DNV·GL

Certificate No:
MEDB00001NJ

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 Inflatable liferafts

with type designation(s)
CHF (DLR) (SLR) (SCH) -D12, -D15, -D16, -D20, -D25, 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) 2015/559,**
Annex A.1, item No. A.1/1.12 and Annex B, Module B in the Directive; 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 **2021-12-21**.

Issued at **Hamburg** on **2016-12-22**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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

- CHF (DLR) (SLR) (SCH) -D12/-D15/-D16/-D20/-D25

Trade names: CUNHONG, TOKUGAWA, SAFINDO, SAFEGARD
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) -D12	12	138	115	0.10	1.10	36
CHF (DLR, SLR, SCH) -D15	15	157	127	0.10	1.20	36
CHF (DLR, SLR, SCH) -D16	16	159	127	0.10	1.20	36
CHF (DLR, SLR, SCH) -D20	20	189	149	0.20	1.40	36
CHF (DLR, SLR, SCH) -D25	25	234	184	0.40	1.60	36

- The liferafts are to be serviced annually, provided where in any case this in impracticable, the administration may extend this to a period to 17 month. 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 shall be carried out in accordance with IMO Resolution MSC.81(70) Part 2.

Type Examination documentation

This certificate replaces 36857-11 HH

- 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.
- 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 report SHA 2011-11-30, 2014-06-10, 2014-06-10 and 2016-11-08.

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.