



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx INE 13.0055X Issue No: 0 Certificate history:  
Issue No. 0 (2013-12-11)

Status: **Current** Page 1 of 3

Date of Issue: **2013-12-11**

Applicant: **FEAM**  
Via Mario Pagano, 3  
I - 20090 Trezzano sul Naviglio (MI)  
Italy

Electrical Apparatus: **Lighting fixture type EVFG**  
Optional accessory:

Type of Protection: **d and tb**

Marking:  
Ex d IIC T6 Gb  
Ex tb IIIC T85°C Db IP66

Approved for issue on behalf of the IECEx  
Certification Body:

Thierry HOUEIX

Position:

Ex Certification Officer

Signature:  
(for printed version)

Date:

\_\_\_\_\_  
\_\_\_\_\_

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2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**INERIS**  
Institut National de l'Environnement Industriel  
et des Risques  
BP n2  
Parc Technologique ALATA  
F-60550 Verneuil-En-Halatte  
France



# IECEX Certificate of Conformity

Certificate No: IECEx INE 13.0055X

Issue No: 0

Date of Issue: **2013-12-11**

Page 2 of 3

Manufacturer: **FEAM**  
Via Mario Pagano, 3  
I - 20090 Trezzano sul Naviglio (MI)  
**Italy**

Additional Manufacturing  
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-1 : 2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:6

**IEC 60079-31 : 2008** Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'  
Edition:1

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[FR/INE/ExTR13.0055/00](#)

Quality Assessment Report:

[IT/CES/QAR09.0003/04](#)



# IECEx Certificate of Conformity

Certificate No: IECEx INE 13.0055X

Issue No: 0

Date of Issue: 2013-12-11

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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

This lighting fixture is constituted by a glass tub sealed in light alloy parts, it is intended for single or double fluorescent lamps. One version with emergency is intended.  
This equipment gets the degrees of protection IP66 in accordance with IEC 60529 standard.

### CONDITIONS OF CERTIFICATION: YES as shown below:

The width of the threaded joints is superior to the value specified in the tables of IEC 60079-1 standard.

### Annex:

[IECEx INE 13.0055X\\_Annex.pdf](#)



# IECEX Certificate of Conformity

Certificate No.: IECEx INE 13.0055X  
Date of Issue: 2013-12-11 Issue No.: 0  
Page 1 of 2  
Annexe: IECEx INE 13.0055X\_Annex.pdf

## PARAMETERS RELATING TO THE SAFETY

Maximum supply voltage for electronic ballast : 277 V.

### Power of the fluorescent lamp:

For type EVFGd- 1 18 or EVFGd-E 1 18 : 1 x18W  
For type EVFGd- 2 18 or EVFGd-E 2 18 : 2 x 18W  
For type EVFGd- 1 36 or EVFGd-E 1 36 : 1 x 36W  
For type EVFGd- 2 36 or EVFGd-E 2 36 : 2 x 36W  
For type EVFGd- 1 58 or EVFGd-E 1 18 : 1 x 58W  
For type EVFGd- 2 58 or EVFGd-E 2 58 : 2 x 58W

The emergency version is located with the additional letter "E" in the type.

### Electrical characteristic of the batteries:

Manufacturer	Type	Nominal voltage of cell	Capacity	Number of cell
SAFT	VTD	1.2 V	4 300 mAh	3 or 4
SAFT	VTF	1.2 V	7 700 mAh	3 or 4

### Electrical characteristic of the fuse protection:

Manufacturer : SIBA  
Type : 18900  
Current : 6.3 A

These enclosures can be use in the following range ambient temperatures from -20°C to +60°C.

## MARKING

Marking has to be readable and indelible; it has to include the following indications:

- FEAM
  - I - 20090 Trezzano sul Naviglio (MI)
  - EVFG (\*)
  - IECEx INE 13.0055X
  - (Serial number)
  - Ex d IIC T6 Gb
  - Ex tb IIIC T85°C Db IP66
  - -20°C < Tamb < 60°C
  - CABLE GLAND : (Type and size)
  - WARNINGS: DO NOT OPEN WHEN ENERGIZED  
DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT
- (\*) The type is completed by a letter and numbers in accordance with the manufacturing variations, types are indicated in the parameters relating to the safety.





# IECEX Certificate of Conformity

Certificate No.: IECEx INE 13.0055X

Date of Issue: 2013-12-11

Issue No.: 0

Page 2 of 2

Annexe: IECEx INE 13.0055X\_Annex.pdf

## ROUTINE EXAMINATIONS AND TESTS

In accordance with clause 16.1 of the IEC 60079-1 standard each apparatus defined above has to have successfully passed, before delivery, an overpressure test of a period comprised between 10 and 60 seconds under 15 bar.



