



## EC TYPE EXAMINATION (MODULE B)

CERTIFICATE Nr. MED158514WS

*This is to certify, that RINA, specified as Notified Body N° 0474 by the Italian "Ministero delle Infrastrutture e dei Trasporti Direzione Generale per la navigazione ed il Trasporto Marittimo ed Interno" on 25 November 1998, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Life-Save Appliances requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Directive 2012/32/EU*

<i>MED Item N°</i>	<b>A.1/1.18</b>
<i>Description</i>	<b>Rigid rescue boats</b>
<i>Type</i>	<b>JY42KR</b>
<i>Applicant</i>	<b>JIANGYIN WOLONG F.R.P BOAT CO., LTD</b> YUECHENG TOWN, JIANGYIN CITY, JIANGSU CHINA
<i>Testing standards</i>	<b>IMO MSC/Circ.1006; IMO Res. MSC 81(70) as amended</b>
<i>Reference standards</i>	<b>SOLAS Reg. III/21, III/31 and III/34, Res MSC.36(63) (1994 HSC Code), Res MSC 48(66) (LSA Code), Res MSC.97(73) (2000 HSC Code).</b>

*Issued at SHANGHAI on*  
November 17, 2014

*This Certificate is valid until*  
November 16, 2019

*This Certificate consists of this sheet plus an attachment*



**Giuseppe Zagaria**

*RINA Services S.p.A.*



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*Manufacturer*

**JIANGYIN WOLONG F.R.P BOAT CO., LTD**

*Place of Manufacturer*

YUECHENG TOWN  
JIANGYIN CITY  
JIANGSU  
CHINA

**Product description**

Model JY42KR Rescue Boat has a rigid hull made by fiber glass reinforced plastic and filled with polyurethane foam among seats, hulls to provide buoyancy.

*Main characteristics:*

Length Overall: 4.25 meters. Breadth Maximum: 1.72 meters.

Weight of the boat (Fully equipped with No. 6 persons: 82.5 Kg/Person):

(1) Four point lifting type: 995 Kg.

(2) Hook device type: 1005 Kg.

Hull material: GRP type

Color: Orange hull

*Lifting arrangement:*

(1) No 4 lifting slings fixed to No 4 eye plates located by frame 2 and 5/6.

(2) Off-Load Rescue Boat Hook device located between frames 3 & 5:

- Type: LB35MRS;

- SWL: 35KN

- Manufactured by Jiangyin Wolong F.R.P Boat Co., Ltd

*Propulsion system: out-board diesel engine and propellers of following types,*

(1) MERCURY 25 HP, Weight: 53 Kg - (Brunswick marine in EMEA)

- (Propeller -Pitch 280 mm x Dia 250 mm)

(2) TOHATSU 25 HP , Weight: 58 Kg - (Volvo Penta Central Europe Gmbh)

- (Propeller -Pitch 280 mm x Dia 250 mm)

(3) TOHATSU 15 HP , Weight: 46 Kg - (Volvo Penta Central Europe Gmbh)

- (Propeller -Pitch 235 mm x Dia 204 mm)

Fuel tank: 2 Tanks of capacity 25 liters each; located by frame 1/3.

Speed: ≥6 knots.

Towing force: 1.5 KN - (MERCURY 25 HP), 1.5 KN - (TOHATSU 25 HP), 1.3 KN - (TOHATSU 15 HP).

Righting system: Non self righting - manually uprighted by 2 persons.

Hull material: Polyester Resin, type: TM-107M, manufactured by Changzhou Huari New Material Co., Ltd; Chopped

strand mat, type: EMC450, manufactured by Taishan Fiber Glass INC.; Glass fiber Woven roving, type:

EWR400、EWR800, manufactured by Jiashan glass fiber weaving factory (Lamination description:

M450g+M450g+R400+R800+R400)

Buoyant material: rigid polyurethane foam plastic manufactured by Jiangyin Tongqi Allied Chemical Factory and Qingdao haijin polyurethanes science and technology Co., Ltd.





