



Danmark

Marine Equipment Directive **EC Type Examination Module B Certificate**

This is to certify that TÜV SÜD DANMARK ApS did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Marine Equipment Directive (2014/90/EU) requirements, under the following Implementing Regulation for the listed types of equipment

Implementing Regulation	(EU)2025/1533
Certificate Holder and Manufacturer	Ritchie Navigation 243 Oak Street Pembroke MA 02359 United States of America
EC Representative	Brunger Export Inc. Route de Soiron, 35 4860 Cornesse Belgium
Product(s)	F-83-WM
Product Sector	Navigation Equipment
Product Type	MED/4.23 Magnetic compass Class B for lifeboats and rescue boats

and on the basis of the Technical Data and information detailed in the Annex to this certificate.

M. B. Bower

Valid from: 29 April 2026

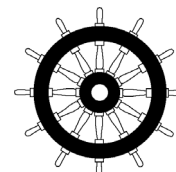
(Michael Bower)

Expiry Date: 28 April 2031

This certificate has been issued in accordance with the TÜV SÜD Testing, Certification Validation and Verification Regulations and constitutes page 1 of the combined Certificate and Annex.

The Conditions for the validity of this certificate are listed in the Annex.

For further details, related to this certification please contact BABT@tuvsud.com



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TÜV SÜD DANMARK ApS • Johanne Møllers Passage 1, 3. sal • 1799 Copenhagen V • Denmark

Annex to Marine Equipment Directive Module B Type Examination Certificate

1 Equipment Description

Class B magnetic compass for lifeboats and rescue boats.

1.1 Models

Model	Description
F-83-WM	Base model (flush mount)
F-83-C-WM	F-83-WM with connector on light wire
F-83-L-WM	F-83-WM with customer artwork on Sunshade
F-83-M-WM	F-83-WM with customer artwork on Sunshade
F-83-24-WM	24V version of F-83-WM
F-83-SR-WM	F-83-WM with alternate colour lighting
F-83-RED-WM	F-83-WM with alternate colour lighting
F-83-SRC-WM	F-83-WM with connector on light wire and alternate colour lighting
F-83W-WM	White version of the F-83-WM
F-83W-24-WM	White version of the F-83-24-WM
F-83W-C-WM	White version of the F-83-C-WM
F-83W-L-WM	White version of the F-83-L-WM
F-83W-SR-WM	White version of the F-83-SR-WM
F-83W-SRC-WM	White version of the F-83-SRC-WM
B-81-WM	Bracket Mount version of the F-83-WM
B-81-L-WM	Bracket Mount version of the F-83-L-WM
B-81W-WM	Bracket Mount version of the F-83W-WM
B-81W-L-WM	Bracket Mount version of the F-83W-L-WM
S-87-WM	Surface Mount version of the F-83-WM
S-87W-WM	Surface Mount version of the F-83W-WM
S-87-L-WM	Surface Mount version of the F-83-L-WM
S-87-RED-WM	S-87-WM with alternate colour lighting
B-81-RED-WM	B-81-WM with alternate colour lighting



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2 Specified Requirements

2.1 Implementing Regulation (EU)2025/1533 MED/4.23 Row 2 of 2

Type approval requirements	Carriage and Performance Requirements
SOLAS 74 Reg. III/4 SOLAS 74 Reg. X/3 IMO Res. MSC.36(63)-(1994 HSC Code) 13 IMO Res. MSC.97(73)-(2000 HSC Code) 13	SOLAS 74 Reg. III/34 IMO Res. MSC.48(66)-(LSA Code) IV IMO Res. MSC.48(66)-(LSA Code) V IMO Res. MSC.36(63)-(1994 HSC Code) 8 IMO Res. MSC.36(63)-(1994 HSC Code) 13 IMO Res. MSC.97(73)-(2000 HSC Code) 8 IMO Res. MSC.97(73)-(2000 HSC Code) 13
Assessed Testing Standards	
ISO 1069:1973	ISO 25862:2019 incl. A1:2024
IEC 60945:2002 incl. IEC 60945 Corr. 1:2008	-

3 Technical Documentation

3.1 Declaration of Conformity

Declaration of Conformity Master Voyager 2443-26-1 Modified 2026-01-09

3.2 User Guide

SH-0221 Rev F Modified 2026-04-02

3.3 Test Reports

3.3.1 ISO 25862:2019 incl. A1:2024

010110 issue 1.1 Dated 2001-04-17
BSH 4612/62122073/11 Dated 2011-09-14
Manufacturer Statement MBA09 Dated 2021-03-10
Statement of Manufacture F-83-WM Modified 2021-04-12

3.3.2 IEC 60945:2002 incl. IEC 60945 Corrigendum 1:2008

010110 issue 1.1 Dated 2001-04-17
BSH 4612/62122073/11 Dated 2011-09-14
Manufacturer Statement MBA09 Dated 2021-03-10
IEC 60945 Declaration F-83-WM Modified 2021-04-21
MBA_22 FN-201-WM and F-03 WM Light Testing Dated 2026-04-27

3.4 Build Status

3.4.1 Hardware

Drawing No. B-81-WM-P1 Dated 2016-04-19
Parts List F-83-WM Revision Level 1 Dated 2016-03-09

3.5 Notes

Note 1 ISO 25862:2019 incl. A1:2024 testing of a Type A2 Binnacle is not covered by this type approval.

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4 Conditions of Validity

This certificate ceases to 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 TÜV SÜD DANMARK ApS or a person appointed by TÜV SÜD DANMARK ApS to perform that role.

During the period of validity of this certificate the applicable regulations (international conventions and relevant resolutions and circulars of the IMO) and testing standards of the Commission Implementing Regulation may change, therefore the product conformity may need to be re-assessed by TÜV SÜD DANMARK ApS.

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-control phase module (D, E, or F) of the directive is fully complied with and controlled by a written inspection agreement with a notified body.

Signature:

A handwritten signature in black ink, appearing to read 'M. B. Bower'.

(Michael Bower)

Date:

29/04/2026

On behalf of TÜV SÜD DANMARK ApS