DNV·GL

Certificate No:
MEDB0000006

EC-TYPE EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2013/52/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 Open reversible liferaft

with type designation(s)
Viking 12 DKR+ ; 25 DKR+ ; 50 DKR+ ; 100 DKR+ ; 150 DKR+

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.1/1.39 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation III/4 & X/3, LSA Code and 2000 HSC Code 8

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

Høvik, 2015-06-16
for **DNV GL AS**

This Certificate is valid until
2020-04-28

Notified Body No.: **0575**

Petter Langnes
Head of Department

DNV GL local office:
Fredericia

Tessa Biever
Surveyor

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Job Id: **344.1-003284-8**
Certificate No: **MEDB0000006**

Product description

DKR+ Open Reversible Inflatable Liferaft with capacity as mentioned below under application /limitation.

These liferafs designs are complying with the LSA Code as amended, including MSC 293 (87).

Application/Limitation

Items	**12 DKR+ 12 DKR+ S30**	**25 DKR+ 25 DKR+ S30**	**50 DKR+ 50 DKR+ S30**	**100 DKR+ 100 DKR+ S30**	**150 DKR+ 150 DKR+ S30**
Item identification no	1049793	1049800	1049789	1008803	1017903
Max.inst. height	18 metres	18 metres	18 metres	18 metres	18 metres
Emergency pack type	HSC	HSC	HSC	HSC	HSC
Capacity	12 persons	25 Persons	51 Persons	101 persons	153 persons
Containers	016-9041 016-50xx	016-9042 016-61xx	016-52xx 016-9045	016-57xx	016-88xx
Req. towing force - 2 knots - 3 knots	 0,58 kN 1.56 kN	 0,73 kN 1,66 kN	 0,85 Kn 2,3 kN	 1,4 kN 3,1 kN	 3,45 kN 5,6 kN

S30: Liferaft environmentally packed to allow for extended service intervals up to 30 months. The raft is subject to an annual onboard inspection

- The inflation system is in compliance with MSC 218(82).
- The liferafts are in compliance with MSC.1/Circ.1328 "Guidelines for the approval of inflatable liferafts subject to extended service intervals not exceeding 30 months".
- The liferaft is intended to be installed with external weak link and a hydrostatic release unit. Float free arrangement to be checked upon installation on board.
- Production testing shall be carried out according to IMO Res. MSC.81(70), part 2.
- The liferafts shall be equipped with an HSC PACK

Type Examination documentation

12 DKR+ 12 DKR+ S30	

25 DKR+ 25 DKR+ S30	
50 DKR+ 50 DKR+ S30	
100 DKR+ 100 DKR+ S30	
150 DKR+ 150 DKR+ S30	

Tests carried out

In addition to above the following tests are performed:

- Prototype tests in accordance with relevant parts of the Recommendation on Testing of Lifesaving Appliances, IMO Res. MSC.81(70), Part 1, as specified in above mentioned

documentation. The testing has been carried out in accordance with IMO Res. MSC 97(73), annex 11 item 7, MSC 295(87) and MSC.323(89) , have been witnessed and evaluated and found to be in compliance.

- Tests and reports in accordance with new test requirements listed in MSC.1/Circ 1328 item 5.4.2 -5.4.10 for raft types12, 25, 50, 200 & 150 DKR+ S30 have been witnessed by DNV surveyor and evaluated and found to be in compliance (test report item 5.4.4 dd. 2009-09-01, item 5.4.6 dd. 2009-10-29, item 5.4.7 dd. 2009-10-28, item 5.4.8- 5.4.10 dd. 2009-11-02/2009-11-04).
- Tested according to the MarED recommendation for liferaft occupancy weight increase from 75 kg to 82.5 kg: 1228,1534, 1544, 1581,1582, 1592,1593,1597,1599, 1600,1620,1638, 1640, 1642,1696,1697,1698, 1701,1702,1703,1720, 1721 1724,1725, 1726, 1727.

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 E 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 E: The quality system for inspection 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.