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COMMERCIAL IN CONFIDENCE

Environmental Test Report No : ENV2397

Amendment 1

Date : 18 November 2009

Cooper 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

Cooper Fulleon Ltd

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Report Distribution :

<i>Copy 1</i>	:	Philip Williams Cooper Fulleon Ltd
<i>Copy 2</i>	:	Abtest File

Test Authority
~~~~~  
Abtest Limited

Test Required By : Cooper Fulleon Ltd  
Llantarnam Park  
Cwmbran  
Gwent  
NP44 3AW

Customer's Order No : 4502067595

Description Of Components :  
1. Symphoni Wall Sounder  
2. Solista Shallow Base  
3. Universal Manual Call Point

Date Test Received : 1 April 2009

Quantity To Test : 3

Sample Numbers : 1, 2 & 3

Date Test Commenced : 23 April 2009

Date Test Completed : 1 May 2009

Test Result : Satisfactory

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 : ENV2397

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 :** Cooper Fulleon Ltd**Component :** Symphoni Wall Sounder : Solista Shallow  
Base : Universal Manual Call Point **Test Report No :** ENV2397

Three different types of samples were submitted to the Test House for testing as per customers instructions.

**Sample Identification****Part Number** : Symphoni Wall Sounder**Quantity** : 1**Sample Numbers** : 1**Test Applied****Test** : **Wire Probe Test (Sample # 1)****Test Specification** : BS EN 60529 & Customers Instructions (IP4D)**Test Conditions** : Sample was probed with a 1mm diameter wire.**Test Duration** : Not Applicable**Test Comments**

The probe did not penetrate the sample.

**Test Result**

Pass

**Test Applied****Test** : **Protection against Vertically Falling Drops (Sample # 1)****Test Specification** : BS EN 60529 & Customers Instructions (IPx2)**Test Conditions** : Drip Box : with enclosure in 4 fixed positions of 15° tilt  
Water flow 3 +0.5 -0 mm/minute. Turntable 1 rev/min  
Duration of 2.5 min for each position of tilt.**Test Duration** : 10 minutes**Test Comments**

Slight ingress of water (see Appendix 'A' for photograph).

**Test Result**

A pass was achieved because the water ingress was very slight and would not have affected the operation of the unit.

Customer : Cooper Fulleon Ltd

Component : Symphoni Wall Sounder : Solista Shallow Test Report No : ENV2397  
Base : Universal Manual Call Point**Sample Identification**

**Part Number** : Solista Shallow Base  
**Quantity** : 1  
**Sample Numbers** : 2

**Test Applied**

**Test** : **Dust Test (Sample # 2)**  
**Test Specification** : BS EN 60529 & Customers Instructions (IP5x)  
**Test Conditions** : In accordance with the above specification the sample was conditioned in 2kg of talcum powder for 8 hours.  
**Test Duration** : Not Applicable

**Test Comments**

Wall mounting backing box was taped up before test.  
No evidence of ingress of dust found.

**Test Result**

Satisfactory

**Test Applied**

**Test** : **Water Ingress Test (Sample # 2)**  
**Test Specification** : BS EN 60529 & Customers Instructions (IPx4)  
**Test Conditions** : Oscillating tube, spray  $\pm 60^\circ$  from vertical, distance max 200mm water flow of 0.07 L/min  $\pm 5\%$  per hole, sample is 5 minutes in one angle then turned  $90^\circ$  for a further 5 minutes.  
**Test Duration** : 10 minutes

**Test Comments**

No ingress of water was found inside enclosure.

**Test Result**

Pass

Customer : Cooper Fulleon Ltd

Component : Symphoni Wall Sounder : Solista Shallow      Test Report No : ENV2397  
 Base : Universal Manual Call Point

**Sample Identification**

**Part Number** : Universal Manual Call Point  
**Quantity** : 1  
**Sample Numbers** : 3

**Test Applied**

**Test** : ***Degrees of Protection from Hazardous Parts (Sample # 3)***  
**Test Specification** : BS EN 60529 & Customers Instructions (IP2D)  
**Test Conditions** : In accordance with the above specification the sample was probed with a 1mm wire and a 12.5mm diameter finger.  
**Test Duration** : Not Applicable

**Test Comments**

No evidence of access to hazardous parts was found.

