

METHOD STATEMENT
BY

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FOR

INSTALLATION OF LIGHTNING
CONDUCTOR SYSTEMS

INTRODUCTION

To install a lightning conductor system consisting of one or more of the following,

1. An Air Termination Network

This may consist of either copper or aluminium conductors or the utilization of any metallic roof work as the specification dictates. It may also consist of a number of air termination finials, if a) they are deemed necessary to cover chimneys or b) the conductors are run beneath the roof tiles.

2. Down Conductors

The possible utilization of the buildings features i.e. metal cladding, structural steels or reinforcing bars in concrete. If this is not possible then either aluminium or copper down conductors will be necessary.

3. An Earth Termination Network

This will be one or more of the following

- a) Use of the structures pilings
- b) Copper clad steel cored earth termination electrodes
- c) Copper earth mat or lattice

Options b and c will be connected to the nearest down conductor via a 25 x 3mm copper tape connected to the earth termination via a proprietary clamp or bond.

AIR TERMINATION NETWORK

Access to roofs will be gained by either:-

1. Extension ladder as detailed above
2. Through existing doors or access hatches
3. Off of standing scaffold (provided by others)

Notes for access across roofs:-

1. Roofs ladders hooked over ridges
2. Soft pads to be placed under the ladders to prevent damage to slates or tiles
3. When working on flat roofs operatives are to wear safety harnesses that are tethered back to suitable secure anchorages where the height of the parapet wall is not sufficient to prevent falling.

ACCESS

DOWN CONDUCTORS

All of the down conductors will be secured by one of the following methods of access.

- 1). By extension ladder.

No ladder standing on a base will be used unless:

- a) it is firmly fixed near its upper resting place, or if this is not practicable, where possible it will be secured at its lower end, either by tying it back to the building or by "footing" the bottom rung
 - b) its footing is level and firm; no loose packing will be used.
 - c) it is secured so that it does not sway or sag unduly
 - d) each stile is equally and properly supported.
- 2). By "Bosuns" chair. The method of using a Bosuns chair will be all as detailed in BS2830:1993. Anchorages will be by wire bonds around brick chimneys or any other suitable structure or by cantilever beam and weights all in accordance with the current Health and Safety regulations. All equipment to be inspected by the user before use.
 - 3). By standing scaffold erected by others.

FIXINGS

The Lighting Protection tape could be secured by:-

- 1). Non-metallic Direct Contact clips secured by single stainless steel screws in a plastic raw plug.
- 2). Slate holdfasts secured by alloy tangs slid under slates or tiles.
- 3). Self-adhesive clips. These are special clips that are secured by adhesive pads onto flat clean surfaces and are applied strictly to the specification detailed by the manufacturer.

Our operation details which of the above will be implemented.

EARTHING

At each down tape location either a steel cored copper bond earth electrode or a copper earth mat or lattice will be installed (exactly which of these is clearly detailed in our quotation). It shall be the responsibility of the client to provide drawings detailing the position and depth of all incoming and outgoing services.

TOOLS

All power tools used on site to be 110v or battery powered with current test certificate. All other plant to be visually examined by a competent person prior to use

