



MARINE DIVISION

Certificate number: 38095/A0 EC

File number: ACI 1000/227/021

Annex A1 Item number: A.1/3.11b

USCG Module B number:  
164.108 / EC0062

*This certificate is not valid when presented without the  
full attached schedule composed of 7 sections*

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Notified Body 0062 - MARINE EQUIPMENT DIRECTIVE 96/98/EC

## EC TYPE EXAMINATION CERTIFICATE

*as per Module B of European Union Council Directive 96/98/EC on marine equipment  
as amended by Commission Directive 2012/32/EU*

*This certificate is issued to*

**MAPAC PANEL**  
MACHECOUL - FRANCE

*for the type of product*

**"B" CLASS DIVISIONS, BULKHEAD PANELS, FIRE INTEGRITY**  
B-15 class bulkhead type "MAPAC 25T ECO"

### Requirements:

SOLAS 74 convention as amended, Regulations II-2/9, II-2/3.4  
IMO MSC.307(88) (2010 FTP Code)  
IMO MSC/Circ.1120

*This certificate is issued under the French Maritime Authority to attest that BUREAU VERITAS did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Council Directive 96/98/EC of 20 December 1996 as amended.*


**This certificate will expire on: 10 Jun 2019**

**For BUREAU VERITAS Notified Body 0062,**

At BV NANTES, on 10 Jun 2014,

Joel Gaurin



**This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark ) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex B of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.**

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. BUREAU VERITAS is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## **THE SCHEDULE OF APPROVAL**

### **1. PRODUCT DESCRIPTION :**

#### **B-15 Class bulkheads type "MAPAC 25T ECO"**

Composed of mineral wool panels type "PAN MECA 361" (Rockwool, density 168 kg/m<sup>3</sup>), 23.6 mm thick faced with electro-galvanized steel sheets, 0.45 mm on exposed side and 0.6 mm on unexposed side. On each vertical edge, the mineral wool is replaced by a layer of the same mineral wool "PAN MECA 361" of dimensions 25 x 25 mm. Adhesive "UK 8103" (Loctite, 250 g/m<sup>2</sup>) or "TECHNOMELT PUR 4663" (Henkel, 100 g/m<sup>2</sup>) is used between steel sheets and mineral wool for bonding.

Upper part connection: type "U" profiles, 55 x 25 x 1 mm, with a gap of 28 mm.

Lower part connection: type "U" profiles, 20 x 25 x 1 mm

Vertical joints between panels: type "H-25" profiles, 34 mm (0.75\*2 mm thick) x 15 mm (0.75 mm thick), with visible faces on unexposed side to fire.

Maximum panel size: 600 x 2472 x 25 mm

Total thickness of bulkhead: 25 mm.

### **2. DOCUMENTS AND DRAWINGS :**

As per Manufacturer's specifications given in test report and technical assessment in § 3.

### **3. TEST REPORTS :**

3.1 - Test report n°14-V-025 dated January 14th, 2014 as per IMO 2010 FTP Code Annex 1, Part 3, issued by Efectis, France.

3.2 - Technical Assessment n°14/1 dated March 13th, 2014, issued by Efectis, France.

### **4. APPLICATION / LIMITATION :**

4.1 - The use is restricted to application where fire hazard has been identified as being from the 0.45 mm thick steel face side only. Visible faces of H-profiles are on unexposed side.

4.2 - Approval also valid for panel size up to 600 x 3000 x 25 mm (length x height x thickness).

4.3 - The fitting aboard to be the same as used for the test.

4.4 - The following component(s) shall have to comply with the requirements of MED 96/98/EC, as amended, and be wheelmarked :

- the insulating material "PAN MECA 361" (Rockwool, density 168 kg/m<sup>3</sup>)
- the adhesive materials "TECHNOMELT PUR 4663" (Henkel, 100 g/m<sup>2</sup>) and bi-component "UK 8103" (Loctite, 250 g/m<sup>2</sup>)
- any added finish surface material(s).

### **5. PRODUCTION SURVEY REQUIREMENTS :**

5.1 - For information concerning the production phase modules, **MAPAC** has declared that the product may be manufactured at the following manufacturing places :

**MAPAC**  
53 rue Marcel Brunelière  
44270 Machecoul

5.2 - This certificate alone does not allow the applicant to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module D "Production Quality Assurance" or E "Product Quality Assurance" or F "Product Verification" of Annex B of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

**6. MARKING OF PRODUCT :**

6.1 - Markings as per MED 96/98/EC :

☒ YYYY/XX where YYYY is the number of the Notified Body undertaking surveillance module (when BV, 0062) and where XX are the last two digits of year mark affixed.

6.2 - In pursuance of the EU/US MRA+, and in accordance with the Council Decision 2004/425/EC of 21 April 2004, the product(s) marked as per MED 96/98/EC may be marked with the USCG conformity marking as authorized by the Notified Body undertaking surveillance module.

**7. OTHERS :**

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the materials at any time and that the applicant will accept full responsibility for informing shipbuilders, shipowners and their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

\*\*\* END OF CERTIFICATE \*\*\*