

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment (MED) as amended by directive (EU) 2015/559. This Certificate is issued by DNV GL SE based on the notification of the German Federal Ministry of Transport, Building and Urban Development.

This is to certify:**That the Fire hoses with diameter \leq 52 mm**with type designation(s)
HYFH40, HYFH50

Issued to

Jiangsu Huayan Marine Equipment Co., Ltd.
Danyang 100, China

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

Annex A.1, item No. A.1/3.29 and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation II-2/10 & X/3 and 2000 HSC Code 7

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

This Certificate is valid until **2021-06-06**.Issued at **Hamburg** on **2016-06-07**

DNV GL local station:

for **DNV GL SE**Approval Engineer:
Michael KämpfNotified Body
No.: **0098**.....
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 Council Directive 96/98/EC, as amended.

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.

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

Non-percolating lay-flat fire hoses with following specification:

- Lining material: EPDM
- Linear material: Polyester fibre
- Sizes: DN 40 and DN 50
- Max. working pressure: 1.5 MPa (15 bar)

Application/Limitation

Approved for discharging water from the fire main by using fire hoses (SOLAS II-2/10.2.3 and 2000 HSC Code, 7.7.5).

Type Examination documentation

- Test reports issued from CSI, no. 0029\DC\EST\10\01 and no. 0029\DC\EST\10\02, each dated 2011-03-31
- Product data sheets from the manufacturer

Tests carried out

Tested according to EN 14540 (2004) incl. A.1 (2007), as superseded by EN 14540 (2014) [no difference in the scope of testing]

Marking of product

The products are to be marked according to EN 14540 (2014), section 8 and with the MED Mark of Conformity (wheel mark). This mark shall be followed by our identification number 0098 and by the last two digits of the number of the year in which the mark is affixed, e.g. 0098-16.