

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:  
**MEDB00000MA**  
Revision no.:  
**4**

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 Class A Drain 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**

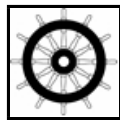
Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2025-12-22**

Expiry date: **2030-12-21**

DNV local unit:  
**Denmark CMC**

Approval Engineer:  
**Kristin Grønnæss Hovden**



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 Class A Drain Penetration”

The BLÜCHER Drain Penetration system compose of a lower part with or without an upper part. The Lower parts comes with outlet from Ø50 to Ø110 (connected to steel pipe) and with a welding flange/sleeve (with max. outer diameter of Ø200/Ø150 mm) for welding into ship construction. The penetration system may be installed with or without a water trap.

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

## Application/Limitation

Approved for use as marine drain penetration system in class A-0, A-30 and to A-60 steel decks as specified in the appendix below. Other applications are subject to case-by-case approval.

For details of penetration size, pipe size and insulation, please see appendix Application/Limitation.

The drain penetrations insulated to A-60 and A-30 may also be used in A-15 and A-0 class decks if the drain penetrations are insulated as required for A-60 and A-30 class decks respectively and in addition the division is to be insulated at least 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 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 and the Mark of Conformity and USCG approval number if applicable (see first page).

# APPENDIX

## Type Examination documentation

Certificate no.:  
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Document No.	Rev.	Title
PGA11554A		Test report dated 15 November 2019 from DBI, Hvidovre, Denmark
PGA11555A		Test report dated 19 November 2019 from DBI, Hvidovre, Denmark
PGB10011A	1	Test report dated 27 February 2020 from DBI, Hvidovre, Denmark
S-0377-305	C	Drawing from manufacturer
S-0377-323	D	Drawing from manufacturer
S-0377-324	D	Drawing from manufacturer
S-0377-325	D	Drawing from manufacturer
S-0377-327	D	Drawing from manufacturer
S-0377-340	B	Drawing from manufacturer
S-0377-341	B	Drawing from manufacturer
S-0377-342	B	Drawing from manufacturer
S-0377-343	B	Drawing from manufacturer
S-0377-344	B	Drawing from manufacturer
S-0377-350	C	Drawing from manufacturer
S-0377-351	B	Drawing from manufacturer
S-0377-352	C	Drawing from manufacturer
S-0377-355	A	Drawing from manufacturer
S-0377-356	A	Drawing from manufacturer
S-0377-357	A	Drawing from manufacturer
S-0377-358	A	Drawing from manufacturer
S-0377-359	B	Drawing from manufacturer
S-0377-369	A	Drawing from manufacturer
S-0377-370		Drawing from manufacturer

# APPENDIX

## Application/Limitation

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Table 1: Approved drain penetration in A-60 class steel deck

Type	Size	Pipe material	Pipe diameter (OD) [mm]	Drain depth [mm]	Drain thickness [mm]	Drain position	Drain insulation <sup>1)</sup>
470 with water trap	50 – 75	Steel	50 – 75	106 – 385	1.0 – 1.5	Underside	Fully insulated + 450 mm along pipe on underside (S-0377-305)
470 with water trap	110	Steel	110	106 – 385	1.0 – 1.5	Underside	Fully insulated + 600 mm along pipe on underside <sup>2)</sup> (S-0377-305)

- 1) Insulation used shall be PAROC Marine Wired Mat 100 (density 100 kg/m<sup>3</sup>, manufactured by PAROC) with thickness and length according to listed drawings or A-60 approved deck insulation with length according to listed drawings.
- 2) The water traps 503.000.110 M and 503.001.110 installed in drain penetration of dimension 110 mm may be fully insulation + 450 mm along pipe on underside.

Table 2: Approved drain penetration in A-30 class steel deck

Type	Size	Pipe material	Pipe diameter (OD) [mm]	Drain depth [mm]	Drain thickness [mm]	Drain position	Drain insulation <sup>1)</sup>
470 with water trap	50 – 110	Steel	50 – 110	106 – 385	1.0 – 1.5	Underside	Fully insulated + 450 mm along pipe on underside (S-0377-305)
470 without water trap	50 – 75	Steel	50 – 75	106 – 385	1.0 – 1.5	Underside	Fully insulated + 450 mm along pipe on underside (S-0377-355)
470 without water trap	110	Steel	110	106 – 385	1.0 – 1.5	Underside	Fully insulated + 600 mm along pipe on underside (S-0377-355)

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

Table 3: Approved drain penetration in A-0 class steel deck

Type	Size	Pipe material	Pipe diameter (OD) [mm]	Drain depth [mm]	Drain thickness [mm]	Drain position	Drain insulation <sup>1)</sup>
470 with water trap	50 – 110	Steel	50 – 110	106 – 385	1.0 – 1.5	Underside	Fully insulated + 450 mm along pipe on underside <sup>3)</sup> (S-0377-305)
470 without water trap <sup>2)</sup>	50 – 110	Steel	50 – 110	106 – 385	1.0 – 1.5	Underside	None (S-0377-355)

- 1) Insulation used shall be PAROC Marine Wired Mat 100 (density 100 kg/m<sup>3</sup>, manufactured by PAROC) with thickness and length according to listed drawings or A-60 approved deck insulation with length according to listed drawings.
- 2) Only circle gratings directly installed on drains can be used.
- 3) Deck to be additionally insulated 200 mm around the drain penetration for water traps 503.000.110 M and 503.001.110 installed in drain penetration of dimension 50 – 75 mm.