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEX Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEX INE 13.0055X Issue No: 1 Certificate history:  
Status: **Current** Page 1 of 4 Issue No. 1 (2014-08-14)  
Date of Issue: **2014-08-14** Issue No. 0 (2013-12-11)  
Applicant: **FEAM**  
Via Mario Pagano, 3  
I - 20090 Trezzano sul Naviglio (MI)  
Italy  
Electrical Apparatus: **Lighting fixture type EVFG**  
*Optional accessory:*  
Type of Protection: **d, e and tb**  
Marking:  
Ex d IIC T6 Gb or Ex d e IIC T6 Gb  
Ex tb IIIC T85°C Db IP66

*Approved for issue on behalf of the IECEX  
Certification Body:*

Dominique CHARPENTIER

*Position:*

Certification division manager

*Signature:  
(for printed version)*

*Date:*

\_\_\_\_\_  
\_\_\_\_\_

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Certificate issued by:

**INERIS**  
Institut National de l'Environnement Industriel  
et des Risques  
BP n2  
Parc Technologique ALATA  
F-60550 Veneuil-En-Halatte  
France



# IECEX Certificate of Conformity

Certificate No: IECEX INE 13.0055X Issue No: 1

Date of Issue: 2014-08-14 Page 2 of 4

Manufacturer: **FEAM**  
Via Mario Pagano, 3  
I - 20090 Trezzano sul Naviglio (MI)  
Italy

Additional Manufacturing  
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2007-04</b> Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-7 : 2006-07</b> Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

#### Test Report:

[FR/INE/ExTR13.0055/00](#) [FR/INE/ExTR13.0055/01](#)

#### Quality Assessment Report:

[IT/CES/QAR09.0003/04](#)



# IECEX Certificate of Conformity

Certificate No: IECEx INE 13.0055X

Issue No: 1

Date of Issue: 2014-08-14

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

This lighting fixture type EVFG\*\* is constituted by :

- a glass tube sealed on the light alloy parts (for all the versions)
- terminal box (for "Ex d e" version)

The tube part is intended to receive different types of lamps (single or double fluorescent lamps, LED) with or without emergency version.

The terminal box is intended to receive certified terminals as specified in the descriptive documents. The terminal box is separated from the tube by a sealing bushing (3 or 5 conductors).

This equipment gets the degrees of protection IP66 in accordance with IEC 60529 standard.

### CONDITIONS OF CERTIFICATION: YES as shown below:

The depth engagement of the threaded joints is superior to the value specified in the tables of IEC 60079-1 standard.

For installation, the user will take into account that this equipment underwent only an impact test corresponding to an energy of a low risk.





# IECEX Certificate of Conformity

Certificate No: IECEX INE 13.0055X

Issue No: 1

Date of Issue: 2014-08-14

Page 4 of 4

## DETAILS OF CERTIFICATE CHANGES (for Issues 1 and above):

### For the Issue n°1 :

A – Introduction of new versions with a terminal box protected by increased safety.

B – Introduction of new types of lamps :

- LED 5W, 9W, 20W and 27W

- Fluorescent 8W

C- Application of the standard IEC 60079-31:2013

### **Annex:**

[IECEX INE 13.0055X\\_01\\_Annex.pdf](#)



# IECEx Certificate of Conformity

Certificate No.: IECEx INE 13.0055X

Date of Issue: 2014-08-14

Issue No.: 1

Page 1 of 2

Annexe: IECEx INE 13.0055X\_01\_Annex.pdf

## PARAMETERS RELATING TO THE SAFETY

Maximum supply voltage : 277 V.

### Power of the fluorescent lamp:

For type EVFG\*- 1 8 or EVFG\*-E 1 8 : 1 x 8W  
For type EVFG\*- 2 8 or EVFG\*-E 2 8 : 2 x 8W  
For type EVFG\*- 1 18 or EVFG\*-E 1 18 : 1 x 18W  
For type EVFG\*- 2 18 or EVFG\*-E 2 18 : 2 x 18W  
For type EVFG\*- 1 36 or EVFG\*-E 1 36 : 1 x 36W  
For type EVFG\*- 2 36 or EVFG\*-E 2 36 : 2 x 36W  
For type EVFG\*- 1 58 or EVFG\*-E 1 18 : 1 x 58W  
For type EVFG\*- 2 58 or EVFG\*-E 2 58 : 2 x 58W

### Power of the LED lamp:

For type EVFG\*- 1 5 LED or EVFG\*-E 1 5 LED : 1 x 5W  
For type EVFG\*- 2 5 LED or EVFG\*-E 2 5 LED : 2 x 5W  
For type EVFG\*- 1 9 LED or EVFG\*-E 1 9 LED : 1 x 9W  
For type EVFG\*- 2 9 LED or EVFG\*-E 2 9 LED : 2 x 9W  
For type EVFG\*- 1 20 LED or EVFG\*-E 1 20 LED : 1 x 20W  
For type EVFG\*- 2 20 LED or EVFG\*-E 2 20 LED : 2 x 20W  
For type EVFG\*- 1 27 LED or EVFG\*-E 1 27 LED : 1 x 27W  
For type EVFG\*- 2 27 LED or EVFG\*-E 2 27 LED : 2 x 27W

The emergency version is located with the additional letter "E" in the type.

### Electrical characteristic of the batteries:

Manufacturer	Type	Nominal voltage of cell	Capacity	Number of cell
SAFT	VTD	1.2 V	4 300 mAh	3 or 4
SAFT	VTF	1.2 V	7 700 mAh	3 or 4

### Electrical characteristic of the fuse protection:

Manufacturer : SIBA  
Type : 18900  
Current : 6.3 A

These enclosures can be use in the following range ambient temperatures from -20°C to +60°C.



