

St Guthlacs Church DCC
C/O Mr D J Hunt
11 Swale Close
Oadby
Leicester
LE2 4GF
Our Ref: L-0094-MH

Date: 13th February 2025

For the Attention of Mr D J Hunt

Dear Sir

**RE: St Guthlacs Church
Lightning Protection Test & Inspection**

We have pleasure in confirming completion of the Lightning Protection Installation Test & Inspection, all in accordance with our quotations and BS6651:1999.

We trust that the work has been carried out to your total satisfaction and have pleasure in enclosing our manual & test certificates, together with our invoice for the above works.

However, we ask you to take note of British standard clauses, 31,32,33,34, which states that lightning/ Earthing Protection System is "Tested at Fixed intervals not exceeding 12 months".

The system will therefore, require testing during December 2025 and trust the above and enclosures meet with your approval, but should there be any matters you may wish to discuss further, please do not hesitate to contact us.

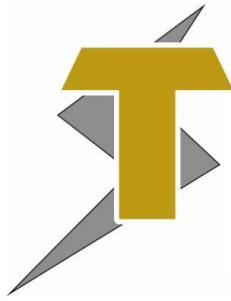
Assuring you our best attention at all times, we remain

Yours faithfully

For and on behalf of Thunderbolt Test and Maintenance Ltd

Mick Heffernan
Contracts Manager





thunderbolt Test & Maintenance Ltd

Lightning Protection & Earthing Specialists

Unit 2, Glade Business Centre, Forum Road, Nottingham, NG5 9RW

Telephone 0115 975 4808 Email: info@thunderbolttm.com

**TEST & INSPECTION CERTIFICATE
&
MANUAL
For
LIGHTNING PROTECTION INSTALLATION

IN ACCORDANCE WITH BS6651:1999

AT

ST GUTHLACS CHURCH

HOLBROOK ROAD

LEICESTER

LE2 3LF**

On

29th January 2025

***PLEASE NOTE:**

IT IS RECOMMENDED THAT UNDER THE AFOREMENTIONED BS 6651:1999/BS62305, THAT TESTS SHOULD BE REPEATED AT FIXED INTERVALS, PREFERABLY NOT EXCEEDING 12 MONTHS – IT MAY BE ADVANTAGEOUS TO CHOOSE A PERIOD SLIGHTLY SHORTER IN ORDER TO VARY THE SEASON IN WHICH TESTS ARE MADE. Next Test Due: December 2025.

Key Schedule

Section One

System Description

Section Two

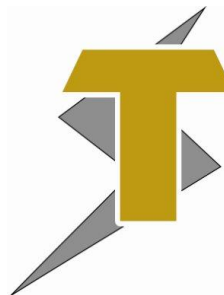
Maintenance

Section Three

Certification & Test Record

Section Four

Test Procedures



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Section One System Description

Air Termination

The system comprises of a copper multi point air terminal.

Down Conductors

1no 25x3mm bare copper tape terminating in a gun metal oblong test clamp.

Bonds

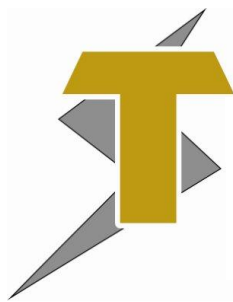
To the copper air terminal.

Earthing

Existing copper bond electrodes surmounted by concrete housing units.

The system installed is in a satisfactory condition and good working order.

Electrical bond not visible



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SECTION TWO

Maintenance

The installed system does comply with BS6651:1999/BS62305 “The Protection of Structures against Lightning”. However, we would ask you take note of the following clauses: -

31 – INSPECTION – States “All lightning protection systems should be visually inspected by a competent person after alteration or extensions, in order to verify that they conform to the recommendations in this code. Visual inspection should be repeated at fixed intervals, preferably not exceeding 12 months.

32 – TESTING – States “Tests should be repeated at fixed intervals, preferably not exceeding 12 months”, it may be advantageous to choose a period slightly shorter than 12 months in order to vary the season in which tests are made” (we recommend every 11th month).

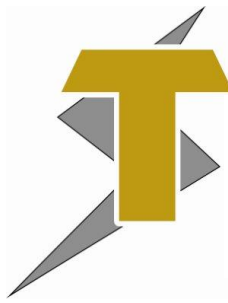
33 – RECORDS – States “The following records should be kept on site or by the person responsible for the upkeep of the installation.

- a) scale drawings showing the nature, dimensions, materials and position of all component parts of the lightning protection system,
- b) the nature of the soil and any special earthing arrangements,
- c) the type and position of the earth electrodes, including reference electrodes,
- d) the test and conditions and results obtained (see clause 32),
- e) any alterations, additions or repairs to the system,
- f) the name of the person responsible for the installation or its upkeep

34 – MAINTENANCE AND UPKEEP – States” The periodic inspections and tests recommend in clauses 31 and 32 will show what maintenance, if any, is needed. Particular attention should be given to the following,

- a) earthing,
- b) evidence of corrosion or conditions likely to lead to corrosion,
- c) alterations and additions to the structure which may affect the lightning protection system (e.g. changes in the use of a building, the installation of crane tracks or erection of radio and television aerials and CCTV).

