



GeoShield Verification Report



PROJECT REFERENCE: GEO103300

PROJECT: Leeds Road, Mirfield

PROJECT ADDRESS: Leeds Road

Mirfield, Wakefield

WF14 0JE

SPECIFICATION: Verified in accordance CIRIA 735.

Design in accordance with BS8485 2015 + 2019 for Methane and Carbon Dioxide.

Substrate prepared in-accordance with manufactures instructions

Rhinoplast Total Gas Barrier

Gas Resistant Detail Strip

Rhinoplast LT Joint Strip (Double Sided Butyl Tape)

Rhinoplast High Tack Girth Tape



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NAME OF SURVEYOR:

Michael Dodd

VERIFICATION COMPANY:

GeoShield Limited

Icon Business Centre

4100 Park Approach

Thorpe Park

Leeds

CONTACT NUMBER:

EMAIL ADDRESS:

ORDER NUMBER:

To be confirmed

PER VISIT:

YES:

NO:

PROJECT:

YES:

NO:



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CLIENT DETAILS

CLIENT CONTACT: Andy Butterworth

CONTACTS ROLE: Director - ABM Developments (Yorkshire) Limited

MOBILE PHONE: [Redacted]

EMAIL ADDRESS: [Redacted]

CLIENT CONTACT: Aiden McCrystal

CONTACTS ROLE: Director

MOBILE PHONE: [Redacted]

EMAIL ADDRESS: [Redacted]

NOTES:

[Redacted]



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APPLICATOR'S DETAILS

APPLICATOR NAME: Lee Dyson

COMPANY: AM Groundworks

APPLICATOR TEL: Call Aiden McCrystal

APPLICATOR EMAIL:

APPLICATOR NAME: Frankie McCrystal

COMPANY: AM Groundworks

APPLICATOR TEL: Call Aiden McCrystal

APPLICATOR EMAIL:

NOTES: The installers have no experience in the installation of Ground Gas

Membrane systems. The installers have had a tool box talk this report

and helped them understand the variety of installation process.



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AREA SURVEYED: Plots 11 & 12 (Perimeters and Party Wall)

SITE CONDITIONS:

