



**Certificate number:** 03456/10 BV

**File number:** ACM 171/0202/001

**Product code:** 2262H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

www.veristar.com

## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*  
**BLÜCHER Metal A/S**  
 Vibbjerg - DENMARK

*for the type of product*  
**DRAINS AND SCUPPERS**  
 BLÜCHER® Drains and Scuppers

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 17 Nov 2030**

**For Bureau Veritas Marine & Offshore,**

At BV FREDERICIA, on 17 Nov 2025,

Jesper JENSEN

***This certificate was created electronically and is valid without signature***



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <https://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=qe8a2wzfqf>

BV Mod. Ad.E 530 June 2017

This certificate consists of 4 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION

#### **BLÜCHER® Marine drains**

##### 1.1 - Technical description

<ul style="list-style-type: none"> <li>- Series 470 for stainless steel deck</li> <li>- Vertical or horizontal outlet</li> <li>- With welding sleeve or welding flange or non-welded penetration</li> <li>- With or without water traps</li> </ul>	<ul style="list-style-type: none"> <li>- Series 475 for stainless steel deck</li> <li>- Side outlet</li> <li>- With welding sleeve or welding flange or non-welded penetration</li> </ul>	<ul style="list-style-type: none"> <li>- Series 480 for aluminium deck</li> <li>- Vertical or horizontal outlet</li> <li>- With cylindrical and rectangular strainers</li> </ul>
<ul style="list-style-type: none"> <li>- Series 480.150 for steel deck</li> <li>- Side outlet</li> <li>- Vacuum drain</li> </ul>	<ul style="list-style-type: none"> <li>- Series 491 for cabin drain</li> <li>- Side outlet</li> <li>- With or without removable water trap</li> </ul>	

##### 1.2 - BLÜCHER products

#### **Lower parts**

Type	Outlet Dia. (mm)	Design
470.000.050 / 075 / 110 S	50, 75, 110	Vertical / with welding sleeve
470.000.060 / 076 / 089 / 114 S	60.3, 76.1, 88.9, 114.3	Vertical / with welding sleeve, outlet pipe for welding
470.200.050 / 075 / 110 S	50, 75, 110	Vertical / with welding flange
470.900.050 / 075 / 110 S	50, 75, 110	Vertical / non-welded
475.000.050 / 075 S	50, 75	Horizontal / with welding sleeve
475.000.060 / 076 / 089 / 114 S	60.3, 76.1, 88.9, 114.3	Horizontal / with welding sleeve, outlet pipe for welding
475.100.050 S	50	Horizontal / with welding sleeve / high model
475.200.050 / 075 S	50, 75	Horizontal / with welding flange
475.900.050 / 075 S	50, 75	Horizontal / non-welded
480.200.050 / 075 / 110 S	50, 75, 110	Vertical / with bi-metal flange / aluminium deck
485.200.050 / 075 S	50, 75	Horizontal / with bi-metal flange / aluminium deck
491.200.050 S	50	Horizontal / without removable trap
491.200.050 VS	50	Horizontal / with removable trap

#### **Upper parts**

Type	Outlet Dia. (mm)	Design
471.300.110 S	110	Vertical / with side inlets / for tiled and wooden floors
471.310.110 S	110	Vertical / with side inlets / for tiled and wooden floors
472.300.110 S	110	Vertical / for tiled and wooden floors
472.310.110	110	Vertical / for tiled and wooden floors
472.320.110 S	110	Vertical / for resin floors
473.300.110 S	110	Vertical / for vinyl floors
473.301.110 S	110	Vertical / for vinyl floors

**Accessories**

Type	Outlet Dia.	Design
474.300.110 S	135 mm	Grating circle vienna with supporting ring for water trap
502.025.075 S	75 mm	Water trap for cabin drain
502.050.110 MS	108 mm	Removable two-part water trap
502.052.110 CRS	108 mm	Removable water trap with CR sealing ring
503.000.110 CR	110 mm	Removable multi water trap
503.001.110	110 mm	Removable multi water trap
505.032.050 S	1-1/4"	Bottle water trap
505.040.050 S	1-1/2"	
525.032.050 S	5/4"	P-water trap
525.040.050 S	1 1/2"	
525.050.050 S	2"	
525.090.050 / 075 / 110 / 125 S	50, 75, 110, 125 mm	P-water trap 87,5 °
525.180.050 / 075 / 110 S	50, 75, 110 mm	S-water trap
610.100.430 S	82 x 82	Grating square
610.155.421 / 426 / 427 / 428 / 429 / 521	140 x 140	Grating square
611.300.001 S	110 mm	Extension pipe
620.135.021 / 028 S	135 mm	Grating circle

**1.3 - Material**

- Stainless steel AISI 304 or AISI 316L

- Lip sealing ring for pipes EPDM (-35 °C / +100 °C), NBR (-30 °C / +80 °C), FPM (-25 °C / +200 °C)

*When other choices of materials are used per manufacturer's recommendations, the BV agreement is to be obtained.*

**2. DOCUMENTS AND DRAWINGS**

- BLÜCHER Marine - Product catalogue N° 25094 dated 01/2025

*No departure from the above documents shall be made without the prior consent of the Society. The manufacturer must inform the Society of any modification or changes to these documents and drawings.*

**3. TEST REPORTS**

Not applicable.

**4. APPLICATION / LIMITATION**

4.1 - The stainless steel ships drain may be used for:

- Sanitary installation located above the freeboard deck and in enclosed spaces below freeboard deck (including machinery rooms) on board ship's classed with the Society.

- Outside drainage (scuppers which are located on weather deck or balconies).

4.2 - The installation on board is to be carried out in compliance with manufacturer's instruction and Bureau Veritas Rules.

## **5. PRODUCTION SURVEY REQUIREMENTS**

5.1 - The products are to be supplied by **BLÜCHER Metal A/S** in compliance with the type described in this certificate and in compliance with the requirements stated on the front page of this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note *NR 320* and as such does not require a BV product certificate.

5.3 - **BLÜCHER Metal A/S** has to make the necessary arrangements to have its works recognized by Bureau Veritas in compliance with the requirements of *NR 320* for HBV products.

5.4 For information **BLÜCHER Metal A/S** has declared to Bureau Veritas the following production site:

**BLÜCHER Metal A/S:**

**Pugdalvej 1**

**DK-7480 Vildbjerg**

**DENMARK**

## **6. MARKING OF PRODUCT**

All Blücher floor drains have triple three digit type numbers:

- Product type
- Plan size
- Outlet pipe diameter (mm)

## **7. OTHERS**

It is **BLÜCHER Metal A/S**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

*This certificate supersedes Type Approval Certificate N° 03456/H0 BV issued by the Society*

**\*\*\* END OF CERTIFICATE \*\*\***