



EC TYPE EXAMINATION (MODULE B)

CERTIFICATE No. MED356717CS/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.

<i>MED Item N°</i>	MED/3.16
<i>USCG Category N°</i>	164.136
<i>Description</i>	Fire doors
<i>Type</i>	VITTORIA-41
<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) - IMO MSC.1/Circ. 1319
<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
March 11, 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 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 a 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, welded or bolted to the bulkhead by means of M16 bolts (pitch from 152 up to 486 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.



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Field of application

Fire resistant A-60 Class single leaf hinged door in compliance with IMO MSC.1/Circ. 1319 dated 11 June 2009. In this case the dimensions relevant to the height and with of the door may be increased of 15% provided that the surface area is not increased of more than 10%. 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-6261-900-41 dated 6 February 2018 approved on 23 February 2018 with endorsement No. LABS-1612.

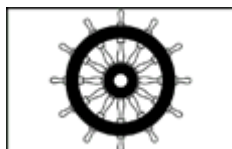
Tests carried out

Tests as per RINA Test Laboratory Report No. 2017CS013567/2 issued on 23 February 2018 according to IMO 2010 FTP Code Part. 3 and to IMO MSC.1/Circ. 1319 dated 11 June 2009.

This certificate annuls and replaces the certificate No. MED356717CS/002 dated 12 March 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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