



EC TYPE EXAMINATION (MODULE B)

CERTIFICATE No. MED368218CS

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) 2018/773.

<i>MED Item N°</i>	MED/3.22
<i>USCG Category N°</i>	164.139
<i>Description</i>	Fire dampers
<i>Type</i>	FIRE DAMPERS IS OL1 - IS OL2
<i>Applicant</i>	ISOL.ME.CAR. S.R.L. VIA DEI BAGNI NUOVA 5 34074 Monfalcone (GO) 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
December 14, 2018

This Certificate is valid until
December 13, 2023

This Certificate consists of this sheet plus an attachment

Enrico Cabella

RINA Services S.p.A.

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**ATTACHMENT TO
CERTIFICATE No. MED368218CS**

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Manufacturer

ISOL.ME.CAR. S.R.L.

Place of Manufacturer

VIA GRAZIA DELEDDA 19
34079 Staranzano (GO)
ITALY

Product description

Fire dampers having maximum size of 1000x1000 mm (WxH) (Type ISOL 1) and size greater to 1000x1000 up to 2000x1000 mm (WxH) (Type ISOL 2). The damper frame is composed of stainless steel plate or carbon steel plate, having thickness of 3 mm whereas the blades, having height from 194 up to of 240 mm, are composed of an hollow profile made by two stainless steel sheets or carbon steel sheets, 2 mm thick. The blades are filled with one layer of ceramic fiber (certified non combustible in compliance with IMO FTP Code), having thickness of 20 mm and density of 96 kg/m³. The dampers are fitted with an actuator having minimum torque of 12 NM. The dampers Type ISOL 2 are fitted with a vertical mullion composed of an U shaped stainless steel or carbon steel profile, 3 mm thick and having dimensions of 60x60 mm, fitted, on both sides, with an V shaped stainless steel or carbon steel profile, 3 mm thick, filled with ceramic fiber. The A-60 Fire dampers are insulated with one layer of mineral wool (certified non combustible in compliance with IMO FTP Code) having density of 100 kg/m³ and thickness of 60 mm. The mineral wool panels, fixed by means of steel pins and washers, are also applied, on the coaming, for a minimum length of 875 mm.

Field of application

Fire resistant A-0 and A-60 Class fire dampers fitted on bulkheads and on decks.

Reference documents

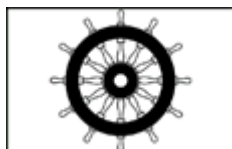
ISOL.ME.CAR. Srl drawings No. 001/18 and 003/18 dated 27 April 2018, No. 005/18, No. 007/18, 004/18, 006/18, 008/18, 010/18, 011/18, 009/18 dated 28 September 2018, R001/18 and R002/18 dated 3 December 2018 approved on 4 July 2018, 10 July 2018, 23 November 2018, 29 November 2018 and 14 december 2018 respectively with Nos. LABS-1666, LABS-1669, LABS-1769, LABS-1770, LABS-1771, LABS-1772, LABS-1773, LABS-1776, LABS-177, LABS-1774, LABS-1787 and LABS-1788.

Tests carried out

Tests as per RINA Test Laboratory Reports No. 2018CS011646/1 dated 4 July 2018, No. 2018CS011646/3 dated 10 July 2018, Nos. 2018CS013268/1 - /2 - /3 and /4 dated 23 November 2018, Nos. 2018CS013682/1 -/2 - /3 and /4 dated 29 November 2018 issued according to IMO 2010 FTP Code Part. 3 - Appendix 2 A.II.

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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: 164.139/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" signed February 27th, 2004.

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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