

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB0000006
Revision No:
10

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 AS under the authority of the Government of Norway.

This is to certify:

That the Open reversible liferaft

with type designation(s)

12 DKR+, 12 DKR+S30, 12 DKR+ E, 25DKR+, 25 DKR+S30, 25 DKR+ E, 50 DKR+, 50 DKR+S30, 50 DKR+ E, 65 DKR+, 65 DKR+S30, 65 DKR+E, 100 DKR+, 100 DKR+S30, 100 DKR+ E, 150 DKR+, 150 DKR+S30, 150 DKR+ E, 150 DKR+ VEMC 1.16, 150 DKR+ VEMC 1.16T

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) 2022/1157,

item No. MED/1.39. SOLAS 74 as amended, Regulation III/4 & X/3, LSA Code and 2000 HSC Code 8, IMO MSC.1/Circ.1328.

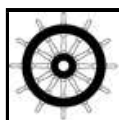
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-03-09**.

Issued at **Høvik** on **2023-10-09**

DNV local unit:
Denmark CMC

Approval Engineer:
Tessa Bieber



Notified Body
No.: **0575**



for **DNV AS**

Digitally Signed By:
Kristin Grønnæss Hovden
Location: DNV Høvik, Norway
on behalf of

Sverre Olav Bergli
Head of Notified 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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

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 DKR+, 12 DKR+S30, 12 DKR+ E, 25DKR+, 25 DKR+S30, 25 DKR+ E, 50 DKR+, 50 DKR+S30, 50 DKR+ E, 65 DKR+, 65 DKR+S30, 65 DKR+E, 100 DKR+, 100 DKR+S30, 100 DKR+ E, 150 DKR+, 150 DKR+S30, 150 DKR+ E DKR+, 150 DKR+ VEMC 1.16, 150 DKR VEMC 1.16T”

Are open reversible Inflatable Liferaft with capacity as mentioned below under application /limitation.

Liferaft designs with type designation including S30 comply also with MSC.1/Circ. 1328 (extended service intervals).

Application/Limitation

| Items | 12 DKR+ 12 DKR+ S30 12 DKR+ E | 25 DKR+ 25 DKR+ S30 25 DKR+ E | 50 DKR+ 50 DKR+ S30 50 DKR+E | 65 DKR+ 65 DKR+ S30 65 DKR+E | 100 DKR+ 100 DKR+ S30 100 DKR+ E | 150 DKR+ 150 DKR+ S30 150 DKR+ E | 150 DKR+ VEMC 1.16 /1.16T |
|--|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|--|--|---------------------------------|
| Item identification No. | 1049793 | 1049800 | 1049789 1070444 | 1070443 | 1070445 1008803 | 1017903 1070446 | 1070532 |
| Max. inst. height | 18 metres | 18 metres | 18 metres | 18 metres | 18 metres | 18 metres | 18 metres |
| Emergency pack type | HSC | HSC | HSC | HSC | HSC | HSC | HSC |
| Capacity | 12 persons | 25 persons | 51 persons | 65 persons | 101 persons | 153 persons | 153 persons |
| Containers | 016-9041 016-50xx | 016-9042 016-61xx | 016-52xx 016-9045 016-60xx | 016-52xx | 016-57xx 016-54xx | 016-88xx 016-57xx | 016-88xx |
| Req. towing force: 2 knots 3 knots | 0,58 kN 1,56 kN | 0,73 kN 1,66 kN | 1,47 kN 2,64 kN | 2,06 kN 3,3 kN | 1,96 kN 3,92 kN | 2,58 kN 4,8 kN | 3,45 kN 5,6 kN |
| Weight of liferaft ±2% [kg] | 62 (HSC-pack) | 99 (HSC-pack) | 155 (HSC-pack) | 182 (HSC-pack) | 300 (HSC-pack) | 426 (HSC-pack) | 426 (HSC-pack) |

S30: Liferaft environmentally packed 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., 50 DKR+E. Environmental packed liferaft prepared for extended service intervals.

