TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MERB00003YS
Revision No:
0

This Certificate is issued by DNV UK Limited based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016 as amended.

This is to certify:

That the Automatically self-righting liferafts: inflatable

with type designation(s)
RAFT-SR-6, RAFT-SR-10, RAFT-SR-15, RAFT-SR-20, and RAFT-SR-25

Issued to
Shanghai Star Rubber Products Co., Ltd.
Shanghai, **China**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **MSN 1874 Amendment 7,**
item No. UK/1.14a SOLAS 74 as amended Reg. III/4, III/26, III/ 34 and X/3, LSA Code I, IV and 1994 HSC Code 8. 2020 HSC Code 8

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2028-04-17**.

Issued at **London** on **2023-07-19**

for **DNV UK Ltd.**

DNV local unit:
Shanghai

Approval Engineer:
Tessa Biever

Approved Body No.: **0097**

Christine Mydlak-Roeder
MER Service Responsible

Maritime & Coastguard Agency
UK Approved Body Authorised by the MCA

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.
During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved Body.
"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 Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body. In case limitations of use apply, these should be indicated in the Annex.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

'RAFT-SR-6, RAFT-SR-10, RAFT-SR-15, RAFT-SR-20, and RAFT-SR-25',
throw overboard automatically self-righting inflatable liferafts.

Materials:

Item	Type	Manufacturer
Container material:	GRP	-
Buoyancy tube fabric:	XB-21 - 9850 - A	Shanghai Star Rubber Products Co., Ltd.
Exterior canopy fabric:	2 x 3-3PU	WuJiang Zhenyang weave company

Trade names: CSM, OCEAN SOLAS, SEAGO

Application/Limitation

Type	Persons [82.5 kg/ person]	Liferaft weight SOLAS A [kg]	Required bollard pull [kN]		Maximum stowage Height [m]
			2 kts	3 kts	
RAFT-SR-6	6	105	0.5	0.6	40
RAFT-SR-10	10	135	1.0	1.1	40
RAFT-SR-15	15	169	1.3	1.3	40
RAFT-SR-20	20	211	1.6	2.0	40
RAFT-SR-25	25	225	1.8	2.2	40

The liferafts shall be packed with a SOLAS A PACK.

Gas cylinders shall be of an approved type.

Components in the gas inflation system should be approved according to ISO 15738:2019.

The liferaft is intended to be installed with external weak link and a hydrostatic release unit. Float free arrangement to be checked upon installation on board.

The liferafts which have a mass above 185 kg may not be used for positions where side to side transfer is necessary.

The liferafts are to be serviced at intervals not exceeding 12 months, provided where in any case this is impracticable, the administration may extend this period to 17 months. They shall be serviced at approved service stations which are authorized by the manufacturer.

The design assessment is based on International Life-Saving Appliances (LSA) Code, IMO Res. MSC.48(66) as amended by IMO Res. MSC.218(82) and IMO Res. MSC.293(87).

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

Type Examination documentation

Test reports	Date
Prototype test reports iaw IMO MSC/Circ.980 witnessed by GL	2007-11-22 2007-12-21 2008-04-23 2011-12-15 2012-12-27
Material test report No. 2017YW057 from The National Supervision and Testing Center of Fishery Machinery and Instrument, China.	2018-06-02
Drawings	**Date**
Drawing No. 274MQ-155-00/01/02/03 Edition 2.0 (RAFT-SR-6)	September 2009
Drawing No. 274MQ-156-00/01/02/03 Edition 2.0 (RAFT-SR-10)	September 2009
Drawing No. 274MQ-157-00/01/02/03 Edition 2.0 (RAFT-SR-15)	September 2009
Drawing No. 274MQ-158-00/01/02/03 Edition 2.0 (RAFT-SR-20)	September 2009
Drawing No. 274MQ-159-00/01/02/03 Edition 2.0 (RAFT-SR-25)	September 2009

GRP/MQ-40/41/42/43-00 – Liferaft container	September 2009
Other	**Date**
Design calculation book	May 2009
Materials and equipment list	December 2011
Operational Manual	-

Tests carried out

Prototype tests and test reports in accordance with the Recommendation on Testing of Life-Saving Appliances, IMO Res. MSC 81(70) part 1, including IMO Res. MSC.226(82), MSC.295(87) and MSC.323(89), have been witnessed and evaluated and found to be in compliance.

Marking of product

The product is to be indelibly marked with name and address of manufacturer, type designation, date of manufacture and the UK Mark of Conformity (see page 1).

The marking shall comply with the LSA Code Ch. 4.2.6.3 and 4.2.7.