



GeoEnginSeer

FREELANCE DILETTANTE GEOLOGIST

137 The Rock,
Bury,
BL9 0ND

Verification Completion Report for Ground Gas Protection Systems

Date / Time:

26.02.24

Project Title	137 The Rock
Date	26.02.24 RN1507
Report/Visit Number	First and Only
Client	First 4 Building Services Ltd.
Weather	10°C cloudy, light wind.
Development Type	Residential
Foundation Type	Block and beam
Plot Numbers	11, 12 & 13
Visit By	Dwayne Dixon

Report By**Checked/Approved By**

Signature



Signature



Name: Mairead Morony

Name: Ben Crowther

**Company Contact Details**

First 4 Building Services Ltd.,
Croft Court E13,
Walter Leigh Way,
Leigh,
WN7 3PT

1. **GAS MEMBRANE**

1.1 **Condition Of Subgrade and Underside Of Gas Membrane**

Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Overall, the membrane was in good condition. Subgrade had been cleaned and prepped to a sufficient standard.

1.2 **Gas Membrane Type**

Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers.

Visqueen Ultimate HC Blok

1.3 **Laps, Welds and Joint Seals**

Joints lapped and sealed in accordance with manufacturers requirements/specification. Minimum overlap insured? Welds complete? Appropriate joining/double sided tape used?

Joints were a combination of machine and hand welds.

Corners and doorway entrances where detailed with Visqueen Pro Detailing Strip

1.4 **Service Entries Seals**

How many pipe penetrations? Top hats seal arrangements fixed around service entries? Use of jubilee clips? Etc.

The pipe penetrations were sealed with a silver detailing tape in situ. The plot had 10 outlets.

2. VENTILATION SYSTEMS

2.1 Subfloor Void

Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?

Installed as standard drawings.

2.2 External Wall Airbricks

How many? Size? Positioning? Spacing? Etc.

Air bricks (9"x3") were spaced on opposite sides of property blocks approx. 2 – 4 meters apart. The plot had 10 air bricks.

2.3 Active Venting

Type of air supply: mechanical, natural, combined? Location/condition/number of fans/vents? Location and size of inlets? Provision of air cleaning devices and air heaters? Supply and exhaust duct work? Alarm provision/installation? Gas monitoring system in under-floor void?

NA

2.4 Testing Of Air Flow

Is the air flowing sufficiently through ventilation? Anemometer reading? Smoke test? Tracer gas?

NA

3. INSPECTION AND INTEGRITY DETAILS

On the 26th February 2024 the installed membrane at 137 The Rock, Bury was checked using pick testing, visual inspection and air lancing.

The plot was block and beam foundation with vents.

The installed membrane was a Visqueen Ultimate HC Blok with Visqueen Pro Detailing Strip used for corner and pipe detailing as well as repair patches.

The plot was a combination of machine and hand welded. The weather is cloudy and overcast. 15 outlets 10 air bricks. Other than a few (4) minor faults which the installers fixed there and then neat and tidy job.

All the corners and door entries were sealed with sufficient overlaps.

