DNV·GL

Certificate No:
MEDB000016W

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive (EU) 2015/559, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. 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 PIPE PENETRATION (SI SEALING)

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 **2021-05-06**.

Issued at **Høvik** on **2016-07-07**

DNV GL local station:
Aalborg

Approval Engineer:
Piotr Orzechowski

Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

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Product description

"Blücher Class A Pipe Penetration (SI Sealing)"
Penetration system for Blücher pipes type 866 (ϕ40-200), 868 (ϕ40-110), 870 (ϕ40-110), 871 (ϕ40-110) and 872 (ϕ40-110), composed of steel sleeves/scuppers of length 100 mm and thickness 5 mm welded to the bulkhead/deck and Blücher pipes welded to the sleeve.
Pipes to be insulated with approved insulation (e.g. Paroc Wired Mat 100 or Rockwool Marine Wire Mat 105) according to drawings S-0377-300 Rev. A, 308 Rev. B, 301 Rev. A, 330, 302 Rev. A, 331, 303, 304, 332

Application/Limitation

Approved for use as a pipe penetration system in class A-0 to A-60 in bulkheads and decks. 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.

Watertightness and gastightness is not covered in this certificate.

The penetration system is generally not to be used for penetrating boundaries of tanks.

Each product is to be supplied with its manual for installation and maintenance.

Type Examination documentation

Test report Nos.:

- GH01/1576.1 dated 11 December 2001
- GV01/1577.1 dated 11 December 2001
- GH02/1754.1 dated 18 February 2002
- Test reports Nos. GH01.36.1, GH01.36.1F,GH01.42.1 dated 8 August 2001
- GV01.54.1 dated 9 August 2001,
- GV01/1316.1 dated 12 October 2001
- GH01317.1 dated 16 October 2001
- Test reports No. GH05/4523.1 and GH05/4524.1 dated 20 December
  all from TÜV Brandversuchshaus, Hamburg, Germany.

- PG11600, Serial No. 10557 dated 17 May 2006 from DIFT, Denmark.
- PG12302, Serial No. 12829 and PG12303, Serial No. 12841 both dated 27 January 2011
- Assessment report No. PH13466 dated 2 March 2011
  all from DIFT, Denmark.

Drawing Nos. S-0377-300 Rev. A, 308 Rev. B, 301 Rev. A, 330, 302 Rev. A, 331, 303, 304, 332 and S-0377-310 Rev. B, 311 Rev. A, 312 Rev. B, 313 Rev. B, 314 Rev. A, 315 Rev. A, 316 Rev. B, 317 Rev. A, 318 Rev. A, 319 Rev. A, 333 Rev. A, 320, 321, 322 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, MED Mark of Conformity and USCG approval number if applicable.