**Test Result**

Pass

**Test Applied**

**Test** : ***Degrees of Protection Ingress of Splashing Water (IPx4)***  
**(Sample # 3)**  
**Test Specification** : BS EN 60529 & Customers Instructions  
**Test Conditions** : Oscillating tube, spray  $\pm 60^\circ$  from vertical, distance max 200mm water flow of 0.07 L/min  $\pm 5\%$  per hole, sample is 5 minutes in one angle then turned  $90^\circ$  for a further 5 minutes.  
**Test Duration** : 10 minutes

**Test Comments**

Although some water was found inside enclosure, with the sample mounted in its correct situation the water would run away.

**Test Result**

Pass

**Customer : Cooper Fulleon Ltd****Component : Symphoni Wall Sounder : Solista Shallow  
Base : Universal Manual Call Point****Test Report No : ENV2397**

| <u>Equipment Description</u> | <u>Manufacturer</u> | <u>Calibration Number</u> | <u>Next Calibration Date</u> |
|------------------------------|---------------------|---------------------------|------------------------------|
| Oscillating Tube             | Abtest              | 0/447                     | Cal when used                |
| Count Down Tmer              | RS                  | 0/575                     | April 2009                   |
| Dust Chamber                 | A.C.E               | 0/452                     | Cal when used                |
| Thermocouple                 | RS                  | 0/663                     | Nov 2009                     |
| Thermometer                  | Portec              | 0/051                     | Feb 2010                     |
