

BRE Certification Limited and LPCB

Bucknalls Lane, Garston, Walford, Hertfordshire, WD25 9XX

Telephone: 01923 664100 Fax: 01923 664603 E-mail: enquiries@bre-certification.co.uk Web: www.bre-certification.co.uk

EC-CERTIFICATE OF CONFORMITY

0832 - CPD - 0128

In compliance with the Directive 89/106/EEC of the Council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to the construction products (Construction Products Directive - CPD), amended by the Directive 93/68/EEC of the Council of European Communities of 22 July 1993, it has been stated that the construction product

Roshni LP ROLP Conventional Type A/B fire alarm sounder for use in fire detection and alarm systems

(For conditions of use for the product see the attached appendix)

placed on the market by

Fulleon Limited
Llantarnam Park, Cwmbran, Gwent, NP44 3AW

and produced in the factory

Fulleon Limited
Llantarnam Park, Cwmbran, Gwent, NP44 3AW

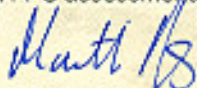
is submitted by the manufacturer to a factory production control and to the further testing of samples taken at the factory in accordance with a prescribed test plan. The initial type-testing for the relevant characteristics of the product, the initial inspection and continuous surveillance of the factory and factory production control has been performed under the control of the approved body BRE Certification Limited.

This certificate attests that all provisions concerning the attestation of conformity (Level 1) and the performances described in Annex ZA of the standard(s)

EN 54 - 3: 2000 + A1: 2002 - Fire detection and fire alarm systems - Fire alarm devices - Sounders

were applied and that the product fulfils all the prescribed requirements.

This certificate was first issued on 1/7/2005 and remains valid as long as the product continues to be manufactured and the conditions laid down in the harmonised technical specification referenced or the manufacturing conditions in the factory or the FPC itself are not modified significantly and the required annual FPC assessments are maintained.



Martin Aris
For and on behalf of BRE Certification Limited

Date Of Issue: 1/7/2005
Issue Number: 1
Page: 1 of 2

This certificate remains the property of BRE Certification Ltd and is issued subject to terms and conditions and is maintained and held in force through regular Factory Production Control audits.
To check the authenticity of this certificate, please visit our website or contact us.

BRE Certification Limited and LPCB

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Appendix to EC Certificate of conformity 0832 - CPD - 0128

The details and conditions of use for the Roshni LP ROLP Conventional Type A/B fire alarm sounder, placed on the market by Fulleon Limited are:

To be used in accordance with the suppliers installation instructions and in conjunction with the following bases, ancillaries, sounder tones and sensitivity settings (where applicable):

Bases:

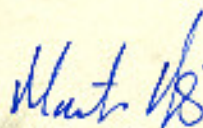
Deep mounting base
'U' mounting base
Shallow mounting base

Sounder Tones:

3 - Sweep 800Hz - 970Hz in 1s
7 - Slow whoop 500Hz - 1200Hz in 3.5s - 0.5s silence
8 - Sweep 1200Hz - 500Hz in 1s
14 - Continuous 970Hz steady
29 - Alternating 990Hz 250ms / 650Hz 250ms
30 - Alternating 510Hz 250ms / 610Hz 250ms

Variants:

NV - No volume control
NS - No tone switch
LM - With line monitor resistor
NB - No base
LC - All light colours
C - All body colours



Martin Aris
For and on behalf of BRE Certification Limited

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Page: 2 of 2

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DECLARATION OF CONFORMITY

Fire alarm device – Sounder for fire detection & alarm systems for buildings

**We, Fulleon Ltd
Llantarnam Park
Cwmbran
South Wales
NP44 3AW**

declare under our sole responsibility that the product(s)

Roshni LP – ROLP 24VDC Conventional Fire Alarm Sounder

Manufactured at,

Llantarnam Park, Cwmbran, South Wales. NP44 3AW

is (are) in conformity with the following standard(s) or other normative document(s)

Annex ZA of EN 54-3:2001

when used in the following applications & conditions::

Fire detection & Alarm Systems (Type A/B)

following the provisions of the directive(s):

89/106/EEC Construction Products

under certification by the Notified Body:

**BRE, Garston, Watford, UK
0832**

1st July 2005

Date of Declaration

**P. Maxwell, Managing Director
Fulleon Limited**



DECLARATION OF CONFORMITY

**We Fulleon Ltd
Llantarnam Park
Cwmbran
South Wales
NP44 3AW**

declare under our sole responsibility that the product(s)

Roshni LP DC Sounder Range / ROLP

**to which this declaration relates is in conformity with the following
standard(s) or other normative document(s)**

EN 61000-6-3:2001 + A11:2004, EN50130-4: 1995 + A2:2003 (EMC)

following the provisions of the EMC Directive(s) 89/336/EEC

Electronics Engineer

Technical Director

28/9/07

Date

Loss Prevention Certification Board



This is to certify

FULLEON LIMITED

Llantarnam Park, Cwmbran, Gwent NP44 3AW

is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix.

