DNV·GL

Certificate No:
**MEDB000048S**

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 Norway.

## This is to certify:

**That the Navigation lights**

with type designation(s)
**TEF2880 Navigation Light**

Issued to
## R. STAHL TRANBERG AS
**STAVANGER, Norway**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397,**
**item No. MED/6.1. COLREG 72 as amended, Annex I/14, IMO Res. A.694(17), IMO Res. MSC.253(83)**

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

This Certificate is valid until **2025-05-04**.
Issued at **Høvik** on **2020-05-05**

DNV GL local station:
**Stavanger**

Approval Engineer:
**Frederik Tore Elter**

Notified Body
No.: **0575**

for **DNV GL AS**

**Roald Vårheim**
**Head of Notified Body**

NORWEGIAN ACCREDITATION PROD 019

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 Directive 2014/90/EU.
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. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
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.



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## Product description

TEF2880 Navigation Light – LED navigation lights for Simplex or Duplex installation.

For approved light types and part numbers; see list in certificate appendix.

## Application/Limitation

- Installation and maintenance in accordance to manufacturers documentation.
- May be installed for COLREG vessels of less than 50m.
- May be installed for COLREG, CCNR and CEVNI vessels of above 50m – where certified light range permits requirement.
  **Note:** Lights for required range of 6NM is excluded from this certification, see Appendix: Approved Navigation Lights.

## Type Examination documentation

| DNV GL No | Drw No | Rev | Title |
|---|---|---|---|
| 58 | 454.NL/R. | | Report: BSH EN 14744 Navigation light TEF2880 |
| 48 | TCR6552 | 0 | Report: IEC60945, Applica Type testing of TEF2880 series Navigation Lights |
| 46 | TUM6500 | 23 July 2019 | Manual: User manual - TEF2880 Navigation Light |

## Tests carried out

- Environmental testing: IEC 60945 (2002)
- Performance testing: EN 14744 (2005)

## Marking of product

In accordance with EN 14744.

## Appendix: Approved Navigation Lights

| Part No. | Description | Range (NM) |
|---|---|---|
| **Duplex:** | | |
| 288082200 | TEF 2880 Nav. Light LED Duplex Port 112,5° Red 2nm 24V | 2 |
| 288084200 | TEF 2880 Nav. Light LED Duplex Starboa 112,5° Green 2nm 24V | 2 |
| 288082300 | TEF 2880 Nav. Light LED Duplex Port 112.5° 3nm 24V | 3 |
| 288084300 | TEF 2880 Nav. Light LED Duplex Starboard 112.5° 3nm | 3 |
| 288091200 | TEF 2880 Nav. Light LED Duplex Stern 135° White 2nm 24V | 2 |
| 288091300 | TEF 2880 Nav. Light LED Duplex Stern 135° 3nm 24V | 3 |
| 288071100 | TEF 2880 Nav. Light LED Duplex Additiona 181° White >1nm 24V | 1 |
| 288072100 | TEF 2880 Nav. Light LED Duplex Additional 181° Red >1nm 24V | 1 |
| 288071200 | TEF 2880 Nav. Light LED Duplex Half Round 181° White 2nm 24V | 2 |
| 288072200 | TEF 2880 Nav. Light LED Duplex Half Round 181° Red 2nm 24V | 2 |
| 288074200 | TEF 2880 Nav. Light LED Duplex Half Round 181° Green 2nm 24V | 2 |
| 288076200 | TEF 2880 Nav. Light LED Duplex 181° White/Red 2nm 24V | 2 |
| 288079200 | TEF 2880 Nav. Light LED Duplex 181° Red/Green 2nm 24V | 2 |
| 288071300 | TEF 2880 Nav. Light LED Duplex Half All-round 181° White 3nm | 3 |
| 288072300 | TEF 2880 Nav. Light LED Duplex Half All-round 181° Red 3nm | 3 |
| 288074300 | TEF 2880 Nav. Light LED Duplex Half All-round 181° Green 3nm | 3 |
| 288079300 | TEF 2880 Nav. Light LED Dual Half All-round 181° Red/Green | 3 |
| 288081500 | TEF 2880 Nav. Light LED Duplex Masthead 225° White 5nm 24V | 5 |
| 288061100 | TEF 2880 Nav. Light LED Duplex Additiona 360° White >1nm 24V | 1 |
| 288062100 | TEF 2880 Nav. Light LED Duplex Additional 360° Red >1nm 24V | 1 |
| 288061200 | TEF 2880 Nav. Light LED Duplex All Around 360° White 2nm 24V | 2 |
| 288062200 | TEF 2880 Nav. Light LED Duplex All Around 360° Red 2nm 24V | 2 |
| 288064200 | TEF 2880 Nav. Light LED Duplex All Around 360° Green 2nm 24V | 2 |
| 288067200 | TEF 2880 Nav. Light LED Duplex 360° White/Red 2nm 24V | 2 |
| 288069200 | TEF 2880 Nav. Light LED Duplex 360° Red/Green 2nm 24V | 2 |
| 288061300 | TEF 2880 Nav. Light LED Duplex All-round 360° White 3nm 24V | 3 |
| 288061390 | TEF 2880 Nav. Light LED Duplex All-round 360° White 3nm 24V | 3 |
| 288062300 | TEF 2880 Nav. Light LED Duplex All-round 360° Red 3nm 24V | 3 |
| 288064300 | TEF 2880 Nav. Light LED Duplex All-round 360° Green 3nm 24V | 3 |
| 288069300 | TEF 2880 Nav. Light LED Dual All-round 360° Red / Green 3nm | 3 |
| **Simplex:** | | |
| 288022200 | TEF 2880 Nav. Light LED Simplex Port 112,5° Red 2nm 24V | 2 |
| 288024200 | TEF 2880 Nav. Light LED Simplex Starboa 112,5° Green 2nm 24V | 2 |
| 288022300 | TEF 2880 Nav. Light LED Simplex Port 112,5° Red 3nm 24V | 3 |
| 288024300 | TEF 2880 Nav. Light LED Simplex Starboa 112,5° Green 3nm 24V | 3 |
| 288031200 | TEF 2880 Nav. Light LED Simplex Stern 135° White 2nm 24V | 2 |
| 288031300 | TEF 2880 Nav. Light LED Simplex Stern 135° White 3nm 24V | 3 |

