



GeoShield Verification Report 02



PROJECT REFERENCE:

GEO105396

PROJECT ADDRESS:

R4 Civils,
Barlestone,
Barton Road,
Osbaston
Nuneaton,
CV13 0EU

SPECIFICATION:

Verified in accordance with CIRIA 735.

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

Substrate prepared in accordance with
manufacturer's instructions.

MATERIAL SPECIFICATION:

JUTA GP1 Gas Barrier
JUTA GP1 SAM



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NAME OF SURVEYOR:

Alfie Manton

VERIFICATION COMPANY:

GeoShield Limited

COMPANY ADDRESS:

Icon Business Centre

4100 Park Approach, Thorpe Park

Leeds

LS15 8GB

CONTACT NUMBER:

07831 376195

EMAIL ADDRESS:

amanton@geoshield.co.uk



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CLIENT DETAILS

CLIENT CONTACT:

CONTACTS ROLE:

MOBILE PHONE:

EMAIL ADDRESS:



CLIENT CONTACT:

CONTACTS ROLE:

MOBILE PHONE:

EMAIL ADDRESS:

NOTES:



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APPLICATOR'S DETAILS

APPLICATOR NAME: Connor Lombari

COMPANY: Omega Lining Solutions

APPLICATOR TEL: 07540 618824

APPLICATOR EMAIL:

APPLICATOR NAME:

COMPANY:

APPLICATOR TEL:

APPLICATOR EMAIL:

NOTES:

At least one member of each team group will have a NVQ Level 2 qualification in gas membrane installation.

All installers are deemed competent and skilled to complete the installation of gas membranes.



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INSPECTION AREA(S)

Plots 41 & 42 - Full Line Out

SITE CONDITIONS

WEATHER:

Sunny

TEMPERATURE:

25°C

TIME:

09.30 - 10.30

DATE:

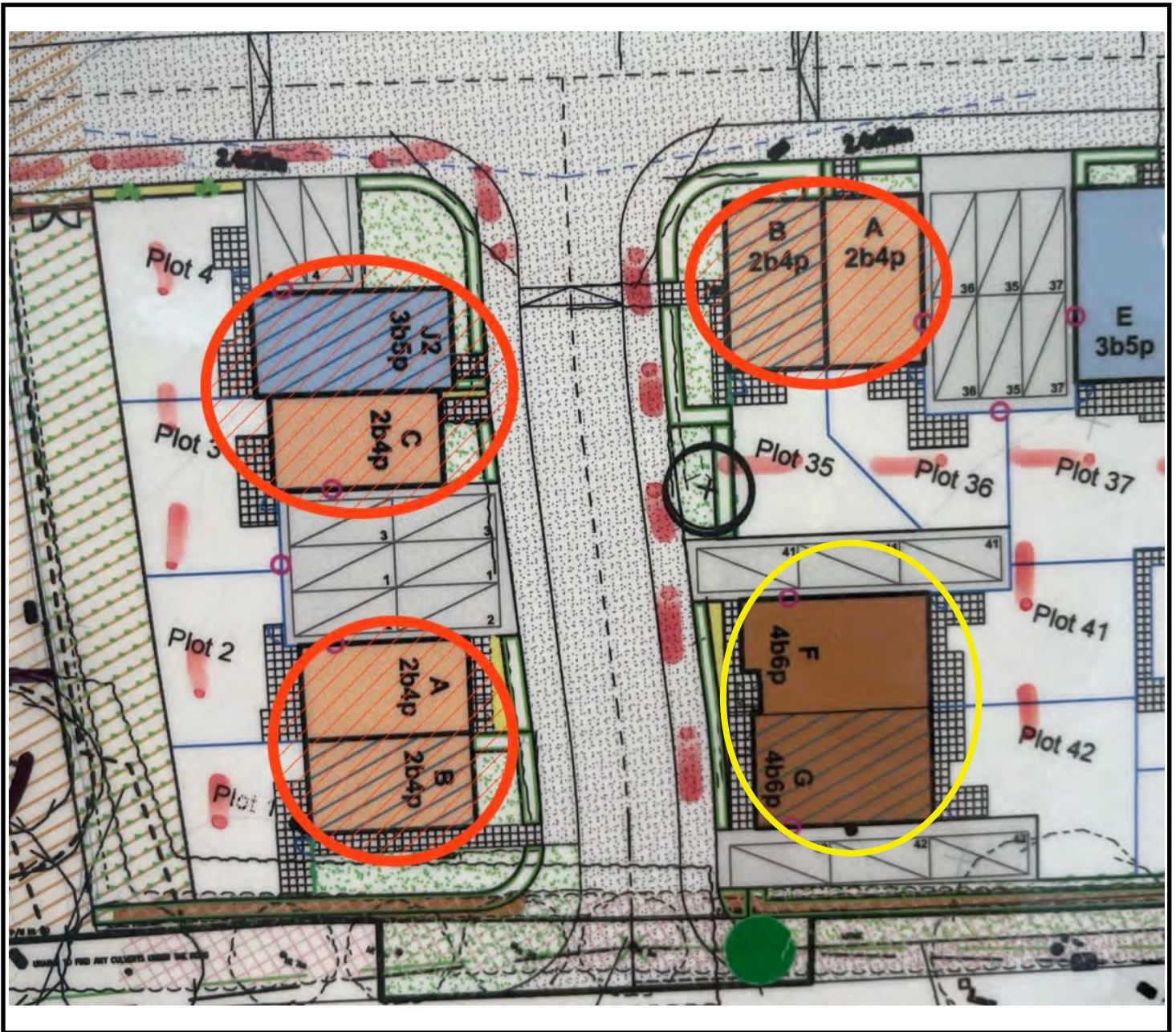
20.06.2025

REPORT NUMBER:

002

ACCOMPANIED BY:

VERIFICATION LAYOUT



The photograph above shows a plan layout of the site. The area highlighted in yellow shows where the verification inspection took place on site today.

