



EC-TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC

- 1
- 2
- 3 EC-Type Examination Certificate Number : **BAS02ATEX2180**
- 4 Equipment or Protective System: **PROTECTA 2D RANGE OF FLUORESCENT 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 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 No. 02(C)0162 dated 9 July 2002

- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
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. 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 2D T95°C **T_{amb}** (see schedule)

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

File No: EECS 0068/03/049

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.



Electrical Equipment Certification Service
Health and Safety Executive
Harpur Hill, Buxton, Derbyshire, SK17 9JN, United Kingdom
Tel: +44(0)1298 28000 Fax: +44(0)1298 28244
internet: www.baseefa.com e-mail: baseefa.info.eecs@hsl.gov.uk



I M CLEARE
DIRECTOR
30 July 2002



13

Schedule

14

EC-TYPE EXAMINATION CERTIFICATE N° BAS02ATEX2180

15

Description of Equipment or Protective System

The Protecta 2D Range of Fluorescent Luminaires comprises single and twin units of 18W and 36W in emergency and non-emergency units. The luminaire body is of glass reinforced polyester resin or stainless steel with a polycarbonate diffuser. Ingress protection of at least IP66/67 is maintained by a gasket between the diffuser and the body. The gasket is made from EPDM on GRP bodied luminaires and silicone rubber on steel bodied models. The gasket is fixed by adhesive into a moulded groove in the body. The diffuser is hinged at one side and held at the other side by a quick release snap-on channel along the entire length of the luminaire. A side entry 42mm diameter 'spigot mounting' option is available. The enclosure has already been ATEX approved for category 2G use by certificates KEMA99ATEX4934U and KEMA98ATEX3045.

The control gear and components are mounted on a removable steel gear tray attached to the body by moulded inserts. Any ballast or inverter meeting the requirements of EN 60928 and EN 60924 may be installed. Category 2G or 3G approved components may also be used.

Through wiring, if fitted, uses either 2.5mm² or 4mm² high temperature PVC cable rated for at least 110°C and a maximum current of 16A. Terminal blocks must be suitable for wiring up to 6mm².

The following models are included in the range:

| Catalogue number | Model number | Body Material | T _{amb} °C | Lamp(s) | Note |
|---------------------------------------|--------------|---------------|---------------------|-----------|------------|
| <i>From rating schedule A sheet 1</i> | | | | | |
| PRGD/118/BI/SE | 500531.E*** | GRP | -20 to +40 | 1x18W G13 | Side entry |
| PRGD/218/BI/SE | 500631.E*** | " | " | 2x18W G13 | " " |
| PRGD/118/BI | 500131.E*** | " | -20 to +55* | 1x18W G13 | ----- |
| PRGD/218/BI | 500231.E*** | " | " | 2x18W G13 | ----- |
| PRGD/136/BI | 500331.E*** | " | " | 1x36W G13 | ----- |
| PRGD/236/BI | 500431.E*** | " | " | 2x36W G13 | ----- |
| <i>From rating schedule B sheet 1</i> | | | | | |
| PRSD/118/BI | 510131.E*** | STEEL | "* | 1x18W G13 | ----- |
| PRSD/218/BI | 510231.E*** | " | " | 2x18W G13 | ----- |
| PRSD/136/BI | 510331.E*** | " | " | 1x36W G13 | ----- |
| PRSD/236/BI | 510431.E*** | " | " | 2x36W G13 | ----- |
| <i>From rating schedule C sheet 1</i> | | | | | |
| PRGD/118/BI/EM | 502131.E*** | GRP | -20 to +45* | 1x18W G13 | Emergency |
| PRGD/218/BI/EM | 502231.E*** | " | " | 2x18W G13 | " |
| PRGD/136/BI/EM | 502331.E*** | " | " | 1x36W G13 | " |
| PRGD/236/BI/EM | 512431.E*** | " | " | 2x36W G13 | " |
| <i>From rating schedule D sheet 4</i> | | | | | |
| PRSD/118/BI/EM | 512131.E*** | STEEL | "* | 1x18W G13 | " |
| PRSD/218/BI/EM | 512231.E*** | " | " | 2x18W G13 | " |
| PRSD/136/BI/EM | 512331.E*** | " | " | 1x36W G13 | " |
| PRSD/236/BI/EM | 512431.E*** | " | " | 2x36W G13 | " |
| PRSE/218/BI/D | 510231.H*** | " | -20 to +55* | 2x18W G13 | ----- |
| PRSE/136/BI/D | 510331.H*** | " | " | 1x36W G13 | ----- |
| PRSE/236/BI/D | 510431.H*** | " | " | 2x36W G13 | ----- |
| PRSE/218/BI/120/D | 510231.H**1 | " | " | 2x18W G13 | ----- |
| PRSE/136/BI/120/D | 510331.H**1 | " | " | 1x36W G13 | ----- |



