

**EC-TYPE EXAMINATION  
CERTIFICATE (MODULE B)**

Certificate No:  
**MEDB00001NJ**  
Revision No:  
**1**

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 Inflatable liferafts**

with type designation(s)

**CHF (DLR) (SLR) (SCH) (KHF) -D-12, -D-15, -D-16, -D-20, -D-25, davit-launched type SOLAS A and B Pack**

Issued to

**Shanghai Cunhong Marine Lifesaving Appliance Co., Ltd.  
Shanghai, 020, China**

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2018/773,**

**item No. MED/1.12. SOLAS 74 as amended, Regulation III/4, III/13, III/21, III/26, III/31, III/34 & X/3, LSA Code, IMO MSC/Circ.811 and 2000 HSC Code 8**

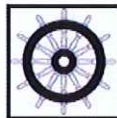
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-06-20.**

Issued at **Hamburg** on **2019-06-21**

DNV GL local station:  
**Shanghai**

Approval Engineer:  
**Peter Zell**



Notified Body  
No.: **0098**



for **DNV GL SE**  
Digitally Signed By: Mydlak-Röder, Christine  
Location: DNV GL Hamburg, Germany  
on behalf of

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Job Id: **344.1-006010-2**  
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## Product description

Davit-launched, inflatable liferafts SOLAS A and B Pack, with the following type designation:

- CHF (DLR) (SLR) (SCH) (KHF) -D-12, -D-15, -D-16, -D-20, -D-25

Trade names: CUNHONG, TOKUGAWA, SAFINDO, SAFEGARD, PORTMARINE

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

## Application/Limitation

Type	Persons (82.5 kg)	Weight [kg] SOLAS A	Weight [kg] SOLAS B	Required bollard pull [kN]		Max. Stowage Height [m]
				2 kn	3 kn	
CHF (DLR, SLR, SCH, KHF) -D-12	12	131	112	0.10	1.10	50
CHF (DLR, SLR, SCH, KHF) -D-15	15	145	117	0.10	1.20	50
CHF (DLR, SLR, SCH, KHF) -D-16	16	148	121	0.10	1.20	50
CHF (DLR, SLR, SCH, KHF) -D-20	20	176	137	0.20	1.40	50
CHF (DLR, SLR, SCH, KHF) -D-25	25	220	170	0.40	1.60	50

- The liferafts are to be serviced annually, provided where in any case this is impracticable, the administration may extend this to a period to 17 months. They shall be serviced at approved service stations which are authorized by the manufacturer.
- The liferaft shall be packed with a SOLAS A PACK or SOLAS B 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.
- Production tests are to be conducted in accordance with IMO Res. MSC.81(70), Part 2 and recorded by the manufacturer in compliance with the approved Production Quality Assurance System for Module D of the Marine Equipment Directive 96/98/EC as amended.

The liferafts of type CHF (DLR, SLR, SCH, KHF) -D-25 with SOLAS emergency pack type A have a mass of more than 185 kg and may not be used for positions where side-to-side transfer is required.

## Type Examination documentation

- Material test reports from Shanghai Institute of Rubber Products Testing Center, W(X)2006-48 dated 2006-02-10, W(X)2011-2242 and W(X)2013-791 dated 2013-04-24.  
 South-China Testing Center for Textile Industry, 2014FW04916 dated 2014-08-07.  
 The National Supervision and Testing Center of Fishery Machinery and Instrument, China 2014YW039 dated 2014-06-16.



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- Drawings and technical file for CHF models  
Approval reference no.: 11-099542, 11-153108, 14-027584, 14-088520

### **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.226(82), MSC.295(87) and MSC.323(89), have been witnessed and found to be in compliance.
- Test reports SHA 2011-11-30, 2014-06-10, 2016-11-08 and 2019-03-27.
- New drop tests for stowage height of 50m were witnessed by DNV GL Shanghai on 2019-03-07.

### **Marking of product**

The product is to be indelibly marked with name and address of the manufacturer, type designation and date of manufacture. The marking shall comply with the LSA Code (IMO Res.MSC48(66) item 4.2.6.3 and 4.2.7.