



EC TYPE EXAMINATION (MODULE B)

CERTIFICATE No. MED235118CS/004

This is to certify that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2019/1397.

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|----------------------------|--|
| <i>MED Item N°</i> | MED/3.16 |
| <i>USCG Category N°</i> | 164.136 |
| <i>Description</i> | Fire doors |
| <i>Type</i> | VITTORIA-26 |
| <i>Applicant</i> | MECCANICA MARIANI SRL VIA PIAN DI CELLE. 51 05010 San Venanzo (TR) ITALY |
| <i>Testing standards</i> | IMO Res. MSC.307(88)-(2010 FTP Code) |
| <i>Reference standards</i> | Chap. II-2 of SOLAS 74 Convention, as amended, RINA Rules for the certification of Marine Equipment |

Issued in Genoa on
November 4, 2019

This Certificate is valid until
May 2, 2023

This Certificate consists of this sheet plus an attachment

Enrico Cabella
RINA Services S.p.A.

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Manufacturer

MECCANICA MARIANI SRL

Place of Manufacturer

VIA PIAN DI CELLE. 51
05010 San Venanzo (TR)
ITALY

Product description

Single leaf hinged door with maximum clear light of 900x1900 mm (WxH) and having upper radiused corners with radius of 151 mm. The leaf, having thickness of 89.5 mm and maximum dimensions of 988x1988 mm (WxH) is composed of a steel plate 3 mm thick having the edges bended on the rabbet and of a steel sheet 2 mm thick, fitted in the opposite side. Between the two sheets is fitted the insulating material composed, of two layers of material type PROMAGUARD having, each, thickness of 10 mm and density of 240 kg/m³ and one layer of mineral wool having thickness of 60 mm and density of 100 kg/m³ named ROCKWOOL SEAROX SL620. The PROMAGUARD is fixed to the steel sheets having thickness of 2 mm and the SEAROX SL 620 to the steel plate 3 mm thick, by means of steel pins welded, respectively, with density of 12 and 6 per m². Inside the leaf are fitted horizontal, vertical, and transversal stiffeners composed of steel tubulars, having dimensions of 40x30 mm and thickness of 2 mm welded to the steel plate having thickness of 3 mm. The leaf may be fitted with a window having maximum clear light of 300x400 mm; the glass, type CONTRAFLAM MARINE A60 (manufacturer Sain Gobain), having thickness of 27 mm, is composed of four glasses and, in between, three thermoexpanding gel layers. The window frame is composed of steel profiles bolted to the leaf with M6 bolts fitted with pitch ranging from 86 up to 88 mm. Between the frame and the glass compound gaskets type Texil, having dimensions of 20x20 mm, are fitted; between the glass edges and the frame one layer of PROMAGUARD, 6 mm thick, is fitted and the glass is sealed by means of silicone type SIKAFIRE. The leaf is equipped with two lever closing devices; one that acts on 2 points on the side opposite to the hinges, is actuated by and handle whereas the other that acts on three points on the hinges side, is actuated by a clevis. The door frame is composed of a carbon steel angular having dimensions of 100x75x7 mm, bolted to the bulkhead by means of M16 bolts (pitch from 152 up to 500 mm), that makes the closure tight with the gasket fitted in the leaf bended edge. The leaf may be fitted, on the upper side, with external door check. The door is fitted, on the lower side, with removable coaming, having height of 250 mm, composed of two steel plate, 5 mm thick each, and internal stiffeners, having the same thickness, fitted with pitch of 125 and 159 mm. The coaming is fitted with internal transversal plate, having thickness of 5 mm, and with M8 screws, fitted with pitch of 294 mm, that fix the same to the coaming sustaining plate, having thickness of 20 mm, fitted in the lower side. The coaming, on the upper and side opposite to the hinges, is fitted with profile having height of 40 mm, on the opposite, with a plate, 7 mm thick and, on the lateral sides, with angular having dimensions of 100x75x7 mm, bolted to the bulkhead by means of M16 bolts (pitch of 175 up to 189 mm); the plate and the profiles makes the closure tight with the gasket fitted in the leaf bended edge. The coaming is insulated, on both sides, by means of one layer of the same mineral wool fixed by means of steel pins welded with pitch of 370 mm. The door may be installed also to an aluminium bulkhead.



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Field of application

Fire resistant A-60 Class single leaf hinged door. This Class is confirmed also with the door closed only by means of the lever closing device that acts on 2 points on the side opposite to the hinges.

In case of doors in compliance to the "Agreement between the European Community and the United States of America", the present certificate is valid at the following conditions:

- doors without windows or with total window area no more than 645 cm² in each door leaf
- maximum door size tested
- door used with a fire tested frame design

Reference documents

Officina Meccanica Mariani drawings No. B-6261-900-26 dated 19 September 2017 approved on 3 May 2018 with endorsement No. LABS-1638.

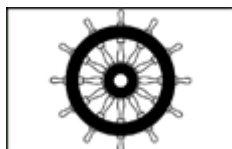
Tests carried out

Tests as per RINA Test Laboratory Report No. 2017CS013567/3 issued on 3 May 2018 according to IMO 2010 FTP Code Part. 3.

This certificate annuls and replaces the certificate No. MED235118CS/002 dated 28 September 2018 due to mention of the additional requirements indicated on the "Agreement between the European Community and the United States of America"

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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 control phase module (D, E or F) of Annex II of the Directive is fully complied with a written inspection agreement with a Notified Body



XXXX/YYYY

"WHEELMARK FORMAT"

XXXX Notified Body number undertaking surveillance module

YY Last two digits of year mark affixed

USCG Approval

This product has been assigned a U.S. Coast Guard module B number (*USCG number: 164.136/EC0474*) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" as amended by Decision N. 1/2018 signed on 18th February 2019.

The manufacturer is allowed to affix the U.S. Coast Guard approval number to the above equipment subject to the authorization of the Notified Body undertaking the surveillance module.

General conditions for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) This certificate will no be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.



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