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Certificate number: 18842/A0 EC

File number: ACI 1330/066/002

Annex A1 Item number: A.1/3.18a

*This certificate is not valid when presented without the full attached schedule composed of 7 sections***EC TYPE EXAMINATION CERTIFICATE***as per Module B of European Union Council Directive 96/98/EC on marine equipment  
as last amended by Commission Directive 2002/75/EC**This certificate is issued to***Dansk Dekor-Laminat A/S**

Vejle - DENMARK

*for the type of product***SURFACE MATERIALS AND FLOOR COVERINGS WITH LOW FLAME-SPREAD  
CHARACTERISTICS: DECORATIVE VENEERS**

Decorative laminates type Etronit-M Alunit type F

**Regulations and standards:**

SOLAS 74 Convention, as amended by 2000 SOLAS Amendments, Regs. II-2/3.29, II-2/3.40.5, II-2/5.3.2.4, II-2/6.2 - IMO Resolution MSC.97(73) (2000 HSC Code) 7.4.3.4, 7.4.3.5, 7.4.3.6 - IMO Resolution A.653(16) - IMO Resolution MSC.61(67), Annex 1, Parts 2 &amp; 5, and Annex 2 - ISO 1716 (1973) - IMO MSC/Circ.916, as amended by IMO MSC/Circ. 1008 - IMO MSC/Circ. 1004.

*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 is valid until: 02 Mar 2014**

At Neuilly, on: 02 Mar 2009

**For BUREAU VERITAS, Notified Body N°0062***By order of the Secretary*

Approval office

Local office: BV FREDERICIA

Surveyor: V. Simonsen

L. COURREGELONGUE

**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. 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 :**

#### **Decorative laminates type Etronit-M/F Alunit**

Product consists of surface material of HPL laminate and a core of aluminium. The product has a nominal thickness of  $\leq 2$  mm.

Area weight of Etronit-M Alunit type F (0.48 mm Al) 2,28 kg/m<sup>2</sup>

Area weight of Etronit-M Alunit type F (0.98 mm Al) 3,63 kg/m<sup>2</sup>

Aluminium core and uncured laminate are pressed together and cured at high pressure and temperature. Material was tested without being attached to any substrate.

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

According to Manufacturer's documentation and data sheet "Etronit-M Alunit type F Edition No.2." dated 28.10.2008.

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

3.1 Test report F611944 dated 2006-09-19 by SP Swedish National Testing and Research Institute, Surface flammability of bulkhead, ceiling and deck finish materials according to IMO Resolution A.653(16)

3.2 Test report F611944-01 dated Sept.21, 2006 by SP Swedish National Testing and Research Institute, Heat of combustion according to EN ISO 1716.

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

4.1.- In addition, the specimen tests results are showing compliance with FTP Code Annex 1 Part 2 for Smoke and Toxicity characteristics (both total heat release,  $Q_t$ , and peak heat release rate,  $q_p$ , comply with FTP Code Annex 2 paragraph 2.2).

4.2 - Calorific value is less than 45 MJ/m<sup>2</sup> as per ISO 1716.

4.3 - Approval valid for ships having to comply with SOLAS 74 Convention, as amended, and for units having to comply with IMO Resolution A649 (The "MODU Code").

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

### **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 :**

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.

### **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.

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