

# Solar Technical Survey

Ingleby / 1 Aug 2023

**Complete**

**Conducted on**

01.08.2023 13:59 BST

**Surveyor**

Simon Elliott

**Customer Surname**

Ingleby

**Property Address**

1 Kitty Fold, LS29 0NB

**Property Type**

Semi-detached

The maps screenshot needs to accurately show the location of the property. If the pin isn't exactly on top of the property you are surveying you need to draw on the image to show which property it is

**2 screenshots of maps at location (one showing close up location and one showing zoomed out location - upload these to survey folder)**

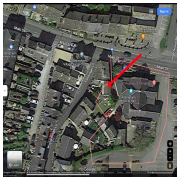


Photo 1



Photo 2

**External floor plans**



Photo 3

**When is the property occupied during the day?**

People home for half the day

**Does the customer have their electricity bills?**

Yes

**Electric Bill Photographs - (Include photographs in Survey folder)**

Full bill in folder

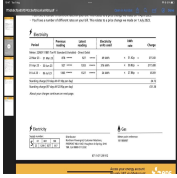


Photo 4

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**If you aren't able to get a photos - manually enter the rates here**

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### MPAN Number Photographs

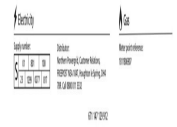


Photo 5

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**If you aren't able to get the MPAN photo - manually enter it here**

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### Notes

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## **Disclaimer**

This document is not a plan of works.

## Outside Check

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### Street View Photograph



Photo 6



Photo 7



Photo 8

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### Front Door and Compass Photograph



Photo 9



Photo 10

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### Unloading Area Photograph

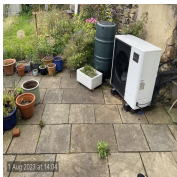


Photo 11

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### Front Access Photograph



Photo 12

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### Rear Access Photograph



Photo 13

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### Front Elevation Roof Photograph



Photo 14



Photo 15



Photo 16



Photo 17



Photo 18



Photo 19



Photo 20



Photo 21



Photo 22



Photo 23



Photo 24



Photo 25



Photo 26

### Photograph of the ground below the roof (for scaffold)



Photo 27

### Side Elevation Roof Photographs



Photo 28



Photo 29



Photo 30



Photo 31



Photo 32



Photo 33

### Photograph of the ground below the roof(s) (for scaffold)



Photo 34



Photo 35



Photo 36

### Rear Elevation Roof Photograph



Photo 37



Photo 38



Photo 39



Photo 40

**Photograph of the ground below the roof (for scaffold)**



Photo 41

**Are there overhead cables located close to property?**

Yes

**Do the cables connect to the property?**

Yes

**Take photographs of overhead cables where they originate**



Photo 42

**Take photographs of overhead cables where they connect to building**



Photo 43

**Take photographs of cable pole**



Photo 44

**Inspect pole and take photographs of any warning signs**



Photo 45

**Is the roof in a good state of repair?**

Yes

Some moss

<b>What material is the fascia / soffit made from</b>	Wood
<b>Does the roof have any bitumen, paint or covering etc. over the tiles?</b>	No
<b>Does the roof over hang</b>	Yes
<b>Overhang Measurement</b>	50mm
<b>Do the roof measurements include or exclude the overhang?</b>	Includes
<b>What is the main roof tile type? (Ask customer to confirm)</b>	Stone
<b><a href="#">Click here to show tile types (de-select after)</a></b>	

## Shading

Photograph from an upstairs window facing direct south and level with horizon

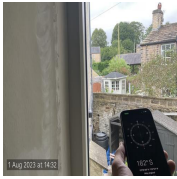


Photo 46

Are there any shading issues for the roofs?

No



Photo 47



Photo 48



## External Roof Areas / Loft Data

Is there a flat roof present?

