



Certificate number: 22588/A0 EC

File number: ACI 1000/216/006

Annex A1 Item number: A.1/3.11a

USCG Module B number:  
164.107 / 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 2008/67/EC*

*This certificate is issued to*

**BD PRODUCTS LTD**

Bury St. Edmunds - UNITED KINGDOM

*for the type of product*

**"A" CLASS DIVISIONS, BULKHEADS, FIRE INTEGRITY**

A30 class Light Weight Panel Bulkhead, type FO-A0/A30 and CIS-50

### Requirements:

SOLAS 74 convention as amended, Regulations II-2/9, II-2/3.2  
IMO Resolution MSC.61(67) - (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: 16 Mar 2015**

**For BUREAU VERITAS Notified Body 0062,**

At BV LONDON, on 16 Mar 2010,

Spencer Yule



**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](http://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 :**

#### **FO-A0/A30 Class Panel Bulkhead**

Each panel is made up of 2 galvanised steel sheets 0.6 mm thick and 1 layer of mineral wool "Rockwool Marine Slab T150" (density 150 kg/m<sup>3</sup>) 50 mm thick. Mineral wool boards are glued to steel sheets with "Macroplast UR 7226 Adhesive" with an application rate of 150g/m<sup>2</sup>. Panels are jointed together with Omega profiles (15mm space) joining system fixed by screw. The top, bottom and ending insertion systems consist of U-galvanised profiles.

Tested panel dimensions: 600 x 3000 x 52 mm (width x length x thickness).

#### **CIS-50 Class Panel Bulkhead**

Each panel is made up of 2 galvanised steel sheets 0.6 mm thick and 1 layer of mineral wool "Rockwool Marine 60-250" (density 150 kg/m<sup>3</sup>) 50 mm thick. Mineral wool boards are glued to steel sheets with "Macroplast UR 7226 Adhesive" with an application rate of 150g/m<sup>2</sup>. Panels are jointed together with clips (10mm space) joining system. The top, bottom and ending insertion systems consist of U-galvanised profiles.

Tested panel dimensions: 575 x 3000 x 52 mm (width x length x thickness).

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

As per the Manufacturer's drawing n° GA\_FO\_FT\_2009 (for FO-A0/A30 panel) and drawing n° GA\_FT\_24\_9\_08 (for CIS-50 panel) and reports n°252030 (for FO-A0/A30 panel) and n°247188(for CIS-50 panel) issued by BRE, UK.

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

3.1 - Test report n° 252030 dated May 28th, 2009 as per IMO FTPC, Part 3 issued by the Building Research Establishment Ltd, UK for FO-A0/A30 panel.

3.1 - Test report n° 247188 dated November 17th, 2008 as per IMO FTP Code, Annex 1, Part 3 [testing standard: IMO Resolution A.754(18)] issued by the Building Research Establishment Ltd, UK for CIS-50 panel.

#### **Non combustible material :**

3.2 - Rockwool Marine Slab 60-250 kg/m<sup>3</sup> test report PF12804, Serial number 11528, dated on 2008-03-25, as per IMO FTPC Part 1 from Danish Institute of Fire and Security Technology.

3.3 - Adhesive "Macroplast UR 7226" (application rate 150 g/m<sup>2</sup>) manufactured by Henkel Teroson GmbH. Test reports n° TN06/4878.2 dated December 22th, 2005 and SN02/1994.1 dated May 13th, 2002 and TUV assessment letter dated July 10th, 2002 as per IMO FTPC Part 2 & 5 from TUV.

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

4.1 - This bulkhead shall extend from deck to deck.

4.2 - Installation in such divisions of fire doors, penetrations, windows, etc. shall be submitted on a case by case basis (reference IMO MSC/Circ 1004).

4.3 - May be used as A-30 class light-weight division on board SOLAS vessels in accommodation and service spaces provided that no load bearing division is required. Not to be used as main vertical bulkhead, nor staircases boundaries (reference IMO MSC/Circ 1005). Installation details of the connection with decks shall be submitted on a case by case basis.

4.4 - The division has only been evaluated with respect to its fire technical properties.

4.5 - Flame spread, smoke characteristics and calorific value of the lining to be as per Rule requirements.

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

4.7 - The product shall comply with the requirements of MED 96/98/EC as amended, to the satisfaction of the ship's flag administration for acceptance of the divisions on board the concerned ship.

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

This certificate 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 :**

- conformity mark and number of the Notified Body undertaking surveillance module (where BV, 0062).
- Last two digits of year mark affixed.

In pursuance of the EU/US MRA+, and in accordance with the Council Decision 2004/425/EC of 21 April 2004, the manufactured item(s) can be affixed with the USCG conformity marking, subject to the authorization of the Conformity Assessment Body undertaking surveillance module.

#### **7. OTHERS :**

7.1 - This approval is given on the understanding that the Manufacturer will accept full responsibility for informing shipbuilders or their sub-contractors of the proper methods of fitting and general maintenance of the approved equipment and the conditions of this approval.

7.2 - Where subcontracting takes place, the manufacturer remains entirely and solely responsible for compliance of the supplied products with the applicable requirements.

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