



Certificate no.:  
**TAF000021J**

# TYPE APPROVAL CERTIFICATE

---

## This is to certify:

that the **Class A and B Penetration**

with type designation(s)  
**EAST-EM Type A0 and A60 cable transit**

issued to

**East Sealing Tech (Jiangsu) Co., Ltd**  
**Suzhou City, Jiangsu, China**

is found to comply with

**DNV statutory interpretations DNV-SI-0364 – SOLAS interpretations, Edition July 2021**  
**DNV rules for classification – Ships**  
**DNV offshore standards**

## Application:

**Approved for use as a multi pipe transit system in class A-0 and A-60 steel bulkhead/deck.**

**This certificate is recognized by Transport Canada.**

**Products approved by this certificate are accepted for installation on all vessels classed by DNV.**

Issued at **Høvik** on **2025-12-08**

This Certificate is valid until **2030-12-07**.

for **DNV**

DNV local unit: **Shanghai**

Approval Engineer: **Katarzyna Baczewska**

---

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.  
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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

"EAST-EM Type A0 and A60 cable transit"

is the transit consists of a square or round steel frame with a thickness of 10 mm, containing variable diameter modules, blinding modules, core rods, wedge-shaped compression devices, and partition boards. The frame is welded to the steel bulkhead or deck.

For further details, see drawings mentioned under Type Approval documentation below.

## Application/Limitation

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

Approved for use in class A-15 and A-30 when the penetration system is insulated as A-60 and in addition the division is to be insulated with A-60 insulation at least 200 mm around the penetration.

Table 1 Approved cable transit in A-60 steel bulkhead.

| Type        | Sleeve size [mm]    | Max. cable diameter (OD) [mm] | Sleeve length [mm] | Sleeve thickness [mm] | Sleeve position | Transit insulation  |
|-------------|---------------------|-------------------------------|--------------------|-----------------------|-----------------|---------------------|
| EAST-EM/A60 | 80.5x120 – 1050x606 | 98                            | 60                 | 10                    | Symmetric       | Partially insulated |
| EAST-EM/A60 | Ø63 – Ø220          | 53                            | 78                 | 10                    | Symmetric       | Partially insulated |

Table 2 Approved cable transit in A-60 steel deck.

| Type        | Sleeve size [mm]    | Max. cable diameter (OD) [mm] | Sleeve length [mm] | Sleeve thickness [mm] | Sleeve position | Transit insulation  |
|-------------|---------------------|-------------------------------|--------------------|-----------------------|-----------------|---------------------|
| EAST-EM/A60 | 80.5x120 – 1050x606 | 98                            | 60                 | 10                    | Symmetric       | Partially insulated |
| EAST-EM/A60 | Ø63 – Ø220          | 53                            | 78                 | 10                    | Symmetric       | Partially insulated |

Table 3 Approved cable transit in A-0 steel bulkhead.

| Type       | Sleeve size [mm]    | Max. cable diameter (OD) [mm] | Sleeve length [mm] | Sleeve thickness [mm] | Sleeve position | Transit insulation |
|------------|---------------------|-------------------------------|--------------------|-----------------------|-----------------|--------------------|
| EAST-EM/A0 | 80.5x120 – 1050x606 | 98                            | 60                 | 10                    | Symmetric       | None               |
| EAST-EM/A0 | Ø63 – Ø220          | 53                            | 78                 | 10                    | Symmetric       | None               |

Table 4 Approved cable transit in A-0 steel deck.

| Type       | Sleeve size [mm]    | Max. cable diameter (OD) [mm] | Sleeve length [mm] | Sleeve thickness [mm] | Sleeve position | Transit insulation |
|------------|---------------------|-------------------------------|--------------------|-----------------------|-----------------|--------------------|
| EAST-EM/A0 | 80.5x120 – 1050x606 | 98                            | 60                 | 10                    | Symmetric       | None               |
| EAST-EM/A0 | Ø63 – Ø220          | 53                            | 78                 | 10                    | Symmetric       | None               |

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

Watertightness and gastightness is not covered in this certificate.

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

## Type Approval documentation

Test report No. FT21386 dated 28 December 2021 from Far East Fire Testing Centre (FEFTC), Shanghai, China.  
Test report No. FT21387 dated 28 December 2021 from Far East Fire Testing Centre (FEFTC), Shanghai, China.  
Test report No. FT21385 dated 28 December 2021 from Far East Fire Testing Centre (FEFTC), Shanghai, China.  
Test report No. FT21384 dated 28 December 2021 from Far East Fire Testing Centre (FEFTC), Shanghai, China.

Drawing Nos from EAST-8200-00 to EAST-8500-00 dated 25 October 2021 from the manufacturer.  
Drawing Nos from EAST-8201-00 to EAST-8208-00 dated 8 September 2021 from the manufacturer.  
Drawing Nos from EAST-8301-00 to EAST-8308-00 dated 8 September 2021 from the manufacturer.

Drawing Nos from EAST-8401-00 to EAST-8408-00 dated 8 September 2021 from the manufacturer.

## Tests carried out



Job ID: **262.1-044744-1**  
Certificate no.: **TAF000021J**

Tested according to IMO 2010 FTP Code Part 3.

### **Marking of product**

The product or packing is to be marked with name of manufacturer, type designation and fire-technical rating.

### **Transport Canada Approval**

Based on the procedures laid down in the Transport Canada Publication entitled "Procedures for Approval of Life-Saving Appliances, Fire Safety Systems, Equipment and Products (TP14612)", DNV confirms that the product/s listed in this certificate is/are in accordance with Transport Canada's requirements.

### **Periodical assessment**

DNV's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in DNVCP-0338 Section 4.

### **Manufactured by:**

**East Sealing Tech (Jiangsu) Co., Ltd**

EMEs Innovation Park, Nanhua Road, Fuqiao Town, Taicang, Suzhou, Jiangsu.