



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

Ex COMPONENT CERTIFICATE

Certificate No.:	IECEX INE 13.0082U	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2021-12-22)
Date of Issue:	2023-01-16		Issue 1 (2016-05-20)
Applicant:	BARTEC F.N. S.R.L. Via M. Pagano, 3 I - 20090 Trezzano sul Naviglio (MI) Italy		Issue 0 (2014-08-12)
Ex Component:	Empty enclosures type GUB* and GUBW*		

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **db and tb**

Marking: Ex db IIC Gb
Ex tb IIIC Db
IP66

Approved for issue on behalf of the IECEX
Certification Body:

Position:

Signature:
(for printed version)

Date:
(for printed version)



Thierry HOUEIX

Ex Certification Officer

2023-01-16

Signé électroniquement
Digitally signed by
Thierry HOUEIX
Ex Certification Officer
Délégué Certification

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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



controlling risks
for sustainable development



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Issue No: 3

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

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

FENEX
Via Carducci, 16
I - 34070 MORARO (GO)
Italy

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 component 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

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

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

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 component listed has successfully met the examination and test requirements as recorded in:

Test Report:

[FR/INE/ExTR13.0082/03](#)

Quality Assessment Reports:

[IT/CES/QAR09.0003/15](#)

[IT/CES/QAR12.0006/09](#)



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Ex Component(s) covered by this certificate is described below:

Metallic enclosures made in aluminum alloy, stainless steel, carbon steel or cast iron of different sizes for Group IIC and IIIC.

These enclosures can have a blind cover or provided with a glass window.

The enclosures can be fitted with tubes (maximum diameter 3" and maximum length 200 mm) in order to assembly two flameproof enclosures separated by a certified sealing fitting in accordance with the drawing specified in the descriptive documents.

These Ex components get the degrees of protection IP66 in accordance with IEC 60529

SCHEDULE OF LIMITATIONS:

- The enclosures provided with windows have been assessed and tested to be used in the range of the operating temperatures from -60°C to + 120°C.
- The enclosures provided without windows have been assessed and tested to be used in the range of the operating temperatures from -60°C to + 200°C.
- The non transmission tests have been performed for a maximum ambient temperature of +80°C.
- The width of the flameproof joints is superior to those specified in tables of IEC 60079-1 standard.
- The content of the Ex component enclosure equipment may be placed in any arrangement provided that an area of at least 40% of each cross-sectional area remains free to permit unimpeded gas flow and, therefore, unrestricted development of an explosion.
- For GUBW3LR, during the installation, the user will take into consideration that the equipment underwent only a shock corresponding to an energy of a low risk. The user must also consider that the minimum ambient temperature is -20°C for the same model.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

ISSUE N°1

- Application of the IEC 60079-1:2014 standard .
- Possibility of manufacturing the faces of enclosures to have a flat part for a better intallation of the cable glands. The depth of manufacturing is lower or equals to 2 mm.

ISSUE N°2

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

ISSUE N°3

- Application of IEC 60079-0:2017 standard
- Addition of electrostatic warning "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS"
- Update of manufacturer document, especially drilling limits table
- Reduce glass thickness for GUBW3 from 15 mm to 10 mm or 12 mm

Annex:

[IECEX INE 13.0082U-03_Annex.pdf](#)



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Annex: IECEx INE 13.0082U-03_Annex.pdf

PARAMETERS RELATING TO THE SAFETY

None

MARKING

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

- BARTEC FN (*)
- I – 20090 Trezzano Sul Naviglio (MI)
- GUB* or GUBW* (**)
- IECEx INE 13.0082U
- (Serial number)
- Ex db IIC Gb
- Ex tb IIIC Db
- EMPTY ENCLOSURE WITH Ex COMPONENT CERTIFICATE.
- POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS (***)

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

(**) Type is completed by numbers and /or letters corresponding to manufacturing variations.

(***) Warning to be added when thickness of not conductive paint applied on the enclosure is > 2 mm (Group IIB) or > 0.2 mm (Group IIC).

ROUTINE EXAMINATIONS AND TESTS

In accordance with clause 16.1 of the IEC 60079-1 standard each piece of the Ex Component defined above has to have successfully passed, before delivery, an overpressure test for at least 10 seconds under:

- 14.1 bar for ambient temperature down to -20°C.
- 17.1 bar for ambient temperature down to -40°C.
- 18.6 bar for ambient temperature down to -60°C.

For conduit tube:

In accordance with clause 16.1 of the IEC 60079-1 standard each pieces of the Ex Component defined above has to have successfully passed, before delivery, an overpressure test for at least 10 seconds under 22 bar.