



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: Sira 00ATEX1048

4 Equipment: 610 Wellglass Luminaire

5 Applicant: PFP Electrical Products Limited

6 Address: 22 Fortnum Close  
Mackadown Lane  
Kitts Green  
Birmingham  
B33 0LB

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number R51X6359A.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 50014:1997 (amendments A1 & A2)

EN 50018:1994

EN 50019:1994

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. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2 G

EEx de IIC T\* (Ta = -45°C to \*°C) or EEx d IIC T\* (Ta = -45°C to \*°C)

(\*The temperature class and maximum ambient temperature are dependent on the type of light source used)

M D Shearman  
Certification Manager

Project Number 51X6359  
Date 23 November 2000  
C. Index 05

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**Sira Certification Service**

Rake Lane, Eccleston, Chester, CH4 9JN, England  
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Email: exhazard@siratc.co.uk



## SCHEDULE

### EC TYPE-EXAMINATION CERTIFICATE

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#### 13 DESCRIPTION OF EQUIPMENT

The 610 Wellglass Luminaire consists of a housing manufactured in aluminium, gunmetal, cast iron or stainless steel, which includes a separate lid that incorporates a glass dome. The glass dome is cemented into the lid using Eccobond 45LV. Within the enclosure are housed the optional light sources and any associated electrical equipment. Electrical connection is made via an increased safety terminal housing, which is cast as part of the same main housing. This housing employs component approved terminals, and interconnection between the terminals and the flameproof housing is via an approved bushing. Alternatively, suitably certified cable entry devices are used to provide direct electrical connection into the EEx d luminaire.

The luminaires are available with either a spigot joint (IIB applications) or a threaded joint (IIC applications) between the base and the glass lid collar.

The temperature classes, maximum ambient temperatures and timed delay that are applicable to each light source are listed below:

Light Source Option	Universal Mounting		Vertical Mounting		Delay Between Isolation & Opening (mins)
	T Class	Ta (°C)	T Class	Ta (°C)	
125 W MBF/U	3	+35	3	+55	15
<LAMP VALUE> MBF/U TO 80 W MAX	4	+40	4	+55	15
<LAMP VALUE> SON TO 110 W MAX	4	+40	4	+55	15
70 W SON-R	3	+55	N/A	N/A	15
150 W GLS OR HALOGENA	4	+40	3	+55	15
ROTATING BEACON	4	+70	N/A	N/A	15
25 W SL OR 20 W PLCE MAX	4	+70	N/A	N/A	15
XENON BEACONS	4	+55	N/A	N/A	15

#### 14 DESCRIPTIVE DOCUMENTS

14.1	Drawing No.	Sheet	Rev.	Date	Title
	GL 50000	1 of 1	1	20 Jun 00	Through Wall Bushes
	28240608	1 of 1	1	29 Sep 00	610 Atex Cert Label
	28240607	1 of 1	1	29 Sep 00	610 Atex Warning Label
	H60061004	1 of 1	1	21 Feb 96	615 - Alternative Interiors
	H60061003	1 of 1	3	10 Nov 00	Wellglass Luminaire Group IIC
	H60061001	1 of 1	3	16 Feb 93	Wellglass Luminaire 150W Maximum Rating
14.2	Report No. R51X6359A				

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**SCHEDULE**

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15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)

None

16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in Report No. R51X6359A.

17 **CONDITIONS OF CERTIFICATION**

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of SCS Certificates.

17.2 Each 610 glass dome shall be subjected to a routine overpressure test of 11.1 bar (IIB) or 11.4 bar (IIC) or 14 bar (-45°C ambient temperatures) for at least 10 s as required by clause 16.1 of EN 50018:1994. There shall be no permanent deformation or damage to the enclosure.

17.3 A 1500 Vrms electrical strength test shall be applied in accordance with clause 6 of EN 50019:1994 between the live parts of the terminals and bushing and the outer case. The internal components of the EEx d enclosure may be disconnected for this test.

17.4 This certificate relies on the previously certified products. When used as part of the 610 Wellglass Luminaire, the key attributes listed in the table below shall still be maintained by their original certificate.

Description	Certificate No	Key attributes
6 way terminal strip	As appropriate	Atex component certified to EEx e II and suitable for 6 mm <sup>2</sup> conductors

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