



## EC TYPE EXAMINATION (MODULE B) CERTIFICATE

No.	01-010605/017315
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### THIS IS TO CERTIFY:

That Croatian Register of Shipping did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with requirements of Marine Equipment Directive (MED) 96/98/EC as last amended by directive 2012/32/EU, subject to any conditions in the schedule attached hereto.

### TYPE AND DESCRIPTION OF PRODUCT

<b>Fast rescue boats</b> <b>Rigid fast rescue boat - type RB 6.5F</b>
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### ANNEX A.1 NO AND ITEM DESIGNATION

Annex A.1, Item No.A.1/1.20b Fast rescue boat - rigid
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### MANUFACTURER:

<b>MONTMONTAŽA - GREBEN d.o.o.</b> Vela Luka - CROATIA
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### REGULATIONS AND STANDARDS (in accordance with Annex A.1, Directive)

SOLAS 1974 Convention as amended, Ch. III IMO MSC/Circ. 1016 IMO MSC/Circ. 1094 IMO Resolution MSC.48(66) as amended IMO Resolution MSC.81(70) as amended
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### NOTICE:

- Further details of the product and conditions for certification are given overleaf.
- This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.
- 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.
- 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 ANNEX B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.
- In case limitations of use apply, these should be indicated of in the Schedule of Approval.

Issued by Croatian Register of Shipping, notified body number 2489.

This certificate is valid until: **2018-11-27**

Place and date: **Split, 2014-11-27**

Seal

Signature

**Marinko Popović, dipl. ing.**

# THE SCHEDULE OF APPROVAL

## 1. PRODUCT DESCRIPTION

Rigid fast rescue boat type: RB-6.5F

Main Particulars: (moulded)

Length overall: 6,85 – 7.05 m (depending on fender dimension)

Beam: 2.50 m

Depth: 1.00 m

Total height: 2,7 m

Weight of underloaded boat with fixed equipment: 1880 kg

Weight of loaded boat and equipment: 2456 kg

Hull material: FRP

Number of persons: maximum 6 persons

## 2. APPLICATION/LIMITATION OF USE

- As per requirements of regulations stated on front page of this certificate.
- Maximum capacity: 6 persons
- The period of shelf life of equipment subjected to deterioration with age is to be indicated.

## 3. DESIGN DRAWINGS AND SPECIFICATIONS

Main design appraisal drawings:

General arrangement dwg. no. 1011896-1.

Structure plan (longitudinal section, cross section, details) dwg no. 1011904-1.

Manual for Installation, Use and Maintenance dwg no. 1011915-4\_userinstr.

Other drawings as listed in approval letters 1434/TB/JM/MD/017202, 1775/TB/JM/MD/017202 and 1927/TB/JM/MD/017202.

## 4. TYPE TEST RECORDS/LABORATORY RECOGNITION STATUS

Fast rescue boat was tested under witnessing of Croatian Register of Shipping by the manufacturer in accordance with Regulations as stated on front page of this certificate as per Prototype tests report no. 1012026.

Laminate test report for No. 4968/1 and 4968/2 dated 2014-10-09.

Additional buoyancy material – type approval certificate No. K-5753 issued by Det Norske Veritas AS.

Maximum towing force: 4,61 kN (engine type NANNI INDUSTRIES T4.165)

## 5. MATERIALS OR COMPONENTS REQUIRED TO BE TYPE APPROVED OR TYPE TESTED

### 1. Propulsion engine

Manufacturer: NANNI INDUSTRIES SAS, France

Type: T4.165

Power: 121.5 kW

or any other alternative engines with similar characteristics (as weight, power, thrust) may be used subject to the Society's acceptance.

### 2. Hook with the indication of the SWL

Manufacturer: Montmontaža Greben d.o.o. Shipyard

Type: NRH2,5

SWL = 25 kN

### 3. Position indicating lights

### 4. Thermal protective aids

### 5. Pyrotechnics

### 6. Retro reflective materials

### 7. Radar reflector

### 8. Portable fire-extinguishing equipment

### 9. Compass

### 10. Other rescue equipments as listed in LSA Code chapter 4.4.8

### 11. Inherent and additional buoyancy materials are to be tested as per IMO Resolution MSC.81(70) as amended

## 6. OTHER MATERIALS AND/OR COMPONENT

- Other lifeboat equipments as listed in LSA Code chapter 4.4.8.
- Electrical components including batteries to be as per above drawings.
- Raw materials for the GRP hull:
  - Gel coat - type: NORPOL NGA X2, NGA HX3, manufacturer: REICHHOLD AS, Norway
  - Polyester Resin - type: Aropol F 207 TPA, manufacturer: Ashland Finland Oy
  - Glass Fibre Mats - type: EM1004/100/125, EM1004/150/125, EM1004/225/125, EM1004/300/125, EM1004/450/125, EM1004/600/125, manufacturer: KROSGLOSS S.A. Poland
  - Glass Fibre Woven - type: RT-600, manufacturer: KELTEKS d.o.o. Croatia
  - Buoyancy material - type: Elastopor H 1700/10, manufacturer: BASF Polyurethanes Nordic AB, Sweden
- The raws materials are to be traceable in case of compatibility problems in repair.

## 7. PRODUCTION SURVEY REQUIREMENTS

The manufacturer is allowed to affix the Mark of Conformity to equipment referred and to issue a Declaration of Conformity as long as either of the following is fulfilled:

Module D - The quality system for production and testing shall be approved by the Notified Body or,

Module E - The quality system for inspection and testing shall be approved by the Notified Body or,

Module F - Compliance of the products in this EC Type-Examination Certificate is to be verified by the Notified Body who shall also issue a Certificate of Conformity.

## 8. ONBOARD INSTALLATION AND MAINTENANCE REQUIREMENTS

As per requirements of Regulations and Standards stated on front page of the certificate and in accordance with Manual for Installation, Use and Maintenance.

## 9. MARKING AND IDENTIFICATION



*Subject to compliance with the conditions in this Schedule of Approval which forms part of certificate, and those of Articles 10.1(i) and 11 of the Directive, the Manufacturer is allowed to affix the "Mark of Conformity" to the Product described herein.*

2489/yy (yy = last two digits of year mark affixed)

The product is to be marked with name of manufacturer, type designation, dimensions and date of manufacture, according to LSA code item, 4.4.1.2.

## 10. OTHERS

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the fast rescue boat at any time, and that the manufacturer will accept responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the fast rescue boat and the conditions of this approval.

- END OF CERTIFICATE -