Tests should be carried out not exceeding 12 months for Insurance Purposes and prevention of a Lightning Strike (we would therefore recommend that test and inspection are carried out at intervals not exceeding 11 months). next test due December 2025.



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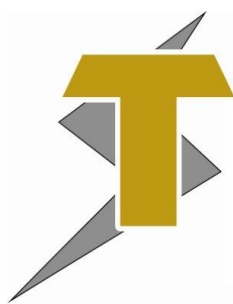
SECTION THREE

Test

Certification

&

Test Record



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TEST AND INSPECTION CERTIFICATE			
ST GUTHLACS CHURCH			
File Reference No: L-0094-MH		Date of Test: 29 th January 2025	
Site Address: St Guthlacs Church – Holbrook Road – Leicester – LE2 3LF			
Type of Installation: BS6651		Ground Conditions:	
		Dry	Wet
			Hard
Details of Building: Worship		Description of Site:	
		Dom	Com
			Other
Details of Roof: Slates		Details of Structure: Brick/Stone	
Details of Conductors:			
Conductors	Roof	Down Tapes	Earth Tapes
Size:	Multi point	25x3mm	25x3mm
Type:	Copper	Copper	Copper
PVC Colour:	Bare	Bare	Bare
Joints:	Clamped	Clamped	Clamped
Earth Housing Units:	Concrete	Plastic	None
Down Conductors: Satisfactory			
Condition of Earth: Satisfactory			
Condition of Roof System: Satisfactory			
Remarks: System is in a satisfactory Condition and in good working order. Surge protection not checked.			
Additional System on Site: No		Access: N/A	
Engineers: Jamie Heffernan		Signature: Mick Heffernan	

SYSTEM TEST INSPECTION RECORD

SITE: St Guthlacs Church – Holbrook Road - Leicester

OUR REF: L-0094-MH

SYSTEM TYPE: BS 6651

Inspection Due	Inspection Date	Inspection Company	Comments/Observations
Mar-09	Mar-09	Thunderbolt	System is in a satisfactory condition.
Feb-10	Jul-10	Thunderbolt	System is in a satisfactory condition.
Jun-11	Jun-11	Thunderbolt	System is in a satisfactory condition.
May-12	Aug-12	Thunderbolt	System is in a satisfactory condition.
Jul-13	Aug-13	Thunderbolt	System is in a satisfactory condition.
Jul-14	Oct-14	Thunderbolt	System is in a satisfactory condition.
Sept-15	Nov-15	Thunderbolt	System is in a satisfactory condition.
Oct-16	Jan-17	Thunderbolt	System is in a satisfactory condition.
Dec-17	Jan-18	Thunderbolt	System is in a satisfactory condition.
Dec-18	Jan-19	Thunderbolt	System is in a satisfactory condition.
Dec-19	Jan-20	Thunderbolt	System is in a satisfactory condition.
Dec-20	Mar-21	Thunderbolt	System is in a satisfactory condition
Feb-22	Feb-22	Thunderbolt	System is in a satisfactory condition
Jan-23	Feb-23	Thunderbolt	System is in a satisfactory condition
Jan-24	Jan-24	Thunderbolt	System is in a satisfactory condition
Dec-24	Jan-25	Thunderbolt	System is in a satisfactory condition
Dec-25			

**BS EN 62305 require Test & Inspections on a yearly basis or shorter to cover all seasons.
 Short or long maintenance contracts undertaken upon request. Please contact Mick Heffernan**

SECTION FOUR

MEASURING TECHNIQUES

Fall of Potential

1. From approximately 30 metres away from the earth that is to be tested, drive a spike into the ground. This is then to be Current or C2 as on the test set.
2. Mid-Way between the Current Spike and the earth to be tested, drive another spike into the ground.
This is then to be Potential or P2 on the test set.
3. **All Three (3) to be in a direct line.**
4. Connect the spike that is 30 metres away from earth under test, with lead to C2 terminal on the test set.
5. Connect the spike that is mid-way between the earth under test and the one at the 30-metre mark, (this should be 15 metres approximately) with a lead to the P2 terminal on the test set.
6. With short test lead (1 metre approximately) connect to C1 and C2 on the test set and to the earth under test.
7. Take a reading, this reading is to be recorded and have the prefix R1.
8. Remove spike P2 from the ground and re-position 3 metres nearer the earth under test.
9. Reconnect the lead.
10. Take a reading and record this reading to have a prefix R2.
11. Remove spike P2 from the ground and reposition 6 metres away from the earth point under test (i.e. near C2).
12. Take reading, record, this reading is to have a prefix of R3.

Urban Area Test/Dead Earth method

1. Connect one of the twin cables to terminals C1&P1 on test set.
2. Connect the other twin cable to terminals C2 & P2 on the test set.
3. Disconnect the down conductor from the earth electrode to be tested.
4. Connect the twin cable from terminals C1 & P1 to the earth under test.
5. Connect the other twin cable from terminals C2 & P2 to the down conductor.
6. The earth test set is then operated and the resistance reading recorded.
7. Reconnect the down conductor to the tested electrode.