WEATHER: Overcast

TEMPERATURE: 5c

MEMBRANE TEMPERATURE: N/A

RELATIVE HUMIDITY: N/A

TIME: 07:00 to 10:30 REPORT NUMBER: 004

DATE: 13/02/2023

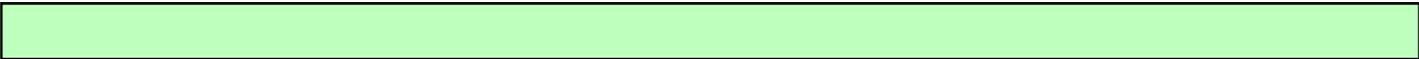
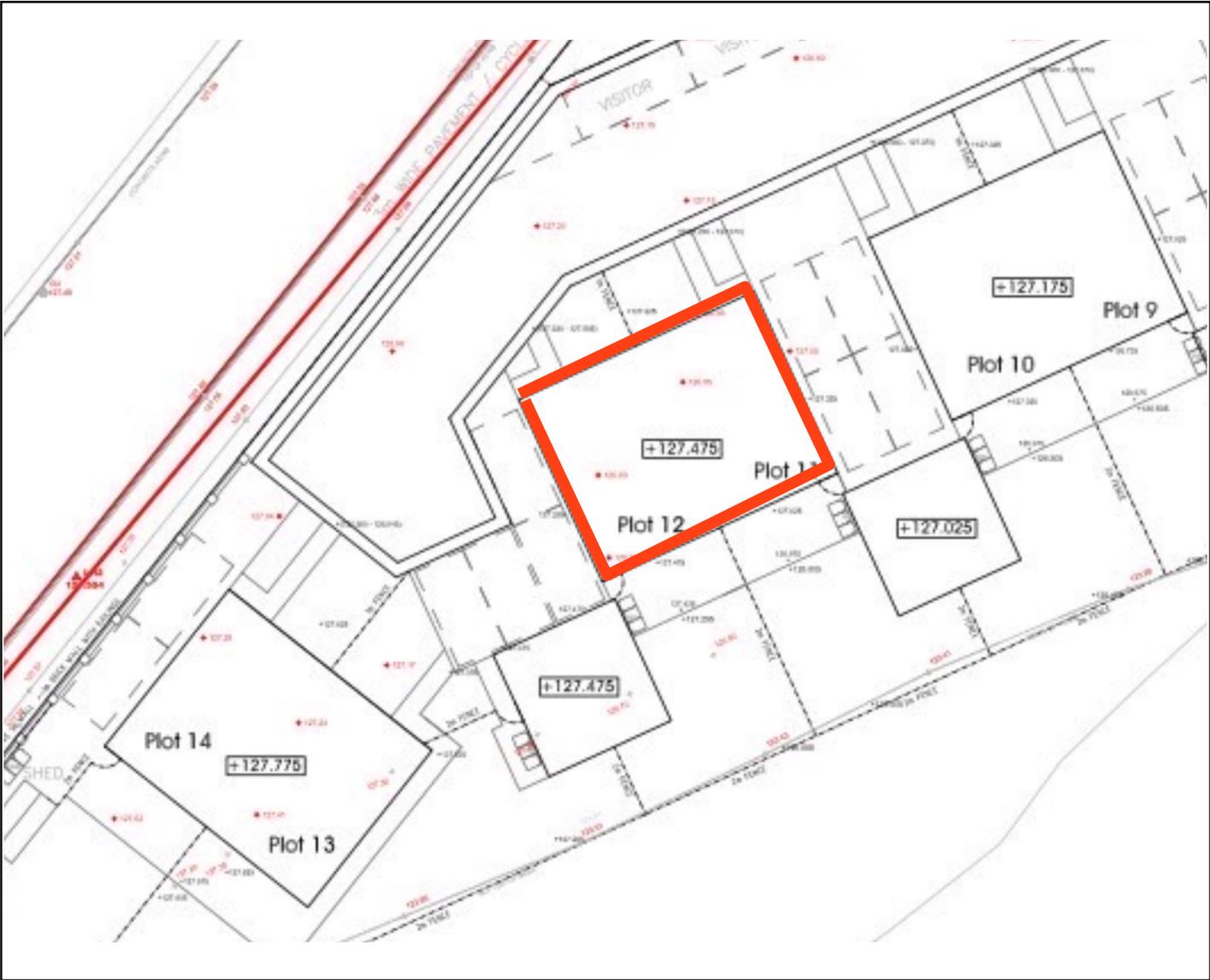
ACCOMPANIED Frankie McCrystal



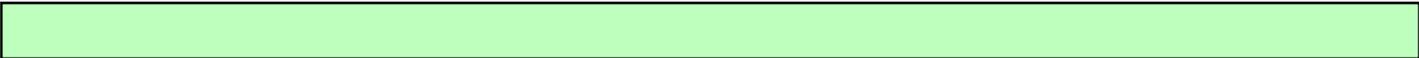
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VERIFICATION LAYOUT



Overview of verified Plots 11 & 12.





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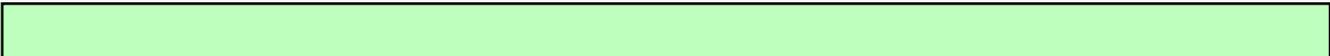


OVERVIEW PHOTOGRAPHS



Overview of verification area.

