



CERTIFICATE NUMBER	23-2490533-PDA
EFFECTIVE DATE	23-Jan-2024
EXPIRY DATE	22-Jan-2029
ABS TECHNICAL OFFICE	Houston ESD - Electrical

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

R. STAHL TRANBERG AS

located at

STRANDSVINGEN 6, , STAVANGER, Norway, N-4032

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Navigation and Signal Light Control Panel
Model: TEF 2850/2870/2880/4740/4800/4900
Endorsements:
Tier: 3 - Type Approved, unit certification not required

This Product Design Assessment (PDA) Certificate remains valid until 22/Jan/2029 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Soheni Haque

Soheni Haque, Sr. Managing Principal Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

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Tier: 3 - Type Approved, unit certification not required

Product: Navigation and Signal Light Control Panel
Model: TEF 2850/2870/2880/4740/4800/4900
Endorsements:

Intended Service:
Navigation Lights for Marine and Offshore applications.

Description:
Navigation lights for safe area operations with options for Zone 2 Ex applications with 110/230 VAC or 24 V AC/DC supply voltage.
TEF 2850: Navigation Light Lantern Series for vessels 20-50 meters and over 50 meters in length.
TEF 2870: Navigation Light Lantern Series for vessels 12-20 meters and 20-50 meters in length.
TEF 2880: Navigation Light Lantern Series for vessels 20-50 meters and over 50 meters in length.

Navigation / Signal Light control panels for monitoring of Suez, Panama, ROV, Towing and other types of signal lights that needs.

TEF 4740: Signal Light Control Panel consists of up to maximum of 22 circuits to meet specific requirements. Single set of lamps. Power supply: 115/230 VAC.

TEF 4800: Navigation and Signal Light of up to maximum of 2*16 circuits to meet specific requirements. Power supply: 24 VDC.

TEF 4900: Microprocessor based Signal Light Control Panel consists of up to maximum of 61 buttons to meet specific requirements. Power supply: 24 or 115/230 VAC.

Rating:
1. Voltage: 24V DC/AC, 115/230AC
2. Degree of Protection: IP20, IP 56, IP66/67
3. Operating temperature: -30° to +55°C

Service Restriction:
Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:
1. The Tranberg Navigation and Signal Lights may be used in conjunction with other brands Navigation and Signal Light Control Panels.
2. The Tranberg Navigation and Signal Light Control Panel may also be used in conjunction with other brands Navigation and Signal Lights.
3. The manufacturer has provided a declaration about the control of or lack of Asbestos in this product.

Notes/Drawing/Documentation:
Drawing No. IECEx PRE 14.0055X, Ex Certificate, Presafe AS, Ex nR IIC T5 Gc, Revision: 1, Pages: 4
Drawing No. MED B000025U, (EU)II Module D directive 2017-306, item No. MED 6.1 COLREG 72 as amended, Annex I-14, IMO Res A694(17) IMO Res MSC 253(83), Revision: 1, Pages: 2
Drawing No. MED B000025U, (EU)II Module D directive 2017-306, item No. MED 6.1 COLREG 72 as amended, Annex I-14, IMO Res A694(17) IMO Res MSC 253(83), Revision: 1, Pages: 5
Drawing No. MEDD000006D, Annex 2014-90-EU, Revision: 1, Pages: 2
Drawing No. Presafe 14 ATEX 5436X, Ex Certificate for Navigation Light Ex nR IIC T5 Gc, Revision: 01, Pages: 3
Drawing No. TPC2304, EX certificate No. 94Y019, Revision: -, Pages: 1
Drawing No. TPC3224, MED - B certificate, Revision: -, Pages: 1
Drawing No. TPC3226, MED - D certificate, Revision: -, Pages: 1
Drawing No. 1910120 DANAK- Test report, environmental and EMC tests, 27 March 2008, Revision: m, Pages 53
Drawing No. Tranberg Test report for TEF4900, IEC 61162-1 (2010), 18th Oct 2013, B4.10, B4.11, Revision: -,

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Tier: 3 - Type Approved, unit certification not required

Pages: 6

Drawing No. TUM3085, Installation and User Manual, Navigation Light Control Panel, TFT 4720, 4722, 4730, 4732

Drawing No. TEF 2850 Navigation Light Datasheet, Revision: -, Pages: 2

Drawing No. TEF 2870 Navigation Light Datasheet, Revision: -, Pages: 2

Drawing No. TEF 4720 Navigation Light Datasheet, Revision: -, Pages: 2

Drawing No. TEF 4722 Navigation Light Datasheet, Revision: -, Pages: 2

Drawing No. TEF 4730 Navigation Light Datasheet, Revision: -, Pages: 2

Drawing No. TEF 4732 Navigation Light Datasheet, Revision: -, Pages: 2

Drawing No. TEF 4740 Signal Light Datasheet, Revision: -, Pages: 2

Drawing No. TEF 4900 Navigation Light System Datasheet, Revision: -, Pages: 2

Drawing No. 490A109270 Schematic for LED Nav. Lights, Revision: A, Pages: 2

Drawing No. 490A109692 Label for Commander Series, Revision: A, Pages: 1

Drawing No. DNV Type Approval Certificate No. TAA0000049, TEF 4900 Commander Navigation Lights Control System, Revision: 2, Pages: 3

Drawing No. DNV MED Certificate No. MEDD000006D, Revision: 5, Pages: 2

Drawing No. EU Declaration of Conformity, Revision: -, Pages: 1

Drawing No. TEF 2880 LED Navigation Light Technical Data, Revision: -, Pages: 8

Drawing No. TEF 4800 Navigation Lights Controller General Description, Revision: -, Pages: 2

Test Report no.: 122-33292-1, DANAK - Environmental and EMC tests for marine type approval of TEF4800

Navigation Lights Control System, 23 November 2023, Revision: -, Pages: 98

Test Report no.: 30157, Applica Test & Certification AS - Environmental and EMC tests for Type testing of TEF2880 series Navigation Lights, 07 August 2019, Revision: -, Pages: 80

Terms of Validity:

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STANDARDS**ABS Rules:**

2024 Rules for Conditions of Classification, Part 1, 1-1-4/7.7, 1-1-A3, 1-1-A4, which cover the following:

2024 Marine Vessel Rules: 4-8-2/11.3 and 4-9-9/Table 1

2024 Rules for Conditions of Classification, Part 1 - Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which cover the following:

2024 Mobile Offshore Units Rules: 4-3-2/13.3

National:

N/A

International:

IMO Res. MSC.253(83) (adopted on 8 October 2007)

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IEC 62923-1 (2018)
IEC 62923-2 (2018)
IEC 62288 (2021)

Government:
N/A

EUMED:
N/A

OTHERS:
N/A