



TYPE APPROVAL CERTIFICATE
No. LAB119520CS

This is to certify that the product identified below is in compliance with the regulations herewith specified.

| | |
|-----------------------------|--|
| <i>Description</i> | Hatch fitted on deck |
| <i>Type</i> | PORTELLO VULCANO 600 |
| <i>Applicant</i> | MECCANICA MARIANI SRL VIA PIAN DI CELLE. 51 05010 San Venanzo (TR) ITALY |
| <i>Manufacturer</i> | MECCANICA MARIANI SRL |
| <i>Place of manufacture</i> | VIA PIAN DI CELLE. 51 05010 San Venanzo (TR) ITALY |
| <i>Reference standards</i> | Chapter 4, Part C of RINA Rules - Part 3 of 2010 FTP CODE (IMO Res. MSC. 307(88)) |

Issued in Genoa on July 31, 2020. This Certificate is valid until July 30, 2025

RINA Services S.p.A.

Enrico Cabella

This certificate consists of this page and 1 enclosure

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PORTELLO VULCANO 600

Product description

Hinged hatch fitted on stiffened deck with two longitudinal stiffeners having dimensions of 100x70x8 mm and length of 1725 mm and two transversal stiffeners having the same dimensions but length of 868 mm, welded around hatch to grant structural restoration of the deck. Hatch, having clear opening size of 600 mm x 600 mm, is composed, moving from the side exposed to the fire, of a stainless steel plate 2 mm thick, and of a stainless steel plate 5 mm thick on the other side. In the leaf inside the insulating material compound is composed of one layer of non-combustible material type PROMAGUARD 10 mm thick and density of 240 kg/m³ fitted on the steel plate 2 mm thick, a void space, one layer of mineral wool having thickness of 30 mm and density of 100 kgm³ fitted on the steel plate 5 mm thick. Other layer of mineral wool having thickness of 60 mm and density of 100 kgm³ to protect frame and flange on the exposed side, held in place with steel pins, is fitted. The hatch frame is composed of a stainless steel profile 3 mm thick welded to a stainless steel flange of 8 mm thick and fixed to the deck by means of steel screws type M10x40 with pitch of 80 mm. The hatch closure is made tight with a gasket fitted in the bended edge on the rabbet, which is shielded with a intumescent strip fitted on the perimetral edge leaf. The hatch opening system is secured by means of two hinges and two pistons while the closing system, fitted inside the leaf, acts on 4 closure points by means of one central handle.

Field of application

Fire resistant A-60 Class hinged hatch fitted on steel decks (maximum hydrostatic head 0.5 bar) in compliance with IMO MSC.1/Circ. 1319 dated 11 June 2009. In this case the dimensions relevant to the length and width of the hatch may be increased of 15% provided that the surface area is not increased of more than 10%.

Reference documents

Meccanica Mariani Srl drawing No. F-0000-900-F1-136 dated 14 February 2020 approved on 31 July 2020 with endorsement No. LABS-2045.

Tests carried out

Tests as per RINA Test Laboratory report No. 2020CS011195 issued on 31 July 2020 according to IMO 2010 FTP Code Part 3 and to IMO MSC.1/Circ. 1319 dated 11 June 2009 and Hydrostatic Test as per Report N.2020RM01292 issued on 14 July 2020.

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 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.

Genoa July 31, 2020

File Allegato/Attached file