



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 : **BAS01ATEX2308**

4 **Equipment or Protective System: A TYPE 238 WELLGLASS LUMINAIRE**

5 **Manufacturer: CHALMIT LIGHTING**

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

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 The Electrical Equipment Certification Service, notified body number 600 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 N°

01(C)0558/2 dated 16 January 2002

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014: 1997 + Amds 1 & 2 EN 50018: 2000 EN 50019: 2000
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. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

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

 **II 2 G EEx de IIB T* (see schedule)**

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

File No: EECS 0068/01/017

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



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**I M CLEARE
DIRECTOR
22 January 2002**



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Schedule

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EC-TYPE EXAMINATION CERTIFICATE N° BAS01ATEX2308

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Description of Equipment or Protective System

A Type 238 Wellglass Luminaire comprises circular body and cover manufactured from aluminium, brass or gunmetal. The cover is fitted with a wellglass sealed with silicone cement, and the body has an integral increased safety terminal compartment. One or two line bushings are provided between the terminal enclosure and the main enclosure.

The luminaire can be fitted with either GLS, SON, MBF/U and MBI lamps, and the associated control gear when required.

Internal and external earth facilities are provided.

The ratings, temperature classification, and ambient temperature range when fitted with each type of lamp are indicated below.

Lamp Type	Wattage	Voltage	Temperature Classification	Ambient Temperature Range	Cable Rating	Delay Time Before Opening (Minutes)	
GLS	150	110-250	4	-50°C to +70°C	90°C	10	
			4	-50°C to +50°C	70°C		
GLS	200	110-250	3	-50°C to +70°C	90°C		
			4	-50°C to +50°C	70°C		
GLS	300	110-240	4	-50°C to +40°C	70°C		
SON/E	70	200,210 220,230 240,250 254V 50Hz	4	-50°C to +50°C	70°C		
			4	-50°C to +70°C	85°C		
			5	-50°C to +40°C	70°C		
SON/E	100		4	-50°C to +60°C	80°C		
			4	-50°C to +40°C	70°C		
SON/E	150		3	-50°C to +55°C	80°C		
SON/E	250		4	-50°C to +40°C	70°C		
SON/R	250		3	-50°C to +40°C	80°C		
MBF/U	80		220,230 240,250 260,270V 60Hz	4	-50°C to +60°C		80°C
				4	-50°C to +50°C		70°C
3	-50°C to +50°C			80°C			
MBF/U	125			4	-50°C to +40°C		70°C
				3	-50°C to +40°C		80°C
MBF/U	250			3	-50°C to +40°C	80°C	
MBI	150			3	-50°C to +55°C	80°C	
				4	-50°C to +40°C	70°C	
MBI	250			3	-50°C to +40°C	80°C	
MBTF	160			220-250	3	-50°C to +40°C	70°C
		3			-50°C to +50°C	80°C	



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EC-TYPE EXAMINATION CERTIFICATE N° BAS01ATEX2308

The luminaires may also be fitted with a label indicating that the enclosures shall not be opened when an explosive gas atmosphere is present in place of the delay before opening time.

16

Report No.

BASEEFA Certification Report No. 01(C)0558/2 dated 16 January 2002.

17

Special Conditions For Safe Use

None.

18

Essential Health and Safety Requirements

Essential Health and Safety Requirements not covered by Standards listed at (9)		
Clause	Subject	Compliance
1.0.2	Analysis of possible operating faults	Manufacturer's Instructions
1.0.3	Special checking and maintenance conditions	No special requirements
1.0.6	Instructions	Manufacturer's Instructions
1.2.2	Components for incorporation or replacement	No user serviceable parts
1.2.4	Dust deposits	Certification for gas atmospheres only
1.2.5	Additional means of protection	Not applicable
1.2.7	Protection against other hazards	BASEEFA Report No. 01(C)0558/2
1.3.5	Hazards arising from pressure compensation	Not applicable
1.5.	General requirements for safety devices	Not applicable
1.6.1	Manual override	Not applicable
1.6.2	Emergency shutdown	Not applicable
1.6.3	Hazards arising from power failure	Not applicable
1.6.5	Placing of warning devices as parts of equipment	Not applicable
2.0.	Category M	Not applicable
2.1.	Category 1	Not applicable
2.2.1	Category 2G	BASEEFA Report No. 01(C)0558/2
2.2.2	Category 2D	Not applicable
2.3.	Category 3	Not applicable
3.	Requirements for protective systems	Not applicable



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EC-TYPE EXAMINATION CERTIFICATE N° BAS01ATEX2308

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DRAWINGS

Number	Sheet	Issue	Date	Description
D2058	1	-	30.08.01	General Assembly - Type 238 Wellglass Luminaire
D2058	2	-	30.08.01	General Assembly - Type 238 Wellglass Luminaire
*D2062	1	-	14.09.01	Glazing Data - Types 216, 238, 261, & 261E Luminaires

* This drawing is common to certificates BAS01ATEX2307, BAS01ATEX2309, BAS01ATEX2310, held on EECS files 0068/01/016, 0068/01/018, and 0068/01/019 respectively, and is held on EECS file 0068/01/016.