Plots 11 & 12





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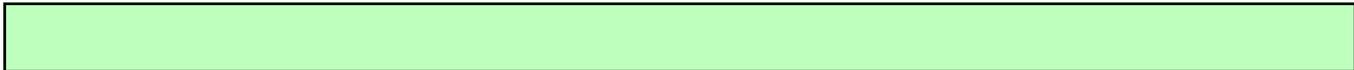


OVERVIEW PHOTOGRAPHS



Alternative overview of verification area

Plots 11 & 12





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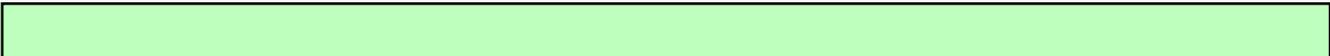


OVERVIEW PHOTOGRAPHS



Overview of verification area

Party Wall to Plots 11 & 12





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VERIFICATION ITEM ONE

LOCATION/GRID LINE: Plots 11 & 12 inclusive

NOTES: Rhinoplast Total Gas Barrier Installation-Damage

The Rhinoplast Total Gas Barrier had been installed around the perimeter of and along the party wall position. The initial inspection was to identify any potential damage where a total of fourteen punctures were identified along the perimeter of both plots. There were



no punctures identified along the strip of Rhinoplast TGB. The punctures looked to have

been caused by bricks which had fallen onto the Rhinoplast TGB following installation.

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VERIFICATION ITEM ONE



The overview image shows a section of the Rhinoplast TGB along the perimeter. It was

noted that the bricks used to help keep the Rhinoplast TGB in position had been either

knocked off or they slipped off the perimeter brickwork. Either way, the bricks had

caused the fourteen punctures identified during the verification visit this report.



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VERIFICATION ITEM TWO

LOCATION/GRID LINE: Plots 11 & 12

NOTES: Rhinoplast Total Gas Barrier Installation-Lap Joints

The various Rhinoplast Total Gas Barrier lap joints were all dual sealed combining both the Rhinoplast LT Joint Strip and the Rhinoplast High Tack Girth Tape. The left image shows where the Rhinoplast LT Joint Strip was exposed by carefully peeling



back the Rhinoplast High Tack Girth Tape. The Mechanical Point Stress Test

was then undertaken which identified the Rhinoplast LT Joint Strip had been used

providing the required seal. The right image shows the completed lap joint

terminating at the perimeter. It was evident that the minimum required lap of 150mm

had been achieved and the dual tape system was adopted to complete the lap joint

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VERIFICATION ITEM TWO



The overview image shows one of two elevations where the majority of the

Rhinoplast Total Gas Barrier lap joints were completed.

The lap joints were inspected from either beneath or by sampling the lap joint

as reported above and no issues were identified during the verification.



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VERIFICATION ITEM THREE

LOCATION/GRID LINE: Plots 11 & 12

NOTES: Internal Corner Detailing

The various reveals and internal corners were all sealed using strips of Gas Resistant Detail Strip to ensure a complete seal. The initial inspection noted that the Gas Resistant Detail Strip had been securely adhered to the Rhinoplast TGB where the



heat applied activated the bitumen backing which in turn improved the adhesion properties especially when pressure applied during the installation.

The images also show the Mechanical Point Stress Test being undertaken along the edges of the Gas Resistant Detail Strip where no capillary leaks were identified



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VERIFICATION ITEM THREE



The overview image shows the typical perimeter installation of the Rhinoplast

Total Gas Barrier where the various lap joints proved to be correctly sealed. The

internal/external corners and reveals were all successfully sealed using strips

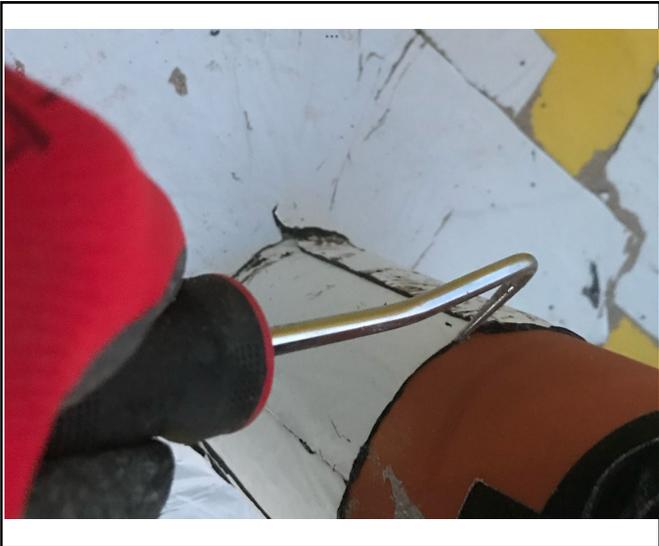
of Gas Resistant Detail Strip.



