

# TYPE EXAMINATION CERTIFICATE – EC MODULE B

Certificate no.:  
**MEDB000099J**

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 Thermal protective aids**

with type designation(s)

**Thermal Potective Aids, Type: TPA3**

issued to

**Shanghai Yibei Safety Equipment Co. Ltd.**  
**Shanghai, China**

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

Regulation (EU) 2024/1975,

**item No. MED/1.7. SOLAS 74 as amended, Reg. III/4, III/22, III/32 & III/34, LSA Code and 2000 HSC Code 8, IMO MSC/Circ.1046, IMO MSC.1/Circ.1628**

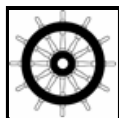
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2030-02-12**.

Issued at **Hamburg** on **2025-02-13**

DNV local unit:  
**Shanghai**

Approval Engineer:  
**Timo Linn**



Notified Body  
No.: **0098**

for **DNV SE**

**Mydlak-Röder, Christine**  
**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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 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 USD 300 000.

## Product description

'TPA 3'

A Thermal Protective Aid (TPA) composed of a safety yellow coloured thermal insulation fabric 'TPA3' reinforced by strength treads. The dimensions of the TPA are 2200 x 900 mm (L x W). The plastic zipper at the front side of the aid has a length of 700 mm. The TPA is packed in a bag.

Materials used:

| Item    | Material                                       | Manufacturer |
|---------|------------------------------------------------|--------------|
| Fabric  | Reinforced thermal insulation composite 'TPA3' |              |
| Zipper  | Plastic - 700 x 30 mm                          |              |
| Threads | Polyester high strength tread                  |              |

## Application/Limitation

The TPA shall be used in conjunction with an MED approved lifejacket.

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

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

## Type Examination documentation

| Documentation                                                                                    | Date       |
|--------------------------------------------------------------------------------------------------|------------|
| Evaluation and Test Report                                                                       | 2024-10-14 |
| Test Report No. SHIN1611060571PS, from SGS-CSTC Standards Technical Services Co., LTD., Shanghai | 2016-12-09 |
| Data sheet – No. YBMED2111092                                                                    | 2021-11-09 |
| Bill Of Material                                                                                 | 2016-10-08 |

## Tests carried out

Prototype tests and test reports in accordance with the Recommendation on Testing of Life-Saving Appliances, IMO Res.81(70) Part 1, including IMO Res. MSC.200(80), IMO Res. MSC.226(82) and IMO Res. MSC.323(89), have been witnessed and evaluated and found to be in compliance.

## Marking of product

The product is to be indelibly marked with name and address of manufacturer, type designation and date of manufacture and MED Mark of Conformity. The marking shall comply with LSA Code (IMO Res. MSC.48(66)), item 1.2.2.9.