VEMC 1.16: added to the type designation e.g. 150 DKR+ VEMC 1.16 (Viking Evacuation Mini Chute (VEMC), variant 1.16)

VEMC 1.16T: added to the type designation e.g. 150 DKR+ VEMC 1.16T (Viking Evacuation Mini Chute (VEMC), variant 1.16T)

The liferafts shall be equipped with HSC emergency pack.

Gas cylinders shall be of an approved type.

Components in the gas inflation system should be approved according to ISO 15738:2019.

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.

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) and IMO Res. MSC.293(87).

Production testing shall be carried out according to IMO Res. MSC.81(70) part 2.

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”.

With ref to ‘Test carried out’ the liferafts including type designation S30 are approved for extended service intervals up to 30 months in accordance with SOLAS Ch. III, Regulation 20.8.3 on the condition that:

- Such extended service intervals have been approved by the ships Flag administration.
- The liferaft 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.
- The liferaft 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

This certificate replaces MEDB0000006 Rev.9.

See Appendix 1 for Type Examination documentation.

Tests carried out

- 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 types 12, 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, 2002, 2660, 2661

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.
- 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.

Marking

The product is to be indelibly marked with name and address of manufacturer, type designation, dimensions, date of manufacture and the MED Mark of Conformity (see first page). The marking shall be according to HSC Code (IMO Res. MSC 36(63) and MSC 97(73)), Ch. 4 and 5.

Appendix 1 -Type Examination documentation

| 12 DKR+ 12 DKR+ S30 12 DKR+ E | |
|---|------------------------------|
| Drawings | Date |
| Parts list no. 1012-1322.4, "Viking 12 DKR+ HSC" and referred drawings. | 2000-05-17 |
| Liferaft Part no. 1049793, "Viking 12 DKR+ HSC" and referred drawings | 2014-11-14 |
| Reports | Date |
| Viking Conformity Assessment Report type 12 DKR+ and prototype test reports of various dates attached to the assessment report. | 2002-04-11 |
| Prototype tests, witnessed by DNV surveyor | 2006-06-01 and 2006-06-23 |
| MCA certificate of inspection and tests | 2000-06-29 |
| Evaluation and test report No. 1355, "Ambient Temperature Inflation Test" | 2009-03-17 |
| Drop test No. 1398 witnessed by DNV surveyor | 2010-01-14 |
| Inflation Test No. 1385 & 1390 witnessed by DNV surveyor | 2010-01-11 and 2010-01-12 |
| Overpressure Test No. 1409 witnessed by DNV surveyor | 2010-01-15 |
| Seam Strength Test No. 1413 witnessed by DNV surveyor | 2010-01-12 |
| Abrasion Lowering Test No. 1394 witnessed by DNV surveyor | 2010-01-13 |
| Jump test No. 1405 witnessed by DNV surveyor | 2010-01-14 |
| Liferaft Painter System Test No. 1406 witnessed by DNV surveyor | 2010-01-14 |
| Impact Test No. 1393 witnessed by DNV surveyor | 2010-01-13 |
| Strength Test No. 1395 witnessed by DNV surveyor | 2010-01-13 |
| Strength Test of Lifting Components No. 1396 witnessed by DNV surveyor | 2010-01-13 |
| Design changes and supporting documentation | Date |
| Design change 10297 dated and related test reports | 2012-11-09 |
| Design change 10315 and related test reports | 2013-04-02 |
| Design change 10344 and related test reports | 2014-11-24 |
| Design change 10339 and related test reports | 2014-01-04 |
| Design change 10346 and related test reports | 2015-09-02 |
| Design change 10411 and related test reports | 2017-09-27 |
| Design change 10420 and related test reports | 2018-05-18 |
| Design change 10434 (Alternative hardener Desmodur RFE) and related test reports: 2834, 2828, 2829, 2830, 2831, 2833 | 2018-10-08 |
| Design change 10437 (Alternative hardener 'Beyond') and related test reports: 2905, 2914, 2915, 2880, 2881, 2882, 2883, 2884, 2885 | 2018-12-10 |
| Design change 10438 (Alternative hardener 'TM-93') and related 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 related test reports: 3085, 3086 | 2019-04-23 |
| Design change 10458 (adding 'E' to type designation) | 2020-02-19 |
| Design change 10512 (Black rubber fabric RBND6 BCR) and related test reports: 4035, 4036, 4058, 4059, 4060, 4061, 4062, 4063, 4065, 4066, 4075, 4076, 4079, 4080, 4081, 4082, 4085, 4086, 4087, 4096, 4097, 4098, 4101, 4102, 4103, 4104 – witnessed by DNV and test report TX772622/2022/PL dated 29 September 2022 from SGS, Taoyuan City, Taiwan. | 2022-11-11 |
| Design change 10516a (Extended inner tube, long – 6-65 persons) and related test reports: 4059, 4087, 4066, 4101, 4081,4419, 4420, 4421, 4422 – witnessed by DNV | 2023-06-12 |
| Drawing No. ENG-20118151 Rev.2 | |
| 25 DKR+ 25 DKR+ S30 25 DKR+ E | |
| Drawings | Date |
| Parts list no. 1025-1322.2, "Viking 25 DKR+/EU HSC" and referred dwg. | 2002-05-01 |
| Liferaft Part no. 1049800, "Viking 25 DKR+/EU HSC" and referred dwg. | 2014-11-14 |
| Reports | Date |
| Viking Conformity Assessment Report type 25 DKR+ and prototype test reports of various dates attached to the assessment report. | 2002-05-22 |

