EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00008MD

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 Penetrations through "A" class divisions: electric cable transits

with type designation(s)
JZ-UDMT Cable Transits

Issued to
Jingjiang Jinzhou Marine Equipment Co., Ltd.
JINGJIANG, 100, **China**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2023/1667,**
item No. MED/3.26a. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/1488

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

This Certificate is valid until **2028-12-27**.

Issued at **Hamburg** on **2023-12-28**

DNV local unit:
Jiangyin NB & CMC

Approval Engineer:
Izabela Misztal

Notified Body
No.: **0098**

for **DNV GL SE**

Mydlak-Röder, Christine
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004, and amended by Decision No 1/2023 dated May 26th, 2023.

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This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"JZ-UDMT Cable Transits",
consisting of either circular or rectangular 150 mm long steel coaming with thickness of at least 3 mm symmetrically welded into the bulkhead/deck. The coaming is filled with ultralight component JZ-UDMT type and is dammed at both ends of the coaming in bulkhead and at the lower end of the coaming in deck with 25 mmexpand fire retaining compound of JZ-PD20 type.

Application/Limitation

Approved for use as a cable penetration system in A-0 to A-60 class steel bulkheads and decks (ref. tables below). Other applications are subject to case-by-case approval.

For A-15 and A-30 the penetration is to be insulated as A-60, and in addition the division is to be insulated at least 200 mm around the penetration.

Table 1: Approved cable penetration in A-60 steel bulkhead.

Type	Size [mm]	Max. cable diameter [mm]	Filling ratio [%]	Coaming length [mm]	Coaming thickness [mm]	Coaming position	Penetration insulation
Round	Ø40 – Ø431	53	0 – 39	150	3	Symmetric	Partially insulated
Rectangular	106x156 – 358x1008	110	0 – 42	150	3 – 4	Symmetric	Partially insulated

Table 2: Approved cable penetration in A-60 steel deck.

Type	Size [mm]	Max. cable diameter [mm]	Filling ratio [%]	Coaming length [mm]	Coaming thickness [mm]	Coaming position	Penetration insulation
Round	Ø40 – Ø431	53	0 – 39	150	3	Symmetric	Partially insulated
Rectangular	106x156 – 358x1008	110	0 – 42	150	3 – 4	Symmetric	Partially insulated

Table 3: Approved cable penetration in A-0 steel bulkhead.

Type	Size [mm]	Max. cable diameter [mm]	Filling ratio [%]	Coaming length [mm]	Coaming thickness [mm]	Coaming position	Penetration insulation
Round	Ø40 – Ø431	53	0 – 39	150	3	Symmetric	None
Rectangular	106x156 – 358x1008	110	0 – 42	150	3 – 4	Symmetric	None

Table 4: Approved cable penetration in A-0 steel deck.

Type	Size [mm]	Max. cable diameter [mm]	Filling ratio [%]	Coaming length [mm]	Coaming thickness [mm]	Coaming position	Penetration insulation
Round	Ø40 – Ø431	53	0 – 39	150	3	Symmetric	None
Rectangular	106x156 – 358x1008	110	0 – 42	150	3 – 4	Symmetric	None

The insulation material used has to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

Each product is to be supplied with its manual for installation and use.

Type Examination documentation

Test report No. FT23079 dated 23 March 2023 from Far East Fire Testing Centre, Shanghai, China.
Test report No. FT23080 dated 23 March 2023 from Far East Fire Testing Centre, Shanghai, China.
Test report No. FT23081 dated 23 March 2023 from Far East Fire Testing Centre, Shanghai, China.
Test report No. FT23082 dated 31 March 2023 from Far East Fire Testing Centre, Shanghai, China.
Test report No. FT23083 dated 27 March 2023 from Far East Fire Testing Centre, Shanghai, China.
Test report No. FT23084 dated 31 March 2023 from Far East Fire Testing Centre, Shanghai, China.
Test report No. FT23182 dated 12 June 2023 from Far East Fire Testing Centre, Shanghai, China.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, fire-technical rating, MED Mark of Conformity and USCG approval number if applicable (see first page).

APPENDIX
Additional application/information for Watertightness/gas tightness (Not part of the Marine Equipment Directive requirement)

Product description
"JZ-UDMT Cable Transits",
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Application/Limitation
Approved for penetration in steel bulkheads or decks limited to a pressure of 2.5 bar watertightness (test pressure 3.8 bar) and 1.7 bar gas tightness (test pressure 2.5 bar) for approved ship cables.

The penetration system is not to be used for penetrating boundaries of tanks.

Type Approval documentation
Pressure test report No. JZRK-20230803 dated 3 August 2023 from manufacturer.

Tests carried out
Pressure tested with water and air according to DNV-CP-0165, September 2021.