DNV·GL

Certificate No:
MEDB00001JD

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 Automatically self-righting liferafts

with type designation(s)
25 DKFS, 25 DKFS+, 35 DKFS, 37 DKFS, 39 DKFS, 25 DKFS S30, 25 DKFS+ S30, 35 DKFS S30, 37 DKFS S30, 39 DKFS S30, 25 DKFS E, 35 DKFS E, 37 DKFS E, 39 DKFS E

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.1/1.14 and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation III/4, III/26, III/34 & X/3, LSA Code, IMO MSC/Circ.809 & 811 and 2000 HSC Code 8

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

This Certificate is valid until **2021-10-24**.

Issued at **Høvik** on **2016-10-25**

DNV GL local station:
Fredericia

Approval Engineer:
Tessa Biever

Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

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Product description

Automatic self-righting davit launched inflatable liferaft with the following type designations:

- 25 DKFS, 25 DKFS+, 35 DKFS, 37 DKFS, 39 DKFS
- 25 DKFS S30, 25 DKFS+ S30, 35 DKFS S30, 37 DKFS S30, 39 DKFS S30
- 25 DKFS E, 35 DKFS E, 37 DKFS E, 39 DKFS E

All these liferafts designs are complying with the LSA Code as amended, including MSC. 293(87). Liferaft designs with type designation including S30 comply also with MSC.1/Circ. 1328 (extended service intervals).

Application/Limitation

The liferafts are available with features added on to the existing type approved base raft.
S30: added to type designation e.g. 25DKFS S30. Liferaft tested according to MSC.1/Circ. 1328 and packed in a sealed packing bag to allow for extended service intervals up to 30 months. The raft is subject to an annual onboard inspection.
E: added to type designation e.g. 25DKFS E. Environmental packed liferaft prepared for extended service intervals.

Notes to below form Capacity and installation heights: Container type designation is given as 16-xxxx, and emergency packs SOLAS A or B is given as "A" and "B". Listed liferaft types covers types S30 and E variants. Each size listed covers variations with the same capacity.

Liferaft type	Towing strain 2 knots	Towing strain 3 knots	25 m	36 m	60 m	Capacity
25 DKFS, 25 DKFS+ 25 DFKS S30 25 DFKS E	0.7 kN	1.4 kN		A 8200 B 8500 B 0113 B 0140	A 8200	25 persons
35 DFKS 35 DFKS S30 35 DKFS E	1.05 kN	2.45 kN	B 8200	A 8400	-	35 persons
37 DFKS 37 DFKS S30 37 DKFS E	1.05 kN	2.45 kN	B 8200	A 8400	-	37 persons
39 DFKS 39 DFKS S30 39 DKFS E	1.05 kN	2.45 kN	B 8200	A 8400	-	39 persons

- The liferaft shall be packed with a SOLAS A PACK or SOLAS B PACK.
- Gas cylinders shall be of an approved type
- Components in the gas inflation system should be approved according to ISO 15738:2002
- 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 may be approved for extended service intervals up to 30 months in accordance with SOLAS Ch. III, Regulation 20.8.3 on the condition that:

1. Such extended service intervals has been approved by the ships flag administration.
2. The liferafts are checked onboard in accordance with SOLAS Ch. III Regulation 20.8.3.2 at intervals in accordance with SOLAS Ch. III Regulation 20.8.1.1, according to procedures issued by the manufacturer.
3. The liferafts shall be serviced at approved servicing stations in accordance with the recommendations in IMO Res. A.761(18) at intervals not exceeding 30 months.

Type approval documentation

This certificate replaces MED-B-9988.

- Drawings and partslist as lised below:

Liferaft type	Parts list No.	Drawing no.
25 DKFS+, 25 DFKS S30, 25 DFKS E	43002434.000	43002434.001/002/003
25 DKFS	43002446.000	43002446.001/002
35 DFKS, 35 DFKS S30, 35 DKFS E	43002411.000	43002411.001/002/003
37 DFKS, 37 DFKS S30, 37 DKFS E	43002411.000	43002411.001/002/003
39 DFKS, 39 DFKS S30, 39 DKFS E	43002411.000	43002411.001/002/003

Tests carried out

- Prototype tests and test reports in accordance with the Recommendation on Testing of Life-Saving Appliances, IMO Res. MSC 81(70) part 1, including IMO Res. MSC 226(82), MSC 295(87) and MSC.323(89), have been witnessed and evaluated and found to be in compliance.

- Tests and reports in accordance with test requirements listed in MSC.1/Circ 1328 item 5.4.2 -5.4.10 have been witnessed by DNV surveyor and evaluated and found to be in compliance (testreport 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: 1027-1029, 1228, 1395, 1451, 1497, 1509, 1534, 1544, 1554, 1581-1587, 1589, 1591-1593, 1595-1603, 1605-1617, 1620, 1622, 1627-1642, 1655-1657 and 1683-1685

- Test reports supporting the following design changes:

Design change no.	date	Subject	Test reports
10315	2013-03-21	Change to Daniamant RL6 combi light	1881~1889
10316	2013-04-08	Plastic strapping around container, replacing bursting bands	1887, 1888, 1901~1904
10322	2013-09-12	Alternative shackle for lifting arrangement	- Strength report no. LX90433 dated 2009-11-02 from Shanghai Jinyi Materials test technology Co., Ltd, China - Salt spray test dated 2012-04-30 from Danish technological Institute (DTI), Denmark
10326	2014-03-24	New canopy material (Rivertex 4000 PES PU coated)	- 1899, 1912, 1803, 1993, 1870, 2015 - Material Technical Report 1809 A dated 2012-10-25 from SATRA Technology Centre, UK
10345	2014-12-01	Replacing painterline for lifrafts > 25 persons	2168

Design change no.	date	Subject	Test reports
10358	2016-01-22	Boarding ramp change/Inflatable floor change / inner and outer life lines	1532, 2226, 2227
10368	2015-11-09	39 DKFS for 35 and 37 persons	-
10385	2016-05-17	Change of installation height (max. 60 m for 25 DKS and 25 DKFS)	2413, 2414, 2415

Marking of product

The product is to be indelibly marked with name and address of manufacturer, type designation and date of manufacture. The marking shall comply with the LSA Code (IMO Res. MSC 48(66) item 4.2.6 and 4.2.7