DNV·GL

Certificate No:
MEDB00001MM

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Open reversible liferaft

with type designation(s)
Raft R-6/15/25/30/50/65/66/66*2, HSC Pack

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

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2015/559,**
Annex A.1, item No. A.1/1.39 and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation III/4 & X/3, LSA Code and 2000 HSC Code 8

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

This Certificate is valid until **2021-10-19**.

Issued at **Hamburg** on **2016-10-20**

DNV GL local station:
Shanghai CMC

Approval Engineer:
Michael Oberländer

Notified Body
No.: **0098**

for **DNV GL SE**

Sven Dudszus
Head of Notified 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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

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Product description

Open reversible liferaft : RAFT R-6/15/25/30/50/65/66/66*2
Trade name: CSM, OCEAN SOLAS

Application/Limitation

Max. Stowage Height: 10 m

Type	Persons (82.5kg)	Weight [kg] HSCPack	Required bollard pull [kN]	
			(2 kn)	(3kn)
R-6	6	54	0,65	0,80
R-15	15	90	0,80	1,30
R-25	25	122	1,30	1,53
R-30	30	144	1,25	1.55
R-50	50	178	1,46	2,30
R-65	65	208	1,50	2,40
R-66	66	210	1,53	2,44
R-66*2	132	346	2,41	4,22

Following tests of MSC.81(70), part 1 have been omitted in accordance with HSC Code 2000 Annex 11,7.:
5.5, 5.8 regarding closing arrangements, 5.12, 5.16, 5.17.2, 5.17.10, 5.17.11, 5.17.12, 5.18 and 5.20.
The drop height in test 5.1.2 was substituted with 10m.

The liferafts are to be serviced annually at approved service stations which are authorised by the manufacturer.

Production tests are to be conducted in accordance with IMO Resolution MSC.81(70) Part 2 and recorded by the manufacturer in accordance with the approved Production Quality Assurance system for Module D of the Marine Equipment Directive 96/98/EC as amended.

Remarks:
RAFT R-25 and R-65 may be manufactured alternatively with a square container.

Type Examination documentation

Drawings: Technical file verified with ref.: 13-002242, 13-026865 and 13-058222
This certificate replaces the previous MED-B certificate 95269-14HH.

Tests carried out

Test reports: Germanischer Lloyd Shanghai of 2013-03-06, 2013-05-29 and 201608-26.
Inspection report: Shanghai Monitoring and Inspection Center for Rubber Products Quality, No. W(X) 2009-26

Marking of product

The equipment and marking of the liferaft incl. stowage container shall be in accordance with HSC Code 2000 Annex 11.