



Lightning Protection Inspection & Test Certificate

REFERENCE	PH/00078/27535	PASS / FAIL: PASS
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DETAILS OF CLIENT

Name:	Pamela Wilson
Address:	Coast House, Spectrum 4, Spectrum Business Park, Seaham, County Durham, United Kingdom, SR7 7TT

SITE ADDRESS

Name:	Coast House
Address:	Spectrum 4, Spectrum Business Park, Seaham, SR7 7TT
Work Type:	Inspection & Test
Comments:	Annual test and inspection in order to identify the compliance of the lightning protection system in accordance with sections 31 to 34 of BS 6651 and BS EN 62305 Part 3 Annex E.7 including all other relevant standards 'Protection of Structures Against Lightning' comments on its general compliance including any defects are noted below.

AIR TERMINATION NETWORK

ROOF TYPE	
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ROOF COLOUR	
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AIR RODS

500mm	1000mm	2000mm	None
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

MATERIAL

Copper	Aluminium	Steel Frame	Re-Bar	Metallic
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CONDUCTOR SIZE

20 x 3mm	25 x 3mm	8mm	50 x 6mm	50mm CSA
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
70mm CSA	95mm CSA	120mm CSA		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

PVC COLOUR

Brown	Black	Grey	White	Stone
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bare	Green/Yellow			
<input type="checkbox"/>	<input type="checkbox"/>			

FIXING

Non-Metallic	Slate Holdfasts	Felt Cleats	Self Adhesive	Metallic
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In Cavity

☐

MESH GRID SIZES

20m x 20m

☐

15m x 15m

☐

10m x 10m

☐

5m x 5m

☐

Notes:

Building structure

ROOF STYLES

Flat

☐

Pitched & Hipped

☐

Pitched & Gabled

☐

BONDING

MATERIAL

Copper

☐

Aluminium

☐

Steel Frame

☐

Re-Bar

☐

Metallic

☐

CONDUCTOR SIZE

20 x 3mm

☐

25 x 3mm

☐

8mm

☐

50 x 6mm

☐

50mm CSA

☐

70mm CSA

☐

95mm CSA

☐

120mm CSA

☐

FIXING

Non-Metallic

☐

Slate Holdfasts

☐

Felt Cleats

☐

Self Adhesive

☐

Metallic

☐

In Cavity

☐

BONDS

AC Unit

☐

TV Aerial

☐

Balcony

☐

CCTV

☐

TYPE OF BONDS

B Bond

☐

Rivet

☐

Tower Clamp

☐

Nut & Bolt

☐

DOWN CONDUCTOR NETWORK

INTERNAL DOWN CONDUCTORS

0

MATERIAL

Copper☒

Aluminium

☐**Steel Frame**☒

Re-Bar

☐

Metallic

☐

CONDUCTOR SIZE

20 x 3mm

☐**25 x 3mm**☒

8mm

☐

50 x 6mm

☐

50mm CSA

☐

70mm CSA

☐

95mm CSA

☐

120mm CSA

☐

PVC COLOUR

Brown

☐

Black

☐**Grey**☒

White

☐**Stone**☒

Bare

☐

Green/Yellow

☐

FIXING

Non-Metallic

☐

Slate Holdfasts

☐

Felt Cleats

☐

Self Adhesive

☐

Metallic

☐

In Cavity

☐

TEST CLAMPS

Oblong

☐

Bi-Metal

☐

Square

☐

Plate Type

☐

Stainless Steel

☐**A Clamp**☒

Screw Down

☐**GROUND CONDITIONS**

Wet

☐**Dry**☒

Damp

☐**CONDUCTOR TYPES**

High Level Bond

☐**Low Level Bond**☒

Notes:

A visual inspection has been carried out at ground level of all accessible components, please see attached additional comments of our findings.

EARTH TEST RESULTS

REF	RESISTANCE	GROUND TYPE	HOUSING TYPE	EARTHING TYPE	EARTH SIZE	EARTH LENGTH	TEST FACILITY	TEST POSITION	TEST METHOD	PASS OR FAIL?
E1	48.9 ohms	Flags	Plastic Furse	Electrode Copperbond	16 Dia	N/A	A-Clamp	Housing	Dead	PASS
E2	60.3 ohms	Flags	Plastic Furse	Electrode Copperbond	16 Dia	N/A	A-Clamp	Housing	Dead	PASS
E3	76.7 ohms	Flags	Plastic Furse	Electrode Copperbond	16 Dia	N/A	A-Clamp	Housing	Dead	PASS
E4	57.9 ohms	Soil	Plastic Furse	Electrode Copperbond	16 Dia	N/A	A-Clamp	Housing	Dead	PASS
E5	76.6 ohms	Soil	Plastic Furse	Electrode Copperbond	16 Dia	N/A	A-Clamp	Housing	Dead	PASS
E6	79.5 ohms	Soil	Plastic Furse	Electrode Copperbond	16 Dia	N/A	A-Clamp	Housing	Dead	PASS
E7	92.1 ohms	Soil	Plastic Furse	Electrode Copperbond	16 Dia	N/A	A-Clamp	Housing	Dead	PASS
E8	108.8 ohms	Soil	Plastic Furse	Electrode Copperbond	16 Dia	N/A	A-Clamp	Housing	Dead	PASS
E9	129.8 ohms	Flags	Plastic Furse	Electrode Copperbond	16 Dia	N/A	A-Clamp	Housing	Dead	PASS
E10	142.7 ohms	Flags	Plastic Furse	Electrode Copperbond	16 Dia	N/A	A-Clamp	Housing	Dead	PASS
E11	139.4 ohms	Slab	Plastic Furse	Electrode Copperbond	16 Dia	N/A	A-Clamp	Housing	Dead	PASS
E12	36.7 ohms	Flags	Plastic Furse	Electrode Copperbond	16 Dia	N/A	A-Clamp	Housing	Dead	PASS

Through System Test:

6.22

Mean Resistance:

6.167

EQUIPOTENTIAL CONDUCTOR**INSTALLED**

Yes

☐**No**☒**MATERIAL**

Copper

☐

Aluminium

☐

Steel Frame

☐

Re-Bar

☐

Metallic

☐**CONDUCTOR SIZE**

20 x 3mm

☐

25 x 3mm

☐

8mm

☐

50 x 6mm

☐

50mm CSA

☐

70mm CSA

☐

95mm CSA

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☐**PVC COLOUR**

Brown

☐

Black

☐

Grey

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White

☐

Stone

☐

Bare

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Green/Yellow

☐**FIXING**

Non-Metallic

☐

Slate Holdfasts

☐

Felt Cleats

☐

Self Adhesive

☐

Metallic

☐

In Cavity
☐

SURGE PROTECTION

MAIN INCOMER

Quantity:	
Type:	ESP 415/I/TNS
Installation By:	Not Specified

SUB DISTRIBUTION

Quantity:	
Type:	ESP 415/I/TNS
Installation By:	Not Specified

DATA INSTALLATION

Quantity:	
Type:	ESP 415/I/TNS
Installation By:	Not Specified

TELECOMS INSTALLATION


Quantity:	
Type:	ESP 415/I/TNS
Installation By:	Not Specified

INSPECTION & TESTING


Date of Inspection:	17 September 2024
Next Inspection Due:	September 2025
Test Engineer:	Paul Haywood
Instrument Ref:	N/A

DECLARATION OF CONFORMITY

Engineer:

Signature		Date:	17 September 2024	Name:	Paul Haywood
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Reviewed By:

Signature		Date:	18 September 2024	Name:	Garry Donald
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