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 : **BAS99ATEX2228**

4 Equipment or Protective System: **EVOLUTION JUNIOR FLOODLIGHT IIC**

5 Manufacturer: **CHALMIT LIGHTING LIMITED**

6 Address: **Glasgow, Scotland, 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°

BASEEFA Certification Report 99(C)0312 dated 22 December 1999

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

EN 50014: 1997 + Amd 1 & 2 **EN 50018: 1994** **EN 50019: 1994**

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:-

Ex II 2 G **EEx de IIC T* (T_{amb} = -20°C to *°C)** ***See Schedule**

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

File No: EECS 0068/01/015

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.

I M CLEARE
DIRECTOR
11 January 2000

HSE
Health & Safety Executive

Electrical Equipment Certification Service
Health and Safety Executive
Harpur Hill, Buxton, Derbyshire. SK17 9JN. United Kingdom
Tel: 01298 28000 Fax: 01298 28244

13 **Schedule**

14 **EC-TYPE EXAMINATION CERTIFICATE N° BAS99ATEX2228**

15 **Description of Equipment or Protective System**

The Evolution Junior Floodlight IIC comprises a sand cast or die cast aluminium rectangular lamp housing with an integral increased safety terminal enclosure at one end and a threaded cover at the other. The luminaire may be fitted with either a 70W SON/T, or a 70W HQI-E lamp. A potted lampholder, containing an ignitor, passes through the wall of the increased safety terminal enclosure into the lamp housing. Leads are passed from the increased safety terminal enclosure into the lampholder, and the lamp housing, via Bartec line bushings Type 07-9101-H02D and Type 07-9101-H03D respectively. The line bushings are to Certificate PTB 97ATEX1047U, coded EEx d IIC, and marked ⟨Ex⟩II 2 G. The lamp housing also contains a ballast located behind the lamp reflector, and a capacitor located behind the threaded cover.

Cemented into a recess in the top of the lamp housing is a glass window, which is retained by a rectangular frame secured by 8 M8 x 15 mm socket head cap screws of grade A2-70 stainless steel. The heads of the screws are potted to prevent removal.

The enclosure may be manufactured from the alternative materials of brass or gunmetal, and various light shields and a window cover guard may be fitted.

Internal and external earth facilities are provided.

An enclosure without the threaded cover, the ballast, the capacitor, or the Bartec bushing from the increased safety terminal enclosure into the lamp housing, is provided for the luminaires when fitted with double ended tungsten halogen lamps of 150, 200, 250 or 300 watts. A secondary glass may be clamped in contact with the cover glass for these fittings.

The installer shall use an appropriate method to ensure a minimum ingress protection of IP54 or higher IP rating to match that on the label at each entry, choosing cable entry devices in accordance with a recognised Code of Practice/Installation Instructions.

The temperature classifications and maximum ambient temperatures for each lamp type are indicated in the table below.

Lamp	Maximum Wattage	Secondary Glass Fitted	Temperature Classification	Maximum Ambient Temperature (°C)
Tungsten Halogen	300	Yes	T2	40
	250	No	T2	50
		Yes	T2	40
		No	T3	20
	200	Yes	T2	50
		No	T3	40
		Yes	T3	25
	150	Yes	T3	55
		No	T3	55

13 **Schedule**

14 **EC-TYPE EXAMINATION CERTIFICATE N° BAS99ATEX2228**

Lamp	Maximum Wattage	Secondary Glass Fitted	Temperature Classification	Maximum Ambient Temperature (°C)
SON/T	70	-	T3	55
		-	T4	40
HQI-E	70	-	T3	55
		-	T4	40

16 **Report No.**

BASEEFA Certification Report No. 99(C)0312

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	BASEEFA Report No. 99(C)0312
1.0.3	Special checking and maintenance conditions	No special requirements
1.0.6	Instructions	BASEEFA Report No. 99(C)0312
1.2.2	Components for incorporation or replacement	See Manufacturer's Instructions
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. 99(C)0312
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. 99(C)0312
2.2.2	Category 2D	Not applicable
2.3.	Category 3	Not applicable
3.	Requirements for protective systems	Not applicable

13 **Schedule**

14 **EC-TYPE EXAMINATION CERTIFICATE N° BAS99ATEX2228**

19 **DRAWINGS**

Number	Sheet	Issue	Date	Description
D1901	1	-	10.3.99	General Assembly - Evolution Junior (IIC)
D1901	2	-	10.3.99	General Assembly - Evolution Junior (IIC)
D1901	3	-	10.3.99	General Assembly - Evolution Junior (IIC)
D1901	4	-	10.3.99	General Assembly - Evolution Junior (IIC)

BASEEFA List Keywords
2FLODLUM

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: **BAS99ATEX2228/1**

4 Equipment or Protective System: **EVOLUTION JUNIOR FLOODLIGHT IIC**

5 Manufacturer: **CHALMIT LIGHTING LIMITED**

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

7 This supplementary certificate extends EC-Type Examination Certificate No. BAS99ATEX2228 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.

File No: EECS 0068/01/015

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.

I M CLEARE
DIRECTOR
7 June 2001

HSE Health & Safety Executive

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13 **Schedule**

14 **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE N° BAS99ATEX2228/1**

Description of the Variation to the Equipment or Protective System

VARIATION 1.1

To permit the following changes to the ignitor housing.

a) Replacement of the line bushing with potted cables type H07G-K. (Tungsten halogen lamps only).
b) Addition of an external web.
c) Replacement of the tapped ring with screw bosses for the lampholder. (Tungsten halogen lamps only).
d) Increase in the length of the flamepath.

Report No.

BASEEFA Certification Report No. 01(CI)0288 dated 31 May 2001.

Special Conditions For Safe Use

See original certificate.

Essential Health and Safety Requirements

See original certificate.

19 **DRAWINGS**

Number	Issue	Date	Description
D1901 Sheets 1-4 inc.	1	06.03.01	General Assembly - Evolution Junior (IIC)

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 :	**BAS99ATEX2228/2**
4	Equipment or protective system:	**Evolution Junior Floodlight IIC**
5	Manufacturer :	**Chalmit Lighting**
6	Address :	**Glasgow, G52 4BL**

7 This supplementary certificate extends EC - Type Examination Certificate No.**BAS99ATEX2228** 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.

Baseefa Customer Reference No. **0068**

Project File No. **04/0858**

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.

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

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Baseefa is a trading name of Baseefa (2001) Ltd
Registered in England No. 4305578 at the above address.

13 # Schedule

14 ## Certificate Number BAS99ATEX2228/2

15 Description of the variation to the Equipment or Protective System

Variation 2.1

To permit the use of an alternative 2 core 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
D1901	1	03	29.11.04	General Assembly – Evolution Junior IIC
D1901	2	03	29.11.04	General Assembly – Evolution Junior IIC
D1901	3	03	29.11.04	General Assembly - Evolution Junior IIC
D1901	4	03	29.11.04	General Assembly - Evolution Junior IIC