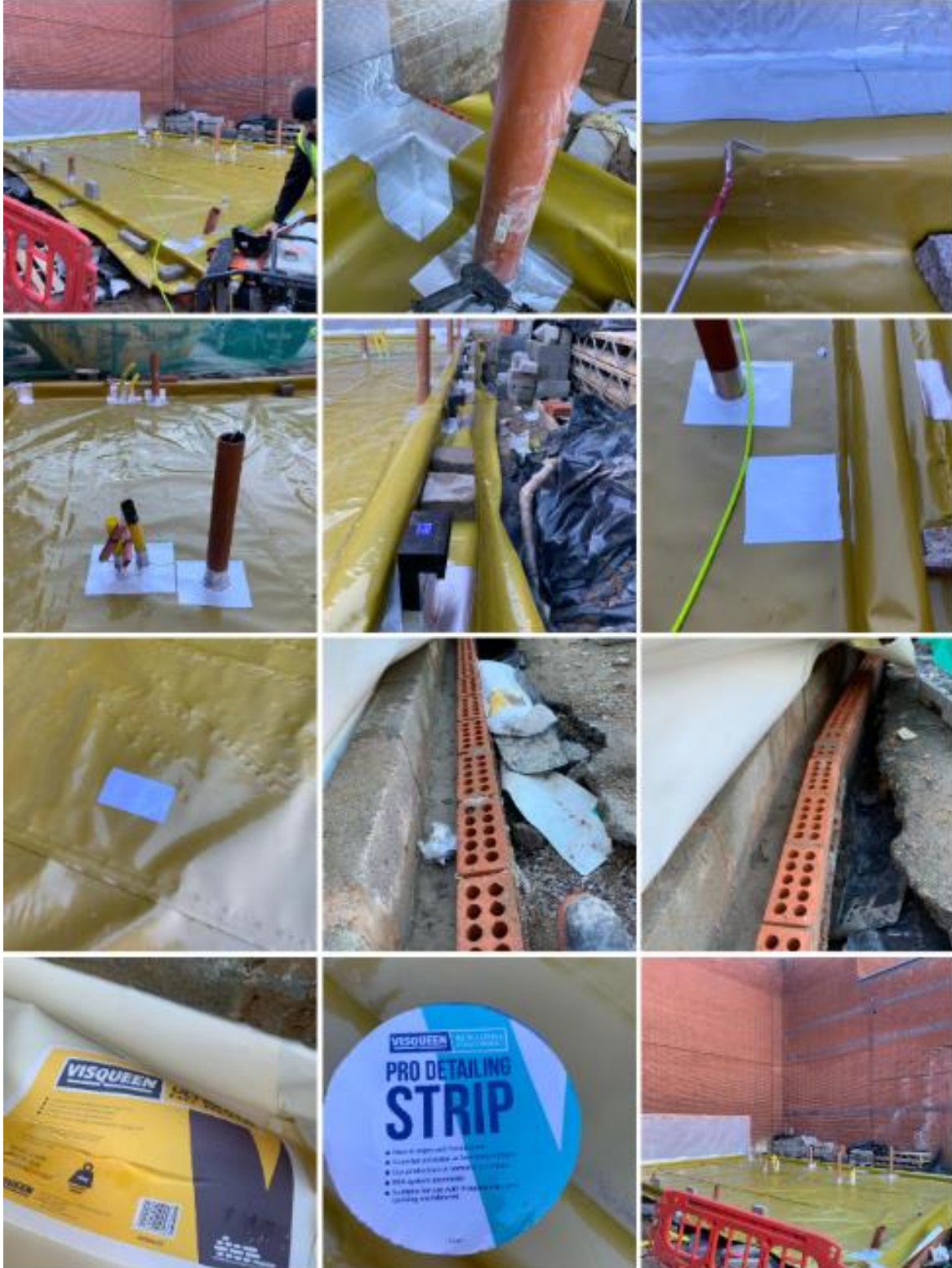
The pipe penetrations were all sealed in situ with detailing tape.

All welds were air lanced at a constant 50 psi.