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|---|------------------------------|
| Prototype tests witnessed by DNV surveyor | 2006-06-01/23 |
| Evaluation and test report No. 1355, "Ambient Temperature Inflation Test" | 2008-12-16. |
| Drop test No. 1398 witnessed by DNV surveyor. | 2010-01-14 |
| Inflation Test No. 1387 & 1392 witnessed by DNV surveyor. | 2010-01-11 and 2010-01-12 |
| Overpressure Test No. 1409 witnessed by DNV surveyor. | 2010-01-15 |
| Seam Strength Test No. 1413 witnessed by DNV surveyor. | 2010-01-12 |
| Abrasion Lowering Test No. 1394 witnessed by DNV surveyor. | 2010-01-13 |
| Jump test No. 1405 witnessed by DNV surveyor. | 2010-01-14 |
| Liferaft Painter System Test No. 1406 witnessed by DNV surveyor. | 2010-01-14 |
| Impact Test No. 1393 witnessed by DNV surveyor. | 2010-01-13 |
| Strength Test No. 1395 witnessed by DNV surveyor. | 2010-01-13 |
| Strength Test of Lifting Components No. 1396 witnessed by DNV surveyor. | 2010-01-13 |
| Design changes and supporting documentation | Date |
| Design change 10297 and related test reports | 2012-11-09 |
| Design change 10315 and related test reports | 2013-04-02 |
| Design change 10344 and related test reports | 2014-11-24 |
| Design change 10345 and related test reports | 2014-12-01 |
| Design change 10339 and related test reports | 2014-01-04 |
| Design change 10346 and related test reports | 2015-09-02 |
| Design change 10411 and related test reports | 2017-09-27 |
| Design change 10420 and related test reports | 2018-05-18 |
| Design change 10434 (Alternative hardener Desmodur RFE) and related test reports: 3x over pressure test (2834) and seam strength tests (2828, 2829, 2830, 2831, 2833) | 2018-10-08 |
| Design change 10437 (Alternative hardener 'Beyond') and related test reports: 3x over pressure test (2905, 2914, 2915) and seam strength tests (2880, 2881, 2882, 2883, 2884, 2885) | 2018-12-10 |
| Design change 10438 (Alternative hardener 'TM-93') and related 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 related test reports (3085, 3086) | 2019-04-23 |
| Design change 10458 (adding 'E' to type designation) | 2020-02-19 |
| Design change 10512 (Black rubber fabric RBND6 BCR) and related test reports: (4035, 4036, 4058, 4059, 4060, 4061, 4062, 4063, 4065, 4066, 4075, 4076, 4079, 4080, 4081, 4082, 4085, 4086, 4087, 4096, 4097, 4098, 4101, 4102, 4103, 4104 – witnessed by DNV) and test report TX772622/2022/PL dated 29 September 2022 from SGS, Taoyuan City, Taiwan. | 2022-11-11 |
| Design change 10516a (Extended inner tube, long – 6-65 persons) and related test reports: 4059, 4087, 4066, 4101, 4081, 4419, 4420, 4421, 4422 – witnessed by DNV | 2023-06-12 |
| Drawing No. ENG-20118151 Rev.2 | |
| 50 DKR+ 50 DKR+ S30 50 DKR+E | |
| Drawings | Date |
| Parts list no. 1050-13220.5, "Viking 50 DKR+/ EU HSC" and referred dwg. | 2000-06-16 |
| Drawings 43002542.001.00 and 43002542.002.00 | 2018-01-24 |
| Liferaft Part no. 1049789, "Viking 50 DKR+/ EU HSC" and referred dwg. | 2014-03-25 |
| Reports | Date |
| Viking Conformity Assessment Report type 50 DKR+ Prototype test reports of various dates attached to the assessment report. | 2002-04-11 |
| MCA certificate of inspection and tests | 2000-06-29 |
| Prototype tests witnessed by DNV surveyor | 2006-06-01/23 |
| Evaluation and test report No. 1355, "Ambient Temperature Inflation Test" witnessed by DNV surveyor | 2009-02-02 |
| Design changes and supporting documentation | Date |
| Design change 10344 and related test reports | 2014-11-24 |
| Design change 10295 and related test reports | 2012-11-09 |
| Design change 10345 and related test reports | 2014-12-01 |
| Design change 10314 and related test reports | 2013-06-19 |
| Design change 10315 and related test reports | 2013-04-02 |
| Design change 10346 and related test reports | 2015-09-02 |
| Design change 10367 and related test reports | 2015-11-06 |
| Design change 10378 and related test reports | 2016-02-27 |

