



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 : **BAS01ATEX2307**

4 Equipment or Protective System: **A TYPE 216 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^o


01(C)0558/1 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 0068/01/016**

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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EC-TYPE EXAMINATION CERTIFICATE N° BAS01ATEX2307

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Description of Equipment or Protective System

A **Type 216 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. A line bushing is provided between the terminal enclosure and the main enclosure.

The luminaire can be fitted with either GLS, SON, MBF and Fluorescent 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	DELAY TIME BEFORE OPENING (MINUTES)	CABLE RATING
GLS	25 - 100	24 - 250	T4	-50°C to + 55°C	10	90°C
GLS	25 - 200	24 - 240	T3	-50°C to + 55°C	10	90°C
PAR 38	150	24 - 240	T3	-50°C to + 55°C	10	90°C
SON	50	200/210/220/230/240/250 50Hz 220/230/240/250/260 60Hz	T4	-50°C to + 50°C	4	70°C
SON	70		T4	-50°C to + 40°C	4	70°C
SON/R	70		T3	-50°C to + 40 °C	4	70°C
MBF/U	50/60		T4	-50°C to + 40 °C	4	70°C
FLUORESCENT						
PL 2 Pin	5/7/9/11	110,120 50/60 Hz (5/7/9) 220,230,240,250,260 50/60 Hz	T6	-50°C to + 55°C	Note 1	70°C
PLC 4 Pin	10/13	220/260 a.c./ d.c.	T6	-50°C to + 55°C	Note 1	70°C
PL 4 Pin	10/13	12,24,50/110,120,130 a.c. /d.c.	T6	-50°C to + 55°C	Note 1	70°C
PLC 2 Pin PLC 4 Pin	10/13	220,230,240,250,260 50/60 Hz	T6	-50°C to + 55°C	Note 1	70°C
PLC 4 Pin	18/26	12,24,50/110,120,130, 200,260 a.c. /d.c.	T5	-50°C to + 55°C	Note 1	70°C
PLC 2 Pin PLC 4 Pin	18/26	220,230,240,250,260 50/60 Hz	T5	-50°C to + 55°C	Note 1	70°C
2x PL 4 Pin	10/13	12,24,50,110,120,130 a.c./d.c.	T5	-50°C to + 40 °C	Note 1	70°C
2x PLC 4 Pin	10/13	220,230,240,250,260 50/60 Hz	T5	-50°C to + 40 °C	Note 1	70°C
2x PLC 4 Pin	18	220,230,240,250,260 50/60 Hz	T5	-50°C to + 40 °C	Note 1	70°C

Note 1 - These luminaires are fitted with a label indicating that the enclosures shall not be opened when an explosive gas atmosphere is present.



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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)0558/1 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)0558/1
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)0558/1
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° BAS01ATEX2307

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DRAWINGS

Number	Sheet	Issue	Date	Description
D2057	1	-	30.08.01	General Assembly - Type 216 Wellglass Luminaire
D2057	2	-	30.08.01	General Assembly - Type 216 Wellglass Luminaire
D2057	3	-	30.08.01	General Assembly - Type 216 Wellglass Luminaire
*D2062	1	-	14.09.01	Glazing Data - Types 216, 238, 261, & 261E Luminaires

* This drawing is common to certificates BAS01ATEX2308, BAS01ATEX2309, BAS01ATEX2310, held on EECS files 0068/01/017, 0068/01/018, and 0068/01/019 respectively.

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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: **BAS01ATEX2307/1**
- 4** Equipment or Protective System: **A Type 216 Wellglass Luminaire**
- 5** Manufacturer: **Chalmit Lighting**
- 6** Address: **Glasgow, G52 4BL**
- 7** This supplementary certificate extends EC – Type Examination Certificate No. **BAS01ATEX2307** 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. 03/0977

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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On behalf of
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Schedule

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Certificate Number BAS01ATEX2307/1

15 Description of the variation to the Equipment or Protective System

Variation 1.1

To permit a 70W SON lamp to be used in a maximum ambient temperature of 45°C.

