

# 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 Automatically self-righting liferafts**

with type designation(s)

**RAFT-SR-6, -10, -15, -20, -25 / throw over-board type, SOLAS type A emergency 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) 2017/306,**

**item No. MED/1.14. SOLAS 74 as amended, Regulation III/4, III/26, III/34 & X/3, LSA Code, IMO MSC/Circ.809 & 811 and 2000 HSC Code 8**

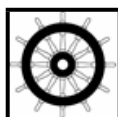
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-04-10.**

Issued at **Hamburg** on **2018-04-11**

DNV GL local station:  
**Shanghai**

Approval Engineer:  
**Michael Oberländer**



Notified Body  
No.: **0098**

for **DNV GL SE**

**Sven Dudzus**  
**Head of Notified Body**

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



## Product description

The "Raft SR-6, -10, -15, -20, -25" is a throw over board, automatically self-righting, inflatable liferaft with SOLAS type A emergency pack.

Trade names: CSM, OCEAN SOLAS

All these liferaft designs are complying with the LSA-Code as amended, including MSC.293(87).

## Application/Limitation

Max. Stowage Height: 40 m

| Type       | Persons<br>(82.5 kg each) | Weight [kg]<br>SOLAS A | Required bollard pull [kN] |       |
|------------|---------------------------|------------------------|----------------------------|-------|
|            |                           |                        | (2 kn)                     | (3kn) |
| RAFT-SR-6  | 6                         | 105                    | 0.5                        | 0.6   |
| RAFT-SR-10 | 10                        | 135                    | 1.0                        | 1.1   |
| RAFT-SR-15 | 15                        | 169                    | 1.3                        | 1.3   |
| RAFT-SR-20 | 20                        | 211                    | 1.6                        | 2.0   |
| RAFT-SR-25 | 25                        | 225                    | 1.8                        | 2.2   |

- 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 15738:2002.
- 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 are to be serviced annually, provided where in any case this is impracticable, the administration may extend this to a period of 17 months. They shall be serviced at approved service stations which are authorized 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.
- If carried on ro-ro passenger ships, these liferafts shall be fitted with a search and rescue locating device in the ratio of one search and rescue locating device for every four liferafts, in accordance with SOLAS III/26.2.5.
- The liferafts RAFT-SR-20 and RAFT-SR-25 have a mass above 185 kg and may not be used for positions where side to side transfer is necessary.

## Type Examination documentation

Drawings and technical file with ref. 12-138726 and 13-009593.

This certificate replaces the previous MED-B certificate 60225-13 HH, issued by DNV GL.

## Tests carried out

Prototype tests and test reports in accordance with the Recommendations on Testing of Life-Saving Appliances, IMO Res. MSC.81(70)Part 1, including IMO Res. MSC.218(82), MSC.226(82), MSC.295(87) and MSC.323(89), have been witnessed and found to be in compliance.

Test reports: According to MSC/Circ.980 by Germanischer Lloyd Shanghai, dated 2007-11-22, 2007-12-21, 2011-12-15 and 2012-12-27.

## Marking of product



Job Id: **344.1-008041-1**  
Certificate No: **MEDB00003YS**

The product is to be indelibly marked with the name and address of the manufacturer, type designation and date of manufacture. The marking shall comply with the LSA Code (IMO Res.MSC.48(66)) item 4.2.6.3 and 4.2.7.