# IECEx Certificate of Conformity

Certificate No.: IECEx INE 13.0055X

Date of Issue: 2014-08-14

Issue No.: 1

Page 2 of 2

Annexe: IECEx INE 13.0055X\_01\_Annex.pdf

## MARKING

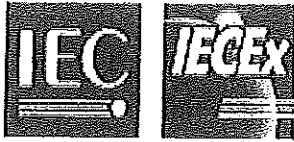
Marking has to be readable and indelible; it has to include the following indications:

- FEAM
  - I - 20090 Trezzano Sul Naviglio(MI)
  - EVFG (\*)
  - IECEx INE 13.0055X
  - (Serial number)
  - Ex d IIC T6 Gb or Ex d e IIC T6 Gb
  - Ex tb IIIC T85°C Db IP66
  - -20°C < Tamb < 60°C
  - CABLE GLAND : (Type and size)
  - **WARNINGS:** DO NOT OPEN WHEN ENERGIZED  
DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT
- (\*) The type is completed by a letter and numbers in accordance with the manufacturing variations, types are indicated in the parameters relating to the safety.

## ROUTINE EXAMINATIONS AND TESTS

In accordance with clause 16.1 of the IEC 60079-1 standard each apparatus defined above has to have successfully passed, before delivery, an overpressure test of a period comprised between 10 and 60 seconds under 15 bar.

In accordance with clause 7.1 of the IEC 60079-7 standard, a dielectric strength test on each of the different circuits of the connection units, performed according to the relevant standards, the supply voltage shall applied during one minute.



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	IECEx INE 13.0055X	Issue No: 2	<b>Certificate history:</b> Issue No. 2 (2014-12-08) Issue No. 1 (2014-08-14) Issue No. 0 (2013-12-11)
Status:	Current	Page 1 of 4	
Date of Issue:	2014-12-08		
Applicant:	FEAM Via Mario Pagano, 3 I - 20090 Trezzano sul Naviglio (MI) Italy		
Electrical Apparatus: Optional accessory:	Lighting fixture type EVFG** or EVF**		
Type of Protection:	d, e and Ib		
Marking:	Ex d IIC T6 Gb or Ex d e IIC T6 Gb Ex tb IIIC T85°C Db IP66		

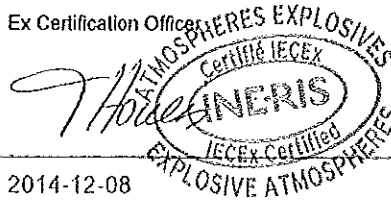
Approved for issue on behalf of the IECEx  
Certification Body:

Thierry HOUËIX

Position:

Ex Certification Officer

Signature:  
(for printed version)



Date:

2014-12-08

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Certificate Issued by:

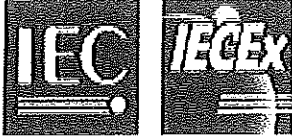
INERIS  
Institut National de l'Environnement Industriel  
et des Risques  
BP n2  
Parc Technologique ALATA  
F-60550 Verneuil-En-Halatte  
France

# INERIS

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The certification rules are available on the INERIS website [www.ineris.fr](http://www.ineris.fr).





# IECEx Certificate of Conformity

Certificate No: IECEx INE 13.0055X

Issue No: 2

Date of Issue: 2014-12-08

Page 2 of 4

Manufacturer: **FEAM**  
Via Mario Pagano, 3  
I - 20090 Trezzano sul Naviglio (MI)  
Italy

Additional Manufacturing  
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60070-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60070-1 : 2007-04</b> Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60070-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust Ignition protection by enclosure "t"
<b>IEC 60070-7 : 2006-07</b> Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

#### Test Report:

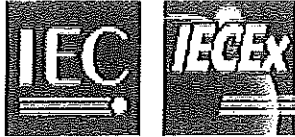
FR/INE/ExTR13.0055/00

FR/INE/ExTR13.0055/01

FR/INE/ExTR13.0055/02

#### Quality Assessment Report:

IT/CES/QAR09.0003/04



# IECEx Certificate of Conformity

Certificate No: IECEx INE 13.0055X

Issue No: 2

Date of Issue: 2014-12-08

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

This lighting fixture type EVFG\*\* is constituted by :

- A glass tube sealed on the light alloy parts (for all the versions)
- Terminal box (only for "Ex d e" version)

The tube part is intended to receive different types of lamps (single or double fluorescent lamps, LED) with or without emergency version.

The terminal box is intended to receive certified terminals as specified in the descriptive documents. The terminal box is separated from the tube by a sealing bushing (3 or 5 conductors).

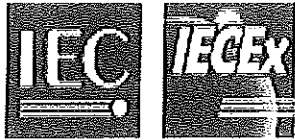
The lighting fixture type EVF\*\*\* is constituted by a glass tube sealed on the light alloy part. The tube part is intended to receive different types of lamps (single fluorescent lamps, LED).

This equipment gets the degrees of protection IP66 in accordance with IEC 60529 standard.