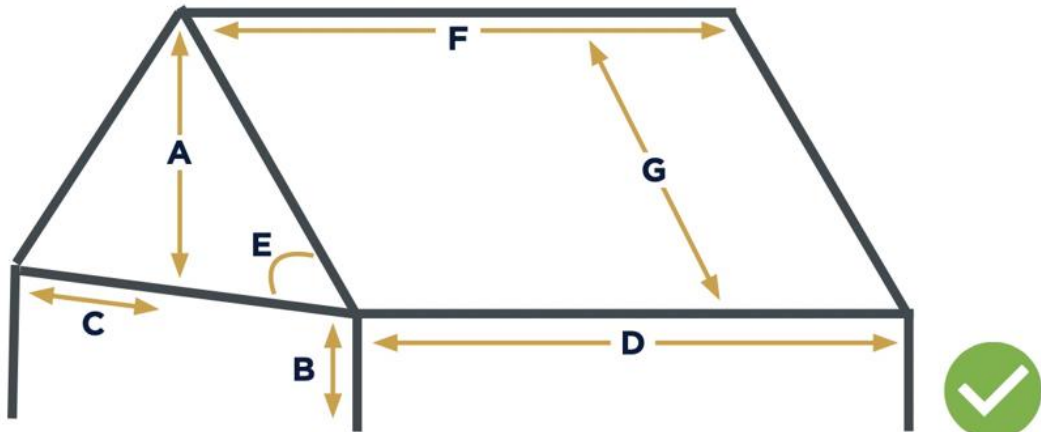
No

Is there a pitched roof that requires measurements?

Yes

### Roof Measurements

This is a drawing you should do whilst on site, so that you get every measurement.



A	Roof height from inside loft	E	Roof angle from inside the loft
B	Building height	F	Width of roof top
C	Half building	G	Roof slope
D	Width of property bottom	AZ	Orientation

Photograph of the roof the measurements are for



Photo 49

**A - Measurement**

1.14m (laser from bottom of joists)

**B - Measurement**

7.5m (Standard)

**C - Measurement**

1.97m (laser)

**D - Measurement**

6.7m (tape)

**E - Measurement**

28° (Standard)

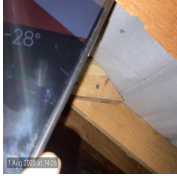


Photo 50

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**F - Measurement**

6.7m (tape) 6.66m gable to gable in loft (laser)

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**G - Measurement**

2.4m laser

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**AZ - Orientation**



Photo 51

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**Is a tile able to be measured?**

No

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**Photograph showing roof pitch**



Photo 52

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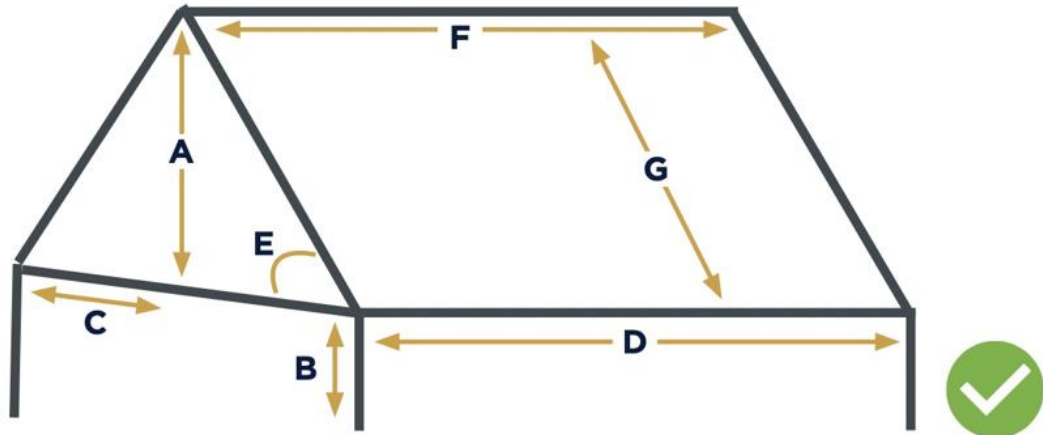
**Is there another main roof section that requires measurements?**

Yes

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## Roof Measurements

This is a drawing you should do whilst on site, so that you get every measurement.



