

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 GL 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)

**E.I.S. (Easy Installation System)**

Issued to

**IBMO B.V.**

**Bleiswijk, Netherlands**

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

Regulation **(EU) 2018/773**,

**item No. MED/3.26a. SOLAS 74 as amended, Regulation II-2/9 and IMO 2010 FTP Code**

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

This Certificate is valid until **2023-10-11**.

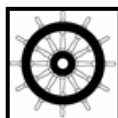
Issued at **Høvik** on **2018-10-12**

DNV GL local station:

**Rotterdam, Product Certification  
/Verification**

Approval Engineer:

**Grzegorz Wolski**



Notified Body

No.: **0575**

for **DNV GL AS**

**Roald Vårheim**

**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.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



## Product description

"E.I.S. (Easy Installation System)"

consists of a steel sleeve welded to the bulkhead/deck. The sleeve is filled with IBMO E.I.S., and the sleeve may be sealed with 20 mm IBMO Pyro Putty on each side. Insulation and installation as specified in table below.

| Use      | Size of sleeve  | Length of sleeve | Thickness of sleeve | IBMO Pyro Putty | Insulation specifications                                                                                                    | Filling rate |
|----------|-----------------|------------------|---------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------|--------------|
| Bulkhead | 500 mm x 250 mm | 180 mm           | 9.5 mm              | Yes             | The sleeve is partially insulated with an approved A-60 insulation. In addition the sleeve is insulated on the exposed side. | 40 %         |
| Deck     | 500 mm x 250 mm | 180 mm           | 9.5 mm              | Yes             | The sleeve is partially insulated with an approved A-60 insulation.                                                          | 40 %         |
| Deck     | Ø 60 mm         | 180 mm           | 2.25 mm             | Yes             | The sleeve is partially insulated with an approved A-60 insulation.                                                          | 40 %         |
| Deck     | 500 mm x 250 mm | 150 mm           | 9.5 mm              | No              | The sleeve is partially insulated with an approved A-60 insulation                                                           | 40 %         |
| Deck     | Ø 60 mm         | 150 mm           | 2.25 mm             | No              | The sleeve is partially insulated with an approved A-60 insulation                                                           | 40 %         |

## Application/Limitation

Approved for use as penetration system in Class A-0 to A-60 in steel bulkheads/decks. For A-0, 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. Other applications are subject to case-by-case approval.

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 maintenance.

## Type Examination documentation

Test report no. 2012-Efectis-R9421a/NKS/BKJX and no. 2012-Efectis-R9421b/NKS/BKJX both dated 14 May 2013 from Efectis Nederland BV, Rijswijk, Netherlands.

## Tests carried out

Tested according to IMO FTPC Part 3 and in compliance with IMO 2010 FTP Code Ch. 8.

## 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).