



Marine &amp; Offshore

Certificate number: 07131/E0 MED

File number: AC11360/006/002

Item number: MED/3.18d

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) 2018/773 of 15 May 2018

This certificate is issued to:

**L'ISOLANTE K-FLEX SPA**

RONCELLO (MB) - ITALY

for the type of product

**SURFACE MATERIALS AND FLOOR COVERINGS WITH LOW FLAME-SPREAD  
CHARACTERISTICS: PIPE INSULATION COVERS**

K-Flex ST / K-Flex ST plus / K-Flex STA

Piping insulating material (for refrigeration systems and chilled water piping for air-conditioning systems)

### Requirements:

SOLAS 74 convention as amended, Regulations II-2/3, II-2/5, II-2/6, II-2/9, X/3

IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 7

IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 7

IMO 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: 02 Aug 2024**

For Bureau Veritas Marine & Offshore Notified Body 2690,

At BV VENEZIA, on 02 Aug 2019,

Sandro BRUSEGAN



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 :

#### **K-Flex ST / K-Flex ST plus**

Closed cell elastomeric foam, based on synthetic rubber. K-Flex ST is glued to steel plate with K-Flex K-414 or K-Flex K-420 neopren glue (application rate 150 g/m<sup>2</sup>).

#### **K-Flex STA**

The same product (as K-Flex ST or K-Flex ST plus), with pre-applied self-adhesive backing (acrylic pressure sensitive adhesive, 60 g/m<sup>2</sup>).

Thickness: up to 50 mm.

Density: 55 kg/m<sup>3</sup>.

### 2. DOCUMENTS AND DRAWINGS :

K-FLEX ST Technical Data Sheet N° 1 rev 5.

K-FLEX ST plus Technical Data Sheet N° 2 rev.6 dated 23/07/2015.

### 3. TEST REPORTS :

Test reports N° 0754/DC/REA/13 Rev.1 dated 27/11/2013 and N° 0153/DC/REA/15 dated 02/03/2015, as per IMO FTPC 2010 Part 5, from CSI, Italy.

### 4. APPLICATION / LIMITATION :

4.1 - For use as insulating material in refrigeration systems and chilled water piping for air-conditioning systems.

4.2 - In application of FTP Code 2010 Annex 2 § 2.2, the products are expected to satisfy the requirement of smoke & toxicity without further testing.

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

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

### 5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - 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.

5.2 - For information concerning the production phase modules, **L'ISOLANTE K-FLEX SpA** has declared the following manufacturing sites:

**L'Isolante K-Flex SpA**  
Leonardo Da Vinci, 36  
20040 RONCELLO (MB)  
Italy

**K-Flex Polska Sp. Z.o.o.**  
Wielenin-Kolonia 50B  
99210 Uniejów  
Poland

**L'Isolante K-FLEX (Suzhou) Co., Ltd.**  
North Linhu Avenue  
FOHO Hi-Tech Industrial Development Zone  
Wujiang District, Suzhou City, Jiangsu Province  
Jiangsu Province, P.R. CHINA 215211

### 6. MARKING OF PRODUCT :

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).

### 7- OTHERS :

7.1 - It is **L'ISOLANTE K-FLEX SpA'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.

7.2 - This certificate supersedes EC Type Examination Certificate N° 07131/D3 MED issued on 19/04/2019 by the Society.

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