

EC Type-Examination (Module B)

Directive for Marine Equipment

Certificate No.: **DK-0200-MarED-158 version 6**

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

This is to certify that:

FORCE Certification A/S did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Life Saving Appliance requirements of Marine Equipment Directive (MED) 96/98/EC, as amended, last amended by by Directive 2014/93/EU (10th Amendment) subject to any conditions in the schedule attached hereto.

Applicant and Manufacturer: **Alcares ApS
Frydensbergvej 26
3660 Stenløse
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 Combi Ex/In 2
Raft Combi Ex/In 2 - 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.200(80) adopted on 13 May 2005
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 reappraised 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-158 version 4 dated 2015-12-10

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

Date of issue: 2016-07-01

Date of expiry: 2020-12-10


Niels Ovesen
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

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

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Applicant and manufacturer: **Alcares ApS**
Frydensbergvej 26
3660 Stenløse
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 Combi Ex/In 2**
Raft Combi Ex/In 2 - Alk

Design:



Raft Combi Ex/In 2

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History:

Issue/change:	Document:	Date:
- Original certificate	DK-0200-MarED-158 ver. 1	2010-11-05
- Original Light Raft Combi EX/In was fitted with 1 switch. The updated light Raft Combi Ex/In 2 was fitted with two switches. The original light Raft Combi Ex/In was withdrawn.	DK-0200-MarED-158 ver. 2	2011-04-11
- Update of certificate – 7 th amendment and separated "List of materials"	DK-0200-MarED-158 version 3	2013-05-31
- Updated materials, new version using alkaline battery	DK-0200-MarED-158 version 4	2013-10-22
- New expiry date	DK-0200-MarED-158 version 5	2015-12-10
- Alternative battery, new amendment	DK-0200-MarED-158 version 6	2016-07-01

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Documentation for observance of the relevant requirements:

Test House	File No.	Testing/Inspection of:
Force Technology	110-30223	Limited type testing
FORCE Certification A/S	DK-0200-MarED-135	The light was type identical to "Raft Ex" except for an added LED light on the power house.
Delta Danish Electronics, Light & Acoustics	Delta-L102253-3471 Delta-L102253-3463 Delta-L102253-3470	Effective luminous light emitted Intensity of light (Power Plus battery) Luminous light distribution
Delta Danish Electronics, Light & Acoustics	Delta-L102692-4250 Delta-L102692-4251	Supplementary testing of the use of Reiden LR06 battery
Delta - Danish Electronics, Lights and Acoustics	DELTA L102798-4781 DELTA L102698-4793	Supplementary testing of the use of Varta battery
FORCE Technology	116-26028.c	Supplementary testing of the use of Varta battery

Partial conclusion:

The lights designated "Raft Combi Ex/In 2" and "Raft Combi Ex/In 2 -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 110-30223
List of materials/manufacturers used for manufacturing the device: See "List of Materials for DK-0200-MarED-158" valid on the date of production.

Conclusion

Based on the above mentioned attestation it can be concluded that the position indicating light designated, "Raft Combi Ex/In 2" and "Raft Combi Ex/In 2 -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