



Marine &amp; Offshore

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This certificate is not valid when presented without the full attached schedule composed of 7 sections  
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Notified Body 2690 - MARINE EQUIPMENT DIRECTIVE 2014/90/EU

## EC TYPE EXAMINATION CERTIFICATE

as per Module B of Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations and Commission Implementing Regulation (EU) 2022/1157 of 4 July 2022

This certificate is issued to:

**LX HAUSYS (ULSAN FACTORY)**

ULSAN - KOREA (REPUBLIC OF)

for the type of product

**SURFACE MATERIALS AND FLOOR COVERINGS WITH LOW FLAME-SPREAD CHARACTERISTICS: DECORATIVE VENEERS**

LX Hausys Interior Film (BENIF)

**Requirements:**

SOLAS 74 Convention as amended, Regulations II-2/3, II-2/5, II-2/6, II-2/9, X/3  
IMO Resolution MSC.36(63) -(1994 HSC Code)- as amended, 7  
IMO Resolution MSC.97(73) -(2000 HSC Code)- as amended, 7  
IMO Resolution MSC.307(88) (2010 FTP Code)  
IMO MSC/Circ.1120

This certificate is issued on behalf of the French Maritime Authorities to attest that Bureau Veritas Marine & Offshore did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations.


**This certificate will expire on: 30 May 2028****For Bureau Veritas Marine & Offshore Notified Body 2690,**

At BV PUSAN, on 30 May 2023,

Won-jun JANG

**This certificate was created electronically and is valid without signature**



**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 II 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 Marine & Offshore. 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 Marine & Offshore 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 & Offshore 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 Marine & Offshore 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 :**

#### **LX Hausys Interior Film (BENIF)**

Self-adhesive surface finishing material, composed of:

surface treatment (2 g/m<sup>2</sup>), clear PVC film (0.07 mm), ink print (2 g/m<sup>2</sup>), base PVC (0.1 ~ 0.17 mm) and adhesive (0.045 ~ 0.055 mm).

Tested colour: orange (for alternative colours, see limitation §4.4)

Total thickness : approx. 210 µm

Tested on 0.8 mm thick steel plate.

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

As per Manufacturer's document "Technical Data Sheet" dated Mar. 2023, rev.1 and "LX Hausys Interior film structure and description" dated Nov. 15, 2022, rev.1.

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

3.1 - Test report N° KOMERI-0402-23T0188(E) (testing date: Feb. 16, 2023) issued on Mar. 30, 2023 as per IMO 2010 FTP Code Part 2 from KOMERI, Korea.

3.2 - Test report N° KOMERI-0402-23T0189(E) (testing date: Feb. 14, 2023) dated Mar. 30, 2023 as per IMO 2010 FTP Code Part 5 from KOMERI, Korea.

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

4.1 - Approved material is considered as having low flame spread characteristics (as per IMO 2010 FTP Code Part 5) and not producing excessive smoke and toxic products (as per IMO 2010 FTP Code Part 2).

4.2 - Acceptable for use on any metallic substrate having a thickness of at least 0.6 mm.

4.3 - In application of IMO 2010 FTP Code Annex 2 §2.3, the product is expected to satisfy the requirement of maximum gross calorific value (45 MJ/m<sup>2</sup>) without further testing.

4.4 - In application of the IMO 2010 FTP Code Annex 1 Part 5 Appendix 4 §2.6, alternative colours (same composition, only colour variation) may be used provided that the organic content is less and colour brighter than the one tested.

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

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

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 module E Product Quality Assurance or module F Product Verification of Annex II 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 - Reference is made to MED 2014/90/EU chapter 2.

In particular Article 10.3 specifies that the wheelmark shall be followed by the identification number of the Notified Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits).

6.2 - In pursuance of the EU/US MRA+, and in accordance with the Council Decision 2004/425/EC of 21 April 2004 amended by Decision 1/2018 of 18 February 2019, the product(s) marked as per MED 2014/90/EU may be marked with the USCG conformity marking as authorized by the Notified Body undertaking surveillance module.

### **7. OTHERS :**

It is **LX HAUSYS (ULSAN FACTORY)**'s responsibility to inform shipbuilders or 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 \*\*\*