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| Design change 10411 and related test reports | 2017-09-27 |
| Design change 10413 and related test reports | 2017-11-21 |
| Design change 10418 and related test reports | 2018-03-14 |
| Design change 10420 and related test reports | 2018-05-18 |
| Design change 10432 (change from rigid to inflated boarding ramp) and related test reports 2810, 2811, 2812, 2813 (cold, hot and ambient inflation tests), 1638 (boarding test) and drawings 43002541.000/001/002 | 2018-09-12 |
| Design change 10437 (Alternative hardener 'Beyond') and related test reports: 3x over pressure test (2905, 2914, 2915) and seam strength tests (2880, 2881, 2882, 2883, 2884, 2885) | 2018-12-10 |
| Design change 10443 (Improved painter system for liferafts with capacity of 26 and more) and related test reports (3088, 3087, 2952, 2953) | 2019-04-23 |
| Design change 10438 (Alternative hardener 'TM-93') and related 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 related test reports (3085, 3086) | 2019-04-23 |
| Design change 10472b (additional variant of S30 add. liferaft 50/100 and 150 DKR) and supporting drawings (ENG-20049788, ENG-20034227, ENG-20035283, ENG-20068838, ENG-20048263, ENG-20049781) and test reports (3405 and A504). | 2021-01-15 |
| Design change 10512 (Black rubber fabric RBND6 BCR) and related test reports: (4035, 4036, 4058, 4059, 4060, 4061, 4062, 4063, 4065, 4066, 4075, 4076, 4079, 4080, 4081, 4082, 4085, 4086, 4087, 4096, 4097, 4098, 4101, 4102, 4103, 4104 – witnessed by DNV) and test report TX772622/2022/PL dated 29 September 2022 from SGS, Taoyuan City, Taiwan. | 2022-11-11 |
| Design change 10516a (Extended inner tube, long – 6-65 persons) and related test reports: 4059, 4087, 4066, 4101, 4081, 4419, 4420, 4421, 4422 – witnessed by DNV | 2023-06-12 |
| Drawing No. ENG-20118151 Rev.2 | |
| 65 DKR+ 65 DKR+ S30 65 DKR+E | |
| Drawings | Date |
| Drawings: 43002541.001.00 and 43002541.002.00 | 2018-01-24 |
| Reports | Date |
| Test reports 1696, 1698, 1702, 1711, 2595, 2596, 2661, 2667, 2707, 2708, 2710, 2712, 2714, 2717, 2718, 2733, 2734 | - |
| Design changes and supporting documentation | Date |
| See under 50 DKR+/50DKR+ S30 (ref. DC 10417 dated 2018-03-09) | |
| Design change 10432 (change from rigid to inflated boarding ramp) and related test reports 2810, 2811, 2812, 2813 (cold, hot and ambient inflation tests), 1638 (boarding test) and drawings 43002541.000/001/002 | 2018-09-12 |
| Design change 10437 (Alternative hardener 'Beyond') and related test reports: 3x over pressure test (2905, 2914, 2915) and seam strength tests (2880, 2881, 2882, 2883, 2884, 2885) | 2018-12-10 |
| Design change 10443 (Improved painter system for liferafts with capacity of 26 and more) and related test reports (3088, 3087, 2952, 2953) | 2019-04-23 |
| Design change 10438 (Alternative hardener 'TM-93') and related 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 related test reports (3085, 3086) | 2019-04-23 |
| Design change 10512 (Black rubber fabric RBND6 BCR) and related test reports: (4035, 4036, 4058, 4059, 4060, 4061, 4062, 4063, 4065, 4066, 4075, 4076, 4079, 4080, 4081, 4082, 4085, 4086, 4087, 4096, 4097, 4098, 4101, 4102, 4103, 4104 – witnessed by DNV) and test report TX772622/2022/PL dated 29 September 2022 from SGS, Taoyuan City, Taiwan. | 2022-11-11 |
| Design change 10516a (Extended inner tube, long – 6-65 persons) and related test reports: 4059, 4087, 4066, 4101, 4081, 4419, 4420, 4421, 4422 – witnessed by DNV | 2023-06-12 |
| Drawing No. ENG-20118151 Rev.2 | |
| 100 DKR+ 100 DKR+ S30 100 DKR+ E | |
| Drawings | Date |
| Parts list no. 10100-1322.5, "Viking 100 DKR+/HSC" and referred drawings. | 2002-03-13 |
| Liferaft Part no.1008803, "Viking 100 DKR+/HSC" and referred drawings | 2014-11-13 |
| Reports | Date |