13

Schedule

14

EC-TYPE EXAMINATION CERTIFICATE N° BAS02ATEX2180

| Catalogue number | Model number | Body Material | T _{amb} °C | Lamp(s) | Note |
|---------------------------------------|--------------|---------------|---------------------|-----------|------------------------|
| PRSE/236/BI/120/D | 510431.H**1 | " | " | 2x36W G13 | ----- |
| PRSE/218/BI/EM/D | 512231.J*** | " | -20 to +45* | 2x18W G13 | Emergency |
| PRSE/236/BI/EM/D | 512431.J*** | " | " | 2x36W G13 | " |
| PRSE/218/BI/EM/120/D | 512231.J**1 | " | ** | 2x18W G13 | " |
| PRSE/236/BI/EM/120/D | 512431.J**1 | " | " | 2x36W G13 | " |
| <i>From rating schedule E sheet 4</i> | | | | | |
| PRGE/218/BI/D | 500231.H*** | GRP | -20 to +55* | 2x18W G13 | ----- |
| PRGE/136/BI/D | 500331.H*** | " | " | 1x36W G13 | ----- |
| PRGE/236/BI/D | 500431.H*** | " | " | 2x36W G13 | ----- |
| PRGE/218/BI/SE/D | 500631.H*** | " | ** | 2x18W G13 | Side entry |
| PRGE/218/BI/120/D | 500231.H**1 | " | ** | 2x18W G13 | ----- |
| PRGE/136/BI/120/D | 500331.H**1 | " | " | 1x36W G13 | ----- |
| PRGE/236/BI/120/D | 500431.H**1 | " | " | 2x36W G13 | ----- |
| PRGE/218/BI/120/SE/D | 500631.H**1 | " | ** | 2x18W G13 | Side entry |
| PRGE/218/BI/EM/D | 502231.J*** | " | ** | 2x18W G13 | Emergency |
| PRGE/236/BI/EM/D | 502431.J*** | " | " | 2x36W G13 | " |
| PRGE/218/BI/EM/SE/D | 502631.J*** | " | ** | 2x18W G13 | Side entry & Emergency |
| PRGE/218/BI/EM/120/D | 502231.J**1 | " | ** | 2x18W G13 | Emergency |
| PRGE/236/BI/EM/120/D | 502431.J**1 | " | " | 2x36W G13 | " |
| PRGE/218/BI/EM/120/D | 502631.J**1 | " | " | 2x18W G13 | " |
| <i>From rating schedule F sheet 4</i> | | | | | |
| PRSE/218/MO/D | 510231.H*** | STEEL | ** | 2x18W Fa6 | ----- |
| PRSE/136/MO/D | 510331.H*** | " | " | 1x36W Fa6 | ----- |
| PRSE/236/MO/D | 510431.H*** | " | " | 2x36W Fa6 | ----- |
| PRSE/218/MO/120/D | 510231.H**1 | " | ** | 2x18W Fa6 | ----- |
| PRSE/136/MO/120/D | 510331.H**1 | " | " | 1x36W Fa6 | ----- |
| PRSE/236/MO/120/D | 510431.H**1 | " | " | 2x36W Fa6 | ----- |
| PRSE/218/MO/EM/D | 512231.J*** | " | -20 to +45* | 2x18W Fa6 | Emergency |
| PRSE/236/MO/EM/D | 512431.J*** | " | " | 2x36W Fa6 | " |
| PRSE/218/MO/EM/120/D | 512231.J**1 | " | ** | 2x18W Fa6 | " |
| PRSE/236/MO/EM/120/D | 512431.J**1 | " | " | 2x36W Fa6 | " |
| <i>From rating schedule G sheet 4</i> | | | | | |
| PRGE/218/MO/D | 500239.H*** | GRP | -20 to +55* | 2x18W Fa6 | ----- |
| PRGE/136/MO/D | 500339.H*** | " | " | 1x36W Fa6 | ----- |
| PRGE/236/MO/D | 500439.H*** | " | " | 2x36W Fa6 | ----- |
| PRGE/218/MO/SE/D | 500639.H*** | " | ** | 2x18W Fa6 | ----- |
| PRGE/218/MO/120/D | 500239.H**1 | " | ** | 2x18W Fa6 | ----- |
| PRGE/136/MO/120/D | 500339.H**1 | " | " | 1x36W Fa6 | ----- |
| PRGE/236/MO/120/D | 500439.H**1 | " | " | 2x36W Fa6 | ----- |
| PRGE/218/MO/120/SE/D | 500639.H**1 | " | ** | 2x18W Fa6 | Side entry |
| PRGE/218/MO/EM/D | 502239.J*** | " | ** | 2x18W Fa6 | Emergency |
| PRGE/236/MO/EM/D | 502439.J*** | " | " | 2x36W Fa6 | " |
| PRGE/218/MO/EM/SE/D | 502639.J*** | " | ** | 2x18W Fa6 | Side entry & Emergency |
| PRGE/218/MO/EM/120/D | 502239.J**1 | " | ** | 2x18W Fa6 | Emergency |
| PRGE/236/MO/EM/120/D | 502439.J**1 | " | " | 2x36W Fa6 | " |
| PRGE/218/MO/EM/120/D | 502639.J**1 | " | ** | 2x18W Fa6 | " |

* See variation 1.



13 Schedule

14 EC-TYPE EXAMINATION CERTIFICATE N° BAS02ATEX2180

16 Report No.

02(C)0162

17 Special Conditions For Safe Use

1. None.

18 Essential Health and Safety Requirements

All requirements are covered by compliance with harmonised standard EN 50281-1-1: 1998.

19 DRAWINGS

| Number | Issue | Sheet | Date | Description |
|--------|-------|--------|---------|---------------------------------|
| D2089 | 0 | 1 to 4 | 22/2/02 | Protecta 2D Range of Luminaires |

VARIATION 1.

When 18W luminaires are used at an ambient temperature above 40°C they are only suitable for use in areas with a low risk of impact, the certificate number must include an 'x'.

Special Conditions For Safe Use

1. When 18W luminaires are used at an ambient temperature above 40°C they are only suitable for use in areas with a low risk of impact.

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BASEEFA List Keywords
2FLUOLOM