

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000AV3
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)

"JFN-D cable penetration system (steel bulkhead and deck)"

issued to

Shaoxing Lianyi Machinery & Electricity Manufacture Co., Ltd.
Zhuji, China

is found to comply with the Implementing Regulation (EU) 2024/1975 for
Item no. **MED/3.26a** (Row **1 of 1**)
according to the following requirements:
SOLAS 74 Reg. II-2/9

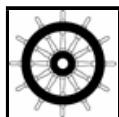
Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2025-05-13**

Expiry date: **2030-05-12**

DNV local unit:
Ningbo CMC

Approval Engineer:
Marcin Tobiasz



for **DNV AS**

Notified Body
no.: **0575**

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.



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"JFN-D cable penetration system (steel bulkhead and deck)" consists of GJ type fixtures made of steel. The GJ type fixtures are filled with 40 mm deep "NT type light fireproof stuffing" and 20 mm thick "FM type fireproof sealant" on unexposed side of the stuffing layer. The "FM type fireproof sealant" also covers the outside of the GJ type fixtures on both sides. The GJ type fixtures are pressed on to the division symmetrically.

Total thickness of the penetration is 60 mm.

Application/Limitation

Approved for use as a single or multicable penetration system in class A-60 steel bulkheads and decks as specified in an appendix. Other applications are subject to case-by-case approval.

Class A-0, A-15 and A-30 shall be insulated as class A-60 and in addition the division is to be insulated at least 200 mm around the penetration.

Restricted application: "FM type fireproof sealant" on unexposed side of penetration system.

The distance between cable and cable frame and distance between cables shall be ≥ 2 mm.

Each product is to be supplied with installation manual, use and maintenance.

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, MED Mark of Conformity and USCG approval number if applicable (see first page).

APPENDIX

Application/Limitation

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

Type	Size [mm]	Max. cable diameter (OD) [mm]	Filling ratio [%]	Fixture thickness [mm]	Penetration length [mm]	Penetration position	Penetration insulation
JFN-D	30 x 30 – 650 x 350	73	0 – 45	2	60	Symmetrical ¹⁾	Partially insulated on one side

1) GJ fixtures are installed symmetrically

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

Type	Size [mm]	Max. cable diameter (OD) [mm]	Filling ratio [%]	Fixture thickness [mm]	Penetration length [mm]	Penetration position	Penetration insulation
JFN-D	30 x 30 – 650 x 350	73	0 – 45	2	60	Symmetrical ¹⁾	Partially insulated on underside

1) GJ fixtures are installed symmetrically

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

Product description

"JFN-D cable penetration system (steel bulkhead and deck)"
consists of two GJ type fixtures made of steel. The GJ type fixtures are filled with 40 mm deep "NT type light fireproof stuffing" and 20 mm thick "FM type fireproof sealant" on unexposed side of the stuffing layer. The "FM type fireproof sealant" also covers the outside of the GJ type fixtures on both sides.
The GJ type fixtures are pressed on to the division symmetrically.

Application/Limitation

Approved for penetration in steel bulkheads or decks limited to a pressure of 1.0 bar (test pressure 1.5 bar) watertightness and 1.0 bar gastightness (test pressure 1.5 bar).

Penetration systems are not to be used for penetrating boundaries of tanks.

Each product or packing is to be supplied with its manual for installation, use and maintenance.

Type Approval documentation

Tightness test report No. SXLY2025052001 dated 20 May 2025 from manufacturer

Tests carried out

Pressure tests according to DNV-CP-0165.