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Certificate No: MED-MB-1018-10 MED Item No. : MED/1.2(b)

This consists of 5 pages. Page 1/5

EC CERTIFICATE OF CONFORMITY

as per Module B

of European Council Directive 2014/90/EU on Marine Equipment (MED)

THIS IS TO CERTIFY that KR Hellas Ltd., designated by the Hellenic Republic as Notified Body according to Council Directive 2014/90/EU on Marine Equipment, did undertake the EC Type Examination procedures for the equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU:

Manufacturer	Name	:	
	Address	:	
Authorised Representative	Name	:	
	Address	:	
Regulation Item		:	Position-indicating lights for life- saving appliances:
(MED item designation)			(b) for lifebuoys,
Product Types		:	K-36
Specified Standards		:	SOLAS 74 Reg. 111/4, 111/7, 111/2 <mark>2, 111/32,</mark> 111/34, X/3,
[(EU) 2019/1397]			IMO Res.MSC.36(63)-(1994 HSC Code) 8,
			IMO Res.MSC.48(66)-(LSA Code) I, II,
			IMO Res.MSC.97(73)-(2000 HSC Code) 8.
			IMO Res.MSC.81(70), as amended,
			IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008).
Date of issue		:	22 nd June 2020
Date of reissue		:	÷
Expiration Date		:	21 st June. 2025

Issued at Athens, under the authority of the Hellenic Republic by KR Hellas Ltd.



Notified Body No.2198

(KRH Endorse)

Dr. Nikos Katiforis

Quality Manager of KR Hellas Ltd.

Any person not a party to the contract pursuant which this document is delivered may not assert a claim against KRH for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgment, fault or negligence committed by personal of KRH in establishment or issuance of this document, and in connection with any activities for which it may provide. In this provision KRH shall mean the KR Hellas Ltd. as well as all its subsidiaries, directors, officers, employees and any other acting on behalf of KR Hellas Ltd.



Page 2/5

Attachment to EC Type Examination Certificate(1/4)

Type examination documentation:

Drawing No	Title	Version	Date
KR-1005000~1005013	Drawing for manufacture (self-ignition light K-36)	0	26.05. 2010

Test reports:

Tested according to Environmental Testing to IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008). (as required by IMO Res. MSC 81(70) as amended.) and

IMO Res.MSC.81(70) as amended by IMO Res.MSC.200(80), IMO Res.MSC.226(82), IMO Res.MSC.323(89) and IMO MSC/Circ.980

- 1. Inspection Report for position indicating lights for lifebuoys
 - Report No. : KRH-W0064-2010
 - Institute : Korean Register of Shipping
 - Date : 07.07.2010
- 2. Test report of position indicating lights for lifebuoys (Type: K-36)
 - Report No. : KPT-10G-0 01
 - Instit<mark>ute :</mark>
 - Date : 12.07.2010
- 3. Test report of position indicating lights for lifebuoys (Type: K-36)
 - Report No. : 1070-0004
 - Institute : Korea Institute of Material Science (KIMS)
 - Date : 30.06.2010
- 4. Test report of position indicating lights lifebuoys (Type: K-36) for
 - Report No. : FWR202003
 - Institute : Korea Institute of Construction Materials (KIMS)
 - Date : 08.03.2010
- 5. Test report of position indicating lights for lifebuoys (Type: K-36)
 - Report No. : WTR223001
 - Institute : Korea Institute of Construction Materials (KIMS)
 - Date : 22.03.2010





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Page 3/5

Attachment to EC Type Examination Certificate(2/4)

Product description:

Position-indicating lights for lifebuoys, K-36

- 1. The release of the signal is automatically effected through an attached lifebuoy of minimum 2.5kg, to be launched from a lifebuoy-slide or by hand.
- 2. During drop, the electric lights are switched on by means of a mercury switch.
- 3. The mercury switch allows a current control of function.
- 4. The signal manufactured of seawater resistant plastic.
- 5. Technical data are followings;

Size	- Length : 170.5 mm,	
	- Diameter : Ø 98.15 mm	
Weight	About 0.245 kg	
Body material	Polyethylene	
Body color	Orange	
Light Intensity	More than 2 cd	
Battery	Alkaline battery, 1.5 V, LR20	
Flashing light time	More than 2 hours	
Packing	One self-igniting light signal per paper box	

Application/Limitations of Use:

- 1. As per requirement of Regulation stated on front page of this certificate
- 2. It shall be used as per manufacturer's operational instruction.

Instructions for installation, use and maintenance to be available in the ship's official language

3. 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 notified body named on this certificate.



(KRH

Page 4/5

Attachment to EC Type Examination Certificate(3/4)

Marking of product:

1. Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Chapter 2, Article 9, 10 of the Council Directive 2014/90/EU on marine equipment and issue a Declaration of Conformity, only when the module D or E or F of Annex II of the directive is fully complied with.

2. Marking of product

For traceability and identification of this product, each unit is to be marked with ;

- Manufacturers name
- Type designation
- Serial Number

Conditions of the validity:

- The products are to be manufactured in accordance with the approved production quality assurance system(Module D) or approved product assurance system (Module E), or are to be subjected to product verification (Module F) of the Council Directive 2014/90/EU on Marine Equipment.
- 2. If the Directive or the applied Standard(s) is amended, the product is to be re-approved in accordance with the amended requirements prior to it being supplied to vessels to which the amended Directive or Standard(s) apply. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this certificate invalid.
- 3. The Manufacturer must inform the "Notified Body" of all modifications which may affect compliance with the requirements.
- 4. The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.

Place of production:

Manufacturer :



Page 5/5

Attachment to EC Type Examination Certificate(4/4)

<u>Remark</u>

- 1) Intially issued on 23rd April 2010.
- 2) First renewal on 22nd June 2015.
- 3) Second renewal on 22nd June 2020.

End of Certificate



