	Certification Solution	LECTROTECHNICAL C cheme for Explosive A ils of the IECEx Scheme visit www.iece	tmospheres
Certificate No.:	IECEx BAS 09.0017	7 issue No.:7	Certificate history:
Status:	Current		Issue No. 7 (2015-6-10) Issue No. 6 (2015-2-27) Issue No. 5 (2014-12-
Date of Issue:	2015-06-10	Page 1 of 4	11) Issue No. 4 (2014-11-
Applicant	Chalmit Lighting 388 Hillington Road Gtasgow G52 4BL United Kingdom		27) Issue No. 3 (2014-1-30) Issue No. 2 (2013-4-22) Issue No. 1 (2012-5-29) Issue No. 0 (2010-6-25)
Electrical Apparatus: Optional accessory:	The Protecta III Ran	ge of Luminaires	
Type of Protection:	Increased Safety 'e', enclosure	, Powder Filled 'q', Encapsulation 'm	', Flameproof 'd', Protection b
Marking:	Ex e mb q IIC T4 Gb or Ex d e mb q IIC T4 G Ex tb IIIC T85°C Db I	ib P66/67	
	Ta : See description		
	÷	R S Sinclair	
Certification Body:	÷	R S Sinclair Technical Manager	
Approved for issue on t Certification Body: Position: Signature: (for printed version)	÷		MADWHEY
Certification Body: Position: Signature: (for printed version) Date: 1. This certificate and so 2. This certificate is not	chedule may only be repro	Technical Manager	Mowney
Certification Body: Position: Signature: (for printed version) Date: 1. This certificate and so 2. This certificate is not	chedule may only be repro	Technical Manager	CEx Website.

	IECEx Certificate of Conformity		
Certificate No.:	IECEx BAS 09.0017		
Date of Issue:	2015-06-10	Issue No.: 7	
		Page 2 of 4	
Manufacturer:	Chalmit Lighting 388 Hillington Road Glasgow G52 4BL United Kingdom		

(e),

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:

IEC 60079-0 : 2007-10 Edition: 5	Explosive atmospheres - Part 0:Equipment - General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-18 : 2004 Edition: 2.0	Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus
IEC 60079-5 : 2007-03 Edition: 3	Explosive atmospheres - Part 5: Equipment protection by powder filling "q"
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
IEC 61241-1 : 2004 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: GB/BAS/ExTR09.0035/00 GB/BAS/ExTR14.0037/00 GB/BAS/ExTR15.0006/00

GB/BAS/ExTR12.0140/00 GB/BAS/ExTR14.0286/00 GB/BAS/ExTR15.0125/00 GB/BAS/ExTR13.0092/00 GB/BAS/ExTR14.0349/00

Quality Assessment Report:

GB/BAS/QAR06.0027/05

		c Certificate onformity
Certificate No.:	IECEx BAS 09.0017	
Date of Issue:	2015-06-10	Issue No.: 7
		Page 3 of 4
	Schedule	
QUIPMENT: quipment and systems cov	vered by this certificate are as follows:	
	minaires comprises single / twin bi-pin flu	orescent lamp units of 18W and 36W in emergency
lease snap-on clamp bar n	user is hinged along one side to the body uns the entire length and is used to seal t	esin or stainless steel and the diffuser is manufactured of the luminaire and along the other side a quick he diffuser to the body. The stainless steel body option s secured in a grove in the body of the luminaire and
e luminaire may have an c	optional insert switch fitted to allow remov	al of the fully isolated gear tray.
efer to the Annex to this cer	rtificate for full details of the equipment.	
ONDITIONS OF CERTIFIC	CATION: NO	
ONDITIONS OF CERTIFIC	CATION: NO	
ONDITIONS OF CERTIFIC	CATION: NO	
INDITIONS OF CERTIFIC	CATION: NO	
NDITIONS OF CERTIFIC	CATION: NO	
NDITIONS OF CERTIFIC	CATION: NO	
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ONDITIONS OF CERTIFIC	CATION: NO	
NDITIONS OF CERTIFIC	CATION: NO	
	CATION: NO	
PNDITIONS OF CERTIFIC	CATION: NO	

IEC.		Ex Certificate Conformity
Certificate No.:	IECEx BAS 09:0017	
Date of Issue:	2015-06-10	Issue No.: 7
		Page 4 of 4
ETAILS OF CERTIFICAT	E CHANGES (for issues 1 and abo	ove):
ariation 7.1		
he permit the addition of a eating unit to IECEx BAS 0	heater around the battery for the eme 6.0043X	rgency LED models. The heater comprises of self-limiting
he heater can have an opti nbient temperature range	onal Ex d thermostat to IECEx LCI 07 is -40 C to + 45 C and the marking is	.0021 in series with the heating cable. If provided the Ex d e mb q IIC T4 Gb.
ExTR: GB/BAS/ExTR15	i.0125 /00 F	ile Reference: 13/0353



	for rules and det	Scheme for Explosive A lails of the IECEx Scheme visit www.iece	Atmospheres ex.com
Certificate No.:	IECEx BAS 09.00	17 issue No.:6	Certificate history:
Status:	Current		Issue No. 6 (2015-2-27) Issue No. 5 (2014-12- 11)
Date of Issue:	2015-02-27	Page 1 of 4	issue No. 4 (2014-11- 27) Issue No. 3 (2014-1-30)
Applicant:	Chalmit Lighting 388 Hillington Road Glasgow G52 4BL United Kingdom	d	Issue No. 2 (2013-4-22) Issue No. 1 (2012-5-29) Issue No. 0 (2010-6-25)
Electrical Apparatus: Optional accessory:	The Protecta III Ra	ange of Luminaires	
Type of Protection:	Increased Safety ' enclosure	e', Powder Filled 'q', Encapsulation 'n	n', Flameproof 'd', Protection
Marking:	Ex e mb q IIC T4 G or Ex d e mb q IIC T4 Ex tb IIIC T85°C D Ta : See descriptio	Gb b IP66/67	
Approved for issue on b Certification Body:	ehalf of the IECEx	R S Sinclair	
Position:		Technical Manager	
Signature: (for printed version)		Dee	
Date:		27 FEBRUARY 2015	
1. This certificate and so 2. This certificate is not 3. The Status and authe	transferable and remai	produced in full. ns the property of the issuing body. a may be verified by visiting the Official I	ECEx Website.
ertificate issued by:			
Rockh	Baseefa Limited ead Business Park Staden Lane Buxton Derbyshire	SG	Baseefa