A	Roof height from inside loft	E	Roof angle from inside the loft
B	Building height	F	Width of roof top
C	Half building	G	Roof slope
D	Width of property bottom	AZ	Orientation

### Photograph of the roof the measurements are for



Photo 53

<b>A - Measurement</b>	1.14m (laser from bottom of joists)
<b>B - Measurement</b>	7.5m (Standard)
<b>C - Measurement</b>	1.97m (laser)
<b>D - Measurement</b>	6.7m (tape)
<b>E - Measurement</b>	28° measured on phone
<b>F - Measurement</b>	6.7m tape (6.66m in loft with laser gable to gable)
<b>G - Measurement</b>	2.4m (laser)
<b>AZ - Orientation</b>	



Photo 54

Is a tile able to be measured?

No

Photograph showing roof pitch

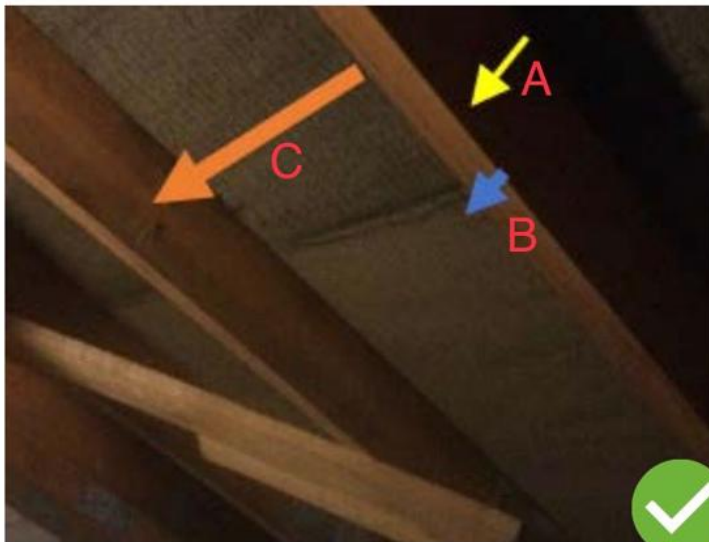


Photo 55

Is there another main roof section that requires measurements?

No

### Rafters Close up



#### Explanation (key)

- Yellow - depth of the rafter **A**
- Blue - width of rafter **B**
- Orange - clear span between each rafter **C**

**A - Measurement**

9.5m tape

**B - Measurement**

5cm tape

**C - Measurement**

33-39cm laser

**Loft hatch measurements**

0.51x0.61m laser

**Loft Hatch Photograph**



Photo 56

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### Loft Photographs - from multiple angles



Photo 57



Photo 58



Photo 59



Photo 60

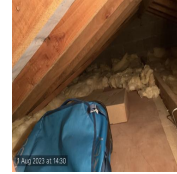


Photo 61



Photo 62



Photo 63

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**Is there spray insulation present anywhere in the loft?**

No

## Roof Obstructions

Are there any Velux windows on any roofs?

No

Are there any dormer window on any roofs?

No

Are there any chimneys on any roofs?