| Turntable                    | Abtest              | n/a                       | Cal when used                |

**CERTIFICATE OF CONFORMITY**

Dust : Talcum Powder Batch # 4770  
Water : Mains

**Customer :** Cooper Fulleon Ltd**Component :** Symphoni Wall Sounder : Solista Shallow      **Test Report No :** ENV2397  
Base : Universal Manual Call Point

**ADDITIONAL INFORMATION / AMENDMENT SHEET**

Refer to e-mail from Phillip Williams dated 17/11/09

**SUBJECT :**

Description of component was incorrect.  
Description on report read Universal Indoor Manual Call Point, there were 2 other components to be added - Symphoni Wall Sounder and Solista Shallow Base.  
The format of the results needs to be re-arranged.  
The photographs need to be labelled with the component description.

**ACTIONS :**

Report to be up-issued to Amendment 1.  
Component description amended on all pages.  
Format of the results were re-arranged in order of sample numbers.  
Photographs were arranged into order by sample number and product description was included on the photographs.  
Additional information sheet included in the report.



**Customer :** Cooper Fulleon Ltd

**Component :** Symphoni Wall Sounder : Solista Shallow      **Test Report No :** ENV2397  
**Base :** Universal Manual Call Point

# Appendix 'A'

Photographs



Sample 1 - Symphoni Wall Sounder



Sample 2 - Solista Shallow Base



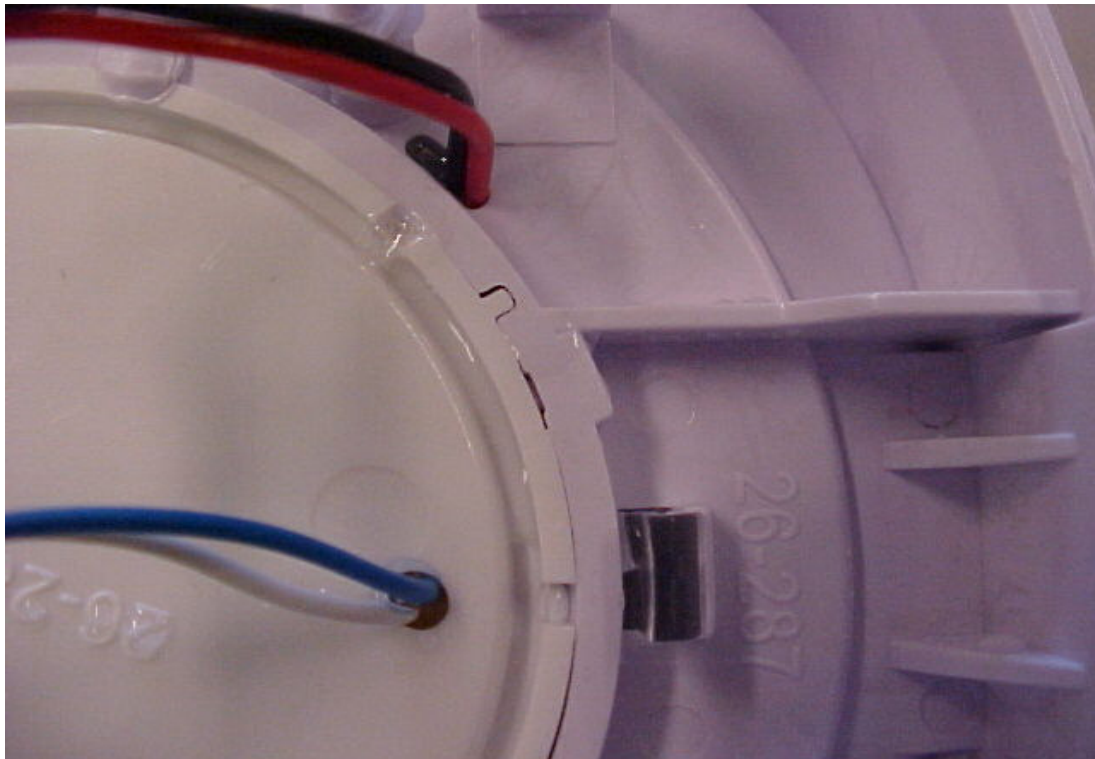
Sample 3 - Universal Manual Call Point



Test Set-up.



Top Ingress 1.



Top Ingress 2.

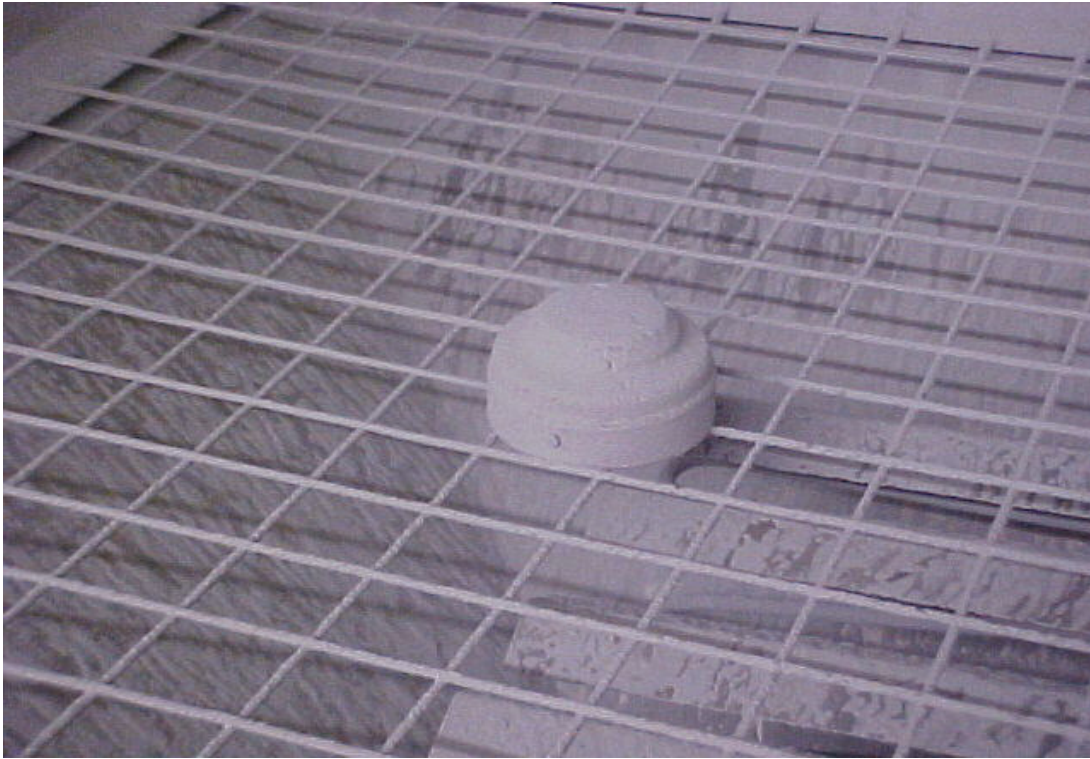
Dust Test



Sample 2 in dust chamber.