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**Application**

Maximum number of persons: 6 ( No. 5 seated and No. 1 on the stretcher)

**Design Assessment**

The design assessment is based on IMO Res.MSC.48(66) as amended by Res.MSC.207(81), Res.MSC.218(82), Res.MSC. 272(85), Res.MSC.293(87) and Res.MSC.320(89).

**Tests carried out**

- Test report issued by RINA on 29-30 July 2010 in accordance with Resolution MSC. 81(70) as amended by MSC.226 (82) & MSC.274(85) and MSC.48(66) LSA Code as amended by MSC 218(82) & MSC 272(85) and filed with No.. SHFP -1769 & SHFP -1770;
- FRP material Test report No. 2010-07-397 & 2010-06-M014 issued by Shanghai R&D Centre for polymer materials in accordance to MSC/Circ 1006 and filed by RINA with No.: SHFP -1771 & SHFP-7035;
- Additional Test report issued by RINA on 27, August 2014 in accordance with IMO Resolution MSC.81(70) as amended by IMO Res.MSC.321(89) & MSC.323(89) and filed with No.: SHFP-7034.

**Reference documents**

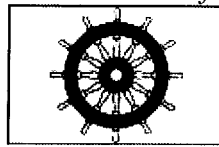
- Technical drawings and manuals approved and filed by RINA, as listed on Approval Letter No.. SHFP/2010/003111/JYL & SHFP/2010/00314/JYL.
- Drawings and documents for update according to MSC.320(89) and MSC.321(89):
  - HOOK DEVICE (FOR LIFTING BY HOOK DEVICE) - JY42KR-09(B) Approved with No.: SHFP-6572;
  - STRENGTH CALCULATION FOR HOOK DEVICE (FOR LIFTING BY HOOK DEVICE) - JY42KR-10(B) Approved with No.: SHFP-6573;
  - CALCULATION SHEET FOR HOOK FOUNDATION AND FRP CONNECTION STRENGTH (FOR LIFTING BY HOOK DEVICE) - JY42KR-11(B) Approved with No.: SHFP-6574;
  - TEST PROGRAM Approved with No.: SHFP-6693;
  - GENERAL ARRANGEMENT PLAN (FOR LIFTING BY HOOK DEVICE) - JY42KR-15(B) Approved with No.: SHFP-6576;
  - SEATING ARRANGEMENT PLAN (FOR LIFTING BY HOOK DEVICE) - JY42KR-17(B) Approved with No.: SHFP-6577;
  - STRUCTURE PLAN - JY42KR-18 Approved with No.: SHFP-6579;
  - RELEASE DEVICE ARRANGEMENT PLAN (FOR LIFTING BY HOOK DEVICE) - JY42KR-19(B) Approved with No.: SHFP-6580;
  - PAINTER RELEASE DEVICE - JY42KR-21-I Approved with No.: SHFP-6581;
  - OPERATION AND MAINTENANCE MANUAL - JY42KR-CZ Approved with No.: SHFP-6584;
  - RESET INDICATION - LB35MRS-FW Rev.0 2011-06-12 Approved with No.: SHFP-6585;
  - HOOK RELEASE INSTRUCTIONS - LB35MRS-CZ Rev.0 2011-06-12 Approved with No.: SHFP-6586;
  - TECHNICAL SPECIFICATION -JY42KR-02 Approved with No.: SHFP-6692;
  - STRUCTURE PLAN (Page 2) - JY42KR-18 Approved with No.: SHFP-6694;
  - STRUCTURE PLAN (Page 4) - JY42KR-18 Approved with No.: SHFP-6695.





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*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 a written inspection agreement with a Notified Body*



**XXXX/YY**

**"WHEELMARK FORMAT"**

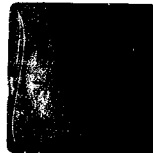
**XXXX**      *Notified Body number undertaking surveillance module*

**YY**          *Last two digits of year mark affixed*

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***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) This certificate will no be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- 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.



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**Giuseppe Zagaria**