



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 13.0001U** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 1 [Issue 0 \(2013-12-20\)](#)
Date of Issue: 2021-11-03
Applicant: **BARTEC TECHNOR AS**
Vestre Svanholmen 24
SANDNES 4313
Norway
Ex Component: Empty Flameproof enclosure type DE8-BC... or DE8-BC...D
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 IIB Gb or Ex db IIB + H₂ Gb
Ex tb IIIC Db

Approved for issue on behalf of the IECEx
Certification Body:

Thierry HOUËIX

Position:

Certification Officer

Signature:
(for printed version)

Date:

2021-11-03

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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 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



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Manufacturer: **BARTEC TECHNOR AS**
Vestre Svanholmen 24
Sandnes 4313
Norway

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 60079-0:2017 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 equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[FR/INE/ExTR13.0088/01](#)

Quality Assessment Report:

[NO/NEM/QAR07.0003/13](#)



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

Empty flameproof enclosure type DE8-BC... or DE8-BC...D, made in stainless or carbon steel. Different sizes are intended and stipulated on the descriptive documents.

The enclosures are also protected by the protection mode "tb".

The enclosures present the degrees of protection IP66 (in compliance with EN/IEC 60529).

SCHEDULE OF LIMITATIONS:

The content of the Ex component enclosure must be in accordance with the clause 3.10 of annex D of IEC 60079-1 standard.

The values of flameproof joints (lengths and gaps) are detailed in note of manufacturer.

The screws used for the assembly of the various parts of explosion-proof enclosures must be of yield stress higher or equal to the values defined in the table below :

Ref.	Head screw	ISO Standard	Nb	Diam	Mat.	Quality of screw for -20°C	Quality of screw for -40°C
DE8-BC32, 351, 43	H CHc	ISO 4017 ISO 4762	12 or 14	M12	Stainless Steel or Carbon Steel	A4-80	A4-80
DE8-BC44, 54, 64, 75	H CHc	ISO 4017 ISO 4762	16 to 24	M14	Stainless Steel or Carbon Steel	A4-80	A4-80
DE8-BC86, 107, 108	H CHc	ISO 4017 ISO 4762	26 or 30	M16	Stainless Steel or Carbon Steel	A4-80	A4-80
DE8-BC32D, 351D, 43D	H CHc	ISO 4017 ISO 4762	12 or 14	M12	Stainless Steel or Carbon Steel	A4-80	A4-80
DE8-BC44D, 54D, 64D	H CHc	ISO 4017 ISO 4762	16 to 20	M14	Stainless Steel or Carbon Steel	A4-80	10.9
DE8-BC75D	H CHc	ISO 4017 ISO 4762	24	M14	Stainless Steel or Carbon Steel	12.9	/
DE8-BC86D	H CHc	ISO 4017 ISO 4762	26	M16	Stainless Steel or Carbon Steel	12.9	/
DE8-BC108D	H CHc	ISO 4017 ISO 4762	38	M16	Stainless Steel or Carbon Steel	10.9	12.9



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Application of new standards:

- * IEC 60079-0:2017
- * IEC 60079-1:2014
- * IEC 60079-31:2013

- Add of variant DE8-BC...D.

Annex:

[IECEX INE 13.0001U-01_Annex.pdf](#)



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Annex: IECEx INE 13.0001U-01_Annex.pdf

PARAMETERS RELATING TO THE SAFETY

Maximum current : 1000 A
Maximum DC voltage : 440 V
Maximum AC voltage : 3500 V

MARKING

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

BARTEC TECHNOR AS
N-4313 SANDNES
DE8-BC...or DE8-BC...D
IECEX INE 13.0001U
(Serial Number)
Ex db IIB Gb or Ex db IIB + H2 Gb
Ex tb IIIC Db
T. Amb.: -40°C, -20°C to +60°C
Type and number of threads: see instructions

WARNINGS:

EMPTY ENCLOSURE WITH Ex COMPONENT CERTIFICATE.
THIS EQUIPMENT SHALL BE INSTALLED SO THAT THE FLANGED JOINTS ARE NOT WITHIN 30 mm (FOR IIB) OR 40 mm (FOR IIB + H2) OF A SOLID OBJECT THAT IS NOT PART OF THIS EQUIPMENT.

Marking may be carried out in the language of the country of use.

The protective system or equipment has also to carry the marking normally stipulated by its construction standards.

ROUTINE EXAMINATIONS AND TESTS

In accordance with clause 16.1 of the IEC 60079-1 standard, each exemplar of the Ex Component defined above has to have successfully passed, before delivery, an overpressure test of a period of 10 seconds minimum under of pressure of:

Ref.	Overpressure Test value for -20°C	Overpressure Test value for -40°C
DE8-BC32, 351, 43	12.9 bar	16.5 bar
DE8-BC44, 54, 64, 75	12.9 bar	16.5 bar
DE8-BC86, 107, 108	12.9 bar	16.5 bar
DE8-BC32D, 351D, 43D	12.27 bar	15.735 bar
DE8-BC44D, 54D, 64D	13.365 bar	16.14 bar
DE8-BC75D	15.585 bar	/
DE8-BC86D	15.585 bar	/
DE8-BC108D	17.535 bar	20.49 bar