

# 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 Lifejackets

with type designation(s)  
**HZ-AJ-II**

Issued to

**Nantong Haizhou Marine Equipment Co.,Ltd.**  
**Haimen, China**

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

Regulation **(EU) 2020/1170,**

**item No. MED/1.4. SOLAS 1974 as amended, Reg. III/4, III/7, III/22, III/34 & X3, LSA Code, 2000 HSC Code 8 and IMO MSC/Circ.922, IMO MSC.1/Circ.1304 and 1470.**

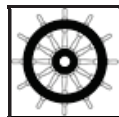
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-11-23.**

Issued at **Hamburg** on **2020-11-24**

DNV GL local station:  
**Nantong**

Approval Engineer:  
**Roland Priebe**



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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

The **HZ-AJ-II** is an inherently buoyant lifejacket for adults. It is made of a reddish canvas around buoyancy material and has the following size: 720 mm long, 130 mm thick, 300 mm wide in chest area and 350 mm wide in head area. The neck area has a reduced thickness for better flexibility. The two chest parts are closed with two nylon belts/buckles, a small one in the upper part and a big one in the lower part.

Approximately inherent buoyancy: 150 N

For further details refer to the documentation listed below under "Type Examination documentation".

## Application/Limitation

Inherently buoyant lifejackets for adults approved for persons of 43 kg or more.

Retro-reflective material and position indicating light shall be approved in accordance 2014/90/EC as amended and be "wheelmarked".

The design assessment is based on IMO Res. MCS.48(66) as amended by IMO Res. MSC.207(81), IMO Res. MSC.218(82) and IMO Res. MSC.368(93).

Production tests shall be carried out according to IMO Res. MSC.81(70), Part 2 as amended.

MSC/Circ.922 regarding thermal protective lifejackets (TP lifejackets) is not applicable for this type of lifejackets.

Each product is to be supplied with its instructions for use and maintenance.

## Type Examination documentation

This certificate is based on the previous MED-B certificate 14988-15 HH issued on 2015-11-18.

Following test reports are all issued by Wuhan Testing Center of Marine Life-saving Appliances, China:

- No. 2014068 version no. 2.0, dated 2015-08-17 (Water performance),
- No. 2014071, dated 2014-08-22 (Fabric material),
- No. 2014072, dated 2014-08-22 (Sewing thread),
- No. 2014073, dated 2014-08-22 (Structural webbing),
- No. 2014074, dated 2014-08-22 (Hardware) and
- No. 2014075, dated 2014-08-14 (Lifejacket material).

Drawing from Manufacturer:

- Assembly Illustration Diagram - Adult lifejacket HZ-AJ-II

## Tests carried out

Tests carried out in accordance with Revised Recommendations on Testing of Life-Saving Appliances, IMO Res. MSC.81(70), Part 1, including IMO Res. MSC.200(80), IMO Res. MSC.226(82), IMO Res. MSC.323(89) and IMO Res. MSC.378(93).

## Marking of product

The product is to be marked acc. to the LSA code IMO Res. MSC.48(66) 1.2.2.9 with:

- name and address of manufacturer,
- type designation,
- date of manufacturer and
- the MED Mark of Conformity (see page 1).

# QS - CERTIFICATE OF ASSESSMENT - EC (MODULE D)

Certificate No:  
**MEDD00000EZ**  
Revision No:  
**9**

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

## This is to certify:

**That the Quality System for the products**

with type designation(s) as specified in the Appendix to this Certificate

Issued to

**Nantong Haizhou Marine Equipment Co.,Ltd.  
Haimen, China**

is found to comply with the applicable requirements.

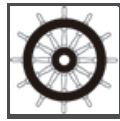
The quality system has been assessed with respect to the procedure of conformity assessment described in Annex II, Module D in the directive 2014/90/EU and regulation (EU) 2020/1170.

This Certificate is valid until **2025-11-23**.

Issued at **Hamburg** on **2021-03-02**

DNV local station:  
**Nantong**

Approval Engineer:  
**Roland Priebe**

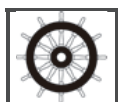


Notified Body  
No.: **0098**



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

**Christine Mydlak-Roeder**  
**Head of Notified Body**



0098/yyyy

0098: Notified Body number undertaking quality surveillance  
yyyy: The year in which the mark is affixed

The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate authorizes the manufacturer in conjunction with the valid EC Type Examination (Module B) Certificate(s) of the equipment listed before to affix the Mark of Conformity (wheelmark) to the product described herein.

This certificate loses its validity if the manufacturer makes any changes to the approved quality system, which have not been notified to, and agreed with the notified body named on this certificate. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

The Manufacturer has to apply for periodical audits to verify the maintenance and application of the quality system every 12 months.

**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.



## APPENDIX

### Item no. MED/1.4 Lifejackets

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
HZ-IJ (Infant) <sup>1</sup>	MEDB00007AB	2026-03-01	0098	N/A
HZ-IL-I 150N (Inflatable, Adult) <sup>1</sup>	MEDB00007AC	2026-03-01	0098	N/A
HZ-IL-II 275N (Inflatable, Adult) <sup>1</sup>	MEDB00007AD	2026-03-01	0098	N/A
HZ-AJ-I <sup>1</sup>	MEDB0000760	2025-11-23	0098	N/A
HZ-AJ-II <sup>1</sup>	MEDB000075Z	2025-11-23	0098	N/A
HZ-CJ <sup>1</sup>	MEDB000075Y	2025-11-23	0098	N/A

### Item no. MED/1.5b Immersion suits and anti-exposure suits designed to be worn in conjunction WITH a lifejacket: Immersion suit with inherent insulation

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
HZ-IS-I <sup>1</sup>	MEDB00003CM	2023-02-06	0098	N/A

### Item no. MED/1.6b Immersion suits and anti-exposure suits designed to be worn WITHOUT a lifejacket: (b) Immersion suit with inherent insulation

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
HZ-IS-II (M, L, XL) <sup>1</sup>	MEDB000075X	2025-11-23	0098	N/A

### Item no. MED/3.3 Fire-fighter`s outfit: protective clothing (close proximity clothing)

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
HZ-FC <sup>1</sup>	MEDB000044E	2024-04-04	0098	N/A

### Item no. MED/3.41 Emergency escape breathing devices (EEBD)

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
THHZ10 and THHZ15 <sup>1</sup>	MEDB00006EM	2025-02-25	0098	N/A

### Item no. MED/3.44 Firefighters outfit - lifeline

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
HZL-I <sup>1</sup>	MEDB00006WZ	2025-09-21	0098	N/A

### Item no. MED/3.5 Fire-fighter`s outfit: gloves

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
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HZ-FG <sup>1</sup>	MEDB000044F	2024-04-04	0098	N/A
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**Item no. MED/3.55 Dual-purpose type nozzles (spray/jet type)**

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
QD12, QD16, QD19 <sup>1</sup>	MEDB00001RZ	2021-11-20	0098	N/A

**Item no. MED/3.7 Self-contained compressed-air-operated breathing apparatus**

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
"RHZK 6/30" and "RHZK 6.8/30" <sup>1</sup>	MEDB000017J Rev.3	2026-03-01	0098	N/A
"RHZK 6/30A" and "RHZK 6.8/30A" <sup>1</sup>	MEDB000017H Rev.4	2026-03-01	0098	N/A

**Places of production**

1.Nantong Haizhou Marine Equipment Co.,Ltd., Tianbu Industry Area, Haimen, China