

UK Type Examination Certificate CML 21UKEX3137U Issue 0

United Kingdom Conformity Assessment

- 1 Component Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1
- 2 Component **Zag range of enclosures**
- 3 Manufacturer **Abtech Ltd.**
- 4 Address **199 Newhall Road,
Lower Don Valley,
Sheffield S9 2QJ,
United Kingdom**
- 5 The component is specified in the description of this certificate and the documents to which it refers.
- 6 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, Approved Body Number 2503, in accordance with Section 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 The 'U' suffix after the certificate number indicates that the component is subject to limitations (affecting correct installation or safe use). These are specified in Section 14.
- 8 This UK Type Examination certificate relates only to the design and construction of the specified component. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

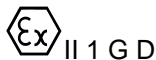
EN IEC 60079-0:2018

EN IEC 60079-7:2015+A1:2018

EN 60079-11:2012

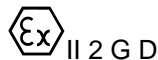
EN 60079-31:2014

- 10 The equipment shall be marked with the following:



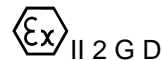
Ex ia IIC Ga

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



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11 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.

Notes:

- ATEX Cert No. Sira 99ATEX3174U / 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 ATEX Cert No. Sira 99ATEX3174U / IECEx Cert No. IECEx SIR 12.0116U
- Where ATEX Cert No. Sira 99ATEX3174U / 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.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	18 Jan 2022	R13809B/00	Issue of Prime Certificate

Note: Drawings that describe the component are listed in the Annex.



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13 Conditions of Manufacture

None

14 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.

Certificate Annex

Certificate Number CML 21UKEX3137U
Component Zag range of enclosures
Manufacturer Abtech Ltd.



The following documents describe the component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
ABT38426	1 of 1	A	18 Jan 2022	ZAG Enclosures
ABT38427	1 of 1	A	18 Jan 2022	ZAG Manufacturing Specification
ABT38428	1 of 1	A	18 Jan 2022	ZAG Component Certification Labels