

EC Type-Examination (Module B)

Directive for Marine Equipment

Certificate No.: **DK-0200-MarED-135 version 9**

Issued by FORCE Certification A/S - EC-notified body number 0200

This is to certify that:

FORCE Certification A/S did undertake the relevant quality assessment procedures for the equipment of the manufacturer identified below which was found to be in compliance with the Fire protection requirements of Marine Equipment Directive (MED) 96/98/EC, as amended, last amended by Directive 2015/559/EU (11th Amendment) subject to any conditions in the schedule attached hereto.

Applicant and Manufacturer:

Alcares ApS
Rugmarken 10-bygning 6
3650 Ølstykke
Denmark

Identification of Marine Equipment:

Annex 1.A Item:

ANNEX A.1, item A.1/1.2a

Product Type:

Position-Indicating Lights for Live Saving Appliances
- for survival craft and rescue boats

Product Designations:

Raft Ex
Raft Ex -Alk

Specified Standard:

LSA code MSC.48(66) adopted on 4 June 1996 and
MSC.81(70) adopted on 11th December 1998

Amendments to LSA code:

MSC.207(81) adopted on 18 May 2006
MSC.218(82) adopted on 8 December 2006

Amendments to testing methods:

MSC.226(82) adopted on 8 December 2006
MSC.323(89) adopted on 20 May 2011

The examined samples are found to fulfil the requirements stated in:

The International Testing Standard IMO Res. MSC.81(70) and the applicable reg. SOLAS 74 as amended, where the relevant requirements are specified in ANNEX A.1, item A.1/1.2a of The Directive.

Documentation for observance of relevant requirements stated in ANNEX B (Module B) of the Directive and the basis for the type examination are described in the appendix to this certificate.

This certificate will remain valid unless cancelled or revoked, provided the conditions in the attached appendix are complied with and the equipment remains satisfactory in service.

The certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.

Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be reapproved prior to it/they being placed on board vessels to which the amended regulations or standards apply.

This certificate replaces former EC-type examination certificate DK-0200-MarED-135 version 8 dated 2015-06-18


FORCE Certification A/S task No.: 116-26028

FORCE Certification A/S ID No.: Dk-0200-MarED-01019

Date of issue: 2016-07-01

Date of expiry: 2021-07-01


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Certification manager


Philippa W. Osted
Examiner



The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity may only be issued when the production/product assessment module (D, E or F), ANNEX B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

Extracts from this EC Type-Examination Certificate may only be reproduced with a written permission from FORCE Certification A/S

Appendix to EC Type-Examination Certificate

Directive for Marine Equipment

Certificate No.: DK-0200-MarED-135 version 9
Issued by FORCE Certification A/S - EC-notified body number 0200

Applicant and manufacturer: **Alcares ApS**
Rugmarken 10-bygning 6
3650 Ølstykke
Denmark

Identification of Marine Equipment:
Annex 1.A Item: **ANNEX A.1, item A.1/1.2a**

Product Type: **Position-Indicating Lights for Live Saving Appliances**
- for survival craft and rescue boats

Product Designations: **Raft Ex**
Raft Ex -Alk

Design:



Raft Ex

Appendix to EC Type-Examination Certificate

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Issued by FORCE Certification A/S - EC-notified body number 0200

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History:

Issue/change:	Document:	Date:
- Original certificate	DK-0200-MarED-135 version 1	2010-04-16
- Update of certificate – 5 th amendment	DK-0200-MarED-135 version 2	2010-04-29
- Alternative diodes added and separated list of materials	DK-0200-MarED-135 version 3	2012-10-18
- Update of certificate – 7 th amendment	DK-0200-MarED-135 version 4	2013-06-04
- Updated materials, new version added	DK-0200-MarED-135 version 5	2013-10-11
- Correction of writing mistake in Certificate version 5	DK-0200-MarED-135 version 6	2014-04-30
- Correction of address of applicant and manufacturer	DK-0200-MarED-135 version 7	2014-05-06
- New expiry date	DK-0200-MarED-135 version 8	2015-06-18
- Alternative batteries, update to 11 th amendment, new expiry date	DK-0200-MarED-135 version 9	2016-07-01

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Documentation for observance of the relevant requirements:

Test House	File No.	Testing/Inspection of:
FORCE Technology	109-24341.c	Type Testing of Raft Ex
Delta - Danish Electronics, Lights and Acoustics	DELTA-L102202-3288	Light Test (Power Plus battery)
	DELTA-L102202-3289	Light Test
	DELTA-L102202-3290	Chromaticity Test, Drop Test
	DELTA-A506584	Vibration Test
Delta - Danish Electronics, Lights and Acoustics	DELTA -L102692-4190	Supplementary testing of the use of Reiden battery
Delta - Danish Electronics, Lights and Acoustics	DELTA L102798-4782	Supplementary testing of the use of Varta battery
FORCE Technology	116-26028.a	Supplementary testing of the use of Varta battery

Partial conclusion: The lights designated "Raft Ex" and "Raft Ex -Alk" are found to fulfil the requirements in The International Testing Standard IMO Res. MSC.81(70) and the applicable reg. SOLAS 74 as amended, where the relevant requirements are specified in ANNEX A.1, item A.1/1.2 of the Directive, as well as the requirements in ANNEX B (Module B) of the Directive.

The following documentation was available: - Drawings
- Specification of battery
- List of materials/components and manufacturers

Description of quality management system: Module D certificate - DK-0200-MarED-QA-132
User Manual and marking: See report 109-24341.c
List of materials/manufacturers used for manufacturing the device: See "List of Materials for DK-0200-MarED-135" valid on the date of production.

Conclusion

Based on the above mentioned attestation it can be concluded that the position indicating light designated, "Raft Ex" and "Raft Ex -Alk" meet the conditions of EC type-examination in accordance with the requirements of Marine Equipment Directive (MED) 96/98/EC, as amended, last amended by Directive 2015/559/EU (11th Amendment)

FORCE Certification A/S task No.: 116-26028

Date: 2016-07-01



Philippa W. Osted
Examiner