ROLP Roshni LP Sounder

(refer to attached appendix for details)

which has complied with the requirements of the following:

**EN 54-3: 2001 – Fire detection and fire alarm systems –
Fire alarm devices – Sounders**

Certificate No. 378b

Issue No. 04

Date of Issue 15 August 2007

This certificate is valid until withdrawn by LPCB.
To check the validity and the authenticity of this certificate please
visit our website www.RedBookLive.com or contact us.

Signed on behalf of the LPCB

Name: P STEVENS



LPCB is part of BRE Certification Ltd., Garston, Watford WD25 9XX. Tel +44 (0)1923 664100
Fax +44 (0)1923 664603 www.RedBookLive.com

This certificate remains the property of BRE Certification Ltd and is issued subject to terms and conditions
and is maintained and held in force through regular surveillance activities.

Loss Prevention Certification Board



APPENDIX TO CERTIFICATE NO. 378b

FULLEON LIMITED

Products

LPCB Ref. No.

ROLP Roshni LP Sounder^{1,2,3}

378b/01

- Notes:
1. The sounder is approved in red and white colours.
 2. Using Deep, U-shaped and shallow sounder bases in red and white colours.
 3. Meets the prEN54-3 requirements at tone patterns 3 and 8 only.

This certificate is valid until withdrawn by LPCB.
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Signed on behalf of the LPCB

Name: P STEVENS

Page 2 of 2

Date of Issue 15 August 2007

Issue No. 04

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Certificate

of Approval of Components and Systems

Holder of the Approval:

Fulleon Ltd.
Llantarnam Park, Cwmbran

GB- Gwent, NP44 3 AW

This approval

is valid only for the specified component/system as submitted for the test

■ together with the parts listed in enclosure 1

■ documented in the technical papers acc. to enclosure 2 (n/a for systems)

■ for application in the specified fire protection and security installations.

Use of the subject matter of the approval, is subject to the hints/comments of enclosure 3.

The validity of the approval can be extended upon application. Application for extension shall be submitted six months before expiry of the current approval at the latest.

This certificate may only be reproduced in its present form without any modification including all enclosures. All changes of the underlying conditions of this approval shall be reported

by registered mail at once to the VdS Certification Body enclosing the required documentation.

Any advertising with this VdS approved component/system shall reflect the correct contents of the certificate and shall not violate the trade practice rules.

Approval No.:	No. of pages:	Valid from:	Valid to:
G 206019	5	15.02.2008	05.02.2010

Subject matter of the Approval:

Sounder
Typ Roshni LP

Use:

in Automatic Fire Detection Systems

Basis for approval:

DIN EN 54, Part 3 (08/06) - Sounders
VdS 2504 (12/96) - Smoke Detectors, Sect. 5.6
VdS 2344 (12/05) - Procedure Guidelines

Köln (Cologne), 15.02.2008


Schüngel

Managing Director


i.V. Lüttenberg

Head of the VdS Certification Body

VdS Schadenverhütung GmbH
Zertifizierungsstelle
Amsterdamer Str. 174
D-50735 Köln

in the Gesamtverband der Deutschen Versicherungswirtschaft e.V.
(German federation of insurance companies)

accredited by the "Deutsche Akkreditierungsstelle Technik (DATech)" as a certification body for the areas of fire protection and security



DAT-ZE 005/92-32



Enclosure 1

Sheet 1

To Certificate of Approval No. G 206019

Date 15.02.2008

The approved component/system comprises the following parts:

Description of component	Type	Applicant's Registration No.	Approval number of component (only complete for system approval)
Sounder Base Base Base Base Base Base	Roshni LP Deep Base Shallow Base 'U' Base AV Base AVV Base	ROLP/C/B/T/L/F	

To Certificate of Approval No. G 206019

Date 15.02.2008

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
BRE Test Report No. TE 230767, dated 12.11.2007			
BRE Test Report No. TE 219450, dated 24.03.2005			
ROLP/C/B/T/L/F:			
Product Manual	M96-024 Issue E	27.02.2005	17
Circuit Diagram	96-047 Issue E	16.02.1999	1
Parts List	540501CPD Issue 2	27.09.2005	2
General Assembly	GD-006 Issue C	14.02.2005	1
Inner Moulding Drawing	26-44 Issue D	27.08.2004	1
Cover Moulding Drawing	26-43 Issue A	27.08.2004	1
PCB layout drawing SMT	14-0051 Issue E	18.02.1999	1
PCB layout drawing PTH	14-0051 Issue E	18.02.1999	1
Batch Label Drawing	25-4984 Issue B	28.07.2005	1
Connection Label Drawing	25-5820-A Issue B	09.10.2007	1
Product Label Drawing	25-5708 Issue C	12.05.2005	1
Installation Leaflet Drawing	25-6023-C Issue C	12.09.2007	2



To Certificate of Approval No. G 206019

Date 15.02.2008

The approved component/system is described as follows:

Type of document	Manufacturer's identification	Date	Number of Pages
Bases:			
Parts List (Deep)	590057CPD Issue A	27.09.2005	1
Parts List (Shallow)	590058CPD Issue A	27.09.2005	1
Parts List ('U')	590059CPD Issue A	27.09.2005	1
Parts List (AV)	590060CPD Issue A	27.09.2005	1
Parts List (AVV)	590061CPD Issue A	27.09.2005	1
General Assembly (Deep)	GD-009 Issue A	02.09.2004	1
General Assembly ('U')	GD-010 Issue A	02.09.2004	1
General Assembly (AV)	GD-011 Issue A	02.09.2004	1
General Assembly (AVV)	GD-012 Issue A	02.09.2004	1

To Certificate of Approval No.: G 206019

Date 15.02.2008

Instructions for the application of the approval component/system (see enclosure 1):

32 different tones may be adjusted at sounder type Roshni LP.

