

## EC Type-Examination (Module B)

Directive for Marine Equipment

Certificate No.: **DK-0200-MarED-217 version 1**

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 Directive (2012/32/EU, 8<sup>th</sup> 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 M-12H**

Specified Standard:

**LSA code MSC.48(66) adopted on 4 June 1996 and**  
**MSC.81(70) adopted on 11<sup>th</sup> 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 reapproved prior to it/they being placed on board vessels to which the amended regulations or standards apply.*

FORCE Certification A/S task No.: 114-24819

Date of issue: 2014-05-28

Date of expiry: 2019-05-28



**Niels Ovesen**  
Certification manager



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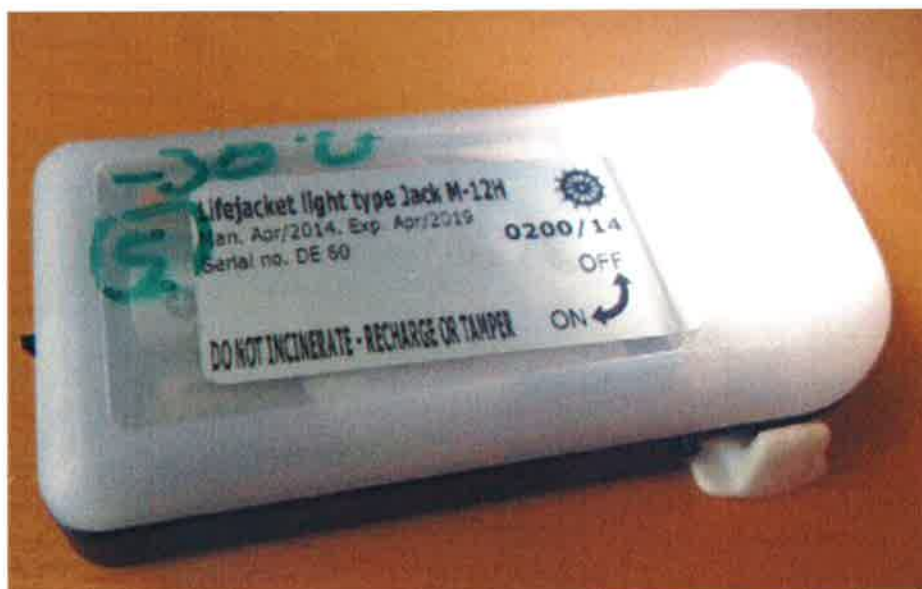
Applicant and manufacturer: **Alcares ApS**  
**Rugmarken 10-bygning 6**  
**3650 Ølstykke**  
**Denmark**

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 M-12H**

Design:



**Raft M-12H,**  
**(The light submitted for testing was marked with the wrong text)**

# Appendix to EC Type-Examination Certificate

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## History:

Issue/change:	Document:	Date:
- Original certificate	DK-0200-MarED-217 version 1	2014-05-28

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## Documentation for observance of the relevant requirements:

Test House	File No.	Testing/Inspection of:
FORCE Technology	114-24818.a	Type Testing of Raft M-12H
FORCE Technology	114-24818.b	Type Testing of Raft M-12H-ALK
Delta - Danish Electronics, Lights and Acoustics	DELTA-L102733-4404	Light Test of Raft M-12H
Delta	DELTA-L102733-4402	Light Test of Raft M-12H-ALK
The client informed that the Raft M-12H was type-identical to the lifejacket light Jack M with respect to materials and electronics.		
FORCE Technology	109-24341.a	Type Testing of Jack M
Delta	DELTA-L102003-3168 rev.1	Light Test
	DELTA-L102003-3169	Light Test
	DELTA-L102003-3170	Chromaticity Test, Drop Test
	DELTA-A506584	Vibration Test
FORCE Technology	110-26415.a	Supplementary testing of the use of alternative battery and new supplier of circuit board
Delta	DELTA-L102253-3418	Supplementary testing of the use of alternative battery and new supplier of circuit board

**Partial conclusion:** The lights designated "Raft M-12H" as interior light is 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 114-24818.a  
List of materials/manufacturers used for manufacturing the device: See "List of Materials for DK-0200-MarED-217" valid on the date of production.

## Conclusion

Based on the above mentioned attestation it can be concluded that the position indicating light designated, "Raft M-12H" meets the conditions of EC type-examination in accordance with the Act No. 983, dated Oct. 9, 2012 from the Danish Maritime Authority.

FORCE Certification A/S task No.: 114-24819

Date: 2014-05-28

  
Jonas L. Jensen  
Examiner