Ex Certificate f Conformity	
Issue No.: 6	
Page 2 of 4	
epresentative of production, was assessed and tested the manufacturer's quality system, relating to the Ex nply with the IECEx Quality system requirements. Th IECEx Scheme Rules, IECEx 02 and Operational Do	products iis
it specified in the schedule of this certificate and the i irds:	identified
rt 0:Equipment - General requirements	
rt 1: Equipment protection by flameproof enclosures '	'd"
osive gas atmospheres - Part 18: Construction, test a encapsulation 'm' electrical apparatus	Ind
rt 5: Equipment protection by powder filling "q"	
rt 7: Equipment protection by increased safety "e"	
n the presence of combustible dust - Part 1: Protection	on by
trical safety and performance requirements other that he Standards listed above.	n those
he examination and test requirements as recorded in	1
0140/00 GB/BAS/ExTR13.0092/00 0286/00 GB/BAS/ExTR14.0349/00	

IEC.		Certificate onformity
Certificate No.:	IECEx BAS 09.0017	
Date of Issue:	2015-02-27	Issue No.: 6
		Page 3 of 4
	Schedule	
QUIPMENT: quipment and systems con	vered by this certificate are as follows:	
nd non-emergency variants he luminaire body is manuf om polycarbonate. The diffi elease snap-on clamp bar n as clips that are placed alor	actured from glass reinforced polyester re user is hinged along one side to the body uns the entire length and is used to seal t	orescent lamp units of 18W and 36W in emergency esin or stainless steel and the diffuser is manufactured of the luminaire and along the other side a quick he diffuser to the body. The stainless steel body option a secured in a grove in the body of the luminaire and
orms an IP66/67 seal.		
	ptional insert switch fitted to allow remove rtificate for full details of the equipment.	al of the fully isolated gear tray.
ONDITIONS OF CERTIFIC	CATION: NO	



Certificate No.:

IECEx BAS 09.0017

Date of Issue:

2015-02-27

Issue No.: 6

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 6.1

To include an emergency version of the LED luminaires. The marking for emergency luminaires with the LED light source is:

Ex e mb q IIC T4 Gb (-40°C ≤Ta ≤+55°C) Ex tb IIIC T95°C Db

The following models are included:

Version	Light source	Mains input (Vac)	Input Current (mA)	Emergency operation (minutes)
-HV-550-E	2 x 600mm LED strip	220-254	155	90
-HV-1100-E	2 x 1200mm LED strip	220-254	295	90
-LV-550-E	2 x 600mm LED strip	110-130	275	90
-LV-1100-E	2 x 1200mm LED strip	110-130	545	90
-HV-550-E180	2 x 600mm LED strip	220-254	155	180
-HV-1100-E180	2 x 1200mm LED strip	220-254	295	180
-LV-550-E180	2 x 600mm LED strip	110-130	275	180
-LV-1100-E180	2 x 1200mm LED strip	110-130	545	180

ExTR: GB/BAS/ExTR15.0006/00

File Reference: 15/0071



ANNEX to IECEx BAS 09.0017

Issue No. 3

Date: 2015/2/27

The Protecta III Range of Luminaires comprises single / twin bi-pin fluorescent lamp units of 18W and 36W in emergency and non-emergency variants.

The luminaire body is manufactured from glass reinforced polyester resin or stainless steel and the diffuser is manufactured from polycarbonate. The diffuser is hinged along one side to the body of the luminaire and along the other side a quick release snap-on clamp bar runs the entire length and is used to seal the diffuser to the body. The stainless steel body option has clips that are placed along the length of the luminaire. A gasket is secured in a grove in the body of the luminaire and forms an IP66/67 seal.

GRP models are identified by the catalogue code PRGE/***/, and the stainless steel models are identified by PRSE/***/. The code further defines the number and wattage of the lamps, bi-pin, emergency, voltage etc.

The control gear components are mounted within the body of the luminaire via a removable gear tray.

The electronic control gear is ATEX component certified and has been revalidated within the IECEx report in accordance with the IECEx Operational Document OD009. The component certification covers the parallel circuit ballast type ILB. The same certificate covers CNEVA electronic control gear incorporating an inverter for use on emergency models. Emergency models have a 6 volt battery made up of 5 Nickel-cadmium batteries connected in series rated at either 4 or 7 Ah. The CNEVA control gear controls the charging and discharging of the battery, providing under-voltage and over-voltage protection and preventing reverse polarity charging of the cells.

The body of the enclosure is fitted with 4 cable entries, maximum two at each end. The permitted component certified blanking elements to be used are detailed in the table below. Other suitable equipment certified blanking elements may be used.

Component / Manufacturer	Part No.	Certificate No.	Temperature range / IP rating
Blanking element / Redapt	PD-U-	IECEx SIR 05.0042U / SIRA00ATEX1094	-50°C to +150°C (Nitrile O'ring) / IP66/68
	Туре 375	IECEx BAS 06.0056U / Baseefa06ATEX0236U	-60°C to +75°C / IP66/67
Blanking element / Hawke	Type 387	IECEx BAS 06.0029U / Baseefa06ATEX0118U	-60°C to +80°C (Nitrile O'ring) -60°C to +160°C (Silicone O'ring) / IP66/67

The enclosure must be fitted with suitably approved cable entry devices which shall maintain the ingress protection rating of the enclosure.

The body is also fitted with 2 x M8 bushes for mounting purposes. The stainless steel bodied version is supplied with external brackets to allow for mounting.

Brass earth continuity plates are fitted to the entries of the luminaires on the GRP bodied versions and an internal/external M8 earth stud is fitted to the body of the stainless steel bodied version. An earth terminal is also fitted to the gear tray. All the earth points are connected together via earth conductors.

* The ambient temperature ranges for the different models of luminaire are shown in the table below.



ANNEX to IECEx BAS 09.0017

Issue No. 3

Date: 2015/2/27

Body Material	Lamp Type	Model	Lamps	T _{amb} (°C)	T Class	Max Surface temperature (°C)
		Non-emergency	2 x 18W			
GRP	Bi-pin		2 x 36W	-20 to +55		
		Emergency	2 x 18W	-2010+00		
		Linergency	2 x 36W	1	T4	TOF
		Non-emergency	2 x 18W	-20 to +55	1 14	T85
Stainless Bi-n	Bi-pin		2 x 36W			
Steel		Emergency	2 x 18W	20 to ±45	1	
		Lineigency	2 x 36W	-20 to +45		

Alternatively if the enclosures are fitted with the silicone gasket they may be used within a lower ambient of -40°C.

Internal wiring is by 0.75mm² or 1.0mm² stranded copper conductors with PVC insulation. Through wiring is by 2.5mm² or 4mm² stranded conductors with PVC insulation.