### CONDITIONS OF CERTIFICATION: YES as shown below:

The depth engagement of the threaded joints is superior to the value specified in the tables of IEC 60079-1 standard.

For installation, the user will take into account that this equipment underwent only an impact test corresponding to an energy of a low risk.



# IECEx Certificate of Conformity

Certificate No: IECEx INE 13.0055X

Issue No: 2

Date of Issue: 2014-12-08

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## DETAILS OF CERTIFICATE CHANGES (for Issues 1 and above):

### For the Issue n°2:

- Introduction of a new type of lighting fixture : EVF\*\*\* available with fluorescent lamp 1x18W or 1x36W and LED 9W or 20W.

### For the Issue n°1 :

A – Introduction of new versions with a terminal box protected by increased safety.

B – Introduction of new types of lamps :

•LED 5W, 9W, 20W and 27W

•Fluorescent 8W

C- Application of the standard IEC 60079-31:2013

### Annex:

IECEx INE 13.0055X-02\_Annex.pdf



# IECEx Certificate of Conformity

Certificate No.: IECEx INE 13.0055X

Issue No.: 2

Page 1 of 2

Annexe: IECEx INE 13.0055X-02\_Annex.pdf

## PARAMETERS RELATING TO THE SAFETY

Maximum supply voltage : 277 V.

### Power of the fluorescent lamp:

For type EVFG<sup>+</sup>- 1 8 or EVFG<sup>+</sup>-E 1 8 : 1 x 8W  
For type EVFG<sup>+</sup>- 2 8 or EVFG<sup>+</sup>-E 2 8 : 2 x 8W  
For type EVFG<sup>+</sup>- 1 18 or EVFG<sup>+</sup>-E 1 18 : 1 x 18W  
For type EVFG<sup>+</sup>- 2 18 or EVFG<sup>+</sup>-E 2 18 : 2 x 18W  
For type EVFG<sup>+</sup>- 1 36 or EVFG<sup>+</sup>-E 1 36 : 1 x 36W  
For type EVFG<sup>+</sup>- 2 36 or EVFG<sup>+</sup>-E 2 36 : 2 x 36W  
For type EVFG<sup>+</sup>- 1 58 or EVFG<sup>+</sup>-E 1 18 : 1 x 58W  
For type EVFG<sup>+</sup>- 2 58 or EVFG<sup>+</sup>-E 2 58 : 2 x 58W  
For type EVF 118 EL : 1 x 18W  
For type EVF 136 EL : 1 x 36W

### Power of the LED lamp:

For type EVFG<sup>+</sup>- 1 5 LED or EVFG<sup>+</sup>-E 1 5 LED : 1 x 5W  
For type EVFG<sup>+</sup>- 2 5 LED or EVFG<sup>+</sup>-E 2 5 LED : 2 x 5W  
For type EVFG<sup>+</sup>- 1 9 LED or EVFG<sup>+</sup>-E 1 9 LED : 1 x 9W  
For type EVFG<sup>+</sup>- 2 9 LED or EVFG<sup>+</sup>-E 2 9 LED : 2 x 9W  
For type EVFG<sup>+</sup>- 1 20 LED or EVFG<sup>+</sup>-E 1 20 LED : 1 x 20W  
For type EVFG<sup>+</sup>- 2 20 LED or EVFG<sup>+</sup>-E 2 20 LED : 2 x 20W  
For type EVFG<sup>+</sup>- 1 27 LED or EVFG<sup>+</sup>-E 1 27 LED : 1 x 27W  
For type EVFG<sup>+</sup>- 2 27 LED or EVFG<sup>+</sup>-E 2 27 LED : 2 x 27W  
For type EVF 19 LED : 1 x 9W  
For type EVF 120 LED : 1 x 20W

The emergency version is located with the additional letter "E" in the type.

### Electrical characteristic of the batteries:

Manufacturer	Type	Nominal voltage of cell	Capacity	Number of cell
SAFT	VTD	1.2 V	4 300 mAh	3 or 4
SAFT	VTF	1.2 V	7 700 mAh	3 or 4

### Electrical characteristic of the fuse protection:

Manufacturer : SIBA  
Type : 18900  
Current : 6.3 A

These enclosures can be used in the following range of ambient temperatures from -20°C to +60°C.





# IECEX Certificate of Conformity

Certificate No.: IECEX INE 13.0055X

Issue No.: 2

Page 2 of 2

Annexe: IECEX INE 13.0055X-02\_Annex.pdf

## MARKING

Marking has to be readable and indelible; it has to include the following indications:

- FEAM
- I -20090 Trezzano Sul Naviglio (MI)
- EVFG<sup>\*\*\*</sup> or EVF<sup>\*\*\*</sup>
- IECEX INE 13.0055X
- (Serial number)
- Ex d IIC T6 Gb (for EVFG<sup>\*\*\*</sup> or EVF<sup>\*\*\*</sup> type) or Ex d e IIC T6 Gb (only for EVFG<sup>\*\*\*</sup> type)
- Ex tb IIIC T85°C Db IP66
- -20°C < Tamb < 60°C
- CABLE GLAND : (Type and size)
- WARNINGS: DO NOT OPEN WHEN ENERGIZED  
DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

(\*) The type is completed by a letter and numbers in accordance with the manufacturing variations, types are indicated in the parameters relating to the safety.