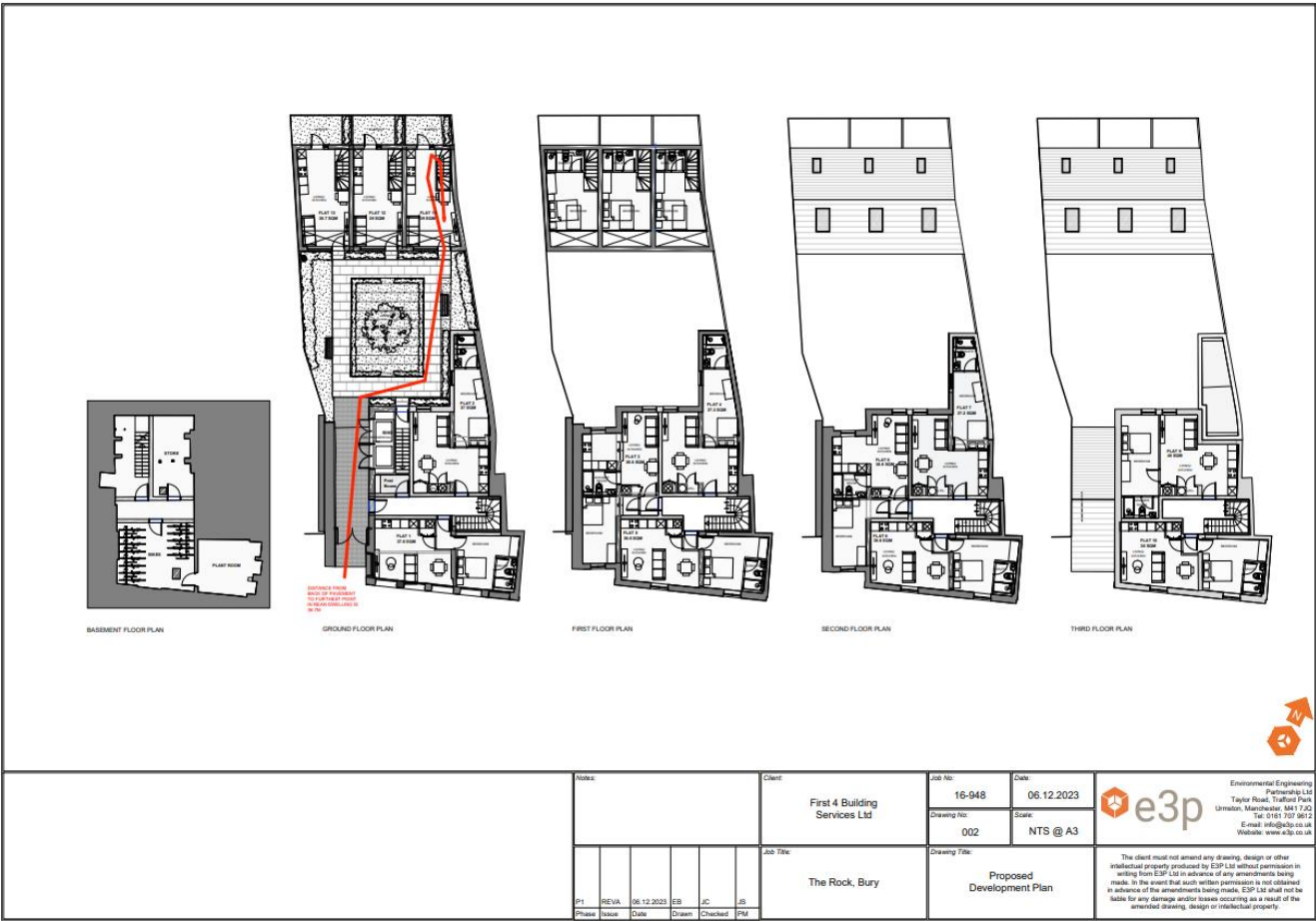
The work was carried out to a high standard and passed inspection.

(Please see photos.)

4. PHOTOGRAPHIC RECORDS



Site plan.



5. CONCLUSION OF SITE VISIT

5.1 Details Of Installers

Are the installers suitably qualified / trained? Names of installers / company details?

PRS Ltd.

5.2 Pass / Fail?

Are the measures inspected acceptable / NOT acceptable? Do they comply with the specifications? Is attention required to specific issues?

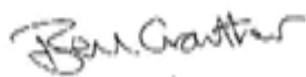
PASS

5.3 Additional notes

Remedial actions to be taken? Re-visit to be arranged?

N/A

If you have any queries about the above information please do not hesitate to contact the below verification specialist;



Ben Crowther B.Sc, M.Sc, PGCE, FGS, CIEH, PCA QT, SGPV

For and on behalf of GeoEnginSeer Ltd.

geoenginseer@gmail.com

07817 108921

www.GeoEnginSeerLtd.co.uk



6.0 Limitations and Challenges of Verification Reporting

This report is based on the information that has been made available to us from the client, contractor and architect regarding the site. The conclusions drawn in the report are considered correct although any subsequent additional information or actions may allow refinement of the conclusions. It should be noted that: The report has been prepared under the express instructions and solely for the use of the Client.

The findings of this report represent the professional opinion of experienced Ground Gas System Surveyors. GeoEnginSeer Ltd does not provide legal advice and the advice of lawyers may also be required.

All work carried out in preparing this report has utilised and is based upon understanding of current relevant UK standards and codes, technology, and legislation. (BS8485:2015+A1:2019 & CIRIA 735).

Changes in this legislation and guidance may occur at any time in the future and cause any conclusions to become inappropriate or incorrect.

The report is limited to the boundaries identified by the Client on this site and confirmed within this document.

Should additional services be introduced, or service conduits are not sealed or have services provided through them at a later date that are not sealed to the conduit and or gas protection system, a retrospective fit may be required. If a site is left open for prolonged periods following verification or works are conducted that may damage the integrity of the installation by follow on trades repairs may be needed, the standards observed in a positive verification report may be compromised. Intellectual rights to this document may be rescinded.