Variation 0.1

An isolating switch may be fitted to the luminaire operated by a raised lip on the diffuser. When the diffuser is opened the contacts of the switch open-circuit and de-energises the luminaire. When this switch is fitted the equipment is marked as follows:

Ex d e mb q IIC T4 Gb Ex tb IIIC T85°C Db IP66/67

Variation 0.2

Version of the enclosure with pole mounting option. The base of the enclosure incorporates a sleeve for the pole. The sleeve is fitted internally with a certified cable gland and a silicone seal around the entry which maintains the IP66/67 rating of the luminaire. Grub screws are incorporated into the sleeve to secure the luminaire to the pole once mounted. When the pole mounted variation is used the luminaire is restricted to the temperature range and IP rating of the cable gland.

Variation 1.1

To allow the use of an alternative silicone gasket.

Variation 2.1

To note minor drawing changes.

Variation 3.1

To allow the optional addition of the Bartec Insert Switch 07-1511, certified as IECEx PTB 07.0040U. This will enable the removal of the fully isolated gear tray from the luminaire.

Variation 4.1

To allow an alternative moulded insert for mounting the luminaire.

SGS Baseefa Limited
Rockhead Business Park
Staden lane, Buxton, Derbyshire
SK17 9RZ
United Kingdom



ANNEX to IECEx BAS 09,0017

Issue No. 3

Date: 2015/2/27

Variation 5.1

To allow an alternative light source consisting of encapsulated LED strips and associated Ex q driver circuit covered by DEKRA13ATEX0096U and Baseefa14ATEX0365U respectively. The marking for luminaires with the LED light source is:

Ex e mb q IIC T4 Gb T_{amb} -40°C to +55°C Ex tb IIIC T95°C Db

The following models are included:

Version	Light source	Mains input (Vac)	Input Current (mA)
LV-550	2 x 600mm LED strip	110-130	275
LV-1100	2 x 1200mm LED strip	110-130	545
HV-550	2 x 600mm LED strip	220-254	155
HV-1100	2 x 1200mm LED strip	220-254	295

Variation 6.1

To include an emergency version of the LED luminaires. The marking for emergency luminaires with the LED light source is:

Ex e mb q IIC T4 Gb (-40°C ≤Ta ≤+55°C) Ex tb IIIC T95°C Db

The following models are included:

Version	Light source	Mains input (Vac)	Input Current (mA)	Emergency operation (minutes)
-HV-550-E	2 x 600mm LED strip	220-254	155	90
-HV-1100-E	2 x 1200mm LED strip	220-254	295	90
-LV-550-E	2 x 600mm LED strip	110-130	275	90
-LV-1100-E	2 x 1200mm LED strip	110-130	545	90
-HV-550-E180	2 x 600mm LED strip	220-254	155	180
-HV-1100-E180	2 x 1200mm LED strip	220-254	295	180
-LV-550-E180	2 x 600mm LED strip	110-130	275	180
-LV-1100-E180	2 x 1200mm LED strip	110-130	545	180



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

Certificate No.:	IECEx BAS 09,0017		Issue No: 5	Certificate history:
				Issue No. 5 (2014-12-11)
Status:	Current		Page 1 of 4	Issue No. 4 (2014-11-27)
				Issue No. 3 (2014-01-30)
Date of Issue:	2014-12-11			Issue No. 2 (2013-04-22)
				Issue No. 1 (2012-05-29)
Applicant:	Chaimit Lighting			Issue No. 0 (2010-06-25)
	388 Hillington Road			
	Glasgow			
	G52 4BL			
	United Kingdom			
Electrical Apparatus:	The Protecta III Range of Lumina	lires		
Optional accessory:				
Type of Protection	Increased Safety 'e', Powder Filk	ed 'q', Encapsulation 'm', F	lameproof 'd', Pr	otection by enclosure
		•		•
Marking:	Ex e mb q IIC T4 Gb			
	or			
	Ex d e mb q IIC T4 Gb Ex tb IIIC T85°C Db IP66/67			
	Ta : See description			
Amount for insue on baball of th				
Approved for issue on behalf of th	le IECEX	R S Sinclair		
Certification Body:				
Position:		General Manager		
			/ /	
Signature		770) ~
(for printed version)			s'at	on
		1 - 0	/	
Date		11	15	14
			16-1	1
 This certificate and schedule manual 	av only be reproduced in full.			

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:

SGS Baseefa Limited Rockhead Business Park Staden Lane Buxton Derbyshire SK17 9RZ United Kingdom



Certificate No:	IECEx BAS 09.0017	Issue No: 5
Date of Issue:	2014-12-11	Page 2 of 4
Manufacturer:	Chaimit Lighting 388 Hillington Road Glasgow G52 4BL United Kingdom	

Additional Manufacturing location(s):

IEC *IEĈE*

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:

IEC 60079-0 : 2007-10 Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-18 : 2004 Edition:2.0	Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus
IEC 60079-5 : 2007-03 Edition:3	Explosive atmospheres - Part 5: Equipment protection by powder filling "q"
IEC 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
IEC 61241-1 : 2004 Edition:1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "ID"

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:

GB/BAS/ExTR09.0035/00 GB/BAS/ExTR14.0037/00 GB/BAS/ExTR12.0140/00 GB/BAS/ExTR14.0286/00 GB/BAS/ExTR13.0092/00 GB/BAS/ExTR14.0349/00

Quality Assessment Report:

GB/BAS/QAR06.0027/04



Certificate No:

IECEx BAS 09.0017

Date of Issue:

2014-12-11

Issue No: 5

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Protecta III Range of Luminaires comprises single / twin bi-pin fluorescent lamp units of 18W and 36W in emergency and nonemergency variants.

The luminaire body is manufactured from glass reinforced polyester resin or stainless steel and the diffuser is manufactured from polycarbonate. The diffuser is hinged along one side to the body of the luminaire and along the other side a quick release snap-on clamp bar runs the entire length and is used to seal the diffuser to the body. The stainless steel body option has clips that are placed along the length of the luminaire. A gasket is secured in a grove in the body of the luminaire and forms an IP66/67 seal.

The luminaire may have an optional insert switch fitted to allow removal of the fully isolated gear tray.

Refer to the Annex to this certificate for full details of the equipment.

CONDITIONS OF CERTIFICATION: NO



Certificate No:

Date of Issue:

IECEx BAS 09.0017

Issue No: 5

2014-12-11

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 5.1

To allow an alternative light source consisting of encapsulated LED strips and associated Ex q driver circuit covered by DEKRA13ATEX0096U and Baseefa14ATEX0365U respectively. The marking for luminaires with the LED light source is: Ex e mb q IIC T4 Gb (-40°C \leq Ta \leq +55°C) Ex tb IIIC T95°C Db

The following models are included:

Version	Light source	Mains input (Vac)	Input Current (mA)
LV-550	2 x 600mm LED strip	110-130	275
LV-1100	2 x 1200mm LED strip	110-130	545
HV-550	2 x 600mm LED strip	220-254	155
HV-1100	2 x 1200mm LED strip	220-254	295

ExTR: GB/BAS/ExTR14.0349/00

File Reference: 14/0944

Annex:

IECEx BAS 09.0017 Annex Issue 2.pdf



ANNEX to IECEx BAS 09.0017

Issue No. 2

Date: 2014/12/11

The Protecta III Range of Luminaires comprises single / twin bi-pin fluorescent lamp units of 18W and 36W in emergency and non-emergency variants.