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BASEEFA List Keywords
2WELLUM



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 : **BAS01ATEX2308/1**

4 Equipment or protective system: **A Type 238 Wellglass Luminaire**

5 Manufacturer : **Chalmit Lighting**

6 Address : **Glasgow, G52 4BL**

7 This supplementary certificate extends EC - Type Examination Certificate No. **BAS01ATEX2308** 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

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa (2001) Ltd., Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

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

Baseefa (2001) Ltd. Customer Reference No. **0068**

Project File No. **02/0043**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

A handwritten signature in black ink, appearing to read "R S Sinclair".

R S SINCLAIR
DIRECTOR
On behalf of
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Certificate Number BAS01ATEX2308/1

15 Description of the variation to the Equipment or Protective System

Variation 1.1

To permit the addition of 85W and 165W QL lamps.

The ratings, temperature classification, and ambient temperature range when fitted with each type of lamp are indicated below.

Lamp Type	Wattage	Voltage	Temperature Classification	Ambient Temperature Range	Cable Rating	Delay Time Before Opening (Minutes)
Induction QL	85	220-240V	5	-50°C to +55°C	70°C	10
	165	120V a.c. d.c. 50/60 Hz	5	-50°C to +40°C	70°C	

The luminaires may also be fitted with a label indicating that the enclosures are not to be opened when an explosive gas atmosphere is present in place of the delay before opening time.

16 Report Number

02(C)0043

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

See original certificate

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
D2058	1	01	08.07.02	General Assembly – Type 238 Wellglass Luminaire
D2058	2	01	08.07.02	General Assembly – Type 238 Wellglass Luminaire
D2058	3	01	08.07.02	General Assembly – Type 238 Wellglass Luminaire



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 **BAS01ATEX2308/2**
Number :

4 Equipment or protective system: **A Type 238 Wellglass Luminaire**

5 Manufacturer : **Chalmit Lighting**

6 Address : **Glasgow, G52 4BL**

7 This supplementary certificate extends EC - Type Examination Certificate No. **BAS01ATEX2308** 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 (2001) Ltd. Customer Reference No. **0068**

Project File No. **04/0574**

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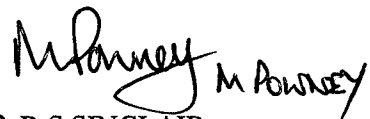
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Certificate Number BAS01ATEX2308/2

15

Description of the variation to the Equipment or Protective System

Variation 2.1

To permit the relocation of the capacitor and ballast to an external enclosure if required.

16

Report Number

None

17

Special Conditions for Safe Use

None

18

Essential Health and Safety Requirements

See original certificate

19

Drawings and Documents

Number	Sheet	Issue	Date	Description
D2058	1	02	19.07.04	General Assembly – Type 238 Wellglass Luminaire
D2058	2	02	19.07.04	General Assembly – Type 238 Wellglass Luminaire
D2058	3	02	19.07.04	General Assembly – Type 238 Wellglass Luminaire



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 **BAS01ATEX2308/3**
Number :

4 Equipment or protective system: **A Type 238 Wellglass Luminaire**

5 Manufacturer : **Chalmit Lighting**

6 Address : **Glasgow, G52 4BL**

7 This supplementary certificate extends EC - Type Examination Certificate No. **BAS01ATEX2308** 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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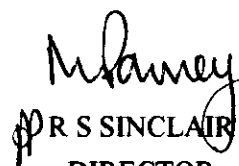
Baseefa Customer Reference No. **0068**


Project File No. **04/0858**

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On behalf of
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Certificate Number BAS01ATEX2308/3

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

Variation 3.1

To permit the use of an alternative line bushing to Baseefa04ATEX0317U.

16 **Report Number**

None

17 **Special Conditions for Safe Use**

None

18 **Essential Health and Safety Requirements**

See original certificate

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
D2058	1	03	29.11.04	General Assembly – Type 238 Wellglass Luminaire
D2058	2	03	29.11.04	General Assembly – Type 238 Wellglass Luminaire
D2058	3	03	29.11.04	General Assembly – Type 238 Wellglass Luminaire



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 **BAS01ATEX2308/4**
Number :

4 Equipment or protective system: **A Type 238 Wellglass Luminaire**

5 Manufacturer : **Chalmit Lighting**

6 Address : **Glasgow, G52 4BL**

7 This supplementary certificate extends EC - Type Examination Certificate No. **BAS01ATEX2308** 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. **05/0589**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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Schedule

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Certificate Number BAS01ATEX2308/4

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

Variation 4.1

To increase the maximum ambient temperature from 40°C to 45°C for the 250W versions of the SON/E, MBF/U and MBI luminaires.

16 **Report Number**

None

17 **Special Conditions for Safe Use**

None

18 **Essential Health and Safety Requirements**

See original certificate

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
D2058	1	04	24.08.05	General Assembly – Type 238 Wellglass Luminaire
D2058	2	04	24.08.05	General Assembly – Type 238 Wellglass Luminaire
D2058	3	04	24.08.05	General Assembly – Type 238 Wellglass Luminaire