

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 Fire Doors

with type designation(s)
WMD B-15 Double Leaf hinged door

Issued to

Antti-Teollisuus Oy
Kanunki, Finland

is found to comply with the requirements in the following Regulations/Standards:
Regulation (EU) 2017/306,
item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511

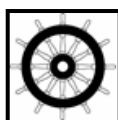
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-11-22**.

Issued at **Høvik** on **2017-11-23**

DNV GL local station:
Turku

Approval Engineer:
Tessa Biever



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"WMD B-15 Double Leaf hinged door"

is a double leaf hinged door composed of one active and one inactive door leaf.

Door leaf A (inactive leaf) and door leaf B (active leaf) are both composed of 0.7 mm steel sheets on each side of an insulating core of 40 mm mineral wool type 'Paroc Marine Slab 160' (manufactured by Paroc Group Oy). The steel sheets (ref. drawing no. D910444 Rev. A dated 2017-01-23) may be covered by a liner/foil. The insulating core is glued to the steel sheets. In the upper edge reinforcement sheets of 1.5 x 120 x 900 mm are provided on both sides of the leaf. The doorleaf is fixed with 3 steel hinges to the 50 mm thick door frame. Door leaf B is provided with a door lock. The top panel is composed of 1,5 mm steel sheet on each side of an insulating core of 3 layers of 15 mm mineral wool (Paroc Marine Slab 220 manufactured by Paroc Group Oy).

Thickness of door leaf A and B: 42 mm

The door frame is bolted to the bulkhead with 4.8 x 19.6 mm bolts with maximum spacing 480 mm. The door frame may be welded to the bulkhead.

For further details see Type Examination documentation below.

Application/Limitation

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

Max. clear opening:	2000 mm x 2100 mm (w x h)
Max. size of door leaf A:	1015 mm x 2111 mm (w x h)
Max. size of door leaf B:	1015 mm x 2111 mm (w x h)

The insulation and adhesive materials used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity. This requirement may also be applicable for surface materials, (including liner/foil above) used, if required by relevant rules.

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

Type Examination documentation

Test Report No. 668-17T2MU-IMO dated 2017-09-11 from TUV EESTI, Finland.

Drawing Nos.:

- D911410 Rev. 0 dated 2017-04-20
- D910423 Rev. 0 dated 2017-04-24
- D910424 Rev. 0 dated 2017-01-23
- D910426 Rev. 0 dated 2017-01-23
- D910437 Rev. 0 dated 2017-01-23
- D910438 Rev. A dated 2017-04-26
- D910442 Rev. 0 dated 2017-04-26
- D910443 Rev. A dated 2017-04-26
- D910444 Rev. A dated 2017-01-23
- D910449 Rev. 0 dated 2017-05-03
- D910450 Rev. 0 dated 2017-05-03 (2 sheets)
- D910451 Rev. 0 dated 2017-05-03
- D910452 Rev. 0 dated 2017-05-03

all from the manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.



Job Id: **344.1-001908-21**
Certificate No: **MEDB00002ZF**

Marking of product

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