The luminaire body is manufactured from glass reinforced polyester resin or stainless steel and the diffuser is manufactured from polycarbonate. The diffuser is hinged along one side to the body of the luminaire and along the other side a quick release snap-on clamp bar runs the entire length and is used to seal the diffuser to the body. The stainless steel body option has clips that are placed along the length of the luminaire. A gasket is secured in a grove in the body of the luminaire and forms an IP66/67 seal.

GRP models are identified by the catalogue code PRGE/***/, and the stainless steel models are identified by PRSE/***/. The code further defines the number and wattage of the lamps, bi-pin, emergency, voltage etc.

The control gear components are mounted within the body of the luminaire via a removable gear tray.

The electronic control gear is ATEX component certified and has been revalidated within the IECEx report in accordance with the IECEx Operational Document OD009. The component certification covers the parallel circuit ballast type ILB. The same certificate covers CNEVA electronic control gear incorporating an inverter for use on emergency models. Emergency models have a 6 volt battery made up of 5 Nickel-cadmium batteries connected in series rated at either 4 or 7 Ah. The CNEVA control gear controls the charging and discharging of the battery, providing under-voltage and over-voltage protection and preventing reverse polarity charging of the cells.

The body of the enclosure is fitted with 4 cable entries, maximum two at each end. The permitted component certified blanking elements to be used are detailed in the table below. Other suitable equipment certified blanking elements may be used.

Component / Manufacturer	Part No.	Certificate No.	Temperature range / IP rating
Blanking element / Redapt	PD-U-	IECEx SIR 05.0042U / SIRA00ATEX1094	-50 °C to +150 °C (Nitrile O'ring) / IP66/68
	Туре 375	IECEx BAS 06.0056U / Baseefa06ATEX0236U	-60℃ to +75℃ / IP66/67
Blanking element / Hawke	Туре 387	IECEx BAS 06.0029U / Baseefa06ATEX0118U	-60℃ to +80℃ (Nitrile O'ring) -60℃ to +160℃ (Silicone O'ring) / IP66/67

The enclosure must be fitted with suitably approved cable entry devices which shall maintain the ingress protection rating of the enclosure.

The body is also fitted with 2 x M8 bushes for mounting purposes. The stainless steel bodied version is supplied with external brackets to allow for mounting.

Brass earth continuity plates are fitted to the entries of the luminaires on the GRP bodied versions and an internal/external M8 earth stud is fitted to the body of the stainless steel bodied version. An earth terminal is also fitted to the gear tray. All the earth points are connected together via earth conductors.

* The ambient temperature ranges for the different models of luminaire are shown in the table below.



ANNEX to IECEx BAS 09.0017

Issue No. 2

Date: 2014/12/11

Body Material	Lamp Type	Model	Lamps	T _{amb} (°C)	T Class	Max Surface temperature (℃)
GRP	Bi-pin	Non-emergency	2 x 18W 2 x 36W	00.40 55		
	Беріп	Emergency	2 x 18W 2 x 36W	-20 to +55		
Stainless	Bi-pin	Non-emergency	2 x 18W 2 x 36W	-20 to +55	T4	T85
Steel	ы-рш	Emergency	2 x 18W 2 x 36W	-20 to +45		

Alternatively if the enclosures are fitted with the silicone gasket they may be used within a lower ambient of - 40 °C.

Internal wiring is by 0.75mm² or 1.0mm² stranded copper conductors with PVC insulation. Through wiring is by 2.5mm² or 4mm² stranded conductors with PVC insulation.

Variation 0.1

An isolating switch may be fitted to the luminaire operated by a raised lip on the diffuser. When the diffuser is opened the contacts of the switch open-circuit and de-energises the luminaire. When this switch is fitted the equipment is marked as follows:

Ex d e mb q IIC T4 Gb Ex tb IIIC T85 °C Db iP66/67

Variation 0.2

Version of the enclosure with pole mounting option. The base of the enclosure incorporates a sleeve for the pole. The sleeve is fitted internally with a certified cable gland and a silicone seal around the entry which maintains the IP66/67 rating of the luminaire. Grub screws are incorporated into the sleeve to secure the luminaire to the pole once mounted. When the pole mounted variation is used the luminaire is restricted to the temperature range and IP rating of the cable gland.

Variation 1.1

To allow the use of an alternative silicone gasket.

Variation 2.1

To note minor drawing changes.

Variation 3.1

To allow the optional addition of the Bartec Insert Switch 07-1511, certified as IECEx PTB 07.0040U. This will enable the removal of the fully isolated gear tray from the luminaire.

Variation 4.1

To allow an alternative moulded insert for mounting the luminaire.



ANNEX to IECEx BAS 09.0017

Issue No. 2

Date: 2014/12/11

Variation 5.1

To allow an alternative light source consisting of encapsulated LED strips and associated Ex q driver circuit covered by DEKRA13ATEX0096U and Baseefa14ATEX0365U respectively. The marking for luminaires with the LED light source is:

Ex e mb q IIC T4 Gb T_{amb} -40 °C to +55 °C Ex tb IIIC T95 °C Db

The following models are included:

Version	Light source	Mains input (Vac)	Input Current (mA)
LV-550	2 x 600mm LED strip	110-130	275
LV-1100	2 x 1200mm LED strip	110-130	545
HV-550	2 x 600mm LED strip	220-254	155
HV-1100	2 x 1200mm LED strip	220-254	295



	ertification S	ELECTROTECHNICAL Scheme for Explosive A ails of the IECEx Scheme visit www.ied	Atmospheres
Certificate No.:	IECEx BAS 09.00	17 issue No.:4	Certificate history:
Status	Current		Issue No. 4 (2014-11- 27)
	Current		Issue No. 3 (2014-1-30) Issue No. 2 (2013-4-22)
Date of Issue:	2014-11-27	Page 1 of 4	Issue No. 1 (2012-5-29) Issue No. 0 (2010-6-25)
Applicant:	Chalmit Lighting 388 Hillington Road Glasgow G52 4BL United Kingdom		
Electrical Apparatus: Optional accessory:	The Protecta III Ra	inge of Luminaires	
Type of Protection:	Increased Safety for enclosure	e', Powder Filled 'q', Encapsulation	'm', Flameproof 'd', Protection by
Marking:	Ex e mb q IIC T4 G or Ex d e mb q IIC T4 Ex tb IIIC T85°C Dt -20°C ≤ Ta ≤ + * °C	Gb 9 IP66/67	
Approved for issue on b Certification Body:	ehalf of the IECEx	R S Sinclair	
Position:		General Manager	
Signature: (for printed version)		pp Mouney	MADLONEY
Date:		27/11/14	
	ransferable and remain	produced in full. ns the property of the issuing body. a may be verified by visiting the Official	IECEx Website.
Rockh	Baseefa Limited ead Business Park Staden Lane Buxton Derbyshire SK17 9RZ hited Kingdom	SG	S Baseefa