| Part No. | Description | Range (NM) |
|---|---|---|
| 288032300 | TEF 2880 Nav. Light LED Simplex Suez Stern 135° 3nm 24V | 3 |
| 288011100 | TEF 2880 Nav. Light LED Simplex Addition 181° White >1nm 24V | 1 |
| 288012100 | TEF 2880 Nav. Light LED Simplex Additional 181° Red >1nm 24V | 1 |
| 288011200 | TEF 2880 Nav. Light LED Simplex HalfRound 181° White 2nm 24V | 2 |
| 288012200 | TEF 2880 Nav. Light LED Simplex Half Round 181° Red 2nm 24V | 2 |
| 288014200 | TEF 2880 Nav. Light LED Simplex HalfRound 181° Green 2nm 24V | 2 |
| 288011300 | TEF 2880 Nav. Light LED Simplex Half All-round 181° White 3n | 3 |
| 288012300 | TEF 2880 Nav. Light LED Simplex Half All-round 181° Red 3nm | 3 |
| 288014300 | TEF 2880 Nav. Light LED Simplex Half All-round 181° Green 3n | 3 |
| 288021500 | TEF 2880 Nav. Light LED Simplex Masthead 225° White 5nm 24V | 5 |
| 288001100 | TEF 2880 Nav. Light LED Simplex Addition 360° White >1nm 24V | 1 |
| 288002100 | TEF 2880 Nav. Light LED Simplex Addition 360° Red >1nm 24V | 1 |
| 288001200 | TEF 2880 Nav. Light LED Simplex All Aroun 360° White 2nm 24V | 2 |
| 288002200 | TEF 2880 Nav. Light LED Simplex All Around 360° Red 2nm 24V | 2 |
| 288004200 | TEF 2880 Nav. Light LED Simplex All Aroun 360° Green 2nm 24V | 2 |
| 288001300 | TEF 2880 B Nav LED Simplex All-round 360° White 3nm 24V | 3 |
| 288002300 | TEF 2880 Nav. Light LED Simplex All-round 360° Red 3nm 24V | 3 |
| 288004300 | TEF 2880 Nav. Light LED Simplex All-round 360° Green 3nm 24V | 3 |
| 288005200 | TEF 2880 Nav. Light LED Simplex All Round 360° Blue 2nm 24V | 2 |
| **Flashing:** | | |
| 288066210 | TEF 2880 Nav. Light LED Duplex 360° White/Red 2nm 24V | 2 |
| 288067210 | TEF 2880 Nav. Light LED Duplex 360° White/Green 2nm 24V | 2 |
| 288069210 | TEF 2880 Nav. Light LED Duplex 360° Red/Green 2nm 24V | 2 |
| 288061510 | TEF 2880 Nav. Light LED Duplex Morse/Man 360° White 5nm 24V | 5 |
| 288001210 | TEF 2880 Nav. Light LED Simplex All Round 360° White 2nm 24V | 2 |
| 288002210 | TEF 2880 Nav. Light LED Simplex All Round 360° Red 2nm 24V | 2 |
| 288004210 | TEF 2880 Nav. Light LED Simplex All Round 360° Green 2nm 24V | 2 |
| 288005210 | TEF 2880 Nav. Light LED Simplex All Round 360° Blue 2nm 24V | 2 |
| 288001510 | TEF 2880 Nav. Light LED Simplex Morse/Man 360° White 5nm 24V | 5 |

**Note to table:**

- Models may include option for single cable entry for duplex models.
- Models may be installed with option of white painted housing.