## ROUTINE EXAMINATIONS AND TESTS

### For lighting fixture type EVFG<sup>\*\*\*</sup>:

In accordance with clause 16.1 of the IEC 60079-1 standard each apparatus type EVFG<sup>\*\*\*</sup> has to have successfully passed, before delivery, an overpressure test of a period comprised between 10 and 60 seconds under 15 bar.

### For lighting fixture type EVFG<sup>\*\*\*</sup> with the terminal box protected by increased safety:

In accordance with clause 7.1 of the IEC 60079-7 standard, a dielectric strength test on each of the different circuits of the connection units, performed according to the relevant standards, the supply voltage shall applied during one minute.

### For lighting fixture type EVF<sup>\*\*\*</sup>:

In accordance with clause 16.1 of the IEC 60079-1 standard each apparatus type EVF<sup>\*\*\*</sup> has to have successfully passed, before delivery, an overpressure test of a period comprised between 10 and 60 seconds under 17.4 bar.



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEX Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEX INE 13.0055X

Issue No: 3

Certificate history:

Status: **Current**

Issue No. 3 (2018-10-01)

Issue No. 2 (2014-12-08)

Date of Issue: **2018-10-01**

Page 1 of 4

Issue No. 1 (2014-08-14)

Issue No. 0 (2013-12-11)

Applicant: **FEAM**  
Via Mario Pagano, 3  
I - 20090 Trezzano sul Naviglio (MI)  
Italy

Equipment: **Lighting fixture type EVFG\*\*\*or EVF\*\*\***  
Optional accessory:

Type of Protection: **db, eb, op is and tb**

Marking:  
Ex db IIC T6 Gb or Ex db eb IIC T6 Gb  
Ex tb IIIC T85°C Db IP66  
Ex db op is IIC T6 Gb or Ex db eb op is IIC T6 Gb  
Ex op is tb IIIC T85°C Db IP66

Approved for issue on behalf of the IECEX  
Certification Body:

Thierry HOUEIX

Position:

Ex Certification Officer

Signature:  
(for printed version)



Date:

2018-10-01

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Certificate issued by:

INERIS  
Institut National de l'Environnement Industriel  
et des Risques, BP n2  
Parc Technologique ALATA  
France



# IECEX Certificate of Conformity

Certificate No: IECEX INE 13.0055X

Issue No: 3

Date of Issue: 2018-10-01

Page 2 of 4

Manufacturer: **FEAM**  
Via Mario Pagano, 3  
I - 20090 Trezzano sul Naviglio (MI)  
Italy

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended.

#### STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-28 : 2015</b> Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-7 : 2015</b> Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[FR/INE/ExTR13.0055/03](#)

Quality Assessment Report:

[IT/CES/QAR09.0003/09](#)



# IECEx Certificate of Conformity

Certificate No: IECEx INE 13.0055X

Issue No: 3

Date of Issue: 2018-10-01

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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

This lighting fixture type EVFG\*\* is constituted by :

- A glass tube sealed on the light alloy parts (for all the versions)
- Terminal box (only for "Ex db eb" version)

The tube part is intended to receive different types of lamps (single or double fluorescent lamps, LED) with or without emergency version.

The terminal box is intended to receive certified terminals as specified in the descriptive documents. The terminal box is separated from the tube by a sealing bushing (3 or 5 conductors).

The lighting fixture type EVF\*\*\* is constituted by a glass tube sealed on the light alloy part. The tube part is intended to receive different types of lamps (single fluorescent lamps, LED).

This equipment gets the degrees of protection IP66 in accordance with IEC 60529 standard.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

The depth engagement of the threaded joints is superior to the value specified in the tables of IEC 60079-1 standard. For any repair, contact the manufacturer.

For installation, the user will take into account that this equipment underwent only an impact test corresponding to an energy of a low risk.





# IECEX Certificate of Conformity

Certificate No: IECEx INE 13.0055X

Issue No: 3

Date of Issue: 2018-10-01

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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

### For the issue n°03 to IECEx INE 13.0055X

- A - Introduction of new LED versions with PCB
- B - Application of the type of protection « op is » in accordance with the standard IEC 60079-28 :2015
- C - Application of the standard IEC 60079-1:2014 and IEC 60079-7:2015

### For the issue n°02 to IECEx INE 13.0055X

- A – Introduction of a new type of lighting fixture : EVF\*\*\* available with fluorescent lamp 1x18W or 1x36W and LED 9W or 20W

### For the issue n°01 to IECEx INE 13.0055X

- A – Introduction of new versions provided with a terminal box and protected by increased safety.
- B – Introduction of new types of lamps : LED 5W, 9W, 20W and 27W and Fluorescent 8W
- C - Application of the standard IEC 60079-31:2013

#### **Annex:**

[IECEX INE 13.0055X-03\\_Annex.pdf](#)



# IECEX Certificate of Conformity

Certificate No.: IECEX INE 13.0055X

Issue No.: 03

Page 1 of 2

Annex: IECEX INE 13.0055X-03\_Annex.pdf

## PARAMETERS RELATING TO THE SAFETY

Maximum supply voltage : 277 V.