Only the following tones are approved for the use in fire detection and fire alarm systems:

<u>Tone No.</u>	<u>Tone</u>	<u>Frequency</u>	
3	Slow whoop	800-970 Hz	1 Hz
7	Slow whoop	500-1200 Hz	3,5s / 0,5s Pause
8	Slow whoop	1200-500 Hz	1 Hz
14	Continuous tone	970 Hz	
29	Alternating tone	990 Hz / 650 Hz	250ms / 250ms
30	Alternating tone	510 Hz / 610 Hz	250ms / 250ms

Sounder type Roshni LP corresponds with type A/B for the use in buildings and outside.

Operating voltage range: (9 ... 15) V DC (12V-Version)
(18 ... 28) V DC (24V-Version)

Alarm current: (2 ... 33) mA

COMMERCIAL IN CONFIDENCE

Environmental Test Report No : ENV777

Date : 17 January 2007

Fulleon Ltd

*This report shall not be reproduced, except in full,
without the written approval of the testing laboratory*

*All tests performed in this report are within the parameters defined in our
UKAS Schedule of Accreditation 0042 (latest issue)*

The results contained in this report relate only to the samples submitted



0042

Environmental Test Report Contents

ENV777

Report Requirements	:	Page 1
Summary Of Results	:	Page 2 and 3
Equipment Accuracy	:	Page 4

Report Distribution :

Copy 1	:	Mike Smith Fulleon Ltd
Copy 2	:	Abtest File

Test Authority

~~~~~

Abtest Limited

Test Required By :

Fulleon Ltd  
Llantarnam Park  
Cwmbran  
Gwent  
NP44 3AW

Customer's Order No :

MPO 0001116

Description Of Components :

Rolp & Solex

Date Test Received :

11 January 2007

Quantity To Test :

1 of each type

Sample Numbers :

Not Applicable

Date Test Commenced :

11 January 2007

Date Test Completed :

16 January 2007

Test Result :

Pass

This is to certify that all tests have been carried out in accordance with the quoted order/specification, test programme and the results have been accurately recorded in Test Report No : ENV777

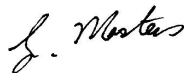
Given under my authority under Approval Number : UKAS 0042

Test Performed By :



.....  
A Davies (Test Technician)

Report Approved By :



.....  
G L Masters (Technical Manager)

**Customer :** Fulleon Ltd**Component :** Rolp & Solex**Test Report No :** ENV777

One of each type Rolp and Solex were submitted to the Test House for testing as per customers instructions

**Sample Identification****Part Number** : Not Applicable**Quantity** : 1 of each type**Sample Numbers** : Not Applicable**Test Applied****Test** : ***Water Ingress Test*****Test Specification** : EN 60529 IPX5**Test Conditions** : A water jet and nozzle with a 6.3mm diameter hole, with a water flow rate of 12.5 litres per minute  $\pm$  5% at a distance of 2.5 to 3m was applied.**Test Duration** : 1 min/m2 for at least 3 minutes.**Test Comments**

Customer on site for water test.

**Test Result**

No ingress of water was found inside of samples.  
Pass.

Customer : Fulleon Ltd

Component : Rolp &amp; Solex

Test Report No : ENV777

**Test Applied****Test** : *Dust Ingress Test***Test Specification** : EN 60529 IP6**Test Conditions** : Both samples were conditioned in a dust chamber at +35°C in a suspension of 2kg of talcum powder, whilst samples had under pressure applied at a maximum depression of 20 mbar.**Test Duration** : 8 hours**Test Comments**

The vacuum flow was 35cc/min therefore test ran for 8 hours.

**Test Result**

No apparent signs of dust in either of the samples .  
Pass.



Customer : Fulleon Ltd

Component : Rolp &amp; Solex

Test Report No : ENV777

**TEST EQUIPMENT & MEASURING ACCURACY**

| <u>Equipment Description</u> | <u>Manufacturer</u> | <u>Calibration Number</u> | <u>Next Calibration Date</u> |
|------------------------------|---------------------|---------------------------|------------------------------|
| Nozzle                       | Abtest              | 0/634                     | Oct 07                       |
| Dust Chamber                 | ACE                 | 0/452                     | Mar 07                       |
| Vacuum Test Rig              | Abtest              | 0/524                     | Not Applicable               |
| Manometer LE02               | Keller              | 0/637                     | Mar 07                       |

**CERTIFICATE OF CONFORMITY**

Talc : Batch No 4474

Water : Mains