No

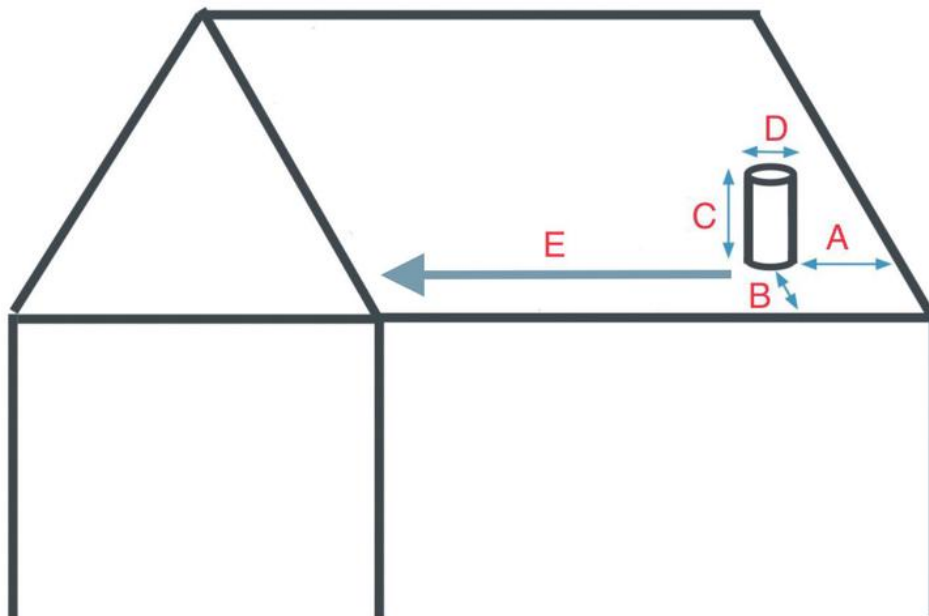
Not that shade where the panels will go



Photo 64

### Flutes, Soil Stack, Vent and other obstructions

Take note of where these items are on the roof and ensure that you measure their height, depth and width.



Are there any other obstructions on any roofs?

No

This isn't on the roof but from this angle it looks like it's very close to the roof

I haven't given measurements for it because it looks like it just needs a slight twist away from the roof



Photo 65



Photo 66



**Electrical Checks / Equipment Placement / Cable Runs**

**Is the proposed panels location away from the main property?**

No

**Has the customer mentioned bird protection?**

No

\*\*\* LMFCS INVERTER AND BATTERY EQUIPMENT CAN ONLY BE PLACED TOGETHER \*\*\*

**Potential Inverter Location Photographs (Multiple)**

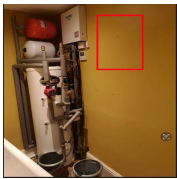


Photo 67

**Detailed Inverter Location Description**

Main house bathroom

**Screen shot of available Wi-Fi networks at battery location**

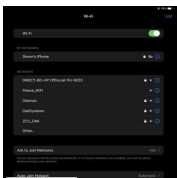


Photo 68

\*\*\* LMFCS INVERTER AND BATTERY EQUIPMENT CAN ONLY BE PLACED TOGETHER \*\*\*

**Potential Battery Location Photographs (Multiple)**

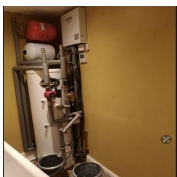


Photo 69

**Battery Location Dimensions (WxDxH) Use / between measurements if multiple**

1x1x1m

**Detailed Battery Location Description**

On floor in main house

bathroom under inverter

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### Outdoor cable route photographs



Photo 70

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### Solar Panel to Main Electric Meter - Cable Route Length

12m

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### Proposed cable route description

Down side of highest roof, along lower roof to above electric meter, then down and into wall

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### Electric Meter Photograph



Photo 71



Photo 72

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### Main Fuse Photograph (Clearly showing AMPs)

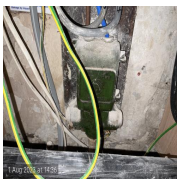


Photo 73



Photo 74

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### Type of Electricity Supply?

