

EC Type Examination Certificate

Notified Body 0729

This is to certify that ABS Europe Ltd., as a Notified Body under the authorization of UK MCA by Merchant Shipping Equipment Regulation, SI 1999, Number 1957 and M Notice Number 1734, as amended, did undertake the relevant type examination procedure of the product listed and same was found to be in compliance with the provisions of these Regulations and EU Directive 96/98/EC of 20 December 1996 as amended by EU Directive 2012/32/EU

ANNEX A.1 ITEM NUMBER: A.1/1.18

CERTIFICATE NUMBER: 14-SQ1164573-EC

APPLICANT: Jiangyin Wolong F.R.P. Boat Co. Ltd.

PLANT LOCATION: Jiangyin, P.R.China

PORT OFFICE: Shanghai, P.R.China

PRODUCT DESIGNATION: Rigid Rescue Boats
Type: JY45DR (4.5m Rescue Boat)

STANDARDS AND REGULATIONS: SOLAS 1974 as amended Regulation III/4, X/3, 21,31 & 34
IMO Resolution MSC.36 (63)-(1994 HSC Code) 8,
IMO Resolution MSC.48 (66) (LSA) Code Sections I, V, as amended
IMO Resolution MSC.97 (73)-(2000 HSC Code) 8,
IMO Resolution MSC.81 (70) Part 1 Section 7 as amended by IMO Resolution MSC.226 (82), MSC.274 (85) and MSC.321 (89), MSC/ Circ. 1006

THIS CERTIFICATE IS ISSUED IN COMPLIANCE WITH CONFORMITY ASSESSMENT MODULE B OF THE REGULATIONS AND DIRECTIVES LISTED ABOVE.

ISSUE DATE: 12 May 2014

EXPIRATION DATE: 18 December 2018

SIGNATURE:



S. Balakan

Should the specified regulations or standards be amended during the validity of this certificate, the products are to be re-approved prior to being placed on board vessels to which the amended regulations or standards apply.

This "Mark of Conformity" may only be affixed to the above 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 agreement with a Notified Body.

The attached document list forms part of this Certificate.

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. ABS Europe Ltd. is a Notified Body under the authorization of UK MCA by Merchant Shipping Equipment Regulation, SI 1999, No. 1957 and M Notice No. 1734, as amended. Compliance with the provisions laid down in EU Directive 96/98/EC of 20 December 1996, as amended, will be determined as governed by the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).


ECTEC (rev 3 01/10)

Certificate No.:

14-SQ1164573-EC

Entry Date:

12 May 2014

Name of Equipment/
Component Manufacturer:


Jiangyin Wolong F.R.P. Boat Co., Ltd.
Jiankang Road, Yuecheng Town,
Jiangyin City,
214404
P.R.China

Tel: +86-510-8658 3811

Fax: +86-510-8658 5755

Email: tech@jywolong.com

Website: www.jywolong.com

Equipment/Component:

Rigid Rescue Boat

Model:

JY45DR (4.5 m Rescue Boat)

Description:

Rigid Rescue Boat with 8 persons Maximum 100kg/person.

Intended Service:

Rescue Boat for Sea-going Vessels/Offshore Installations

Ratings:

L x B x D (x H):

4.50 m x 1.70 m x 0.75 m

Max. Carrying Capacity: 8 Persons

Nominal Weight

(Fully Loaded): 1,497kg (82.5kg/person) ~ 1,637 kg (100kg/person)

Empty Weight (Fully Equipped): 837kg

Release Hook

Type/ SWL: LB35MRS / 35 kN

Manufacturer: Jiangyin Wolong F.R.P. Boat Co., Ltd.

Rescue Boat construction material:

Material	Type	Manufacturer
Gel coat Resin	C138	Ashland Polyester (Kunshan) Co., Ltd.
Polyester Resin	TM-107M	Changzhou Huari New Material Co., Ltd.
Woven Roving	EWR400 EWR800	Jiashan Glass Fiber Wearing Factory
Woven Roving	EWR400 EWR800	Tiashan Fiber Glass Inc.
Chopped Strand Mat	EMC300 EMC450	Taishan Fiber Glass Inc.,
Chopped Strand Mat	EMC300 EMC450	Guangzhou Tianma Group Co., Ltd.
Buoyant Material	Polyurethane Foam Plastic	Jiangyin Tongqi Allied Chemical Factory



Ratings:**Engine Specifications:**

Engine Type	Rate of Rotation	Rated Power	Max. Towing Force	Manufacturer
380J-3	2800 rpm	20.6 kW	2600 N	Zhenjiang Siyang Diesel Engine Manufacturing Co., Ltd.
DV24RME	3600 rpm	17.6 kW	2200 N	BUKH A/S.
3JH25A	3200 rpm	18.4 kW	2600 N	Yanmar Co., Ltd.
3YM27A	3200rpm	21.3kW	2700 N	

Comments:

Approved in accordance with the requirements for Rigid Rescue Boat item A.1/1.18 of the European Union Marine Equipment Directive 96/98/EC as amended by Directive 2012/32/EU.

