



# 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)

### Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx CML 21.0010U** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2022-01-18

Applicant: **Abtech Ltd**  
199 Newhall Road  
Lower Don Valley  
Sheffield, S9 2QJ  
**United Kingdom**

Ex Component: ZAG Range of Enclosures

*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: **Increased Safety "eb", Intrinsically Safe "ia"/"ib", Dust Ignition "ta"/"tb"**

Marking: Ex ia IIC Ga  
Ex ta IIIC Da IP6X  
  
Ex eb IIC Gb  
Ex tb IIIC Db IP6X  
  
Ex ib IIC Gb  
Ex tb IIIC Db IP6X  
  
Ts = -65°C to +180°C or -60°C to +90°C

Approved for issue on behalf of the IECEx  
Certification Body:

**R C Marshall**

Position:

**Operations Manager**

Signature:  
(for printed version)

Date:

2022-01-18

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:

**Eurofins E&E CML Limited**  
Unit 1, Newport Business Park  
New Port Road  
Ellesmere Port, CH65 4LZ  
United Kingdom





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Manufacturer: **Abtech Ltd**  
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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 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 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

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

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

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:

[GB/CML/ExTR21.0007/00](#)

Quality Assessment Report:

[GB/CML/QAR16.0021/07](#)



# IECEx Certificate of Conformity

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

The ZAG range of enclosures are manufactured from aluminium alloy.

Refer to Annex for full description.

**SCHEDULE OF LIMITATIONS:**

Refer to Annex for schedule of limitations.

**Annex:**

[IECEx CML 21.0010U Iss. 0 Certificate Annex.pdf](#)

**Annexe to:** IECEx CML 21.0010U Issue 0

**Applicant:** Abtech Ltd.

**Apparatus:** ZAG range of enclosures

## Description

The ZAG range of enclosures are manufactured from aluminium alloy in the following sizes:

**Table 1 - Enclosure Sizes**

ZAG Box Ref.	Width (mm)	Height (mm)	Depth (mm)	ZAG Box Ref.	Width (mm)	Height (mm)	Depth (mm)
2	58	64	34	10/9	220	120	90
3	98	64	34	11	160	160	90
4	150	64	34	12	260	160	90
5	75	80	57	13	360	160	90
6	125	80	57	14	560	160	90
7	175	80	57	15	202	230	110
8	250	80	56	16	330	230	110
9	122	120	80				
9/9	122	120	90				
10	220	120	80				

The enclosures may also be manufactured in sizes not specified in the table. This assumes that any given

dimension is not larger than the respective dimension of the largest enclosure or smaller than the respective dimension of the smallest enclosure. The lids may be hinged or detachable and are retained with captive screws. The enclosures are sealed to IP66 by gaskets of closed cell silicone rubber.

Entries may be provided either through the sides or the rear of the enclosure and external and internal earthing facilities are provided. There is an option to fit slotted trunking inside the enclosures, this trunking may be sited as required.

Eurofins E&E CML Limited  
Newport Business Park  
New Port Road  
Ellesmere Port  
CH65 4LZ

T +44 (0) 151 559 1160  
E [info@cmlex.com](mailto:info@cmlex.com)

[www.cmlex.com](http://www.cmlex.com)

Company Reg No. 8554022 VAT No. GB163023642



**Notes:**

- IECEx Cert No. IECEx SIR 12.0116U is superseded by this certificate.
- The product covered by Issue 0 of this certificate remains identical to that previously covered by IECEx Cert No. IECEx SIR 12.0116U
- Where IECEx Cert No. IECEx SIR 12.0116U is specified in other product certification, or other technical specifications, this certificate reference for the product shall be used in its place; updating of the other product certificate or technical specification is not required.

**Conditions of Manufacture**

None

**Schedule of Limitations**

The following conditions relate to safe installation and/or use of the components.

- i. These enclosures shall be used within the following temperature ranges:

Gasket Material	Maximum allowable service temperature	
	Without 4 mm glass window	With 4 mm glass window
Closed cell silicone rubber	Ts = -65°C to +180°C	Ts = -60°C to +90°C

- ii. The materials used in the construction of this equipment contain levels of Al, Mg, Ti, Zr that are greater than that allowed for EPL Ga by clause 8.3 of IEC 60079-0, therefore in rare cases, ignition sources due to impact and friction sparks could occur. The equipment shall therefore be protected from such impact and friction when installed.