Single Phase

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### Consumer Unit (Fuse Board) Photographs



Photo 75



Photo 76



Photo 77

**Details of Consumer Unit (Fuse Board) Location**

In kitchen

**Is there more than one consumer unit? ( Fuse Board)**

No

**EV Charger**

**Is the customer interested in an EV charger?**

No

# Media summary

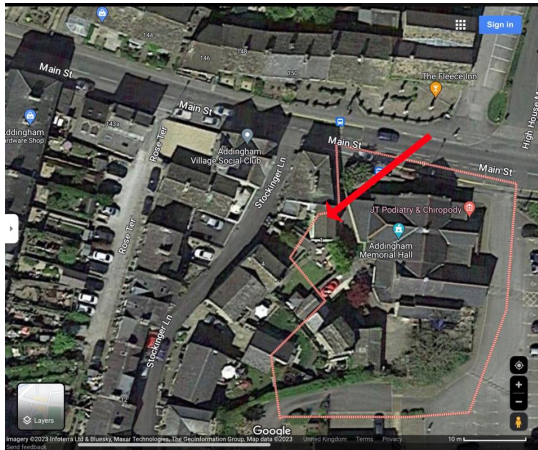


Photo 1

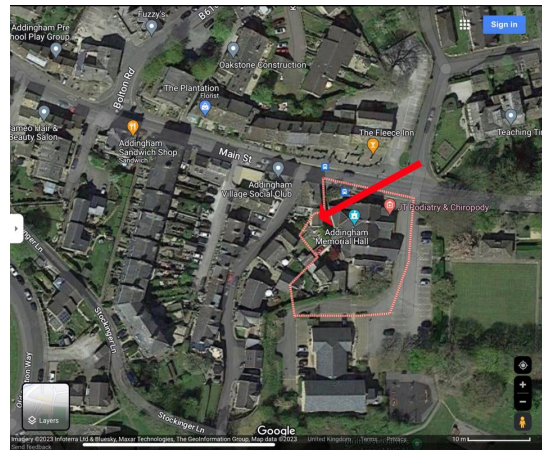


Photo 2

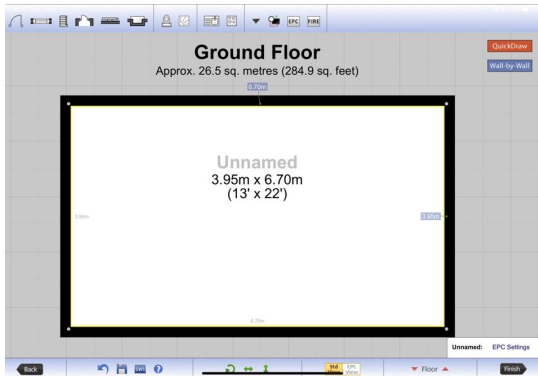


Photo 3

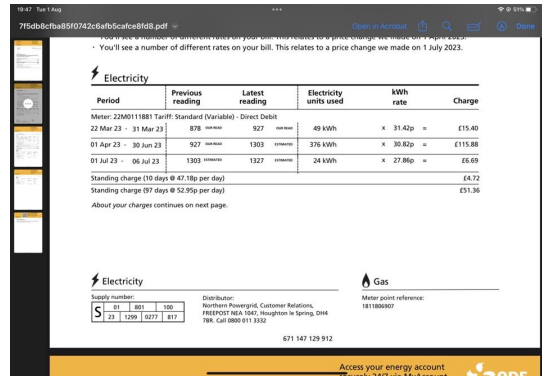


Photo 4

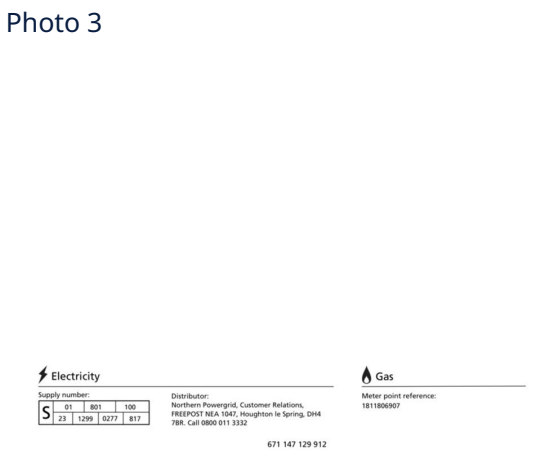


Photo 5



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Photo 43



