DNV·GL

Certificate No:
MEDB00000ET

EC-TYPE EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2014/93/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. 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 Evacuation Mini Chute (VEMC), 1.3, 1.4, 1.5, 1.6, 1.7 (navy), 1.8, 1.9, 1.14, 1.15, 1.17 (navy)

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

is found to comply with the requirements in the following Regulations/Standards:
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.

Høvik, 2015-12-18
for **DNV GL AS**

This Certificate is valid until
2018-05-02

Notified Body No.: **0575**

Vidar Dolonen
Head of Department

DNV GL local office:
Fredericia

Tessa Biever
Surveyor

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Product description

Viking Evacuation Mini Chute (VEMC) is a Marine Evacuation System (MES) with a single vertical chute where evacuation takes place directly into a VIKING 100 DKS and 150 DKS liferaft. The following variants are available:

Variants	VIKING 100 DKS liferaft		VIKING 150 DKS liferaft		Max. Evacuation capacity (Persons/30 min)	Installation height (m)
	A-pack	B-pack	A-pack	B-pack		
1.5		•			356	5.0 – 20.2 meter
1.6	•				356	5.0 – 20.2 meter
1.7 (navy)	•				356	5.0 – 15 meter
1.8	•				582	5.0 – 20.2 meter
1.9	•				582	5.0 – 20.2 meter
1.14			•		582	5.0 – 18 meter
1.15			•		582	5.0 – 20.2 meter
1.17 (navy)	•				582	5.0 – 15 meter

For further details and material specification see document "VEMC Type Variants" listed under the examination documentation.

The VEMC has been tested according to IMO Res. MSC 81(70) item 12.6.1 and 12.6.2 with VIKING 150 DKS associated drop-down liferaft. DNV GL accepts other associated smaller drop-down liferafts for VEMC provided that the line attachment arrangement is the same as arranged for Viking 100 DKS liferaft.

Applications/Limitations

- The associated drop-down liferafts shall have separate MED Approval and be wheelmarked.
- Accepted with 150 DKS and smaller associated drop-down liferafts provided that the line attachment arrangement is the same as for 100 DKS (see above).

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

Evacuation time VEMC 1.3-1.7 Navy

(200 seconds includes launching, inflation preparation of system and cut free of liferaft)

$$\frac{\text{specified evacuation time - 200 seconds}}{\text{4.5 seconds/person}}$$

(1800-200)/4.5 = 356 persons

Evacuation time VEMC 1.8-1.17 Navy

(119 seconds includes launching, inflation preparation of system and cut free of liferaft)

$$\frac{\text{specified evacuation time – 119 seconds}}{\text{2.88 seconds/person}}$$

(1800-119)/2.88 = 582 persons

Type Examination documentation

This certificate replaces MED-B-8329.

Tests carried out

Documentation of tests in accordance with Recommendation on Testing of Lifesaving Appliances, IMO Resolution MSC.81(70), part 1, included in volume A of technical documentation specified above.

Marking of product

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a of Certificate Conformity

USCG Approval

An U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of certificates of conformity for marine equipment" signed 17 October 2005.