

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 GL 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 GROUP PENETRATION TYPE 490**

Issued to  
**Blücher Metal A/S**  
**Vildbjerg, Midtjylland, Denmark**

is found to comply with the requirements in the following Regulations/Standards:  
Regulation **(EU) 2019/1397**,  
**item No. MED/3.26b. SOLAS 74 as amended, Regulation II-2/9, IMO MSC.1/Circ.1276, IMO 2010 FTP Code and IMO MSC.1/1488**

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

This Certificate is valid until **2025-02-23**.

Issued at **Høvik** on **2020-02-24**

DNV GL local station:  
**Denmark CMC**

Approval Engineer:  
**Tessa Bieber**



Notified Body  
No.: **0575**



for **DNV GL AS**  
Digitally Signed By: Hoff, Øyvind  
Location: DNV GL Høvik, Norway  
on behalf of

**Roald Vårheim**  
**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 1/2019 dated February 22nd, 2019.

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 GL 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Job Id: **344.1-000332-41**  
Certificate No: **MEDB000065J**

## **Product description**

"Blücher Group Penetration Type 490"

Group penetration system for Blücher standard pipes (Ø50-Ø75 mm), SI sealings, thick walls sleeves (2 x Ø50 mm and 1 x Ø25 mm), drains scupper lower part, upper part with water trap and Blücher standard pipes or flexible rubber pipes on unexposed side.

Thick walled sleeves can be installed with welded steel pipes or fire approved plugs.  
Sleeves must be closed if not used.

When insulation is required the lower part and pipes are to be insulated with MED approved insulation (e.g. Paroc Wired Mat 100).

All penetrations are fitted to a steel plate and welded to deck.

For details see drawings mentioned under Type Examination documentation.

## **Application/Limitation**

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

Insulation:

If the pipes in the sleeves require longer insulation than specified in drawing S-0396-402, the pipe insulation must be extended to the length required for the pipes in the sleeves (thickness after 600 mm standard insulation must be in accordance with the guidelines for the supplier of the pipes in the sleeves)

If the pipes in the sleeves require thicker insulation, insulation of higher density or any other requirements deviating from what is specified in drawing S-0396-402, it will be considered as a case by case approval.

The insulation material and any external pipe penetration system used have 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 No. PG11982, Serial No.11978 and PG12024, Serial No. 11981 both dated 4 September 2009 from DBI, Denmark.

Drawings Nos. S-0396-402 (insulation) and S-0396-400 Rev. B and S-0396-401\_A 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 and address of manufacturer, type designation, fire-technical rating, Mark of Conformity and USCG approval (see first page).