Power of the fluorescent tube lamp:

Type EVFG\* - 1 8 or EVFG\*E - 1 8 : 1 x 8 W  
Type EVFG\* - 2 8 or EVFG\*E - 2 8 : 2 x 8 W  
Type EVFG\* - 1 18 or EVFG\*E - 1 18 : 1 x 18 W  
Type EVFG\* - 2 18 or EVFG\*E - 2 18 : 2 x 18 W  
Type EVFG\* - 1 36 or EVFG\*E - 1 36 : 1 x 36 W  
Type EVFG\* - 2 36 or EVFG\*E - 2 36 : 2 x 36 W  
Type EVFG\* - 1 58 or EVFG\*E - 1 18 : 1 x 58 W  
Type EVFG\* - 2 58 or EVFG\*E - 2 58 : 2 x 58 W  
Type EVF 118 EL : 1 x 18 W  
Type EVF 136 EL : 1 x 36 W

Power of the LED tube lamp:

Type EVFG\* - 1 9 LED or EVFG\*E - 1 9 LED : 1 x 9 W  
Type EVFG\* - 2 9 LED or EVFG\*E - 2 9 LED : 2 x 9 W  
Type EVFG\* - 1 20 LED or EVFG\*E - 1 20 LED : 1 x 20 W  
Type EVFG\* - 2 20 LED or EVFG\*E - 2 20 LED : 2 x 20 W  
Type EVFG\* - 1 27 LED or EVFG\*E - 1 27 LED : 1 x 27 W  
Type EVFG\* - 2 27 LED or EVFG\*E - 2 27 LED : 2 x 27 W  
Type EVF 19 LED : 1 x 9 W  
Type EVF 120 LED : 1 x 20 W

Power of the PCB LED lamp:

Type EVFG\*L - 004 or EVFG\*LE - 004 : 5 W  
Type EVFG\*L - 008 or EVFG\*LE - 008 : 10 W  
Type EVFG\*L - 120 or EVFG\*LE - 120 : 32 W  
Type EVFG\*L - 040 or EVFG\*LE - 040 : 28 W  
Type EVFG\*L - 080 or EVFG\*LE - 080 : 55 W  
Type EVFG\*L - 066 or EVFG\*LE - 066 : 22 W  
Type EVFG\*L - 132 or EVFG\*LE - 132 : 44 W

The emergency version is located with the additional letter "E" in the type.

Electrical characteristic of the batteries:

Type	Nominal voltage of cell	Capacity	Number of cell
VT D or D400HT	1.2 V	4 300 mAh	Max. 6 cells
Accu-NiCd 5 A	1.2 V	4 200 mAh	Max. 6 cells
VT F 70	1.2 V	7 700 mAh	Max. 6 cells

Electrical characteristic of the fuse protection: See instructions

These enclosures can be use in the following range ambient temperatures from -20°C to +60°C.



# IECEX Certificate of Conformity

Certificate No.: IECEX INE 13.0055X

Issue No.: 03

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Annex: IECEX INE 13.0055X-03\_Annex.pdf

## **MARKING**

Marking has to be readable and indelible; it has to include the following indications:

### **For versions with fluorescents tube lamps or LED tube lamps**

- FEAM
- I-20090 Trezzano Sul Naviglio (MI)
- EVFG\*\*\* or EVF\*\*\* (\*)
- IECEX INE 13.0055X
- (Serial number)
- Ex db IIC T6 Gb (for EVFG\*\*\* or EVF\*\*\* type) or Ex db eb IIC T6 Gb (only for EVFG\*\*\* type)
- Ex tb IIIC T85°C Db IP66
- -20°C < Tamb < 60°C
- CABLE GLAND: (Type and size)
- WARNINGS: DO NOT OPEN WHEN ENERGIZED  
DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

### **For versions with LED lamps with PCB (only for EVFG\*\*\* type)**

- FEAM
- I-20090 Trezzano Sul Naviglio (MI)
- EVFG\*\*\* (\*)
- IECEX INE 13.0055X
- (Serial number)
- Ex db op is IIC T6 Gb or Ex db eb op is IIC T6 Gb
- Ex op is tb IIIC T85°C Db IP66
- -20°C < Tamb < 60°C
- CABLE GLAND: (Type and size)
- WARNINGS: DO NOT OPEN WHEN ENERGIZED  
DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

(\*) The type is completed by a letter and numbers in accordance with the manufacturing variations, types are indicated in the parameters relating to the safety.

## **ROUTINE EXAMINATIONS AND TESTS**

### **For lighting fixture type EVFG\*\*\*:**

In accordance with clause 16.1 of the IEC 60079-1 standard each piece of equipment type EVFG\*\*\* has to have successfully passed, before delivery, an overpressure test of a period comprised between 10 and 60 seconds under 15 bar.

### **For lighting fixture type EVFG\*\*\* with the terminal box protected by increased safety:**

In accordance with clause 7.1 of the IEC 60079-7 standard, a dielectric strength test on each different circuits of the connection units, carried out according to the relevant standards, the testing voltage shall be applied during one minute.

