



EC TYPE EXAMINATION (MODULE B)

CERTIFICATE No. MED185417CS/002

This is to certify that RINA Services S.p.A. 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 (EU) 2017/306.

<i>MED Item N°</i>	MED/3.13
<i>USCG Category N°</i>	164.109
<i>Description</i>	Non-combustible materials
<i>Type</i>	BTU BLOCK - FLEXIBLE
<i>Applicant</i>	THERMAL CERAMICS ITALIANA S.R.L. VIA DELLE ROGGE 6 26841 Casalpusterlengo (LO) ITALY
<i>Testing standards</i>	IMO Res. MSC.307(88)-(2010 FTP Code)
<i>Reference standards</i>	Chap. II-2 and X of SOLAS 74 Convention, as amended, RINA Rules for the certification of Marine Equipment

Issued in Genoa on
June 14, 2017

This Certificate is valid until
March 7, 2022

This Certificate consists of this sheet plus an attachment

Enrico Cabella
RINA Services S.p.A.

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**ATTACHMENT TO
CERTIFICATE No. MED185417CS/002**

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Manufacturer

THERMAL CERAMICS ITALIANA S.R.L.

Place of Manufacturer

VIA DELLE ROGGE 6
26841 Casalpusterlengo (LO)
ITALY

Product description

Microporous panel.

- Nominal density (kg/m³) $288 \pm 10\%$
- Nominal thickness range (mm) $12.5 \div 37.5$
- Maximum organic content 1.4%

Fields of application

As non combustible material.

Tests carried out

Tests as per RINA Test Laboratory reports No. 2011CS014130/1 dated 2 February 2012 and No. 2011CS014130/2 dated 8 February 2012 issued according to:

- IMO Res. A.799(19) (Test method ISO 1182:1990)
- UNI EN 13820:2004

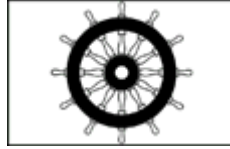
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The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production control phase module (D, E or F) of Annex II of the Directive is fully complied with a written inspection agreement with a Notified Body



XXXX/YY

"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: 164.109/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.

Enrico Cabella

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