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ADDITIONAL PHOTOGRAPHS



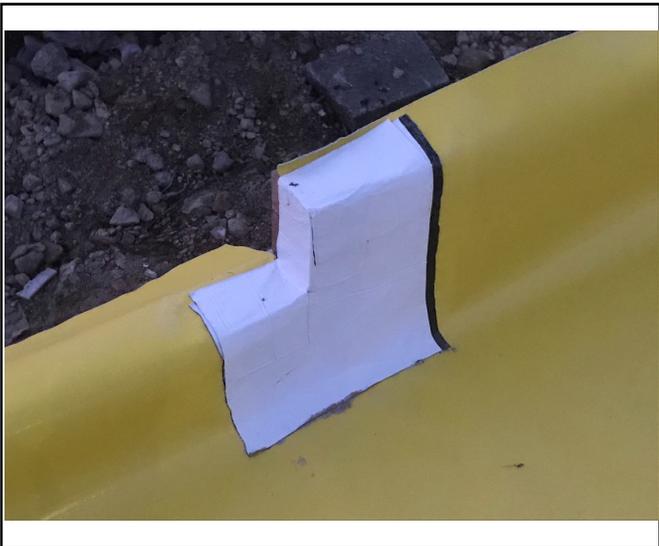
Mechanical Point Stress Test to

pipe penetration detailing



View of typical pipe penetration sealed

with Gas Resistant Detail Strip



View of threshold/reveal sealed with

with Gas Resistant Detail Strip



View of internal corner sealed with

with Gas Resistant Detail Strip



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ADDITIONAL PHOTOGRAPHS



View showing repair to identified

puncture to Rhinoplast TGB



View showing repair to identified

puncture to Rhinoplast TGB



View showing repair to identified

puncture to Rhinoplast TGB



View showing repair to identified

puncture to Rhinoplast TGB



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ADDITIONAL PHOTOGRAPHS



View showing repair to identified

puncture to Rhinoplast TGB



View showing repair to identified

puncture to Rhinoplast TGB



View showing repair to identified

puncture to Rhinoplast TGB



View showing repair to identified

puncture to Rhinoplast TGB



GEOSHIELD Verification Report



ADDITIONAL PHOTOGRAPHS



View showing repair to identified

puncture to Rhinoplast TGB



View showing repair to identified

puncture to Rhinoplast TGB



View showing repair to identified

puncture to Rhinoplast TGB



View showing repair to identified

puncture to Rhinoplast TGB



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ADDITIONAL PHOTOGRAPHS



View showing repair to identified

puncture to Rhinoplast TGB



View showing repair to identified

puncture to Rhinoplast TGB



GeoShield compliant notice

adhere to plot 11 perimeter



GeoShield compliant notice

adhere to plot 12 perimeter



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VERIFICATION SUMMARY

This was the fourth visit to site where the installation of the Rhinoplast Total Gas

Barrier required to the perimeter elevation and party wall to Plots 11 & 12.

The verification included as follows:-

>. Mechanical Point Stress Test to sampled Rhinoplast TGB lap joints.

>. Visual inspection of the whole installation-refer to the remediation log.

In addition, the previously verified plots (7, 8, 9 & 10) were also revisited to check

if the required protective DPC had been placed upon the Rhinoplast TGB. It was

noted that this was the case throughout.

All remediations were all completed to Plots 11 & 12 this report.

Verification was in accordance with CIRIA 735.

GEOSHIELD SIGNATURE:

DATE: 13/02/2023