EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00008T9

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 AS under the authority of the Government of Norway.

This is to certify:

that the Fire Doors

with type designation(s)
1223-A15 Fire Doors

issued to
AdvanTec Manufacturing Canada, Inc.
Chilliwack, BC, Canada

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2023/1667,**
item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511, IMO MSC.1/Circ.1319

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

This Certificate is valid until **2029-04-15**.

Issued at **Høvik** on **2024-04-16**

DNV local unit:
Vancouver

Approval Engineer:
Helge Bjørnarå

Notified Body
No.: **0575**

for **DNV AS**

Mydlak-Röder, Christine
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 1/2023 dated August 21st, 2023.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

"1223-A15 Fire Doors",
is a single leaf hinged door with single handle opening. The door is composed of frame, one door blade, locking arrangement and sealing materials. The door leaf is constructed of 6.4 mm steel panel insulated with 30 mm SeaRox SL 740 rockwool (density 45 kg/m^3, manufactured by Rockwool). The door leaf is stiffened by two horizontal flat bars 31.8 mm x 8 mm and closed by 3 mm steel back profile with height of 130 mm supported by vertical C-profile.

Total door leaf thickness: 139.4 mm.

The door leaf is supported by two steel hinges and the leaf is closed to the door frame by means of 3 locking points. An intumescent strip SEALBFIRE (manufactured by NEDYS) with cross-section 30 mm x 2 mm is fitted along the whole perimeter between the leaf and the frame.

The door frame is made of 8 mm steel plate fixed to the bulkhead by means of welding.

The door may be fitted with 22.5 mm glass window RF 60 (manufactured by GLASTRÖSCH). FIRESTOP 700 protection material (manufactured by Dow) is fitted around the whole perimeter of the glass.

For further details, see drawing listed under Type Examination documentation.

Application/Limitation

The door is approved for installation in steel bulkheads of class A-15. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Max. size of door leaf:	958.6 mm x 1908.6 mm (W x H)
Max. size of door clear opening:	900 mm x 1850 mm (W x H)
Max. size of window clear opening:	Ø 250 mm

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the MED Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

Note that this is a fire safety certificate which only covers fire technical properties (i.e. does not cover strength evaluations related to watertightness, weathertightness, etc.).

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

Type Examination documentation

Test report No. 059801-003-a dated 17 March 2017 from Tecnalia Research & Innovation, Azpeitia, Spain.

Drawing No. 1223-A15 Rev.1 dated 5 April 2024 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

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

USCG approval limitations

The approval is limited to fire doors without windows and doors with total window area of 645 cm², or less, in each door leaf. For larger windows, USCG shall be contacted.