# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
**MEDB0000BT3**
Revision no.:
**0**

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as “Forskrift om Skipsutstyr” by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

## This is to certify:

that the **Penetrations through ‘A’ class divisions: - electric cable transits**

with type designation(s)
**AP-DF Cable Transit**

issued to
**Zhuji Jinqiao Industrial Co., Ltd.**
**Zhuji**, **China**

is found to comply with the Implementing Regulation **(EU) 2025/1533** for
Item no. **MED/3.26a** (Row **1 of 1**)
according to the following requirements:
**SOLAS 74 Reg. II-2/9, IMO Res. MSC.1/Circ. 1655**

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

Date of issue: **2025-10-24**

Expiry date: **2030-10-23**

DNV local unit:
**Ningbo CMC**

Approval Engineer:
**Kristin Grønnæss Hovden**

Notified Body
no.: **0575**

for **DNV AS**

**Christine Mydlak-Röder**
**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 United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment signed 17 October 2005, and amended by Decision No 1/2023 dated August 21st, 2023.

NORWEGIAN ACCREDITATION PROD 019

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

“AP-DF Cable Transit”
consisting of either circular or rectangular 80 mm long steel coaming with thickness of at least 2 to 3 mm, symmetrically welded to the bulkhead/deck. The coaming is filled with thick layer of AP-DF caulking compound between the cables and frame (produced by Zhuji Jinqiao Industrial Co., Ltd. with density 1110 kg/m³).

## Application/Limitation

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

For A-15 and A-30 applications, the penetration shall be insulated as for A-60 and the division is to be fitted with A-60 insulation for a minimum distance of 200 mm around the penetration.

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.

Please see Appendix: Application/Limitation

## Type Examination documentation

## 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, the Mark of Conformity and USCG approval number (see first page).

# APPENDIX

## Application/Limitation

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Table 1: Approved cable penetration A-60 bulkhead

| Type | Size [mm] (L x W) / (OD) | Max. cable diameter (OD) [mm] | Filling ratio [%]* | Coaming length [mm] | Coaming thickness [mm] | Coaming position | Penetration Insulation |
|---|---|---|---|---|---|---|---|
| Rectangular | 40x40 – 920x350 | 96 | 0 – 45 | 80 | 3 | Symmetric | Partially insulated on the insulated side |
| Circular | Ø34 – Ø406 | 80 | 0 – 41 | 80 | 2 – 3 | Symmetric | Partially insulated on the insulated side |

Table 2: Approved cable penetration in A-60 deck

| Type | Size [mm] (L x W) / (OD) | Max. cable diameter (OD) [mm] | Filling ratio [%]* | Coaming length [mm] | Coaming thickness [mm] | Coaming position | Penetration insulation |
|---|---|---|---|---|---|---|---|
| Rectangular | 40x40 – 920x350 | 96 | 0 – 45 | 80 | 3 | Symmetric | Partially insulated on the underside |
| Circular | Ø34 – Ø406 | 80 | 0 – 41 | 80 | 2 – 3 | Symmetric | Partially insulated on the underside |

Table 3: Approved cable penetration in A-0 bulkhead

| Type | Size [mm] (L x W) / (OD) | Max. cable diameter (OD) [mm] | Filling ratio [%]* | Coaming length [mm] | Coaming thickness [mm] | Coaming position | Penetration insulation |
|---|---|---|---|---|---|---|---|
| Rectangular | 40x40 – 920x350 | 96 | 0 – 45 | 80 | 3 | Symmetric | None |
| Circular | Ø34 – Ø406 | 80 | 0 – 41 | 80 | 2 – 3 | Symmetric | None |

Table 4: Approved cable penetration in A-0 deck

| Type | Size [mm] (L x W) / (OD) | Max. cable diameter (OD) [mm] | Filling ratio [%]* | Coaming length [mm] | Coaming thickness [mm] | Coaming position | Penetration insulation |
|---|---|---|---|---|---|---|---|
| Rectangular | 40x40 – 920x350 | 96 | 0 – 45 | 80 | 3 | Symmetric | None |
| Circular | Ø34 – Ø406 | 80 | 0 – 41 | 80 | 2 – 3 | Symmetric | None |

*Minimum distance between cables and between cables and sleeve is 2 mm.