Sample 2 after the Dust Test.



Sample 2 after the Dust Test.



No dust found inside Sample 2.



No ingress of dust found inside Sample 2.

**Sample 2 - Water Test**

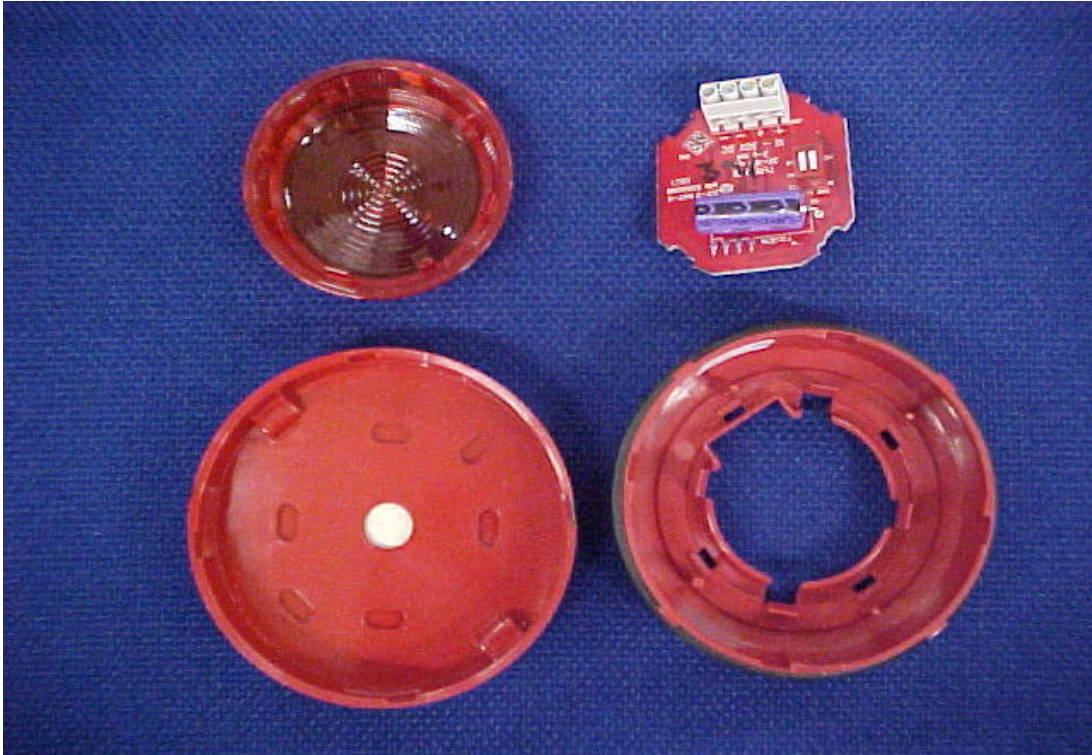


Test Set-up.



Sample turned 90°.

