TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MERB00004XC
Revision No:
0

This Certificate is issued by DNV UK Limited based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016 as amended.

This is to certify:

That the Means of rescue

with type designation(s)
12 MOR , 12 MOR S30

Issued to
VIKING LIFE-SAVING EQUIPMENT A/S
Esbjerg V, **Denmark**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **MSN 1874 Amendment 9,**
item No. UK/1.28. SOLAS 74 as amended, Reg. III/4, III/26 & III/34, LSA Code and IMO MSC/Circ.810

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

This Certificate is valid until **2029-10-17**.

Issued at **London** on **2024-11-05**

for **DNV UK Ltd.**

DNV local unit:
Denmark CMC

Approval Engineer:
Tessa Biever

Approved Body No.: **0097**

Mydlak-Röder, Christine
MER Service Responsible

Maritime & Coastguard Agency
UK Approved Body Authorised by the MCA

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.
During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved Body.
"The Mark of Conformity" may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body. In case limitations of use apply, these should be indicated in the Annex.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

'12 MOR and 12 MOR S30'
Means of Rescue constructed as a modified inflatable davit launched liferaft for transfer of persons from water level to the deck of a ship.

For the MOR with S30: The MOR is packed in a sealed packing bag to allow for extended service intervals up to 30 months.

Applications/Limitations

Number of person @ 82.5 kg lying down, max:	12
Number of persons @ 82.5 kg sitting down, max:	22
Maximum load (persons @ 82.5 kg):	1875

The Means of Rescue shall at all-time be attached, or ready for immediate attachment, to a dedicated launching appliance meeting the requirements of the LSA Code, item 6.1., capable of lifting the MOR with full mass of persons at 0.3 m/s from the water to the deck of the ship.

The Means of Rescue shall be packed in a container constructed according to the approval documentation below.

Gas cylinders and components in the pressure gas systems shall be of an approved type.

The design assessment is based on International Life-Saving Appliances (LSA) Code, IMO Res. MSC 48(66) as amended by IMO Res. MSC.218(82), IMO Res. MSC.293(87) and IMO MSC. /Circ.810.

The MOR is approved according to MSC.1/Circ. 1328 and packed in a sealed packing bag to allow for extended service intervals up to 30 months. The MOR is subject to an annual onboard inspection.

Production testing shall be carried out according to requirements for davit-launched inflatable liferafts in IMO Res. MSC.81(70), part 2.

The MOR is 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 MOR is 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 MOR 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 Examination documentation

Drawings	**Date**
Parts list No. 1025-003.2, "Viking Means of Rescue" and referred drawings/	1999-11-19
Parts list No. 43000459.000 "Viking Means of Rescue" and drawings: 43000459.001, 43000459.002	2014-03-19
Reports	**Date**
Technical Description of Viking Means of Rescue for 12 Persons	1999-06-28
Prototype test reports of various dates referred to in the conformity assessment report.	1999-08-01
Viking Conformity Assessment Report, type 12 MOR	1999-08-01
Design changes	**Date**
Design change 10339 – Plastic strapping around container - and supporting test reports: - 1887, 1888, 1901, 1902, 1903, 1904	2014-04-01

- Design change 10420 – Buoyancy Fabric NK300C from Conti Tech and supporting test reports: - 2595, 2596, 2667, 2733, 2734, 2673, 2674, 2688, 2682, 2683, 2767, 2768, 2675, 2676, 2677, 2678, 2668, 2669, 2686, 2687, 2692, 2685, 2693, 2684, 2752, 2689, 2690, 2691 Additional buoyancy material (NK300C) supported by the following test reports: Prototype test in accordance with IMO Res. MSC.81(70), Part 1: - weft distortion dated 2017-12-18, - Test report no. 2747: Coating Adhesion dated 2018-04-13 - Test report no. 2749: Oil resistance dated 2018-04-13 - Test report no. 2750: Blocking resistance 2018-04-13 Laboratory test report no 1530100000 rev. 13 dated 2018-03-05 for NK300C by Contitech Laboratory Northeim, Germany witnessed by DNVGL surveyor DNV GL verification statement N141GV0D dated 2018-03-15	2018-05-18
Design change 10422 – Alternative signal lamp and supporting test reports: - 2456, 2458, 2464, 2466	2018-05-25
Design change 10434 – Alternative hardener 'Desmodur RFE' and supporting test reports: - 2834, 2828, 2829, 2830, 2831, 2833	2018-10-08
Design change 10437 – Alternative harderner 'Beyond' and supporting test reports: - 2905, 2914, 2915 (3x over pressure test) - 2880, 2881, 2882, 2883, 2884, 2885 (seam strength tests) - 2920 (strength test – davit launched liferaft)	2018-12-10
Design change 10438 - Alternative hardener 'TM-93' and supporting test reports: - 2868, 2869, 2870, 2871, 2872, 2873, 2876, 2877, 2878, 2988, 2989, 2990, 3017, 3019	2019-04-23
Design change 10451 - Paintersystem with alternative hardener 'TM-93' and 'Beyond' and supporting test reports: - 3085, 3086	2019-04-23
Design change 10369-1 – 12MOR packed as S30 – and supporting testreports: - RD-00043-DI-001~016 - RD-00043-P-001~016 - RD-00043-D-001~008 - RD-00043-C-001~008 - RD-00043-FS-001~002	2019-09-30
Design change 10536 – Rubber Fabric NK205/2 – New Gen – and supporting test reports: - 4750, 4751, 4752, 4755, 4756, 4757, 4687, 4689, 4764, 4766, 4768, 4770, 4696, 4698, 4711, 4712, 4713, 4714, 4699, 4700, 4701, 4715, 4716, 4717, 4718, 4703, 4704, 4705, 4706, 4707, 4708, 4709, 4710	2024-05-24

Tests carried out

Prototype tests in accordance with the Recommendation on Testing of Lifesaving Appliances, IMO Res. MSC.81(70), Part 1, and IMO MSC. /Circ.810, as specified in above-mentioned documentation 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. See for test reports under design change DC10369-1.

Marking of product

The product is to be indelibly marked with name and address of manufacturer, type designation, dimensions, date of manufacture and the UK Mark of Conformity (see first page). The marking shall comply with IMO MSC/Circ.810, items 2.4.2.4 and 2.4.2.9 and the LSA Code Ch. 4.2.7.