Photo 44



Photo 45



Photo 46





Photo 47



Photo 48



Photo 49

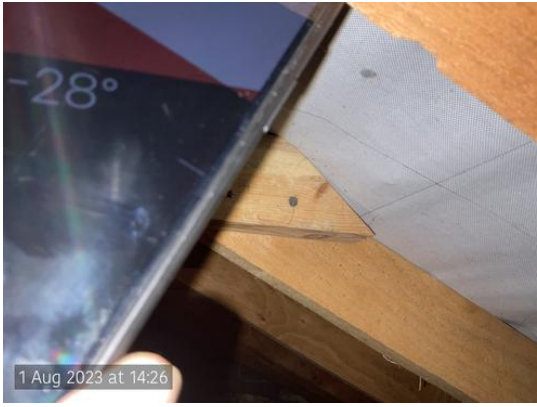


Photo 50



Photo 51



Photo 52



Photo 53



Photo 54





Photo 55



Photo 56



Photo 57



Photo 58



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Photo 60



Photo 61



Photo 62



Photo 63



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Photo 65



Photo 66



Photo 67

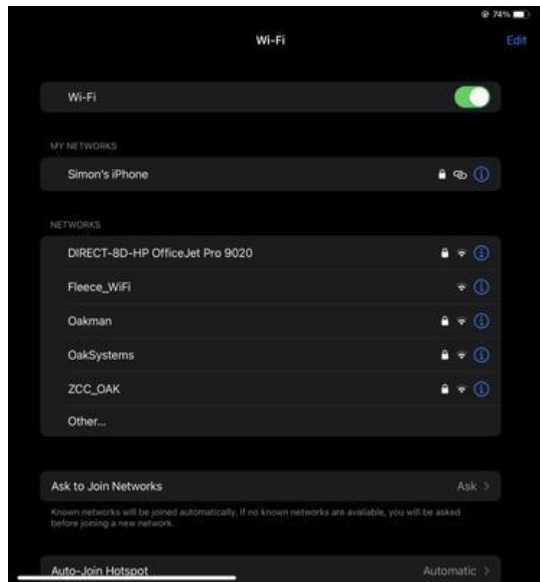


Photo 68





Photo 69



Photo 70



Photo 71

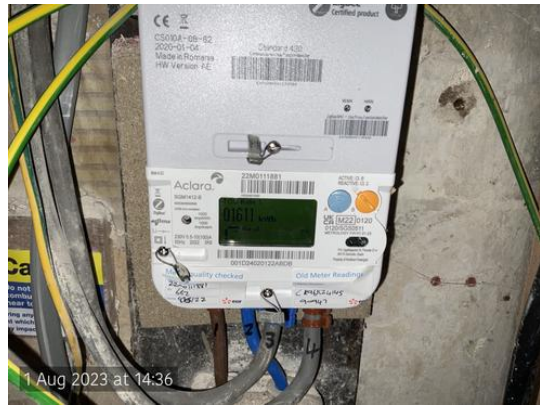


Photo 72



Photo 73

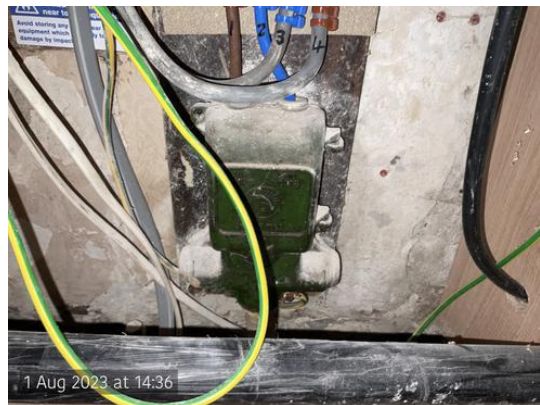


Photo 74



Photo 75



Photo 76



Photo 77