evacuation capacity*:

153 persons in 17 min. 40 sec. according to the HSC code including cut free of liferafts.

*The max capacity is based on previous capacity test reports accomplished for Viking VEMS Evacuation system, according to Resolution MSC.81(70) paragraph 12.5.5 / 12.6.1 issued 2002-05-31, with evacuation of 303 persons in 17 min. and 59 seconds.

Type Examination documentation

The following documentation is basis for the DNV GL approval:

- Application form dd. 2011-09-22
- Technical files and drawings for the slides mentioned on MED-B- 6375
- Technical files and drawings for the 150DKR liferaft mentioned on MED-B-6369
- Drawings stamped 2012-01-16 listed in DNV approval letter
- DNV Surveyors checklist dated January 2012
- Test reports witness by DNV surveyor:
 - Nr. 1669 (Static load test of slidebox) 2011-08-05
 - Nr. 1678 (Trim and list test) 2011-08-05
 - Nr. 1662 (Deployment test) 2011-08-12
 - Nr. 1664 (Ice test) 2011-08-17
 - No. 1980 (Float Free test) 2011-09-15
 - No. 1981 (Heavy weather sea trail) 2011-10-30



Job Id:
Certificate No: **MEDB000024G**

Tests carried out

Test documentation in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC 81(70), part 1 as given by the Technical Documentation specified above.

Marking of product

The product is to be indelibly marked with name and address of the manufacturer, type designation, dimensions and date of manufacture. The marking shall be according to IMO Res. MSC 48(66) /LSA Code, item 6.2.4 and 6.2.5.