IEC.		x Certificate Conformity
Certificate No.:	IECEx BAS 09.0017	
Date of Issue:	2014-11-27	Issue No.: 4
		Page 2 of 4
Manufacturer:	Chalmit Lighting 388 Hillington Road Glasgow G52 4BL United Kingdom	
Additional Manufacturing lo	cation(s):	
found to comply with the IE covered by this certificate.	C Standard list below and that the m was assessed and found to comply y	entative of production, was assessed and tested and anufacturer's quality system, relating to the Ex products with the IECEx Quality system requirements. This Ex Scheme Rules, IECEx 02 and Operational Documents
STANDARDS: The electrical apparatus and documents, was found to co	d any acceptable variations to it spe omply with the following standards:	cified in the schedule of this certificate and the identified
IEC 60079-0 : 2007-10 Edition: 5	Explosive atmospheres - Part 0:E	quipment - General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: E	quipment protection by flameproof enclosures "d"
IEC 60079-18 : 2004 Edition: 2.0	Electrical apparatus for explosive marking of type of protection enca	gas atmospheres - Part 18: Construction, test and psulation 'm' electrical apparatus
IEC 60079-5 : 2007-03 Edition: 3	Explosive atmospheres - Part 5: E	quipment protection by powder filling "q"
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: E	quipment protection by increased safety "e"
IEC 61241-1 : 2004 Edition: 1	Electrical apparatus for use in the enclosures "tD"	presence of combustible dust - Part 1: Protection by
This Certificate does not	t indicate compliance with electrical expressly included in the St	safety and performance requirements other than those andards listed above.
TEST & ASSESSMENT RE A sample(s) of the equipment		amination and test requirements as recorded in
Test Report: GB/BAS/ExTR09.0035/00 GB/BAS/ExTR14.0037/00	GB/BAS/ExTR12.0140/ GB/BAS/ExTR14.0286/	
Quality Assessment Report		
GB/BAS/QAR06.0027/04		

IEC IEĈEx		x Certificate Conformity
Certificate No.:	IECEx BAS 09.0017	
Date of Issue:	2014-11-27	Issue No.: 4
		Page 3 of 4
	Schedule	}
QUIPMENT: quipment and systems cov	vered by this certificate are as follows:	
ne Protecta III Range of Lui ad non-emergency variants	minaires comprises single / twin bi-pin fl	luorescent lamp units of 18W and 36W in emergency
he luminaire body is manufa om polycarbonate. The diffu elease snap-on clamp bar ru	actured from glass reinforced polyester user is hinged along one side to the bod uns the entire length and is used to seal	resin or stainless steel and the diffuser is manufactured y of the luminaire and along the other side a quick the diffuser to the body. The stainless steel body optior is secured in a grove in the body of the luminaire and
he luminaire may have an c	ptional insert switch fitted to allow remo	val of the fully isolated gear tray.
ONDITIONS OF CERTIFIC	CATION: NO	

Certificate No.:	IECEx BAS 09.0017	
Date of Issue:	2014-11-27	Issue No.: 4
		Page 4 of 4
TAILS OF CERTIFICA	TE CHANGES (for issues 1 and	above):
ariation 4.1		
	mounting boss design by way of	
ExTR: GB/BAS/ExTR1	4.0286/00	File Reference: 14/0385



INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx BAS 09.0017	issue No.:3	Certificate history: Issue No. 3 (2014-1-30)
Status:	Current		Issue No. 2 (2013-4-22) Issue No. 1 (2012-5-29)
Date of Issue:	2014-01-30	Page 1 of 4	Issue No. 0 (2010-6-25)
Applicant	Chalmit Lighting 388 Hillington Road Glasgow G52 4BL United Kingdom		
Electrical Apparatus: Optional accessory:	The Protecta III Range	of Luminaires	
Type of Protection:	Increased Safety 'e', P enclosure	owder Filled 'q', Encapsulation 'm',	Flameproof 'd', Protection by
Marking:	Ex e mb q IIC T4 Gb or Ex d e mb q IIC T4 Gb Ex tb IIIC T85°C Db IP6 -20°C ≤ Ta ≤ + * °C (Sec		
Approved for issue on be Certification Body:	half of the IECEx P		
Position:	G	General Manager	
Signature: (for printed version)	-	Monney	
Date:	-	30/1/14	
 This certificate and sch This certificate is not tr The Status and authen 	ansferable and remains th	/ duced in full. he property of the issuing body. y be verified by visiting the Official IEC	Ex Website.
Rockhe S	Baseefa Limited ad Business Park taden Lane Buxton Derbyshire SK17 9RZ ited Kingdom	SGS	Baseefa



Certificate No.:	IECEx BAS 09.0017	
Date of Issue:	2014-01-30	Issue No.: 3
		Page 2 of 4
Manufacturer:	Chalmit Lighting 388 Hillington Road Glasgow G52 4BL United Kingdom	
Additional 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:

IEC 60079-0 : 2007-10 Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-18 : 2004 Edition: 2.0	Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus
IEC 60079-5 : 2007-03 Edition: 3	Explosive atmospheres - Part 5: Equipment protection by powder filling "q"
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
IEC 61241-1 : 2004 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: GB/BAS/ExTR09.0035/00 GB/BAS/ExTR14.0037/00

GB/BAS/ExTR12,0140/00

GB/BAS/ExTR13.0092/00

Quality Assessment Report:

GB/BAS/QAR06.0027/04

IEC.	_	c Certificate onformity
Certificate No.:	IECEx BAS 09.0017	
Date of Issue:	2014-01-30	Issue No.: 3 Page 3 of 4
	Schedule	
EQUIPMENT:	achequie	
	overed by this certificate are as follows:	
The Protecta III Range of L and non-emergency varian	uminaires comprises single / twin bi-pin flu ts.	orescent lamp units of 18W and 36W in emergency
from polycarbonate. The di release snap-on clamp bar	ffuser is hinged along one side to the body runs the entire length and is used to seal t	esin or stainless steel and the diffuser is manufactured of the luminaire and along the other side a quick the diffuser to the body. The stainless steel body option s secured in a grove in the body of the luminaire and
The luminaire may have an	optional insert switch fitted to allow remov	val of the fully isolated gear tray.
Refer to the Annex to this o	ertificate for full details of the equipment.	
CONDITIONS OF CERTIF	ICATION: NO	



Certificate No.:

IECEx BAS 09.0017

Date of Issue:

2014-01-30

Issue No.: 3

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 3.1

To allow the optional addition of the Bartec Insert Switch 07-1511, certified as IECEx PTB 07.0040U. This will enable the removal of the fully isolated gear tray from the luminaire.

