



Marine & Offshore
Division

Certificate number: 19885/B0 EC

File number: NAV 08/47678/04

Annex A1 Item number: A.1/6.1

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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Notified Body 0062 - MARINE EQUIPMENT DIRECTIVE 96/98/EC

EC TYPE EXAMINATION CERTIFICATE

as per Module B of European Union Council Directive 96/98/EC on marine equipment
as amended by Commission Directive 2012/32/EU

This certificate is issued to

Den Haan Rotterdam B.V.
Capelle aan de IJssel - NETHERLANDS

for the type of product

NAVIGATION LIGHTS
DHR "55N" Series

Requirements:

COLREG Annex I/14
IMO Resolution A.694(17)
IMO Resolution MSC.253(83)
EN 14744 (2005) including AC (2006)
EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008)

This certificate is issued under the French Maritime Authority to attest that BUREAU VERITAS did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Council Directive 96/98/EC of 20 December 1996 as amended.


This certificate will expire on: 01 Oct 2019

For BUREAU VERITAS Notified Body 0062,

At BV GRONINGEN, on 01 Oct 2014,

John Mondt



This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark ) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex B of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. BUREAU VERITAS is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine & Offshore Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

| Navigation lights type DHR "55N" Series | | | |
|--|----------------------|------------------------|-----------|
| Type | Visibility sector | Visibility of light | Model |
| Sidelights Starboard green | 112.5° | 2 NM | 1000001B |
| Sidelights Port red | 112.5° | 2 NM | 2000001B |
| Masthead light White | 225° | 5 NM | 3000001B |
| Sternlight White | 135° | 2 NM | 4000001B |
| All-round lights Yellow | 360° | 2 NM | 9000001B |
| All-round lights Green | 360° | 2 NM | 8000001B |
| All-round lights Red | 360° | 2 NM | 7000001B |
| All-round lights White | 360° | 2 NM | 6000001B |
| Towing light Yellow | 135° | 2 NM | 5000001B |
| All-round lights White as manoeuvring light | 360° | 5 NM | 66000001B |

* **Note:** As light source shall be used an approved electric bulb type 24V 40cd Bay 15d approval mark N.87.02
(as referred to in clause 4.1 below)

2. DOCUMENTS AND DRAWINGS:

According to Manufacturer's specifications filed in NAV 08/47678/4.

3. TEST REPORTS:

| | |
|---|---|
| 3.1 - Test report N°: - dated: - Issued by: | 3330165A 06/Apr./2007 NMI |
| 3.2 - Test report: - dated: - Issued by: | MOA07-00179 06/Jun.2007 Stork FDO B.V. |
| 3.3 - Test report N°: - dated: - Issued by: | 2007-D-R0316/A 19/Mar./2007 TNO |
| 3.4 - Test report N°: - dated: - Issued by: | Vertical Luminous Intensity Distribution 09/Jun/2009 DHR |
| 3.5 - Test report N°: - dated: - Issued by: | Request for Adjustment of Approval Certificates DHR35R and DHR55N series Navigation Lantern p1 12 May 2014 DHR |
| 3.6 - Test report: - dated: - Issued by: | Request for Adjustment of Approval Certificates DHR35R and DHR55N series Navigation Lantern p2 12 May 2014 DHR |
| 3.7 - Test report N°: - dated: - Issued by: | DHR35R DHR55N compliance with MSC_253(83) 7 July 2014 DHR |

4. APPLICATION / LIMITATION :

4.1 - The navigation lights shall be equipped with lamps of an approved type such that their application will result in the same luminous intensity distribution and chromaticity, as the lamp used for the prototype test. Furthermore they shall be compliant with all applicable vibration and shock testing requirements as per EN 14744 as well as all environmental test requirements as per EN 14744.

4.2 - For use on board of power driven vessels with a length less than 50 m in length.

4.3 - For use on board of power driven vessels of unlimited length, as manoeuvring light in compliance with regulation 34(b)iii of COLREG 1972, as amended.

5. PRODUCTION SURVEY REQUIREMENTS :

This certificate does not allow the applicant to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module D "Production Quality Assurance" or E "Product Quality Assurance" or F "Product Verification" of Annex B of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

6. MARKING OF PRODUCT :

Each navigation light shall be marked permanently in a position clearly visible even after installation on board, with the following information:

6.1 - Zero signal direction by a mark on the reference circle lights

6.2 - Range in nautical miles

6.3 - Origin mark (manufacturer's identification mark)

6.4 - Markings as per MED 96/98/EC:

⊗ YYYY/XX where YYYY is the number of the Notified Body undertaking surveillance module (when BV, 0062) and where XX are the last two digits of year mark affixed.

6.5 -Type designation

6.6 - Nominal wattage of the light source in watts, if different values lead to different ranges.

7. OTHERS :

7.1 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the Navigation Lights at any time and that **DEN HAAN Rotterdam B.V., 2909 VA Capelle aan de IJssel - The NETHERLANDS** will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the Navigation Lights and the conditions of this approval.

7.2 - This Certificate supersedes EC Type Examination Certificate n° 19885/A0 EC issued on 22/07/2009 by the Society.

*** END OF CERTIFICATE ***