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|---|-------------|
| Viking Conformity Assessment Report type 100 DKR? and prototype test reports of various dates attached to the assessment report. | 2002-03-20 |
| MCA certificate of inspection and tests, | 2002-03-19 |
| Evaluation and test report No. 1355, "Ambient Temperature Inflation Test" witnessed by DNV surveyor | 2009-02-02 |
| Design changes and supporting documentation | Date |
| Design change 10344 and related test reports | 2014-11-24 |
| Design change 10345 and related test reports | 2014-12-01 |
| Design change 10314 and related test reports | 2013-06-19 |
| Design change 10315 and related test reports | 2013-04-02 |
| Design change 10346 and related test reports | 2015-09-02 |
| Design change 10411 and related test reports | 2017-09-27 |
| Design change 10420 and related test reports | 2018-05-18 |
| Design change 10427 (new packing procedure 100DKR SBS) and related test reports: 2758, 2773, 2778 (inflation at +65°C, ambient 20°C and -30°C) | 2018-09-03 |
| Design change 10433 (Smaller cylinders and container) and related test reports: 2814~2823 (inflation tests, drop tests, jump, weight and towing tests) and drawings nos. 43002548.000/001/002 | 2018-10-08 |
| Design change 10437 (Alternative hardener 'Beyond') and related test reports: 3x over pressure test (2905, 2914, 2915) and seam strength tests (2880, 2881, 2882, 2883, 2884, 2885) | 2018-12-10 |
| Design change 10443 (Improved painter system for liferafts with capacity of 26 and more) and related test reports (3088, 3087, 2952, 2953) | 2019-04-23 |
| Design change 10438 (Alternative hardener 'TM-93') and related 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 related test reports (3085, 3086) | 2019-04-23 |
| Design change 10458 (adding 'E' to type designation) | 2020-02-19 |
| Design change 10472b (additional variant of S30 add. liferaft 50/100 and 150 DKR) and supporting drawings (ENG-20049788, ENG-20034227, ENG-20035283, ENG-20068838, ENG-20048263, ENG-20049781) and test reports (3405 and A504). | 2021-01-15 |
| 150 DKR+ 150 DKR+ S30 150 DKR+ E 150 DKR+ VEMC 1.16 150 DKR+ VEMC 1.16T | |
| Drawings | Date |
| Parts list no. 10150-1322.8, "Viking 150 DKR+/HSC" and referred drawings. | 2002-01-04 |
| Liferaft Part no. 1017903, "Viking 150 DKR+/HSC" and referred drawings. | 2014-11-13 |
| Submitted documentation listed in DNV approval letter | 2007-03-14 |
| Reports | Date |
| Viking Conformity Assessment Report type 150 DKR+ and prototype test reports of various dates, attached to the assessment report | 2002-01-25 |
| Evaluation and test report No. 1355, "Ambient Temperature Inflation Test" witnessed by DNV surveyor | 2009-11-26 |
| MCA certificate of inspection and tests | 2002-01-18 |
| Design changes and supporting documentation | Date |
| Design change 10344 and related test reports | 2014-11-24 |
| Design change 10345 and related test reports | 2014-12-01 |
| Design change 10314 and related test reports | 2013-06-19 |
| Design change 10315 and related test reports | 2013-04-02 |
| Design change 10346 and related test reports | 2015-09-02 |
| Design change 10411 and related test reports | 2017-09-27 |
| Design change 10420 and related test reports | 2018-05-18 |
| Design change 10437 (Alternative hardener 'Beyond') and related test reports: 3x over pressure test (2905, 2914, 2915) and seam strength tests (2880, 2881, 2882, 2883, 2884, 2885) | 2018-12-10 |
| Design change 10443 (Improved painter system for liferafts with capacity of 26 and more) and related test reports (3088, 3087, 2952, 2953) | 2019-04-23 |
| Design change 10438 (Alternative hardener 'TM-93') and related test reports (2868, 2869, 2870, 2871, 2872, 2873, 2876, 2877, 2878, 2988, 2989, 2990, 3017, 3019) | 2019-04-23 |
| Design change 10451 (Painter system with alternative hardener 'TM-93' and 'Beyond') and related test reports (3085, 3086) | 2019-04-23 |
| Design change 10458 (removal of two thwarts and adding container type 016-57xx), related test reports (2843, 2844, 2845, 2846, 2847, 2850, 2851, 2852, 3206, 3207, 3208, 3221) and drawings nos. 43002549.000, 43002549.001 and 43002549.002. | 2020-02-19 |
| Viking Conformity Assessment Report type 150 DKR+ | 2020-01-29 |

