



1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa08ATEX0177**

4 Equipment or Protective System: **Type 238 Wellglass Luminaire**

5 Manufacturer: **Chalmit Lighting**

6 Address: **388 Hillington Road, Glasgow, G52 4BL UK**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR08.0108/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN60079-0: 2006, EN60079-1: 2004, EN60079-7: 2006, EN61241-0: 2004, EN61241-1: 2004

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

Ex II2GD Exde IIB Ex tD T*/T*°C Tamb* A21 IP66 * see schedule

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **0068**

Project File No. **07/1050**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa Ltd
Registered in England No. 4305578. Registered address as above.

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa

re-issued 8th December 2009 to replace original



13

Schedule

14

Certificate Number Baseefa08ATEX0177

15 Description of Equipment or Protective System

The Type 238 Wellglass Luminaire comprises a circular body and cover manufactured from aluminium, brass or gunmetal. The cover is fitted with a wellglass sealed in place by a silicone cement. The body has an integral increased safety terminal box. The flameproof enclosure may be fitted with various lamps, and holders, and associated control gear. The flameproof enclosure wall may be fitted with up to 2 line bushings which provide interconnection to the increased safety terminal chamber.

The luminaire may be fitted with various lamps as detailed below.

Internal and external earth facilities are provided.

The lamp types, electrical ratings, temperature classifications, operating temperatures and ambient temperatures when fitted with each lamp type are detailed below.

The enclosure is fitted with a delay before opening label, this label may be replaced with a label advising "Do not open when an explosive atmosphere is present".

Lamp Type	Wattage W	Voltage V	Temperature Classification/Operating Temperature °C	Ambient Temperature Range °C	Cable Rating	Delay Before Opening (minutes)
GLS	150	110- 250	T4/130	-50 to +60	90°C	10
			T4/110	-50 to +50	70°C	
GLS	200	110- 250	T3/145	-50 to +60	90°C	
			T4/125	-50 to +50	70°C	
GLS	300	110- 240	T4/130	-50 to +40	70°C	
SON/E	70	200-210 220-230 240-250 254 at 50Hz or 220-230 240-250 260-270 at 60Hz	T4/105	-50 to +50	70°C	
			T4/125	-50 to +60	85°C	
			T5/95	-50 to +40	70°C	
SON/E	100		T4/125	-50 to +60	80°C	
			T4/105	-50 to +40	70°C	
SON/E	150		T3/140	-50 to +55	80°C	
			T4/125	-50 to +40	70°C	
SON/E	250		T3/150	-50 to +45	85°C	
MBF/U	80		T4/125	-50 to +60	80°C	
			T4/115	-50 to +50	70°C	
MBF/U	125		T3/135	-50 to +50	80°C	
			T4/125	-50 to +40	70°C	
MBF/U	250		T3/175	-50 to +45	85°C	
MBI	150		T3/140	-50 to +55	80°C	
		T4/125	-50 to +40	70°C		
MBI	250	T3/140	-50 to +45	85°C		
MBTF	160	220-250	T3/135	-50 to +40	70°C	
			T3/145	-50 to +50	80°C	
QL	85	120-220-240	T5/75	-50 to +55	70°C	
	165	a.c. or d.c. 50/60Hz	T5/80	-50 to +40	70°C	



16 Report Number

Baseefa Certification Report GB/BAS/ExTR08.0108/00.

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
H014353	1 of 3	1	27/5/08	238 Wellglass Luminaire IECEx and ATEX
H014354	2 of 3	1	27/5/08	238 Wellglass Luminaire IECEx and ATEX
H014355	3 of 3	1	27/5/08	238 Wellglass Luminaire IECEx and ATEX

The above drawings are common to IECEx BAS 08.0056 and Baseefa 08ATEX0177 and are held with the former



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate Number: **Baseefa08ATEX0177/1**

4 Equipment or Protective System: **Type 238 Wellglass Luminaire**

5 Manufacturer: **Chalmit Lighting**

6 Address: **388 Hillington Road, Glasgow, G52 4BL**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa08ATEX0177** to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **0068**

Project File No. **10/0330**

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Baseefa

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa Ltd
Registered in England No. 4305578. Registered address as above.

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



13

Schedule

14

Certificate Number Baseefa00ATEX0177/1

15

Description of the variation to the Equipment or Protective System

Variation 1.1

To permit the addition of 70W and 100W metal halide lamps.

The complete list of permitted lamps is indicated below.

Lamp Type	Wattage W	Voltage V	Temperature Classification/Operating Temperature °C	Ambient Temperature Range °C	Cable Rating °C	Delay Before Opening (minutes)
GLS	150	110- 250	T4/130	-50 to +60	90	10
			T4/110	-50 to +50	70	
	200	110- 250	T3/145	-50 to +60	90	
			T4/125	-50 to +50	70	
	300	110- 240	T4/130	-50 to +40	70	
SON/E	70	200-210 220-230 240-250 254 at 50Hz or 220-230 240-250 260-270 at 60Hz	T4/105	-50 to +50	70	
			T4/125	-50 to +60	85	
			T5/95	-50 to +40	70	
	100		T4/125	-50 to +60	80	
			T4/105	-50 to +40	70	
	150		T3/140	-50 to +55	80	
			T4/125	-50 to +40	70	
	250		T3/150	-50 to +45	85	
MBF/U	80	220-230 240-250 260-270 at 60Hz	T4/125	-50 to +60	80	
			T4/115	-50 to +50	70	
	125		T3/135	-50 to +50	80	
			T4/125	-50 to +40	70	
	250		T3/175	-50 to +45	85	
MBI	70	220-230 240-250 260-270 at 60Hz	T4/105	-50 to +50	70	
			T4/125	-50 to +60	85	
	T5/95		-50 to +40	70		
	100		T4/125	-50 to +60	80	
			T4/105	-50 to +40	70	
	150		T3/140	-50 to +55	80	
			T4/125	-50 to +40	70	
250	T3/140	-50 to +45	85			
MBTF	160	220-250	T3/135	-50 to +40	70	
			T3/145	-50 to +50	80	
QL	85	120-220-240 a.c. or d.c. 50/60Hz	T5/75	-50 to +55	70	
	165		T5/80	-50 to +40	70	