### **For lighting fixture type EVF\*\*\*:**

In accordance with clause 16.1 of the IEC 60079-1 standard each piece of equipment type EVF\*\*\* has to have successfully passed, before delivery, an overpressure test of a period comprised between 10 and 60 seconds under 17.4 bar.



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	<b>IECEX INE 13.0055X</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 4	Issue 3 (2018-10-01)
Date of Issue:	2021-11-29		Issue 2 (2014-12-08)
Applicant:	<b>BARTEC F.N. S.R.L.</b> Via M. Pagano, 3 I - 20090 Trezzano sul Naviglio (MI) <b>Italy</b>		Issue 1 (2014-08-14)
Equipment:	<b>Lighting fixture type EVFG***or EVF***</b>		Issue 0 (2013-12-11)
Optional accessory:			
Type of Protection:	<b>db, eb, op is and tb</b>		
Marking:	Ex db IIC T6 Gb or Ex db eb IIC T6 Gb Ex tb IIIC T85°C Db IP66 Ex db op is IIC T6 Gb or Ex db eb op is IIC T6 Gb Ex op is tb IIIC T85°C Db IP66		

Approved for issue on behalf of the IECEx  
Certification Body:

**Thierry HOUEIX**

Position:

**Ex Certification Officer**

Signature:  
(for printed version)

**2021-11-29**

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**INERIS**  
**Institut National de l'Environnement Industriel et des Risques**  
**BP n2 / Parc Technologique ALATA**  
**F-60550 Verneuil-en-Halatte**  
**France**



controlling risks  
for sustainable development





# IECEX Certificate of Conformity

Certificate No.: **IECEX INE 13.0055X**

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Date of issue: 2021-11-29

Issue No: 4

Manufacturer: **BARTEC F.N. S.R.L.**  
Via M. Pagano, 3  
I - 20090 Trezzano sul Naviglio (MI)  
**Italy**

Additional  
manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2011](#) Explosive atmospheres - Part 0: General requirements  
Edition:6.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-28:2015](#) Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  
Edition:2

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

[IEC 60079-7:2015](#) Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
Edition:5.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[FR/INE/ExTR13.0055/03](#)

[FR/INE/ExTR13.0055/04](#)

Quality Assessment Report:

[IT/CES/QAR09.0003/14](#)



# IECEX Certificate of Conformity

Certificate No.: **IECEX INE 13.0055X**

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Date of issue: 2021-11-29

Issue No: 4

## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

This lighting fixture type EVFG\*\* is constituted by :

- A glass tube sealed on the light alloy parts (for all the versions)
- Terminal box (only for "Ex db eb" version)

The tube part is intended to receive different types of lamps (single or double fluorescent lamps, LED) with or without emergency version. The terminal box is intended to receive certified terminals as specified in the descriptive documents. The terminal box is separated from the tube by a sealing bushing (3 or 5 conductors).

The lighting fixture type EVF\*\*\* is constituted by a glass tube sealed on the light alloy part. The tube part is intended to receive different types of lamps (single fluorescent lamps, LED).

This equipment gets the degrees of protection IP66 in accordance with IEC 60529 standard.

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

The depth engagement of the threaded joints is superior to the value specified in the tables of IEC 60079-1 standard. For any repair, contact the manufacturer.

For installation, the user will take into account that this equipment underwent only an impact test corresponding to an energy of a low risk.



# IECEX Certificate of Conformity

Certificate No.: **IECEX INE 13.0055X**

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Date of issue: 2021-11-29

Issue No: 4

## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

For the issue n°04 to IECEx INE 13.0055X:

- Change of the name and address of the applicant and manufacturer
- Update of the marking plates

For the issue n°03 to IECEx INE 13.0055X

A - Introduction of new LED versions with PCB

B - Application of the type of protection « op is » in accordance with the standard IEC 60079-28 :2015

C - Application of the standard IEC 60079-1:2014 and IEC 60079-7:2015

For the issue n°02 to IECEx INE 13.0055X

A – Introduction of a new type of lighting fixture : EVF\*\*\* available with fluorescent lamp 1x18W or 1x36W and LED 9W or 20W

For the issue n°01 to IECEx INE 13.0055X

A – Introduction of new versions provided with a terminal box and protected by increased safety.

B – Introduction of new types of lamps : LED 5W, 9W, 20W and 27W and Fluorescent 8W

C - Application of the standard IEC 60079-31:2013

## **Annex:**

[IECEX INE 13.0055X-04\\_Annex.pdf](#)



# IECEx Certificate of Conformity

Certificate No.: IECEx INE 13.0055X

Issue No.: 04

Page 1 of 2

Annex: IECEx INE 13.0055X-04\_Annex.pdf

## PARAMETERS RELATING TO THE SAFETY

Maximum supply voltage : 277 V.