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|---|------------|
| Design change 10472b (additional variant of S30 add. liferaft 50/100 and 150 DKR) and supporting drawings (ENG-20049788, ENG-20034227, ENG-20035283, ENG-20068838, ENG-20048263, ENG-20049781) and test reports (3405 and A504) | 2021-01-15 |
| Design Change 10529 (liferaft variant 150 DKR VEMC 1.16T – changed inflation direction) and supporting drawings and reports: - ENG-20154586 Rev. 0 – General arrangement - ENG-20100030 Rev.0 – 150 IBA drawing (reference drawing) - ENG-20093630 Rev.0 – 150 DKR+ SBS (reference drawing) Test reports witnessed by DNV: - 327A, 327B, 327C, 327E, 327I, 327J, 327M, 327R, 327Q, 1471, 2731, 2736, 2777, 2795, 2952, 2953, 2996, 2999, 3087, 3088, 3445, 3455, 3456, 3466, 3467, 3508, 4295. | 2023-02-17 |
| Design Change 10537 (change of inflation 150DKR+) and supporting drawings and reports: - ENG-20112482 Rev.1 – General arrangement Test reports witnessed by DNV: - 4447, 4446a, 4446b, 4479 | 2023-08-28 |
| Design Change 10538 (Change of stability pockets 150 DKR+) and supporting drawings and reports: - ENG-20088191 Rev.2 – General arrangement - ENG-20072820 Rev.1 – Stabilization pocket Test reports witnessed by DNV: - 2539, 4482 | 2023-08-28 |