

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2014/93/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:**That the Low-Location Lighting Systems**

with type designation(s)
Safe Sign Light Line XL, XXL and XXX

Issued to
T-ISS
Dinxperlo, Netherlands

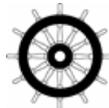
is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.40 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/13 and FSS Code 11

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

This Certificate is valid until **2021-04-13**.

Issued at **Høvik** on **2016-04-14**

DNV GL local station:
**Rotterdam, Product Certification
/Verification**



Approval Engineer:
Piotr Orzechowski

Notified Body
No.: **0575**

for **DNV GL AS**



Digitally Signed By: Langnes, Petter
Location: DNV GL Høvik, Norway
Signing Date: 2016-04-15, on behalf of

Vidar Dolonen
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 Council Directive 96/98/EC, as amended.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment.

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.

Job Id: **344.1-003138-3**
Certificate No: **MEDB00000VJ**

Product description

"Safe Sign Light Line XL, XXL and XXX"

Photoluminescent Low Location Lighting systems made of PVC Sheet - PVC Foil - Aluminium or Modified APET.

Application/Limitation

Approved for use as low-location lighting system, escape route signs and fire equipment location marking.

Extent of arrangement, placing, width and luminance of the photoluminescent strips based on the ambient light are to be in accordance with IMO Res. A.752 (18) or ISO 15370:2010 and is to be approved by the administration or competent authority in each case/project.

Photoluminescent strips having a width less than 75 mm shall only be used if the luminance is increased to compensate for the reduced width in accordance with Ch. 7.1 of IMO Res. A.752 (18) or Ch. 4.2.2 & Annex D of ISO 15370:2010.

Each product is to be supplied with its manual for installation, use and maintenance.

Type Examination documentation

Test report (certificate) Nos.:

- 5798.8-M23-4180-1088/10 (XL)
 - 5798.9-M23-4180-1088/10 (XXL)
 - 5798.7-M23-4180-1088/10 (XXX)
- all dated 13.01.2011 from Photometry and Radiometry Laboratory of Radiation and Influence Quantities Department at Central office of Measures, Warsaw, Poland.

Test report Nos.:

- 309599 (PVC Light line / Modified PVC)
 - 309600 (APET Light line / Modified APET)
 - 309601 (Aluminium Light line / Light line Aluminium)
 - 309602 (PVC Foil Light line / Light line PVC Foil)
- all dated 4 August 2011 from Exova Warringtonfire, Warrington, UK.

Tests carried out

Tested according to ISO 15370:2010 and IEC 60092-101.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation and the MED mark of conformity.

QS - CERTIFICATE OF ASSESSMENT - EC (MODULE D)

Certificate No:
MEDD00000HK
Revision No:
1

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 GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:**That the Quality System for the products**

with type designation(s) as specified in the Appendix to this Certificate

Issued to

T-ISS B.V.
Dinxperlo Gelderland, Netherlands

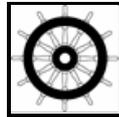
is found to comply with the applicable requirements.

The quality system has been assessed with respect to the procedure of conformity assessment described in Annex II, Module D in the directive 2014/90/EU and regulation (EU) 2017/306.

This Certificate is valid until **2021-07-03**.

Issued at **Høvik** on **2017-08-21**

DNV GL local station:
Rotterdam, Product Certification /Verification



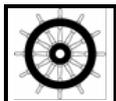
for **DNV GL AS**

Approval Engineer:
Piotr Orzechowski

Notified Body
No.: **0575**

Vidar Dolonen
Head of Notified Body

The manufacturer is allowed to affix the U.S. Coast Guard approval number(s) as stated in the appendix attached hereto and as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005.



0575/yyyy

0575: Notified Body number undertaking quality surveillance
yyyy: The year in which the mark is affixed

The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU. This certificate authorizes the manufacturer in conjunction with the valid EC Type Examination (Module B) Certificate(s) of the equipment listed before to affix the Mark of Conformity (wheelmark) to the product described herein. This certificate loses its validity if the manufacturer makes any changes to the approved quality system which have not been notified to and agreed with the notified body named on this certificate. This certificate remains valid unless suspended, withdrawn, recalled or cancelled. The Manufacturer has to apply for periodical audits to verify the maintenance and application for the quality system every 12 months.



Job Id: **344.1-003138-5**
Certificate No: **MEDD00000HK**
Revision No: **1**

APPENDIX

Item no. MED/1.16 Float-free arrangements for liferafts (hydrostatic release units)

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
SEAMATE Ve-1 ¹	MEDB00002F8	2022-03-06	0575	160.162/EC0575 /MEDB00002F8

Item no. MED/1.30 Retro-reflective materials

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
Solasflex ²	86 253 - 09 HH Rev.1	2019-03-24	0098	N/A

Item no. MED/3.40 Low-Location Lighting Systems

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
Safe Sign Light Line XL, XXL and XXX ²	MEDB00000VJ	2021-04-13	0575	N/A

Places of production

- 1.Sea-Land Guangzhou Risheng Marine Equipment Co. Ltd., No. 16 Yu Wo Tou Jun Yong Bei Street, Dongyong Tow, Guangzhou, China
- 2.T-ISS B.V., Helmkamp 32-34, Dinxperlo, Netherlands