ExTR: GB/BAS/ExTR14.0037/00

File Reference: 14/0102



ANNEX to IECEx BAS 09.0017

Issue No. 1

Date: 2014/01/30

The Protecta III Range of Luminaires comprises single / twin bi-pin fluorescent lamp units of 18W and 36W in emergency and non-emergency variants.

The luminaire body is manufactured from glass reinforced polyester resin or stainless steel and the diffuser is manufactured from polycarbonate. The diffuser is hinged along one side to the body of the luminaire and along the other side a quick release snap-on clamp bar runs the entire length and is used to seal the diffuser to the body. The stainless steel body option has clips that are placed along the length of the luminaire. A gasket is secured in a grove in the body of the luminaire and forms an IP66/67 seal.

GRP models are identified by the catalogue code PRGE/***/, and the stainless steel models are identified by PRSE/***/. The code further defines the number and wattage of the lamps, bi-pin, emergency, voltage etc.

The control gear components are mounted within the body of the luminaire via a removable gear tray.

The electronic control gear is ATEX component certified and has been revalidated within the IECEx report in accordance with the IECEx Operational Document OD009. The component certification covers the parallel circuit ballast type ILB. The same certificate covers CNEVA electronic control gear incorporating an inverter for use on emergency models. Emergency models have a 6 volt battery made up of 5 Nickel-cadmium batteries connected in series rated at either 4 or 7 Ah. The CNEVA control gear controls the charging and discharging of the battery, providing under-voltage and over-voltage protection and preventing reverse polarity charging of the cells.

The body of the enclosure is fitted with 4 cable entries, maximum two at each end. The permitted component certified blanking elements to be used are detailed in the table below. Other suitable equipment certified blanking elements may be used.

Component / Manufacturer	Part No.	Certificate No.	Temperature range / IP rating
Blanking element / Redapt	PD-U-	IECEx SIR 05.0042U / SIRA00ATEX1094	-50°C to +150°C (Nitrile O'ring) / IP66/68
	Туре 375	IECEx BAS 06.0056U / Baseefa06ATEX0236U	-60°C to +75°C / IP66/67
Blanking element / Hawke	Туре 387	IECEx BAS 06.0029U / Baseefa06ATEX0118U	-60°C to +80°C (Nitrile O'ring) -60°C to +160°C (Silicone O'ring) / IP66/67

The enclosure must be fitted with suitably approved cable entry devices which shall maintain the ingress protection rating of the enclosure.

The body is also fitted with 2 x M8 bushes for mounting purposes. The stainless steel bodied version is supplied with external brackets to allow for mounting.

Brass earth continuity plates are fitted to the entries of the luminaires on the GRP bodied versions and an internal/external M8 earth stud is fitted to the body of the stainless steel bodied version. An earth terminal is also fitted to the gear tray. All the earth points are connected together via earth conductors.

* The ambient temperature ranges for the different models of luminaire are shown in the table below.



ANNEX to IECEx BAS 09.0017

Issue No. 1

Date: 2014/01/30

Body Material	Lamp Type	Modei	Lamps	T _{amb} (°C)	T Class	Max Surface temperature (°C)
GRP Bi-pin		Non-emergency	2 x 18W		TA	
	Bi-pin		2 x 36W	-20 to +55		
Cita i	L Dipin	Emergency	2 x 18W			
			2 x 36W			
		Non-emergency	2 x 18W	-20 to +55	- T4 - ,	T85
Stainless Bi-	Bi-pin		2 x 36W	-2010+55		
		·	2 x 18W	00.45 1.45		
		Emergency	2 x 36W	-20 to +45		

Alternatively if the enclosures are fitted with the silicone gasket they may be used within a lower ambient of - 40°C.

Internal wiring is by 0.75mm² or 1.0mm² stranded copper conductors with PVC insulation. Through wiring is by 2.5mm² or 4mm² stranded conductors with PVC insulation.

Variation 0.1

An isolating switch may be fitted to the luminaire operated by a raised lip on the diffuser. When the diffuser is opened the contacts of the switch open-circuit and de-energises the luminaire. When this switch is fitted the equipment is marked as follows:

Ex d e mb q IIC T4 Gb Ex tb IIIC T85°C Db IP66/67

Variation 0.2

Version of the enclosure with pole mounting option. The base of the enclosure incorporates a sleeve for the pole. The sleeve is fitted internally with a certified cable gland and a silicone seal around the entry which maintains the IP66/67 rating of the luminaire. Grub screws are incorporated into the sleeve to secure the luminaire to the pole once mounted. When the pole mounted variation is used the luminaire is restricted to the temperature range and IP rating of the cable gland.

Variation 1.1

To allow the use of an alternative silicone gasket.

Variation 2.1

To note minor drawing changes.

Variation 3.1

To allow the optional addition of the Bartec Insert Switch 07-1511, certified as IECEx PTB 07.0040U. This will enable the removal of the fully isolated gear tray from the luminaire.



INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx BAS 09.0017	issue No.:2	Certificate history: Issue No. 2 (2013-4-22)
Status:	Current		Issue No. 1 (2012-5-29) Issue No. 0 (2010-6-25)
Date of Issue:	2013-04-22	Page 1 of 4	
Applicant:	Chalmit Lighting 388 Hillington Road Glasgow G52 4BL United Kingdom		
Electrical Apparatus: Optional accessory:	The Protecta III Range o	f Luminaires	
Type of Protection:	Increased Safety 'e', Po	wder Filled 'q', Encapsulation 'm	', Flameproof 'd',
Marking:	Ex e mb q IIC T4 Gb or Ex d e mb q IIC T4 Gb Ex tb IIIC T85°C Db !P66, -20°C ≤Ta ≤+*°C (See e		
Approved for issue on be Certification Body:	half of the IECEx PRS	Sinclair MBWNEY	
Position:	Ge	neral Manager	
2. This certificate is not transmission.		22 09 13 ced in full. property of the issuing body. be verified by visiting the Official IE	CEx Website.
Rockhe S	Baseefa Limited ad Business Park taden Lane Buxton Derbyshire SK17 9RZ ted Kingdom	SGS	Baseefa