Power of the fluorescent tube lamp:

Type EVFG\*- 1 8 or EVFG\*E - 1 8 : 1 x 8 W  
Type EVFG\*- 2 8 or EVFG\*E - 2 8 : 2 x 8 W  
Type EVFG\*- 1 18 or EVFG\*E - 1 18 : 1 x 18 W  
Type EVFG\*- 2 18 or EVFG\*E - 2 18 : 2 x 18 W  
Type EVFG\*- 1 36 or EVFG\*E - 1 36 : 1 x 36 W  
Type EVFG\*- 2 36 or EVFG\*E - 2 36 : 2 x 36 W  
Type EVFG\*- 1 58 or EVFG\*E - 1 18 : 1 x 58 W  
Type EVFG\*- 2 58 or EVFG\*E - 2 58 : 2 x 58 W  
Type EVF 118 EL : 1 x 18 W  
Type EVF 136 EL : 1 x 36 W

Power of the LED tube lamp:

Type EVFG\*- 1 9 LED or EVFG\*E - 1 9 LED : 1 x 9 W  
Type EVFG\*- 2 9 LED or EVFG\*E - 2 9 LED : 2 x 9 W  
Type EVFG\*- 1 20 LED or EVFG\*E - 1 20 LED : 1 x 20 W  
Type EVFG\*- 2 20 LED or EVFG\*E - 2 20 LED : 2 x 20 W  
Type EVFG\*- 1 27 LED or EVFG\*E - 1 27 LED : 1 x 27 W  
Type EVFG\*- 2 27 LED or EVFG\*E - 2 27 LED : 2 x 27 W  
Type EVF 19 LED : 1 x 9 W  
Type EVF 120 LED : 1 x 20 W

Power of the PCB LED lamp:

Type EVFG\*L - 004 or EVFG\*LE - 004 : 5 W  
Type EVFG\*L - 008 or EVFG\*LE - 008 : 10 W  
Type EVFG\*L - 120 or EVFG\*LE - 120 : 32 W  
Type EVFG\*L - 040 or EVFG\*LE - 040 : 28 W  
Type EVFG\*L - 080 or EVFG\*LE - 080 : 55 W  
Type EVFG\*L - 066 or EVFG\*LE - 066 : 22 W  
Type EVFG\*L - 132 or EVFG\*LE - 132 : 44 W

The emergency version is located with the additional letter "E" in the type.

Electrical characteristic of the batteries:

Type	Nominal voltage of cell	Capacity	Number of cell
VT D or D400HT	1.2 V	4 300 mAh	Max. 6 cells
Accu-NiCd 5 A	1.2 V	4 200 mAh	Max. 6 cells
VT F 70	1.2 V	7 700 mAh	Max. 6 cells

Electrical characteristic of the fuse protection: See instructions

These enclosures can be use in the following range ambient temperatures from -20°C to +60°C.



# IECEx Certificate of Conformity

Certificate No.: IECEx INE 13.0055X

Issue No.: 04

Page 2 of 2

Annex: IECEx INE 13.0055X-04\_Annex.pdf

## **MARKING**

Marking has to be readable and indelible; it has to include the following indications:

### **For versions with fluorescents tube lamps or LED tube lamps**

- BARTEC FN (\*\*)
- I-20090 Trezzano Sul Naviglio (MI)
- EVFG\*\*\* or EVF\*\*\* (\*)
- IECEx INE 13.0055X
- (Serial number)
- Ex db IIC T6 Gb (for EVFG\*\*\* or EVF\*\*\* type) or Ex db eb IIC T6 Gb (only for EVFG\*\*\* type)
- Ex tb IIIC T85°C Db IP66
- -20°C < Tamb < 60°C
- CABLE GLAND: (Type and size)
- WARNINGS: DO NOT OPEN WHEN ENERGIZED  
DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

### **For versions with LED lamps with PCB (only for EVFG\*\*\* type)**

- BARTEC FN (\*\*)
- I-20090 Trezzano Sul Naviglio (MI)
- EVFG\*\*\* (\*)
- IECEx INE 13.0055X
- (Serial number)
- Ex db op is IIC T6 Gb or Ex db eb op is IIC T6 Gb
- Ex op is tb IIIC T85°C Db IP66
- -20°C < Tamb < 60°C
- CABLE GLAND: (Type and size)
- WARNINGS: DO NOT OPEN WHEN ENERGIZED  
DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

(\*) The type is completed by a letter and numbers in accordance with the manufacturing variations, types are indicated in the parameters relating to the safety.

(\*\*) Optional Brands "BARTEC FEAM" or "BARTEC NASP" can be added in the marking with the sentence "manufactured by BARTEC FN"

## **ROUTINE EXAMINATIONS AND TESTS**

### **For lighting fixture type EVFG\*\*\*:**

In accordance with clause 16.1 of the IEC 60079-1 standard each piece of equipment type EVFG\*\*\* has to have successfully passed, before delivery, an overpressure test of a period comprised between 10 and 60 seconds under 15 bar.

### **For lighting fixture type EVFG\*\*\* with the terminal box protected by increased safety:**

In accordance with clause 7.1 of the IEC 60079-7 standard, a dielectric strength test on each different circuits of the connection units, carried out according to the relevant standards, the testing voltage shall be applied during one minute.

### **For lighting fixture type EVF\*\*\*:**

In accordance with clause 16.1 of the IEC 60079-1 standard each piece of equipment type EVF\*\*\* has to have successfully passed, before delivery, an overpressure test of a period comprised between 10 and 60 seconds under 17.4 bar.