

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:  
**MEDB00006YG**  
Revision no.:  
**1**

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: - pipe, duct, trunk, etc. penetrations**

with type designation(s)  
**BLÜCHER Non-welded Class A Pipe Penetration**

issued to  
**BLÜCHER Metal A/S**  
**Vildbjerg, Denmark**

is found to comply with the Implementing Regulation (EU) 2025/1533 for  
Item no. **MED/3.26b** (Row 1 of 1)  
according to the following requirements:  
**SOLAS 74 Reg. II-2/9, IMO MSC.1/Circ.1276 Rev.1, IMO Res. MSC.1/Circ.1655**

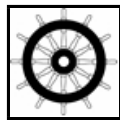
Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2026-02-20**

Expiry date: **2031-02-19**

DNV local unit:  
**Denmark CMC**

Approval Engineer:  
**Marcin Tobiasz**



Notified Body  
no.: **0575**



for **DNV AS**

*Digitally Signed By:*

**Christine Mydlak-Röder**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

“BLÜCHER Non-welded Class A Pipe Penetration”

Penetration system for BLÜCHER pipes type 868.910 composed of steel flanges fixed using bolts squeezing steel plates around the steel deck and BLÜCHER pipes welded to the flange. The penetration pipes are fitted with a safety clamps.

For further details, see drawings listed under Type Examination documentation below.

## Application/Limitation

Approved for use as pipe penetration system in class A-0, A-30 and to A-60 steel decks. Other applications are subject to case-by-case approval.

When insulation is required, the penetrations are to be insulated with PAROC Marine Wired Mat 100 (density 100 kg/m<sup>3</sup>, manufactured by PAROC) with length and thickness according to drawings S-0496-300 and S-0496-301. Alternatively, class A-0, A-15 and A-30 may be insulated as class A-60 using approved A-60 insulation with length and number of layers according to drawings S-0496-300 and S-0496-301 and in addition the division is to be insulated at least 200 mm around the penetration with A-60 insulation.

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.

Please see Appendix: Application/Limitation

## Type Examination documentation

Please see Appendix: 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, Mark of Conformity and USCG approval if applicable (see first page).

# APPENDIX

## Type Examination documentation

Certificate no.:  
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Document No.	Rev.	Title
PGB10010A	1	Test report dated 4 February 2020 from DBI, Hvidovre, Denmark
PGB10011A	1	Test report dated 6 February 2020 from DBI, Hvidovre, Denmark
S-0496-300		Drawing from the manufacturer
S-0496-301		Drawing from the manufacturer
S-0496-302		Drawing from the manufacturer
S-0496-303		Drawing from the manufacturer
S-0496-304		Drawing from the manufacturer
S-0496-305		Drawing from the manufacturer
S-0496-306		Drawing from the manufacturer
S-0496-307		Drawing from the manufacturer

# APPENDIX

## Application/Limitation

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Table 1: Approved single pipe penetration in A-60 steel deck.

Type	Penetration size (OD) [mm]	Pipe material	Pipe diameter (OD) [mm]	Penetration length [mm]	Flange thickness [mm]	Sealing type	Penetration position	Penetration Insulation
868.910	164 – 273	Steel	40 – 160	118 – 172	3 – 5	EPDM	Underside	Fully insulated <sup>1)</sup> with 450 mm to 1000 mm along pipe on underside S-0496-300 S-0496-301

1) Insulated used shall be with PAROC Marine Wired Mat 100 (density of min. 100 kg/m<sup>3</sup>) with thickness and length according to listed drawings or A-60 approved deck insulation with length and layers according to listed drawings.

Table 2: Approved single pipe penetration in A-30 steel deck.

Type	Penetration size (OD) [mm]	Pipe material	Pipe diameter (OD) [mm]	Penetration length [mm]	Flange thickness [mm]	Sealing type	Penetration position	Penetration Insulation
868.910	164 – 273	Steel	40 – 160	118 – 172	3 – 5	EPDM	Underside	Fully insulated <sup>1)</sup> with 450 mm to 600 mm along pipe on underside S-0496-300 S-0496-301

1) Insulated used shall be with PAROC Marine Wired Mat 100 (density of min. 100 kg/m<sup>3</sup>) with thickness and length according to listed drawings or A-60 approved bulkhead insulation with length and layers according to listed drawings.

Table 2: Approved single pipe penetration in A-0 steel deck.

Type	Penetration size (OD) [mm]	Pipe material	Pipe diameter (OD) [mm]	Penetration length [mm]	Flange thickness [mm]	Sealing type	Penetration position	Penetration Insulation
868.910	164 – 273	Steel	40 – 160	118 – 172	3 – 5	EPDM	Underside	None



## APPENDIX Other

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

#### **Product description**

“BLÜCHER Non-welded Class A Pipe Penetration” Penetration system for BLÜCHER pipes type 868.910 composed of steel flanges fixed using bolts squeezing steel plates around the steel deck and BLÜCHER pipes welded to the flange. The penetration pipes are fitted with a safety clamps.

#### **Application/Limitation**

Approved for penetration size in steel decks for pipe’s diameter 50 – 160 mm limited to a pressure of 0.67 bar watertightness (tested pressure 1.0 bar) and 0.02 bar gastightness (tested pressure 0.03 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**

Watertight/Airtight test report No. N141YZ6S dated 11 June 2020.

#### **Tests carried out**

Pressure tests with water and helium according to DNV-CP-0165.