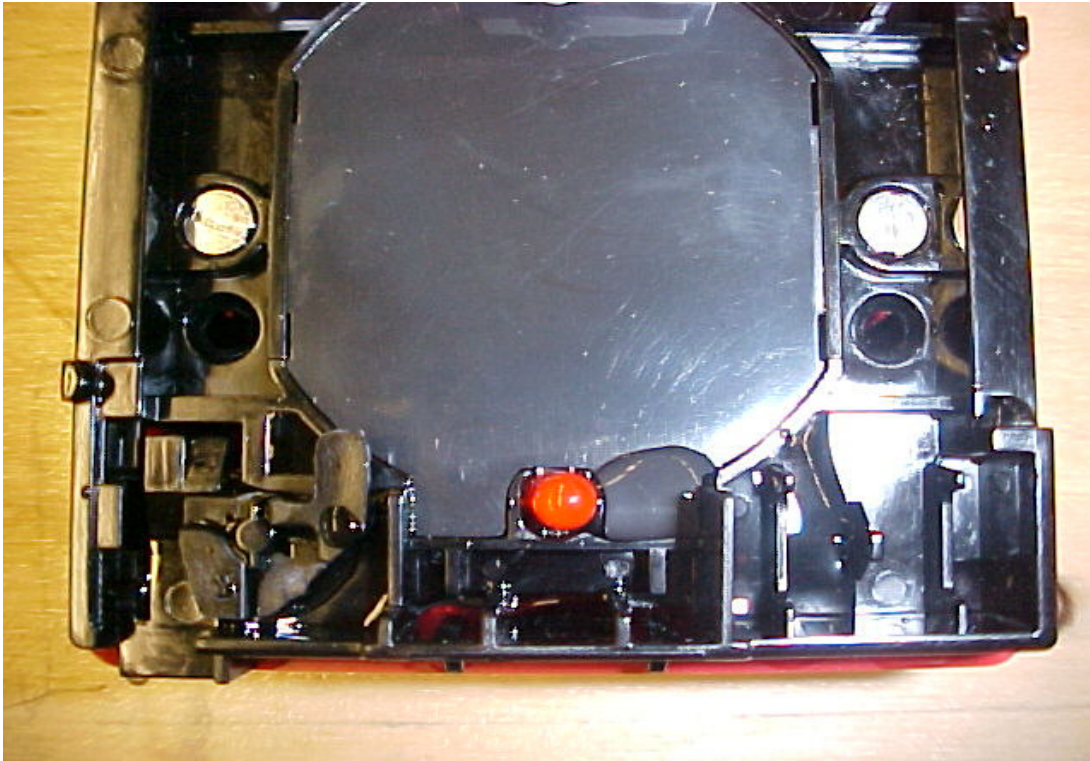




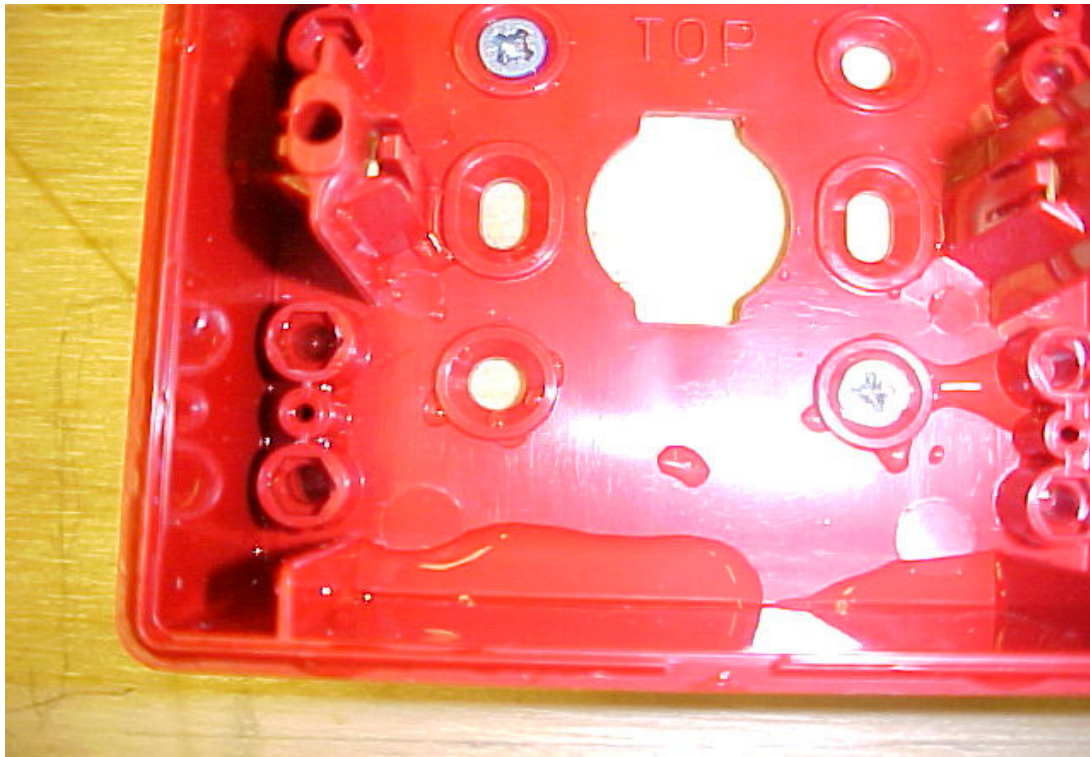
No water ingress found inside Sample 2.

Sample 3 - Water Test





Small amount of water found in the centre part of the enclosure.



Some water found in the base of Sample 3.