



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: **Baseefa11ATEX0090**

4 Equipment or Protective System: **Solas & Solas (Emergency) LED Luminaires**

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, 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/ExTR11.0092/00**

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

EN60079-0: 2009 **EN60079-7: 2007**
EN60079-1: 2007 **EN60079-31: 2009**

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 :

Ⓔ II 2 GD Ex d e IIB T5 Gb Ex tb IIIC T100°C Db IP6X (T_{amb}= see Schedule)

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


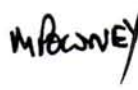
Baseefa Customer Reference No. **0068**

Project File No. **10/0964**

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

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R S SINCLAIR 
DIRECTOR
On behalf of
Baseefa



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Schedule

14

Certificate Number Baseefa11ATEX0090

15 Description of Equipment or Protective System

The Solas & Solas (Emergency) Luminaires comprise a circular body with external fins and a circular flat cover, both manufactured from aluminium, brass or gunmetal. The cover is fitted with a glass window sealed in place by a silicone cement. The cover is fixed to the body with 8 off M10 stainless steel screws of grade A2-70.

The body has an integral increased safety terminal box on the side containing a 4 or 6 way terminal block to either PTB98ATEX3125U or Sira01ATEX3249U. The rear wall of the terminal box is fitted with up to 2 line bushings to either Baseefa04ATEX0317U or PTB97ATEX1047U, which provide interconnection with the flameproof chamber.

The LED lamp array, comprising up to 34 high intensity LEDs and 2 indicator LEDs, is mounted within the flameproof chamber on an aluminium mounting plate (flat for the narrow beam spotlight unit or angled strips for the wide beam floodlight unit) directly behind the cover window.

In addition supplementary control gear as follows may optionally be mounted within the enclosure base to form the various models/functions as specified in the table below :-

- a. additional terminal blocks
- b. a battery pack, comprising 18 cells
- c. a battery pack heater, c/w thermal switches
- d. a LED mains driver
- e. an emergency driver/inverter

Internal and external earth facilities are provided.

Up to two M20 or M25 cable entries, or NPT equivalent, are provided in the side wall of the terminal box for the accommodation of suitably certified cable entry devices. The cable entry devices or stopping plugs should be certified as Equipment (not a Component) and be installed to maintain the IP rating of the enclosure.

The maximum/minimum ambient temperatures applicable for each luminaire are determined by the function of the unit (i.e. the internal components fitted) as follows:-

Model	Ambient*	Maintained or Non-maintained	Battery Heater
Solas Spotlight	-55°C to +55°C	N/A - Switched only	N/A
Solas (Emergency)	-55°C to +55°C	Non-maintained	Yes
	-20°C to +55°C	Non-maintained	No
	-55°C to +40°C	Maintained	Yes
	-20°C to +40°C	Maintained	No

* The permitted ambient temperatures may be restricted to other figures within the ranges as shown above.

16 Report Number

Baseefa Certification Report GB/BAS/ExTR11.0092/00

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	Issue	Date	Description
H015293 Sheets 1 to 3	1	20/01/2010	General Arrangement, Solas LED Spotlight/Emergency Luminaire
H022205	0	11/04/2011	Solas Glazing Detail
H022212 Sheets 1 to 4	1	14/04/2011	Circuit Specification

These drawings are common to and held with IECEx BAS 11.0049.