

LIGHTNING PROTECTION TEST AND INSPECTION REPORT

Site Address	
HOLLYMOUNT PRIMARY SCHOOL, 20 CAMBRIDGE ROAD, LONDON, SW20 0SQ	
Client	
HOLLYMOUNT PRIMARY SCHOOL, 20 CAMBRIDGE ROAD, WIMBLEDON, LONDON, SW20 0SQ	
Property No.	9713
Test completion date	09/07/2024

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QUALITY MANAGEMENT

ISSUE HISTORY

Issue history		
ISSUE	DESCRIPTION	DATE
1	2024 Report	09/07/2024
	Previous test	N/A


CALIBRATION

Instrument	Instrument Number	Last Calibration
Robin	560402156	04/03/2024

PERSONNEL INVOLVED

Title	Qualification	CSCS Number
Engineer - H. Stevens	NVQ3 Test and Inspection Engineer	13223286

VALIDATION

Approved by:	Date:	
Billy Limby	17-Jul-24	

TEST REPORT

TEST REPORT

This is to report that the Lightning Protection System was inspected and tested and failed. Details of the remedial works required are given on the following page.

The system comprises of the following:

Air Termination System	
Air termination	Aluminium & copper
Air termination colour	Grey, brown Ali
Air termination details	Aluminium & copper
Roof type	Flat pitched

Down Conductor System	
Down conductor	External
Down conductor colour	Brown
Down conductor details	PVC sheathed
Down conductor material	Aluminium 25x3
Down conductor spacing	20M

Earth Termination System	
Earth termination	External
Joined to earth bar	No
Earth bar note	Not Installed
Surge protection	No
Surge protection notes	Unable to locate

The following resistances to earth were recorded:

Test No	Resistance	Ground Type	Tested From	Test Type	Inspection Pit	Remarks
1	5.2Ω	Tarmac	Wall Clamp	Dead Earth	Yes	
2	3.4Ω	Concrete	Wall Clamp	Dead Earth	Yes	
3	4.3Ω	Tarmac	Wall Clamp	Dead Earth	No	
4	9.2Ω	Art grass	Pit	Dead Earth	Yes	
5	Unable to Test	Art grass	Pit	Dead Earth	No	
6	179Ω	Art grass	Wall Clamp	Dead Earth	No	
7	11.2Ω	Concrete	Wall Clamp	Dead Earth	Yes	
8	152Ω	Grass / soft	Wall Clamp	Dead Earth	No	
9	174.1Ω	Paving slabs	Wall Clamp	Dead Earth	No	
10	7.0Ω	Grass / soft	Wall Clamp	Dead Earth	Yes	
11	10.8Ω	Grass / soft	Wall Clamp	Dead Earth	Yes	
12	7.17Ω	Grass / soft	Wall Clamp	Dead Earth	Yes	
13	5.86Ω	Paving slabs	Wall Clamp	Dead Earth	Yes	

The overall resistance of the above is 0.68 Ohms in accordance with current British Standards.

The earth resistance test method used in all cases unless stated otherwise was:

Dead Earth

The installation is consistent with one installed to:

BS6651

This is not compliant with the current British Standard (BS EN 62305:2011).

The system requires remedial works to meet with its original design intent and is a

FAIL

TEST REPORT – Remedial works required:

During our test and inspection of the Lightning Protection system it was found that the following work is required in order to bring the system up to a condition where we can issue a PASS certificate.

(Non BS EN 62305)

Please note that if the Lightning Protection System was designed and installed to an earlier Standard than BS EN 62305:2011, these remedial works will return the installation to its designed state but not necessarily compliant with current Standards. For information on a possible upgrade to BSEN62305 please contact us for advice

Works found to be required:

Remedial Works			
3 no	EARTHS	Improve Existing Earth	Positions 6, 7 and 9

REPAIR QUOTATION NUMBER: **803391**

Re: HOLLYMOUNT PRIMARY SCHOOL, 20 CAMBRIDGE ROAD, LONDON, SW20 0SQ

Further to our recent visit to the above to inspect and test the Lightning Conductor System in accordance with your instruction, we enclose herewith our test report.

Please note that essential remedial works are required to be carried out to the system before we can issue a certificate, and our lump sum to carry these out is **£775.00 nett, not including VAT.**

This quotation is based on you, the client, providing Cuttings with services layout plans/drawings for all buried services with particular regard to the incoming mains gas and electrical supplies. We will accept no responsibility for damage to any services that cannot be detected by CAT scan.

Our price includes for a 2.4m electrode (at each position) to carry out this item, but should it be necessary to drive this/these deeper to obtain the required resistance, this will be done at the cost of £30.00 for each additional 1.2m electrode used.

On receipt of your instruction to proceed, the works will be programmed and when completed our formal Test Certificate and Invoice will be forwarded.

SITE PHOTOS

Roof



Main Earth Terminal



Surge Protection



ADDITIONAL RECOMMENDATIONS

MAIN EARTH TERMINAL BOND

Lightning protection systems require an equipotential bond between the lightning protection system and the main earth terminal. Cuttings have not been able to substantiate if this has been installed, we require access to the electrical schematics to confirm, if these cannot be provided before our next inspection the system will be marked as “non-compliant” with a quote issued to install this connection.

SURGE PROTECTION

BS EN 62305-3:2011 requires surge protection to be installed for all services coming into the building, we believe the system installed was installed to an earlier standard and therefore wasn't a requirement at the time of the installation, however, we would recommend the installation of a type 1 device to the main incoming supply as an additional protection measure.

CALIBRATION CERTIFICATE

128 **ROBIN AMPROBE**

**Robin-Amprobe
Instrument Test Certificate and
Statement of Calibration Practice**

Your product was calibrated in accordance with applicable Robin-Amprobe procedures during the manufacturing process. These procedures are ISO 9001 certified and are designed to ensure that the instrument will meet its published specifications.

Robin-Amprobe guarantees that at the time of test your instrument met its published specifications. Detailed specifications are available in the User Manual and Specification Appendix.

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For Customer use only:
Because we are difficult delivery of products, you may have received an instrument with a test certificate that is several months old. Our experience indicates the calibration of our product is not affected by storage time in the field except by the customer. Therefore, the recalibration of this unit should be based on when the product was first used, plus the recommended calibration interval.

The recommended calibration interval for this instrument is 12 months and begins on the date it is received by the customer. For calibration, please use the calibration service. Contact details are listed at www.robin-amprobe.co.uk.

Please fill in appropriate information and date as indicated:


Instrument Model: Robin AMPROBE
Instrument Serial No.: 560400156
Date Instrument Received: 04/03/2009
Date Calibration Due: 04/03/2010

No. 100-110011

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	Email info@robin-amprobe.co.uk	

QUALIFICATION CERTIFICATES

Engineer - H. Stevens





This is to certify that

Harry Stevens

has achieved the following Qualification

**NOCN_Cskills Awards Level 3 NVQ Diploma
In Accessing Operations and Rigging
(Construction) - Lightning Protective Systems
Inspecting and Testing**



Qualification Approval No: **89058449**
ULN: **4872227291**
Award Date: **09/01/2011**
Certificate No: **47421425**



