

# Lightning Protection System Inspection Certificate

Certificate number: C14154L 1 of 2  
Client: BAM Construction Ltd  
Site: Mill Lane, North Reddish, Stockport  
Site contact: John Gallagher Contact title: Not known  
Building reference: **Vale View Primary School** Occupant: School children and Staff  
Inspection engineer: Andy Monks Date of inspection: Saturday, 01 September 2012 Instrument number: BLPS LC008

Lightning strike counter: None fitted  
Present reading: N/A Previous reading: N/A Strikes since last inspection: N/A

## Structure details:

Roof type: Pitched & metal clad  
Building fabric: Brick  
Approximate height (above ground level): 7 metres  
Equipotential bond fitted? Unidentified

## Air termination network:

Conductor material: Metal clad roof  
Conductor size: N/A  
Coverings: N/A  
Fixing type: N/A  
Bonds & joints: N/A  
Fixing centres: N/A

Report: The air termination network utilises the metal deck roof

## Down conductor network:

Conductor material: Aluminium  
Conductor size: 25 x 3 mm  
Coverings: PVC black  
Fixing type: Non-metallic  
Bonds & joints: Fair condition  
Fixing centres: 1000 mm

Report: The down conductor network comprises 25 x 3mm PVC sheathed aluminium conductor installed within cavities and includes bi-metallic joints.

## Compliance to British Standard:

We hereby certify that, at the time of inspection:  
Following remedial repairs the lightning protection system has been returned to a safe and serviceable condition to comply with BS EN62305:2006 'Protection Against Lightning'

# Passed

The lightning protection system was tested in accordance with the current edition of British Standard 6651 - Protection of structures against lightning

Next inspection due on or before: 1<sup>st</sup> August 2013

BS 6651 1999 (Protection of structures against lightning) section 32 Testing - Tests should be repeated at fixed intervals, preferably not exceeding 12 months.  
NOTE 1 It may be advantageous to choose a period slightly shorter than 12 months in order to vary the season in which tests are made.

**Earth test results and ground conditions:**

Reference number	Resistance (Ohms)	Report	Ground type	Label fitted	Inspection pit type	Electrode type	Electrode size	Test clamp	Tested from	Test method	Ground condition
1	46.4	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Non fitted	A clamp	Dead	Wet
2	39.4	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Non fitted	A clamp	Dead	Wet
3	20.8	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Bi-metallic	A clamp	Dead	Wet
4	30.2	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Non fitted	A clamp	Dead	Wet
5	23.6	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Bi-metallic	A clamp	Dead	Wet
6	37.2	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Bi-metallic	A clamp	Dead	Wet
7	29.2	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Bi-metallic	A clamp	Dead	Wet
8	15.84	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Bi-metallic	A clamp	Dead	Wet
9	37.7	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Bi-metallic	A clamp	Dead	Wet
10	37.1	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Bi-metallic	A clamp	Dead	Wet
11	52.0	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Bi-metallic	A clamp	Dead	Wet
12	24.8	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Bi-metallic	A clamp	Dead	Wet
13	28.8	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Bi-metallic	A clamp	Dead	Wet
14	21.9	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Bi-metallic	A clamp	Dead	Wet
15	30.1	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Bi-metallic	A clamp	Dead	Wet
16	137.2	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Bi-metallic	A clamp	Dead	Wet
17	117.4	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Bi-metallic	A clamp	Dead	Wet

System summary:

Refer to sheet 2

**Passed**

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Bonds & joints: N/A  
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NOTE 1 It may be advantageous to choose a period slightly shorter than 12 months in order to vary the season in which tests are made.

**Earth test results and ground conditions:**

Reference number	Resistance (Ohms)	Report	Ground type	Label fitted	Inspection pit type	Electrode type	Electrode size	Test clamp	Tested from	Test method	Ground condition
18	159.1	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Non fitted	A clamp	Dead	Wet
19	24.9	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Bi-metallic	A clamp	Dead	Wet
20	113.2	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Bi-metallic	A clamp	Dead	Wet
21	119.2	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Bi-metallic	A clamp	Dead	Wet
22	32.9	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Bi-metallic	A clamp	Dead	Wet
23	132.7	Satisfactory reading obtained	Tarmac	Yes	Plastic	Copper bond	16 mm Ø	Bi-metallic	A clamp	Dead	Wet

Overall resistance value: 1.01 Ohms

**System summary:**

The lightning protection system has been returned to a safe and serviceable condition and compliant to the requirements of BS6651:1999.

**Passed**