TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MERB00008ED
Revision No:
0

This Certificate is issued by DNV UK Limited based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016 as amended.

This is to certify:

That the Immersion suits and anti-exposure suits designed to be worn WITHOUT a lifejacket: (b) Immersion suit with inherent insulation

with type designation(s)
HYF-2-R

Issued to
Jiangsu Huayan Marine Equipment Co., Ltd.
Jiangsu, **China**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **MSN 1874 Amendment 7,**
item No. UK/1.6b. SOLAS 74 as amended, Regulation III/4, III/7, III/22, III/32, III/34 & X/3, LSA Code, 2000 HSC Code 8, IMO Res. MSC. 481(102), IMO MSC/Circ.1046, IMO MSC.1/Circ.1628

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

This Certificate is valid until **2028-12-03**.

Issued at **London** on **2024-01-05**

for **DNV UK Ltd.**

DNV local unit:
Nanjing NB & CMC

Approval Engineer:
Timo Linn

Approved Body No.: **0097**

Christine Mydlak-Röder
MER Service Responsible

Maritime & Coastguard Agency
UK Approved Body Authorised by the MCA

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.
During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved 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-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body. In case limitations of use apply, these should be indicated in the Annex.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

'HYF-2-R'
is an insulated immersion suit made of neoprene with gloves, light and buddy line. The colour of the suit is red/black.
The suit is available in the following sizes:

- M (length 150 cm - 170 cm)
- L (length 170 cm - 190 cm)
- XL (length 190 cm - 205 cm)

Main materials:

Object	Type	Material	Manufacturer
Main fabric	CR	Neoprene > 5 mm thick	Changzhou Chengjiali Polymer Materials Co., Ltd. DongGuan Nam Liong Rubber Products Co., Ltd. Zhenjiang Zhongxin Sports Goods Co., Ltd. Yibao (Fujian) Polymer Material Stock Co., Ltd
Main zipper	L- 65 cm	NBR coating	Wuxi Hengli Sealing Technology Co., Ltd. Jiaxing Kinsealed Zipper Co., Ltd.
Buoyancy material	CR	Neoprene > 5 mm thick	Changzhou Chengjiali Polymer Materials Co., Ltd. DongGuan Nam Liong Rubber Products Co., Ltd. Yibao (Fujian) Polymer Material Stock Co., Ltd

Application/Limitation

HYF-2-R is approved to be used without a lifejacket.

Position indicating light and retro-reflective materials shall be approved in accordance with the Marine Equipment Regulation and bear the MER Mark of Conformity.

The design assessment is based on IMO Res. MSC.48(66) as amended by IMO Res. MSC.207(81) and IMO Res. MSC.218(82).

Production and installation testing shall be carried out according to IMO Res. MSC.81(70), Part 2.

Type Examination documentation

Drawings	**Date**
HYF-2-R-000 V1.0	2023-04-04
Test reports	**Date**
Test report No. 20233064 from Wuhan Testing Center of Marine Life-Saving Appliances, Wuhan, China.	2023-05-04~ 2023-07-14
Other	**Date**
Materials and component list V1.0	2023-07-25
Operations manual – Instruction manual V1.0	2023-04-04

Tests carried out

Tests are documented in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC.81(70), Part 1, including IMO Res. MSC.200(81), IMO Res. MSC.226(82), IMO Res. MSC.323(89) and IMO Res. MSC.481(102) Type II.

Marking of product

The product is to be indelibly marked with name and address of the manufacturer, type designation, dimensions, date of manufacture and the MER Mark of Conformity (see page 1).

The marking shall comply with the LSA Code (IMO Res. MSC.48(66)), item 1.2.2.9.