Type Examination undertaken at manufacturer's facility, ref. ABS Nantong Survey Report NX2450374-B dated 31 October 2013.

Each Rescue Boat is to be marked as per the requirements of the LSA Code.

Grades of materials as stated on drawings are to be delivered with certificates.

All the Lifeboat equipment that require approval in accordance with the requirements of the European Union Marine Equipment Directive 96/98/EC as amended are to be supplied with valid certificates.

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.

The "Mark of Conformity" may only be affixed to the above 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 agreement with a Notified Body.

Drawing Schedule:

Drawing No	Description
06-SQ166351-3-PDA	PRODUCT DESIGN ASSESSMENT
NX2450374-B	TYPE EXAMINATION SURVEY REPORT
Drawing List 1: (Ref. letter with task Nos.139706/148509 dated 30 April 2006 and letter with task Nos. 641311/657115 dated 2 December 2010)	
JY45DR-03	LIST OF EQUIPMENT
JY45DR-04	CALCULATION SHEET FOR WEIGHT, CENTER OF GRAVITY & STABILITY
JY45DR-07	CAPSIZE STABILITY CALCULATION SHEET FOR FLOODING CONDITIONS



Drawing Schedule (Contd.):

Drawing No	Description
JY45DR-08	HULL AND CANOPY BUILDING TECHNOLOGY
JY45DR-09	QUALITY CONTROL MANUAL
JY45DR-11-03	SEATING ARRANGEMENT
JY45DR-12	LINES PLAN
JY45DR-13	STRUCTURE FIGURE
JY45DR-14	RELEASE MECHANISM ARRANGEMENT PLAN
JY45DR-15	HOOK DEVICE
JY45DR-17	STRENGTH CALCULATION CURVE FOR HOOK DEVICE
JY45DR-17-02	CALCS SHEET FOR HOOK FOUNDATION AND FRP CONNECTION STRENGTH
JY45DR-17-02(A)	STRENGTH CALCULATION FOR LIFTING DEVICE CONNECTION
JY45DR-18	ELECTRICAL SYSTEM WIRING DIAGRAM
JY45DR-19	STEERING GEAR AND DUCT ARRANGEMENT PLAN
JY45DR-20	ENGINE, SHAFT AND PROPELLER ARRANGEMENT PLAN
JY45DR-21	STATICAL HYDRAULIC CURVE FOR THE MAIN BODY
JYWL45DR-2010-1	DOCUMENTS & DRAWINGS LIST
HK-40-FW	RESET INDICATION
HK-40-CZ(A)	HOOK RELEASE INSTRUCTIONS
JY45DR	NAME PLATE
Drawing List 2: (Ref. letter with task Nos.T1020799/T1021020 dated 26 April 2013)	
JY45DR-04-II	CALCULATION SHEET FOR WEIGHT, CENTER OF GRAVITY & STABILITY
JY45DR-05	CALCULATION SHEET FOR INTERNAL BUOYANCY
JY45DR-07-II	CAPSIZE STABILITY CALCULATION SHEET FOR FLOODING CONDITIONS
JY45DR-10	TEST PROGRAM
JY45DR-11	GENERAL ARRANGEMENT
JY45DR-11A	GENERAL ARRANGEMENT (FOR FOUR POINT LIFTING)
JY45DR-16-I	PAINTER RELEASE DEVICE
JY45DR-02	HANDLING AND MAINTENANCE MANUAL
JY45DR-06	SCANTLINGS STRENGTH CALCULATION SHEET
Drawing List 3: (Ref. letter with task No.T1069307 dated 13 September 2013)	
JY45DR-10- II	TEST PROGRAM
JY45DR-11(B)	GENERAL ARRANGEMENT
JY45DR-14(B)	RELEASE MECHANISM ARRANGEMENT PLAN
JY45DR-15(B)	HOOK DEVICE
LB35MRS-02	HOOK
JY45DR-17(B)	STRENGTH CALCULATION FOR HOOK DEVICE
JY45DR-17-02(B)	CALCS SHEET FOR HOOK FOUNDATION AND FRP CONNECTION STRENGTH
LB35MRS-FW	RESET INDICATION
LB35MRS-CZ	HOOK RELEASE INSTRUCTIONS

