

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 the Kingdom of Norway.

This is to certify:

That the "B" Class divisions, fire integrity

with type designation(s)

B-15 toilet hatch and release button

Issued to

Jets Vacuum AS
Hareid, Norway

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2017/306,**

item No. MED/3.11b. SOLAS 74 as amended, Regulation II-2.3.4 & II-2/9 and IMO 2010 FTP Code

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

This Certificate is valid until **2022-12-20.**

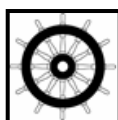
Issued at **Høvik** on **2017-12-21**

DNV GL local station:

Ulsteinvik

Approval Engineer:

Synnøve Bolstad Eri



Notified Body
No.: **0575**

for **DNV GL AS**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Product description

"B-15 toilet hatch and release button"

the toilet hatch is fitted in cut-out in B-15 wall. The toilet hatch is composed of an insulation core made from two layers of 25 mm thick insulation of type "ISOVER UltimateMarine Slab UseaProtect Slab 76" with nominal density 76 kg/m³ (manufactured by SAINT-GOBAIN-ISOVER G+H AG). On the unexposed side, the insulation is covered by 1.5 mm thick steel sheet which is fixed to the wall panel by 6 screws of size 4.8 x 14 mm. On the exposed side, the insulation is covered by a 1.5 mm thick steel sheet fixed to the wall panel by 6 nuts.

Max. size of wall panel opening for toilet hatch:	230 mm x 320 mm (w x h)
Max. size of toilet hatch:	261 mm x 388 mm (w x h)

The toilet hatch is fitted with:

- 1 x Ø50 steel drain pipe of min length 100 mm
- 6 x Ø6 steel tube of min. length 60 mm
- 3 x Ø10 steel tubes of min. length 83 mm
- 1 x ½ inch steel tube of min. length 80 mm
- Toilets of type Jets for wall mounted installations consisting of porcelain bowl and accessories (manufactured by Jets), mounted on the division by two bolts of size M16 and with two 40 x 4 mm steel L-profiles (U-profile or square tube of same dimensions and material is acceptable). Weight of toilet is approx. 20 kg.
- Jets VPC Valve attached on unexposed side

All pipes/tubes are welded to the steel backplate.

The wall panel may be fitted with:

- Release button placed above the toilet hatch, fitted with intumescent material of type "ROKU strip" and "Kerafix FXL 200". Max. size of opening on exposed side is Ø35.

For further information see drawings listed in Type Examination Documentation below.

Application/Limitation

Approved for use as an integrated part of a vertical fire retarding division of class B-15.

Restricted application: Fire from toilet side.

Approved for installation in the tested wall type "K600/25 B15" from Isolamin AB. Installation in other wall panels may be approved case-by-case. Wall panel has to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

The wall panel cut-out shall not cross the boundary of a joint between two wall panels.

The structural integrity and thermal integrity shall be maintained after fitting the toilet into the wall panel. The arrangement is subject for approval in each case.

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

Type Examination documentation

Test report no. DMT-DO-53-062 dated 19 January 2017 from DMT, Germany. (panel 4)

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, fire-technical rating, MED Mark of Conformity and USCG approval number if applicable (see page 1).