16 **Report Number**

Baseefa Certification Report GB/BAS/ExTR10.0099/00



17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
H014353	1 – 3 Inc.	2	08.04.10	238 Wellglass Luminaire IECEx and ATEX



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate Number: **Baseefa08ATEX0177/2**

4 Equipment or Protective System: **Type 238 Wellglass Luminaire**

5 Manufacturer: **Chalmit Lighting**

6 Address: **388 Hillington Road, Glasgow, G52 4BL**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa08ATEX0177** to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

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Baseefa Customer Reference No. **0068**

Project File No. **10/0793**

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Baseefa

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa Ltd
Registered in England No. 4305578. Registered address as above.


R S SINCLAIR 
DIRECTOR
On behalf of
Baseefa



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Schedule

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Certificate Number Baseefa00ATEX0177/2

15 **Description of the variation to the Equipment or Protective System**

Variation 2.1

To permit the addition of a 55W Type QL Induction lamp option with a temperature classification and operating temperature of T5 and 75°C respectively for use in an ambient temperature range of -50°C to +55°C.

16 **Report Number**

Baseefa Certification Report GB/BAS/ExTR10.0233/00

17 **Special Conditions for Safe Use**

None

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
H014353	1 – 3 Inc.	3	29.09.10	238 Wellglass Luminaire IECEx and ATEX



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate Number: **Baseefa08ATEX0177/3**

4 Equipment or Protective System: **Type 238 Wellglass Luminaire**

5 Manufacturer: **Chalmit Lighting**

6 Address: **388 Hillington Road, Glasgow, G52 4BL**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa08ATEX0177** to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

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Baseefa Customer Reference No. **0068**

Project File No. **11/0856**

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Baseefa

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa Ltd
Registered in England No. 4305578. Registered address as above.


R S SINCLAIR 
DIRECTOR
On behalf of
Baseefa



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Schedule

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Certificate Number Baseefa08ATEX0177/3

15 Description of the variation to the Equipment or Protective System

Variation 3.1

To permit the luminaires to be alternatively marked for a minimum ambient temperature of -20°C or -45°C.

Variation 3.2

To permit an alternative internal earth assembly.

16 Report Number

Baseefa Certification Report GB/BAS/ExTR11.0278/00

17 Specific Conditions of Use

None.

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
H014353	1 – 3 Inc.	4	31.10.11	238 Wellglass Luminaire IECEx and ATEX

1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate Number: **Baseefa08ATEX0177/4**

4 Equipment or Protective System: **Type 238 Wellglass Luminaire**

5 Manufacturer: **Chalmit Lighting**

6 Address: **388 Hillington Road, Glasgow, G52 4BL**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa08ATEX0177** to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 Item 9 of the original Certificate is replaced by "Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012
EN 60079-1:2007
EN 60079-7:2007
EN 60079-31:2008

except in respect of those requirements listed at item 18 of the Schedule."

9 The marking of the equipment has changed from the original Certificate and shall include the following:

Ex II 2GD Ex de IIB T4* Gb ($T_{amb} = -50^{\circ}\text{C}$ to $+60^{\circ}\text{C}$)*
Ex tb IIIC T135°C* Db ($T_{amb} = -50^{\circ}\text{C}$ to $+60^{\circ}\text{C}$)* IP66 - * See schedule

This certificate shall be held with the original certificate.

Baseefa Customer Reference No. **0068**

Project File No. **12/0892**

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SGS Baseefa Limited

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601

e-mail info@baseefa.com web site www.baseefa.com

Registered in England No. 4305578.

Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN


MR S SINCLAIR
GENERAL MANAGER

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number Baseefa08ATEX0177/4

15 **Description of the variation to the Equipment or Protective System**

Variation 4.1

The Luminaire covered by this certificate has been reviewed against the additional design and test requirements of EN 60079-0: 2012, EN 60079-1: 2007 & EN 60079-31: 2009 (superseding IEC 61241), and compliance is confirmed.

The units may be marked with the following amended coding :-

Ex de IIB T4* Gb ($T_{amb} = -50^{\circ}\text{C}$ to $+60^{\circ}\text{C}$)*, Ex tb IIIC T135 $^{\circ}\text{C}$ * Db ($T_{amb} = -50^{\circ}\text{C}$ to $+60^{\circ}\text{C}$)* IP66

* Alternative Temperature Class/Ambient combinations may also be marked dependant on the lamp type and ratings, as detailed on the certified drawings (and tabulated in previous schedules).

Variation 4.2

Introduction of alternative 110-120V volt versions of the SON/E and MBI Lamp designations.

16 **Report Number**

Baseefa Confidential Report Number GB/BAS/ExTR14.0150/00

17 **Specific Conditions of Use**

None

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Issue	Date	Description
H014353 Sheets 1 to 3	05	17.10.12	General Arrangement, Type 238 Wellglass Luminaire

These drawings are common to, and held with, IECEx BAS 08.0056.