Certificate No.:	IECEx BAS 09.0017	
Date of Issue:	2013-04-22	Issue No.: 2
		Page 2 of 4
Manufacturer:	Chalmit Lighting 388 Hillington Road Glasgow G52 4BL United Kingdom	
Additional Manufacturing loc	cation(s):	
found to comply with the IEC covered by this certificate, w	C Standard list below and that the as assessed and found to compl	esentative of production, was assessed and tested and manufacturer's quality system, relating to the Ex products / with the IECEx Quality system requirements. This CEx Scheme Rules, IECEx 02 and Operational Documents
	l any acceptable variations to it s mply with the following standards	pecified in the schedule of this certificate and the identified
IEC 60079-0 : 2007-10 Edition: 5	Explosive atmospheres - Part 0	Equipment - General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1	Equipment protection by flameproof enclosures "d"
IEC 60079-18 : 2004 Edition: 2.0		e gas atmospheres - Part 18: Construction, test and capsulation 'm' electrical apparatus
IEC 60079-5 : 2007-03 Edition: 3	Explosive atmospheres - Part 5	Equipment protection by powder filling "q"
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7	Equipment protection by increased safety "e"
IEC 61241-1 : 2004 Edition: 1	Electrical apparatus for use in the enclosures "tD"	e presence of combustible dust - Part 1: Protection by
This Certificate does not	indicate compliance with electrica expressly included in the	I safety and performance requirements other than those 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: GB/BAS/ExTR09.0035/00

GB/BAS/ExTR12.0140/00

GB/BAS/ExTR13.0092/00

Quality Assessment Report:

GB/BAS/QAR06.0027/03

IEC IECEX Certificate of Conformity			
Certificate No.:	IECEx BAS 09.0017		
Date of Issue:	2013-04-22	Issue No.: 2 Page 3 of 4	
	Schedule		
QUIPMENT: Equipment and systems co	vered by this certificate are as follows:		
rom polycarbonate. The diff elease snap-on clamp bar r las clips that are placed alo prms an IP66/67 seal.	user is hinged along one side to the body uns the entire length and is used to seal	esin or stainless steel and the diffuser is manufactured of the luminaire and along the other side a quick the diffuser to the body. The stainless steel body optior s secured in a grove in the body of the luminaire and	
ONDITIONS OF CERTIFI	CATION: NO		

IEC IECEx of Conformity			
Certificate No.:	IECEx BAS 09.0017		
Date of Issue:	2013-04-22	Issue No.: 2	
		Page 4 of 4	
ETAILS OF CERTIFICATE	E CHANGES (for issues 1 and above):		
o note minor drawing chan	ges.		
ExTR: GB/BAS/ExTR13.		eference: 13/0194	



	RNATIONAL ELE Certification Sch for rules and details o	eme for E	xplosive /	Atmospheres
Certificate No.:	IECEx BAS 09.0017	•	issue No.:1	Certificate history: Issue No. 1 (2012-5-29)
Status:	Current			Issue No. 0 (2010-6-25)
Date of Issue:	2012-05-29		Page 1 of 4	
Applicant:	Chalmit Lighting 388 Hillington Road Glasgow G52 4BL United Kingdom			
Electrical Apparatus: Optional accessory:	The Protecta III Range	of Luminaires		
Type of Protection:	Increased Safety 'e', Po	owder Filled 'q',	Encapsulation '	m', Flameproof 'd',
Marking:	Ex e mb q IIC T4 Gb or Ex d e mb q IIC T4 Gb Ex tb IIIC T85°C Db IP6 -20°C ≤ Ta ≤ + * °C (See			
Approved for issue on Certification Body:	behalf of the IECEx	R S Sinclair	MOWNE	1
Position:		General Manag	jer	
Signature: (for printed version)		M	Ponney	
Date:			29/5/12	
This certificate is not	chedule may only be reprod transferable and remains th enticity of this certificate may	e property of the i	issuing body. siting the Official	IECEx Website.
Certificate issued by:				
Ro	Baseefa ockhead Business Park Staden Lane Buxton Derbyshire SK17 9RZ United Kingdom			Baseefa

Certificate No.:	IECEx BAS 09.0017	
Date of Issue:	2012-05-29	Issue No.: 1
		Page 2 of 4
Manufacturer:	Chalmit Lighting 388 Hillington Road Glasgow G52 4BL United Kingdom	
Manufacturing location(s).		
ound to comply with the IB covered by this certificate.	EC Standard list below and that the was assessed and found to comply	sentative of production, was assessed and tested and manufacturer's quality system, relating to the Ex products with the IECEx Quality system requirements. This Ex Scheme Rules, IECEx 02 and Operational Documents
	nd any acceptable variations to it sp comply with the following standards:	ecified in the schedule of this certificate and the identified
IEC 60079-0 : 2007-10 Edition: 5	Explosive atmospheres - Part 0:	Equipment - General requirements
EC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1:	Equipment protection by flameproof enclosures "d"
Edition: 2.0		e gas atmospheres - Part 18: Construction, test and apsulation 'm' electrical apparatus
EC 60079-5 : 2007-03 Edition: 3	Explosive atmospheres - Part 5;	Equipment protection by powder filling "q"
EC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7:	Equipment protection by increased safety "e"
EC 61241-1 : 2004 Edition: 1	Electrical apparatus for use in the enclosures "tD"	e presence of combustible dust - Part 1: Protection by
This Certificate does no	t indicate compliance with electrica expressly included in the S	safety and performance requirements other than those tandards listed above.
EST & ASSESSMENT RI		xamination and test requirements as recorded in
<u>Fest Report:</u> GB/BAS/ExTR09.0035/00	G	B/BAS/ExTR12.0140/00
uality Assessment Report		
B/BAS/QAR06.0027/03		

IEC IECEX Certificate of Conformity				
Certificate No.:	IECEx BA\$ 09.0017			
Date of Issue:	2012-05-29	Issue No.: 1		
		Page 3 of 4		
	Schedule			
QUIPMENT: Equipment and systems co	vered by this certificate are as follows:			
The Protecta III Range of Lu and non-emergency variants	Iminaires comprises single / twin bi-pin fluo 5.	rescent lamp units of 18W and 36W in emergency		
rom polycarbonate. The difference of the second sec	fuser is hinged along one side to the body o runs the entire length and is used to seal the	sin or stainless steel and the diffuser is manufactured of the luminaire and along the other side a quick e diffuser to the body. The stainless steel body option secured in a grove in the body of the luminaire and		
Refer to the Annex to this ce	ertificate for full details of the equipment.			
	CATION: NO			



Certificate No.:

IECEx BAS 09.0017

Date of Issue:

2012-05-29

Issue No.: 1

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 1.1

To allow the use of an alternative silicone gasket.

