

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)

HYF-A6/A8/A10/A12/A15/A16/A20/A25/A30/A35/D10/D12/D15/D16/D20/D25
(HYF-A = throw over board type, HYF-D = david launched type)

Issued to

**Yantai Huayang Lifesaving Equipment Manufacturing Co.,
Ltd.**

Yantai 120, 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 **2021-10-13**.

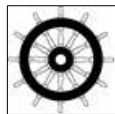
Issued at **Hamburg** on **2016-10-14**

DNV GL local station:

Qingdao

Approval Engineer:

Michael Oberländer



Notified Body
No.: **0098**

for **DNV GL SE**

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Sven Dudzus
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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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:
Certificate No: **MEDB00001GY**

Product description

Throw over board inflatable liferafts with the following type designation:

- HYF-A6/A8/A10/A12/A15/A16/A20/A25/A30/A35

Davit launched inflatable liferafts with the following type designation:

- HYF-D10/D12/D15/D16/D20/D25

Trade names: HYF, HUAYANG, LIFESAVER, OCEAN SAFETY

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	
HYF-A6	6	78	65.5	0.60	0.98	36
HYF-A8	8	85	68.5	0.64	1.04	36
HYF-A10	10	94	73	0.70	1.10	36
HYF-A12	12	107	82	0.76	1.22	36
HYF-A15	15	121	90	0.81	1.26	36
HYF-A16	16	124	91	1.00	1.44	36
HYF-A20	20	161	120	1.08	1.53	36
HYF-A25	25	175	123	1.18	1.74	36
HYF-A30	30	227	165	1.27	1.90	36
HYF-A35	35	258	185	1.46	2.16	36
HYF-D10	10	123	102	0.66	1.02	36
HYF-D12	12	128.5	104	0.72	1.18	36
HYF-D15	15	162.5	130	0.78	1.22	36
HYF-D16	16	164	131	0.96	1.36	36
HYF-D20	20	192	151	1.04	1.48	36
HYF-D25	25	206	154	1.10	1.68	36

- The liferafts HYF-A30, HYF-A35, HYFD20 and HYF-D25 with SOLAS emergency pack type A have a mass of more than 185 kg and may not be used for locations where side-to-side transferability is required.
- 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 shall be carried out in accordance with IMO Resolution MSC.81(70) Part 2.

Type Examination documentation

This certificate replaces 20300-11 HH

- Material test report from GL Qingdao dated 2011-06-14
- Drawings and technical file for HYF models from GL Qingdao dated 2011-08-23
- Approval reference no.: 14-054500

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 report from GL Qingdao dated 2011-05-06 with ref. 11-079839

Marking of product



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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.