

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00000MA
Revision No:
1

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2014/93/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom 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 requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.26b and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/9, IMO MSC/Circ.1276 and IMO 2010 FTP Code

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

This Certificate is valid until **2021-03-13**.

Issued at **Høvik** on **2016-03-14**

DNV GL local station:
Aalborg

Approval Engineer:
Tessa Bieber



Notified Body
No.: **0575**

for **DNV GL AS**



Digitally Signed By: Hoff, Øyvind
Location: DNV GL Høvik, Norway
Signing Date: 30.03.2016, on behalf of

Vidar Dolonen
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 Council Directive 96/98/EC, as amended.

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.

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.



Job Id: **344.1-000332-19**
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Product description

"Blücher Class A Drain Penetration"

system composed of a lower part and/or an upper part, welded into a flange/sleeve, which are welded to a deck.

When insulation is required the lower part is to be insulated with approved insulation (e.g. Rockwool Marine Wire Mat 105, 50 mm, density 100 kg/m³) according to drawing S-0377-305 Rev A.

Applications/Limitations

Approved for use as a marine drain system in class A-0 to A-60 deck. 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 use.

Type Examination documentation

Test reports Nos. : GH01/1576.1 dated 11 December 2001, GH01.42.1 dated 8 August 2001, GH05/4523.1 and GH05/4524.1 dated 20 December 2005, all from TÜV Brandversuchshaus, Hamburg, Germany.

Test reports Nos.: PG12302 and PG 12303 dated 27 January 2011, from DBI, Denmark.

Assesment No.: PH13644 dated 25 May 2011 and PHA10685A dated 02 July 2015, both from DBI, Denmark.

Drawings Nos.: S-0377-305 Rev. A (insulation) and S-0377-323 rev. B, -324 rev. B, -325 rev. B, -327 rev. B, -340, -341, -342, -343, -344, -350, -351 & -352, from Blücher Metal A/S.

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 of manufacturer, type designation, fire-technical rating, Mark of Conformity and USCG approval if applicable (see page 1).