



# 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 LCI 10.0008X issue No.: 0 Certificate history:

Status: **Current**

Date of Issue: 2010-05-11 Page 1 of 3

Applicant: **S.I.B-A.D.R**  
50, rue du capitaine Maillard  
B.P 40  
57220 BOULAY  
France

Electrical Apparatus: **Cable Glands**  
Optional accessory:

Type of Protection: "e", "tD".

Marking: **SIB - ADR**  
Type : EC x  
Ex e II  
Ex tD A21 IP6X  
IECEX LCI 10.0008X

Approved for issue on behalf of the IECEx  
Certification Body:

Michel EQUI

Position: Certification manager

Signature:  
(for printed version)

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 the Official IECEx Website.

Certificate issued by:

**Laboratoire Central des Industries Electriques (LCIE)**  
33 Avenue du General Leclerc  
FR-92260 Fontenay-aux-Roses  
France





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Manufacturer: **S.I.B-A.D.R**  
50, rue du capitaine Maillard  
B.P 40  
57220 BOULAY  
France

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 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*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/LCI/ExTR10.0011/00

#### Quality Assessment Report:

FR/LCI/QAR10.0003/00



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## Schedule

### EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

#### Description of the equipment :

The cable glands type EC x model SIB-TEC in plastic are designed to ensure "e" and "tD" protection mode for round cable entry besides enclosure wall in metal or plastic. Clamping of the cable is realized by a sealing ring in neoprene. The cable gland is mounted either with a brass lock-nut or with a plastic lock-nut for specific cases.

Two plastic materials are used for fabrication of the cable glands according to the size of the cable gland : Polyamide 6 (ref. A9380003 & A9380008) and Polyamide 66 (ref. A9380010). Four threaded types are used : ISO metric, NPT and PG. The table below describes the operating ambient temperature, the different sizes available and material used in function of cable gland size :

Sizes			SIB ADR materials used	
Métric (pitch : 1,5mm)	PG	NPT	PA 66 (ref A9380010 & A9380011*)	PA 6 (ref A9380003 & A9380008)
12	7		(1)	/
16	9	3/8"	(2)	/
16	11		(2)	/
20	13	1/2"	(2)	/
20	16		(2)	/
25			(2)	/
25	21	3/4"	(2)	/
32	29	1"	(2)	/
40	36		/	(2) <sup>a</sup>
50	42		/	(2) <sup>a</sup>
63	48		/	(2) <sup>a</sup>

(1) :  $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +80^{\circ}\text{C}$

(2) :  $-35^{\circ}\text{C} \leq T_{\text{amb}} \leq +95^{\circ}\text{C}$

(2)<sup>a</sup> : Do not use a locknut in brass; only a locknut in PA 6 25% fibreglass material.

\* Blue cable glands made with plastic reference A9380011 shall be only used in intrinsically safe installation.

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

#### SPECIAL CONDITIONS FOR SAFE USE :

Do not use a locknut in brass; only a locknut in PA 6 25% fibreglass material for cable glands SIB TEC M40 to M63 and SIB TEC PG36 to PG48.

Operating ambient temperature :

$-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +80^{\circ}\text{C}$  for the cable glands SIB TEC size M12 and PG7.

$-35^{\circ}\text{C} \leq T_{\text{amb}} \leq +95^{\circ}\text{C}$  for the rest of the SIB TEC range.