OVERVIEW



The photograph above displays an overview of the area where today's verification inspection took place on site.



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LIMITATIONS / RESTRICTIONS

INSPECTED AREA: Plots 41 & 42 - Full Line Out



Air Lance testing could not be carried out due to restricted vehicle access to the area requiring verification today. To mitigate this issue, thorough visual inspections supported by mechanical point stress testing were conducted.



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VERIFICATION ITEM ONE

AREA INSPECTED: Plots 41 & 42 - Full Line Out

INSPECTION DETAILS: Installation of JUTA GP1 Gas Barrier



NOTES:

A complete line out of the JUTA GP1 Gas Barrier has been installed across the footprint of plots 41 & 42. The JUTA GP1 Gas Barrier has been lined across the entirety of the plots, including the internal party walls and external cavities to ensure continuity throughout.



NOTES:

All lap joints between the adjacent sheets of JUTA GP1 Gas Barrier have been overlapped a minimum of 100mm and heat welded using a hot air leister and a silicone roller with adequate pressure applied to ensure a continuous weld is achieved. Installed in accordance with manufacturer's specifications.

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VERIFICATION ITEM ONE



The above photograph displays a mechanical point stress test, also known as a pick and probe test, being conducted upon a welded lap joint of the JUTA GP1 Gas Barrier. All lap joints were subjected to thorough mechanical point stress testing throughout the installation. No faults or defects were identified during today's inspection.



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VERIFICATION ITEM TWO

AREA INSPECTED: Plots 41 & 42 - Full Line Out

INSPECTION DETAILS: Pipe Penetrations



NOTES:

Throughout the installation of the JUTA GP1 Gas Barrier to the referenced plots, there were a number of pipe penetrations that have been sealed in accordance with manufacturer's specifications and design guidelines. This has been achieved using JUTA GP1 SAM which is a self adhesive membrane.



NOTES:

The installers have first cut the JUTA GP1 Gas Barrier tight around the base of each pipe penetration to minimise voided areas. Next, strips of JUTA GP1 SAM are placed intricately in a top hat formation around the pipe penetration and onto the JUTA GP1 Gas Barrier. Heat and rolled pressure is applied to activate the bitumen backing,

VERIFICATION ITEM TWO



creating a secure bond between the pipe penetration and the JUTA GP1 Gas Barrier. All pipe penetrations throughout the referenced plots were subjected to thorough mechanical point stress testing where a probe was run along all edges of the JUTA GP1 SAM. No faults or defects were identified within the pipe penetration detailing during these testing procedures.



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VERIFICATION ITEM THREE

AREA INSPECTED: Plots 41 & 42 - Full Line Out

INSPECTION DETAILS: Corners and Thresholds



NOTES:

A number of corners and thresholds throughout the referenced plots have been sealed as per manufacturer's specifications and design guidelines. This has been achieved using JUTA GP1 SAM. The JUTA GP1 Gas Barrier has been cut to minimise any voided areas and gaps across the footprint of the referenced



NOTES:

plots. Each corner and threshold junction has been reinforced by heating strips of JUTA GP1 SAM and placing them into position around each corner, onto the JUTA GP1 Gas Barrier. Firm rolled pressure is applied with a silicone roller to aid in the adhesion ensuring the JUTA GP1 SAM has fully bonded.

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VERIFICATION ITEM THREE



A pick and probe test was conducted upon all edges of JUTA GP1 SAM to validate that a gas tight seal had been achieved between the JUTA GP1 Gas Barrier and the JUTA GP1 SAM on the corner and threshold detailing.

ADDITIONAL PHOTOGRAPHS



An overview of a vent brick.



An overview of a hot leister.



An overview of sealed pipe penetrations.



An overview of sealed corner detailing.



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GAS MEMBRANE TESTING



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[illegible]



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VERIFICATION SUMMARY

This was the second visit to the site where verification was required for the full line out installation of the JUTA GP1 Gas Barrier to plots 41 & 42, installed by Omega Lining Solutions limited.

All overlaps between the adjacent sheets of JUTA GP1 Gas Barrier have been successfully welded using a hot air leister and silicone roller, creating continuous welded joints throughout.

All details throughout the installation, such as pipe penetrations, corners and thresholds have been successfully sealed using JUTA GP1 SAM, heated down to aid in the adherence.

Thorough mechanical point stress testing, as well as visual inspections and non destructive air lance integrity testing were conducted throughout the visit today.

No faults or defects were identified during today's

The installation has been conducted to a good NVQ 2 standard and in accordance with manufacturer's specifications.

Is the project ready for handover?	No
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This was passed and verified in accordance with CIRIA 735 and installed to BS8485:2015+A1 2019.

GEOSHIELD SIGNATURE

DATE: 20-Jun-2025