ExTR: GB/BAS/ExTR12.0140/00

File Reference: 12/0183

Annexe: IECEx BAS 09.0017 Annex pdf



INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx BAS 09.0017	issue No.:0	Certificate history:
Status:	Current		
Date of Issue:	2010-06-25	Page 1 of 3	
Applicant:	Chalmit Lighting 388 Hillington Road Glasgow G52 4BL		a
	United Kingdom		
Electrical Apparatus: Optional accessory:	The Protecta III Range	of Luminaires	ж.
Type of Protection:	Increased Safety 'e', P	owder Filled 'q', Encapsulati	on 'm', Flameproof 'd',
Marking:	Ex e mb q IIC T4 Gb Or Ex d e mb q IIC T4 Gb Ex tb IIIC T85°C Db IP(-20°C ≤ Ta ≤ + * °C (Se		9.
Approved for issue on b Certification Body:	ehalf of the IECEx	R S Sinclair	
Position:		Managing Director	
Signature: (for printed version)		RSS	ler '
Date:		30-6	-70
2. This certificate is not		duced in full. he property of the issuing body. y be verified by visiting the Offi	
Certificate issued by:	Baseefa		
Ro	Ckhead Business Park Staden Lane Buxton Derbyshire SK17 9RZ United Kingdom		Baseefa
			1).



Certificate No.:

Manufacturer:

IECEx BAS 09,0017

Date of Issue:

2010-06-25

Issue No.: 0

Page 2 of 3

Chalmit Lighting 388 Hillington Road Glasgow G52 4BL United Kingdom

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:

IEC 60079-0 : 2007-10 Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-18 : 2004 Edition: 2.0	Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus
IEC 60079-5 : 2007-03 Edition: 3	Explosive atmospheres - Part 5: Equipment protection by powder filling "q"
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
IEC 61241-1 : 2004 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:

GB/BAS/ExTR09.0035/00

Quality Assessment Report: GB/BAS/QAR06.0027/01



Certificate No.:

IECEx BAS 09.0017

2010-06-25

Date of Issue:

Issue No.: 0

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Protecta III Range of Luminaires comprises single / twin bi-pin fluorescent lamp units of 18W and 36W in emergency and non-emergency variants.

The luminaire body is manufactured from glass reinforced polyester resin or stainless steel and the diffuser is manufactured from polycarbonate. The diffuser is hinged along one side to the body of the luminaire and along the other side a quick release snap-on clamp bar runs the entire length and is used to seal the diffuser to the body. The stainless steel body option has clips that are placed along the length of the luminaire. A gasket is secured in a grove in the body of the luminaire and forms an IP66/67 seal.

Refer to the Annex to this certificate for full details of the equipment.

CONDITIONS OF CERTIFICATION: NO

Annexe: IECEx BAS 09 0017 Annex pdf

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The Protecta III Range of Luminaires comprises single / twin bi-pin fluorescent lamp units of 18W and 36W in emergency and non-emergency variants.

The luminaire body is manufactured from glass reinforced polyester resin or stainless steel and the diffuser is manufactured from polycarbonate. The diffuser is hinged along one side to the body of the luminaire and along the other side a quick release snap-on clamp bar runs the entire length and is used to seal the diffuser to the body. The stainless steel body option has clips that are placed along the length of the luminaire. A gasket is secured in a grove in the body of the luminaire and forms an IP66/67 seal.

GRP models are identified by the catalogue code PRGE/***/, and the stainless steel models are identified by PRSE/***/. The code further defines the number and wattage of the lamps, bi-pin, emergency, voltage etc.

The control gear components are mounted within the body of the luminaire via a removable gear tray.

The electronic control gear is ATEX component certified and has been revalidated within the IECEx report in accordance with the IECEx Operational Document OD009. The component certification covers the parallel circuit ballast type ILB. The same certificate covers CNEVA electronic control gear incorporating an inverter for use on emergency models. Emergency models have a 6 volt battery made up of 5 Nickel-cadmium batteries connected in series rated at either 4 or 7 Ah. The CNEVA control gear controls the charging and discharging of the battery, providing under-voltage and over-voltage protection and preventing reverse polarity charging of the cells.

The body of the enclosure is fitted with 4 cable entries, maximum two at each end. The permitted component certified blanking elements to be used are detailed in the table below. Other suitable equipment certified blanking elements may be used.

Component / Manufacturer	Part No.	Certificate No.	Temperature range / IP rating
Blanking element / Redapt	PD-U-	IECEx SIR 05.0042U / SIRA00ATEX1094	-50°C to +150°C (Nitrile O'ring) / IP66/68
	Туре 375	IECEx BAS 06.0056U / Baseefa06ATEX0236U	-60°C to +75°C / IP66/67
Blanking element / Hawke	Туре 387	IECEx BAS 06.0029U / Baseefa06ATEX0118U	-60°C to +80°C (Nitrile O'ring) -60°C to +160°C (Silicone O'ring) / IP66/67

The enclosure must be fitted with suitably approved cable entry devices which shall maintain the ingress protection rating of the enclosure.

The body is also fitted with 2 x M8 bushes for mounting purposes. The stainless steel bodied version is supplied with external brackets to allow for mounting.

Brass earth continuity plates are fitted to the entries of the luminaires on the GRP bodied versions and an internal/external M8 earth stud is fitted to the body of the stainless steel bodied version. An earth terminal is also fitted to the gear tray. All the earth points are connected together via earth conductors.

* The ambient temperature ranges for the different models of luminaire are shown in the table below.

Body Material	Lamp Type	Model	Lamps	T _{amb} (°C)	T Class	Max Surface temperature (°C)
GRP		Non-emergency	2 x 18W	-20 to +55	T4	T85
	Bi-pin		2 x 36W			
	Di più	Emergency	2 x 18W			
			2 x 36W			
Stainless Steel		Non-emergency	2 x 18W	-20 to +55		
	Bi-pin	Non-chicigency	2 x 36W			
		Emorgonov	2 x 18W	-20 to +45		
		Emergency	2 x 36W			

Alternatively if the enclosures are fitted with the silicone gasket they may be used within a lower ambient of - 40°C.

Internal wiring is by 0.75mm² or 1.0mm² stranded copper conductors with PVC insulation. Through wiring is by 2.5mm² or 4mm² stranded conductors with PVC insulation.

Variation 0.1

An isolating switch may be fitted to the luminaire operated by a raised lip on the diffuser. When the diffuser is opened the contacts of the switch open-circuit and de-energises the luminaire. When this switch is fitted the equipment is marked as follows:

Ex d e mb q IIC T4 Gb Ex tb IIIC T85°C Db IP66/67

Variation 0.2

Version of the enclosure with pole mounting option. The base of the enclosure incorporates a sleeve for the pole. The sleeve is fitted internally with a certified cable gland and a silicone seal around the entry which maintains the IP66/67 rating of the luminaire. Grub screws are incorporated into the sleeve to secure the luminaire to the pole once mounted. When the pole mounted variation is used the luminaire is restricted to the temperature range and IP rating of the cable gland.