



DET NORSKE VERITAS

EC TYPE-EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2009/26/EC, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

CERTIFICATE NO. **MED-B-6914**

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

Manufacturer
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 FTP Code

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

Høvik, 2011-06-10
for Det Norske Veritas AS




This Certificate is valid until
2016-06-10


Eivind Mykland
Head of Department

Notified Body No.: **0575**

DNV local office:
Aalborg


Rolf Emilsen
Surveyor



The Certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this Certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended. The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.



Certificate No.: MED-B-6914
Item No.: A1/3.26b
Job Id.: 344.1-000332-10

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 from TÜV Brandversuchshaus, Hamburg, Germany.

Test reports Nos. PG12302 and PG 12303 dated 27 January 2011 and Assesment No. PH13644 dated 25 May 2011 fro DBI, Denmark.

Drawings Nos. S-0377-305 Rev. A (insulation) and S-0377-323/324/325/327 all Rev. A from Blücher Metal A/S.

Tested according to IMO FTPC Part 3 (IMO Res. A.754(18)).

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 below).

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.

USCG Approval

An 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.

