



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: **Baseefa04ATEX0245**

4 Equipment or Protective System: **A NEXLED 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 Baseefa (2001) Ltd. 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. **04(C)0393**

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

**EN 60079-0: 2004      EN 60079-7: 2003      EN 60079-1: 2004      EN 50281-1-1: 1998**

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 II 2 G Ex de IIC T4 (T<sub>amb</sub> = - 45°C to + 55°C)**  
**Ex II 2 D T100°C**

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

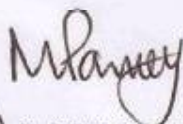
Baseefa (2001) Ltd. Customer Reference No. **0068**

Project File No. **04/0393**

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.

**Baseefa (2001) Ltd.**

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**R S SINCLAIR**  
DIRECTOR  
On behalf of  
Baseefa (2001) Ltd.



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## Schedule

14

Certificate Number Baseefa04ATEX0245

### 15 Description of Equipment or Protective System

A NEXLED Luminaire comprises a cast aluminium flat rectangular base and a cover with a glass diffuser. The diffuser is attached to the cover with two screw clips and the cover is attached to the base with four screws. Ingress protection is provided with a silicone rubber gasket between the base and the diffuser.

The internal arrangement comprises up to eight 1W light emitting diodes mounted onto an aluminium heatsink or two LED's without a heatsink, an electronic control module and fuse within a cylindrical flameproof enclosure, and terminal strips.

The luminaire is rated up to 254V a.c 2W to 8W depending upon the number of LED's fitted.

The enclosure is provided with cable entry holes which must be fitted with ATEX EEx e approved cable glands which maintain the ingress protection of the enclosure. Unused entries must be fitted with ATEX EEx e approved stopping plugs.

### 16 Report Number

Baseefa certification report 04(C)0393

### 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
D2658	1	-	08.09.04	NEXLED Zone 1 - General Assembly
D2658	2	-	08.09.04	NEXLED Zone 1 - Wiring Details
D2658	3	-	08.09.04	NEXLED Zone 1 - LED and Driver Details



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: **Baseefa04ATEX0245/1**
- 4 Equipment or Protective System: **A NEXLED Luminaire**
- 5 Manufacturer: **Chalmit Lighting**
- 6 Address: **388 Hillington Road, Glasgow, G52 4BL**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa04ATEX0245 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. 05/0479

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**DIRECTOR**  
On behalf of  
Baseefa (2001) Ltd.



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## Schedule

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Certificate Number Baseefa04ATEX0245/1

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

#### Variation 1.1

To include an emergency version with a NiCd rechargeable battery pack and encapsulated control gear covered by Baseefa06ATEX0083U. The control gear monitors the temperature of the battery pack and reduces the charge to safe levels if the temperature drops below 5°C.

The coding of the emergency version is:

Ⓢ II 2G Ex e ib mb IIC T4 ( $T_{amb} = -20^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$ )

Ⓢ II 2D T100°C

#### Variation 1.2

A heater may be wrapped around the battery pack. The control gear monitors the temperature of the battery pack and turns on the heater, if the temperature drops below 5°C.

With a heater fitted the coding is:

Ⓢ II 2G Ex e ib mb IIC T4 ( $T_{amb} = -45^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$ )

Ⓢ II 2D T100°C

### 16 Report Number

05(C)0479

### 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
D6070	1-2	0	13/3/06	NEXLED emergency general arrangement



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: **Baseefa04ATEX0245/2**

4 Equipment or Protective System: **A NEXLED Luminaire**

5 Manufacturer: **Chalmit Lighting**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa04ATEX0245 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. **07/0391**

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".

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**R S SINCLAIR**  
**DIRECTOR**  
On behalf of  
Baseefa (2001) Ltd.

Re-issued 7<sup>th</sup> August 2007



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## Schedule

14

Certificate Number Baseefa04ATEX0245/2

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

#### Variation 2.1

To allow the use of alternative control gear covered by certificate Baseefa06ATEX0322U.

#### Variation 2.2

To recognise that the battery packs, without additional encapsulant, comply with the requirements of Clause 5.7.2 of EN 60079-7: 2007 and therefore may be used in the arrangement as detailed in the scheduled drawing.

#### Variation 2.3

To allow a non-emergency version using the control gear covered by certificate Baseefa06ATEX0322U but with the batteries, heater and thermistor removed. The coding for the non-emergency version is:

⊕ II 2G Ex e mb II T4 (T<sub>amb</sub> -50°C to 55°C)

⊕ II 2D T100°C

### 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	Sheet	Issue	Date	Description
D6050	1-3	0	5/3/07	NEXLED emergency general arrangement including alternative control gear