EC TYPE EXAMINATION (MODULE B) CERTIFICATE

No. **01-012572/018391**

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) 2014/90/EU, subject to any conditions in the schedule attached hereto.

TYPE AND DESCRIPTION OF PRODUCT

OPEN REVERSIBLE LIFERAFT TYPE KHK-152/HSC Pack

NUMBER AND ITEM DESIGNATION (in accordance with Annex of Regulation (EU) 2017/306)

MED / 1.39 Open reversible liferafts

MANUFACTURER:

SHANGHAI YOULONG RUBBER PRODUCTS Co., Ltd.
20 Xincun Rd., Chuansha, Pudong
Shanghai 201205
People's Republic of CHINA

REGULATIONS AND STANDARDS (in accordance with Annex of Regulation (EU) 2017/306)

SOLAS 74 as amended, Reg. III/4 and Reg. X/3
LSA Code
1994 HSC Code 8, Annex 10
2000 HSC Code 8, Annex 11

NOTICE:

1. Further details of the product and conditions for certification are given overleaf.
2. 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.
3. 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.
4. 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 II of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.
5. 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: **2021-12-20**

Place and date: **Split, 2017-12-20**

Seal

Signature
Marinko Popović, dipl. ing.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

Open reversible liferaft
Max. Number of persons: 152
Weight (with HSC pack): 385 kg
Required bollard pull:
at 2 kn / 4,4 kN
at 3 kn / 8,4 kN

2. APPLICATION/LIMITATION OF USE

Maximum stowage height:18 m
The liferaft and container shall be marked with name of manufacturer, serial number, date of manufacture and all other markings in accordance with HSC Code Annex 11.
Liferaft is intended to be installed with external weak link and a hydrostatic release unit.

3. DESIGN DRAWINGS AND SPECIFICATIONS

Design instruction no. YL/QI/091005-D1152, General drawing 502-101/ A, Assembly drawing no.502-106/A,
Construction of gas chambers&gas flow direction no. 502/102/B, Floor plan no. 502-103/A and Container dimensions no. 502-104/A.

4. TYPE TEST RECORDS/LABORATORY RECOGNITION STATUS

Inflatable liferaft material test report No. 2014048
Type test report no. 102-101, rev A, dated 16.10.2017.

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

Hydrostatic release unit shall to comply with the requirements of MED 2014/90 EU.

6. OTHER MATERIALS AND/OR COMPONENT

Gas cylinders shall be of an approved type.
Components in the gas inflation system should be approved according to ISO 15738:2002.

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 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.
Production testing shall be carried out according to IMO Res. MSC 81(70) Part 2.

8. ONBOARD INSTALLATION AND MAINTENANCE REQUIREMENTS

Installation shall be performed according to manufacturer's instruction.
The liferafts are to be serviced annually at approved service stations which are authorised by the manufacturer.

9. MARKING AND IDENTIFICATION

Subject to compliance with the conditions in this Schedule of Approval which forms part of certificate, and those of Articles 9, 10 and 15 of the Directive, the Manufacturer is allowed to affix the "Mark of Conformity" to the Product described herein.

xxxx/yy

xxxx - the number of the Notified Body undertaking surveillance module (2489 in case of CRS)
yy - the last two digits of year mark affixed

10. OTHER

This approval is given with the understanding that the manufacturer will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of fitting and general maintenance of the approved equipment and of the conditions of this approval.

- END OF CERTIFICATE -