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

LAMP TYPE	WATTAGE	VOLTAGE	TEMPERATURE CLASSIFICATION	AMBIENT TEMPERATURE RANGE	DELAY TIME BEFORE OPENING (MINUTES)	CABLE RATING
GLS	25 - 100	24 - 250	T4	-50°C to + 55°C	10	90°C
GLS	25 - 200	24 - 240	T3	-50°C to + 55°C	10	90°C
PAR 38	150	24 - 240	T3	-50°C to + 55°C	10	90°C
SON	50	200/210/220/230/240/250 50Hz 220/230/240/250/260 60Hz	T4	-50°C to + 50°C	4	70°C
SON	70		T4	-50°C to + 40°C	4	70°C
SON	70		T4	-50°C to + 45°C	10	70°C
SON/R	70		T3	-50°C to + 40°C	4	70°C
MBF/U	50/60		T4	-50°C to + 40°C	4	70°C
FLUORESCENT						
PL 2 Pin	5/7/9/11	110,120 50/60 Hz (5/7/9) 220,230,240,250,260 50/60 Hz	T6	-50°C to + 55°C	Note 1	70°C
PLC 4 Pin	10/13	220/260 a.c./ d.c.	T6	-50°C to + 55°C	Note 1	70°C
PL 4 Pin	10/13	12,24,50,110,120,130 a.c. /d.c.	T6	-50°C to + 55°C	Note 1	70°C
PLC 2 Pin PLC 4 Pin	10/13	220,230,240,250,260 50/60 Hz	T6	-50°C to + 55°C	Note 1	70°C
PLC 4 Pin	18/26	12,24,50,110,120,130, 200,260 a.c. /d.c.	T5	-50°C to + 55°C	Note 1	70°C
PLC 2 Pin PLC 4 Pin	18/26	220,230,240,250,260 50/60 Hz	T5	-50°C to + 55°C	Note 1	70°C
2x PL 4 Pin	10/13	12,24,50,110,120,130 a.c./d.c.	T5	-50°C to + 40°C	Note 1	70°C
2x PLC 4 Pin	10/13	220,230,240,250,260 50/60 Hz	T5	-50°C to + 40°C	Note 1	70°C
2x PLC 4 Pin	18	220,230,240,250,260 50/60 Hz	T5	-50°C to + 40°C	Note 1	70°C

Note 1 -These luminaires are fitted with a label indicating that the enclosures shall not be opened when an explosive gas atmosphere is present.

16 Report Number

03(CI)0977 dated 17 December 2003

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.

**Certificate Number
BAS01ATEX2307/1**



**Issued 17 December 2003
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19 Drawings and Documents

Number	Issue	Date	Description
D2057 Sheets 1 to 3 Inc.	01	11.11.03	General Assembly – 216 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 Number: **BAS01ATEX2307/2**

4 Equipment or Protective System: **A Type 216 Wellglass Luminaire**

5 Manufacturer: **Chalmit Lighting**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. **BAS01ATEX2307** 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. 04/0695

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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On behalf of
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Schedule

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Certificate Number BAS01ATEX2307/2

15 Description of the variation to the Equipment or Protective System

Variation 2.1

To permit an alternative line bushing to Baseefa04ATEX0317U and optional minor modifications to the lamp reflector and the internal earth assembly.

16 Report Number

None.

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	Issue	Date	Description
D2057 Sheets 1 to 3 Inc.	02	13.09.04	General Assembly – 216 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 Number: **BAS01ATEX2307/3**
- 4 Equipment or Protective System: **A Type 216 Wellglass Luminaire**
- 5 Manufacturer: **Chalmit Lighting**
- 6 Address: **388 Hillington Road, Glasgow. G52 4BL**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. **BAS01ATEX2307** 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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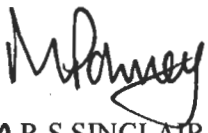
Baseefa Customer Reference No. **0068**

Project File No. **06/0188**

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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On behalf of
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Schedule

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Certificate Number BAS01ATEX2307/3

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

Variation 3.1

Introduction of a captive cover screw arrangement

16 **Report Number**

None

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	Issue	Date	Description
D2057 Sheets 1 to 3 Inc.	03	9/03/06	General Assembly – 216 Wellglass Luminaire