



TYPE APPROVAL CERTIFICATE
No. FPE151722CS/003

This is to certify that the product identified below satisfies the requirements of the standard quoted under "Reference standard"

<i>Description</i>	Magnetic compass
<i>Type</i>	WHITE STAR 5"
	BW1 - BW2 - BW3 - BW4
<i>Applicant</i>	RIVIERA SOCIETA' A RESPONSABILITA' LIMITATA
	GENOVA
	VIA INFERIORE RIO MAGGIORE 4 A
	16138 Genova (GE)
	ITALY
<i>Manufacturer</i>	RIVIERA SOCIETA' A RESPONSABILITA' LIMITATA
<i>Place of manufacture</i>	GENOVA
	VIA INFERIORE RIO MAGGIORE 4 A
	16138 Genova (GE)
	ITALY
<i>Reference standards</i>	Guida per il riconoscimento di Tipo Omologato delle bussole magnetiche e relative chiesuole

Issued in **Genoa** *on* **April 28, 2022. *This Certificate is valid until* **April 27, 2027****

RINA Services S.p.A.
Giovanni Carratino

This certificate consists of this page and 1 enclosure

TYPE APPROVAL CERTIFICATE

No. FPE151722CS/003

Enclosure - Page 1 of 1

WHITE STAR 5"

Product description

Hemispherical compass type;
Material of bowl: nylon/glass fibre;
Material of spherical bowl: polycarbonate;
Compass card diameter : real =81,5mm; apparent =120mm;
Number of magnets: 2;
Magnetic moment: 0,270 A.m²;
Type of liquid: SHELL SOL D 70;
Magnets for compass adjustment: no 4.

Field of application

Merchant ships of less than 150 GT and fishing vessels engaged on coastal navigation service.

Reference documents

Report no. 1999DGTO454/1.
Drawing n° 3-13/15/16/17/19/20-BW1 filed by RINA with n° 2319888.
Drawing n° 3-21/23/24/25/27/28 - BW2 filed by RINA with n° 2319889.
Drawing n° 3-51/52 - BW3 filed by RINA with n° 2319890.
Drawing n° 3-54/55 - BW4 filed by RINA with n° 2319891.
Technical spec. dated 11 July 2000.
Materials data sheets filed by RINA with n° CSST/20233;
Materials data sheets filed by RINA with n° CSST/20255.

Tests carried out

Report no. 1999DGTO454/1 edit by RINA on July 12, 2000.
Report no. 2007CS01124.
Test report n° 222041A-a filed by RINA with n° CSST/20231.
Test report n° 22-4790306765-1-1-0-PER filed by RINA with n° CSST/20234.
Test report n° VR2208201RIOF.docx filed by RINA with n° CSST/20235.
Test report n° 22-4790306765-1-1-0-PER filed by RINA with n° CSST/20236.

Limitation of use

This compass, being not provided with the correctors for the quadrantal deviation, is not suitable for installation on board ships which hull or superstructure are made in steel.

Remarks

Each item of the mass production to be fitted on vessels classed by RINA is to be previously inspected at the manufacturer workshop by a RINA Surveyor and is to be marked or labelled with the trade name and the data of the Company to whom this Certificate is addressed. The validity of this Certificate ceases in the case of amendments to the rules on the basis of which the Certificate was issued.

Genoa April 28, 2022

RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova
Tel +39 010 53851
Fax +39 010 5351000



Production Quality Assurance Certificate

CERTIFICATE Nr. PQA098622GE/003

This is to certify that RINA did undertake the examination of the equipment identified below with the criteria for the Production Quality Assurance set-up in the "Rules for Testing and Certification of Marine Materials and Equipment".

Description

Magnetic compass

Type

WHITE STAR 5"

Applicant

BW1 - BW2 - BW3 - BW4

**RIVIERA SOCIETA' A RESPONSABILITA' LIMITATA
GENOVA**

VIA INFERIORE RIO MAGGIORE 4 A
16138 Genova (GE)

ITALY

Type Approval
certificate

Number

FPE151722CS/003

Date

28/04/2022

Issued in RINA Genoa Marine
on
May 16, 2022

This Certificate is valid until
May 15, 2025

This Certificate consists of this sheet plus an attachment

This certificate is relevant to the verification of the effectiveness of the quality assurance system adopted by the Manufacturer and applied for production, inspection and testing during manufacturing and on finished products, to guarantee the required characteristics of the products covered by relevant Type Approval certificates.



Ursomando Enrico

RINA Services S.p.A.

25543

Enrico Ursomando

RINA Services S.p.A.





**ATTACHMENT TO
CERTIFICATE Nr. PQA098622GE/003**

Equipment:

**WHITE STAR 5"
BW1 - BW2 - BW3 - BW4**

Manufacturer

RIVIERA SOCIETA' A RESPONSABILITA' LIMITATA GENOVA

Place of Manufacturer

**VIA INFERIORE RIO MAGGIORE 4 A
16138 Genova (GE)
ITALY**

Technical documentation

INTERMEDIATE SCHEDULED AND UNSCHEDULED AUDITS			
Due Date	Carried out on	Surveyor's signature	Surveyor's stamp
15/05/2023	21.05.2023		 Michelino Casella Marine Surveyor RINA Services S.p.A.
15/05/2024	10.05.2024		 Michelino Casella Marine Surveyor RINA Services S.p.A. 1194

General conditions for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- d) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- e) RINA may revoke the approval in the case of modifications to requirements or conditions for the approval
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply
- g) This certificate loses its validity in case the Type Approval certificate is no more valid.

Enrico Ursomando