



**EC TYPE-EXAMINATION CERTIFICATE**

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

Certificate Number: Sira 00ATEX1047

Equipment: 620 Wellglass and 621 Bulkhead Luminaires

Applicant: PFP Electrical Products Limited

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

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

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 R51X6336A.

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

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.

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.

The marking of the equipment shall include the following:



II 2G

EEx de IIB T\* (Ta = -20°C to \*\*°C) or

EEx de IIC T\* (Ta = -20°C to \*\*°C)

\* The temperature class and ambient temperature depends upon the type of light source used (see certificate schedule).

Project Number 51X6336  
Date 4 October 2000  
C. Index 05

M D Shearman  
Certification Manager

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**Sira Certification Service**

Rake Lane, Eccleston, Chester, CH4 9JN, England  
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## SCHEDULE

### EC TYPE-EXAMINATION CERTIFICATE

Sira 00ATEX1047

#### 13 DESCRIPTION OF EQUIPMENT

The 620 Wellglass and 621 Bulkhead Luminaires consist of a housing manufactured in aluminium, gun metal or stainless steel which includes a separate lid incorporating a glass dome. The shape of this glass dome is the only distinguishing feature between the 620 and 621 luminaires. 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. This is cast, as part of the same main housing. The terminal housing employs component approved terminals, interconnection between the terminals and the flameproof housing is via a component approved bushing.

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, ambient temperatures and time delays that are applicable to each light source are listed below:

Type 620	T-Class	Ambient	Time Delay	T-Class	Ambient	Time Delay
300 W GLS	T3	40°C	10 mins	T3	55°C	10 mins
125 W HPMV	T4	40°C	35 mins	T3	60°C	35 mins
150 W SON	T4	40°C	35 mins	T3	60°C	35 mins
85 W QL	T5	40°C	10 mins	T4	60°C	10 mins
250 W HPMV	T3	39°C	05 mins			
250 W SON	T3	40°C	05 mins			

Type 621	T-Class	Ambient	Time Delay	T-Class	Ambient	Time Delay
70 W SON	T4	40°C	05 mins	T4	60°C	05 mins
80 W HPMV	T4	40°C	05 mins	T3	60°C	05 mins
25 W SL	T6	40°C	40 mins	T5	60°C	40 mins
125 W HPMV	T4	40°C	05 mins			
200 W GLS	T4	33°C	05 mins			

#### 14 DESCRIPTIVE DOCUMENTS

Drawing No	Rev	Sheet	Date	Title
28240622	1	1 of 1	02 Mar 00	620 MARKING WITH COMBINED ATEX LABEL
24120010	2	1 of 1	03 Mar 00	MILD STEEL PVC COATED WIRE GUARD
H60062001	3	1 of 1	01 Mar 00	WELLGLASS LUMINAIR 300 W MAXIMUM RATING
60062101	2	1 of 1	01 Mar 00	BULKHEAD LUMINAIRE 200 W MAXIMUM RATING
H60062002	1	1 of 1	09 Nov 99	620/621 BEZEL & BODY ARRANGEMENT FOR GROUP IIC & IIB
H17440103	2	1 of 1	12 Apr 00	621 WIRE GUARD DETAIL
GL50000	1	1 of 1	20 Jun 00	THROUGH WALL BUSHES
H13240166	1	1 of 1	17 Jun 99	SERIES 620 BEZEL M245 X 2.0 MM

#### 14.2 Report No. R51X6336A

Date 4 October 2000

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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 (EHSR'S)**

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in Report No. R51X6336A.

**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 620 glass dome shall be subjected to a routine overpressure test of 13.6 bar 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 Each 621 glass dome shall be subjected to a routine overpressure test of 12.1 bar 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.

17.4 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.

17.5 This certificate relies on the following previously certified products. When used as part of the 620 Wellglass and 621 Bulkhead Luminaires, 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 II 2G, additionally marked EEx e II and suitable for 6 mm <sup>2</sup> conductors

Date 4 October 2000

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## EC TYPE-EXAMINATION CERTIFICATE VARIATION

**CERTIFICATE NUMBER** Sira 00ATEX1047 **Dated** 4 October 2000

**VARIATION NUMBER** 1 (ONE) **Dated** 16 March 2001

### VARIATION TO EQUIPMENT

To permit:

- 1 The amendment of clause 17.2 of the conditions of certification to reduce the value of the pressure test of the 620 Wellglass Luminaire from 13.6 bar to 11.5 bar.
- 2 The use of an alternative cement material (Modified Eccobond<sup>®</sup> 45 LV, White) for high ambient applications.
- 3 The introduction of the following alternative temperature classifications, ambient temperatures and timed delays that are applicable to each light source when the Modified Eccobond 45 LV, White is used.

Type 620	Temperature Class	Ambient (°C)	Time Delay (Mins)
250W SON	T3	70	05
250W HPMV	T2	65	05
250W HPMV	T3	50	05
150W SON	T3	90	35
125W HPMV	T3	90	35
300W GLS	T3	85	10

Type 621	Temperature Class	Ambient (°C)	Time Delay (Mins)
125W HPMV	T3	70	05
70W SON	T3	90	05
25W SL or PLCE	T5	60	40
200W GLS	T3	60	05
80W HPMV	T3	90	05

**File No** 51A7413

**M D Shearman**  
**Certification Manager**

**Report No.** R51A7413A

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**CERTIFICATE NUMBER**                      Sira 00ATEX1047                      **Dated**                      4 October 2000

**VARIATION NUMBER**                      1 (ONE)                      **Dated**                      16 March 2001

### DESCRIPTIVE DOCUMENTS

Number	Sheet	Rev	Date	Description
28240622*	1 of 1	2	07 Mar 01	620 MARKING WITH COMBINED ATEX LABEL
H28240621	1 of 1	3	28 Feb 01	621 MARKING WITH COMBINED LABEL

\* This drawing was amended by Sira on 16 March 2001

### ADDITIONAL CONDITIONS OF CERTIFICATION

17.2 Each 620 glass dome shall be subjected to a routine overpressure test of 11.5 bar 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.

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