



GeoShield Verification Report 01



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:

Harry Martin

VERIFICATION COMPANY:

GeoShield Limited

COMPANY ADDRESS:

Icon Business Centre

4100 Park Approach, Thorpe Park

Leeds

LS15 8GB

CONTACT NUMBER:

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EMAIL ADDRESS:

hmartin@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:

COMPANY:

APPLICATOR TEL:

APPLICATOR EMAIL:

APPLICATOR NAME:

COMPANY:

APPLICATOR TEL:

APPLICATOR EMAIL:

NOTES:



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INSPECTION AREA(S)

Plots 1, 2, 3, 4, 35 & 36 - Full Line Out

SITE CONDITIONS

WEATHER:

Sunny

TEMPERATURE:

18°C

TIME:

11.00 - 12.00

DATE:

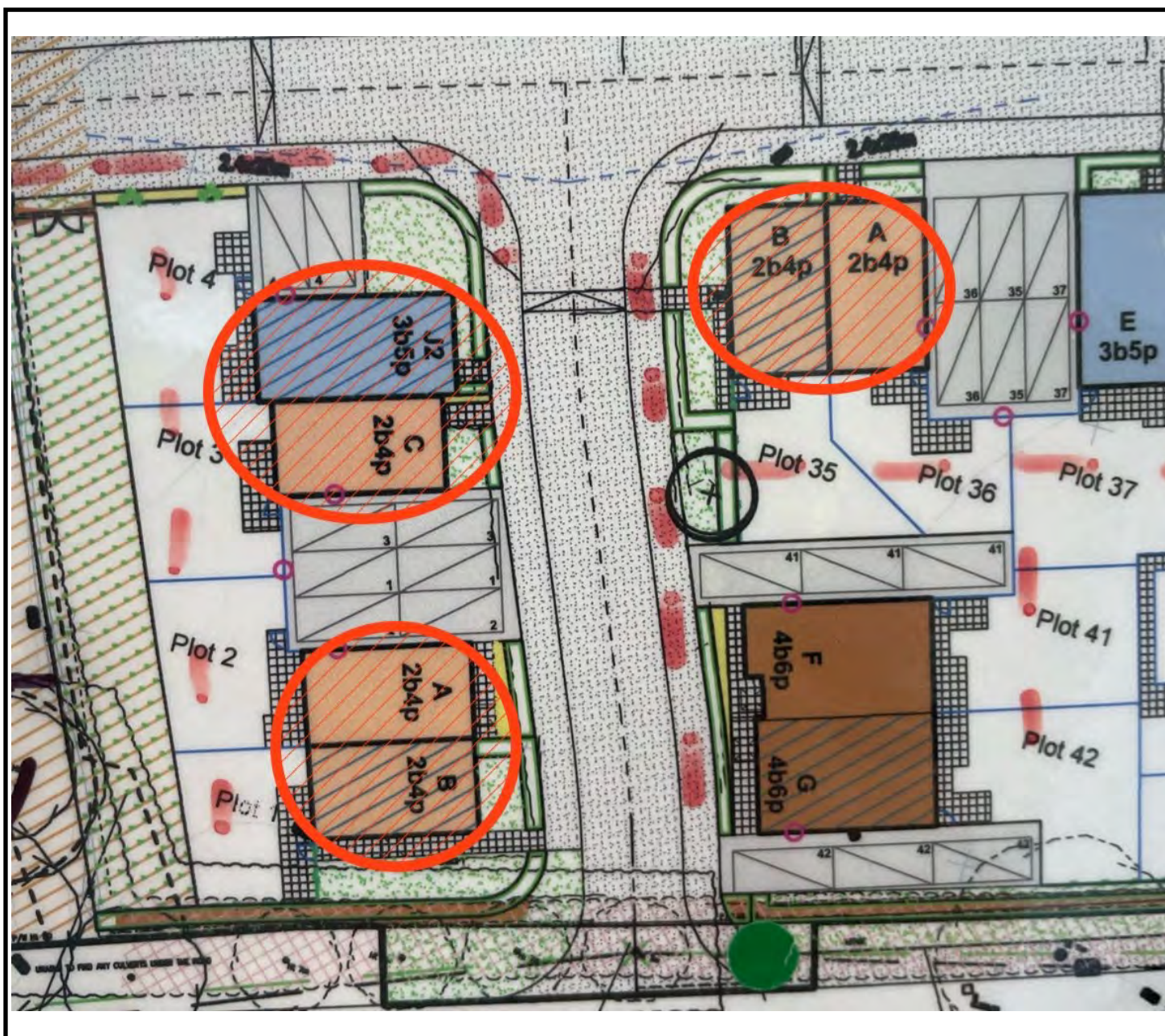
16.06.2025

REPORT NUMBER:

001

ACCOMPANIED BY:

VERIFICATION LAYOUT



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

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Verification Inspection Information

GEO: 105396		DATE: 16/6/25	
SITE: Barton Road, LV13 0EU			
WEATHER: 18c Sumb.			
CLIENT: R4 Civils			
INSTALLERS: Omega, Colham			
PLOT/AREA: 1, 2, 3, 4, 35, 36.			
TIME: 11:00, 12:00.		PHONE:	
Juta GPI		Juta GPI SAM.	

The above photograph shows the details of the verification visit and the materials used.

OVERVIEW



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

OVERVIEW



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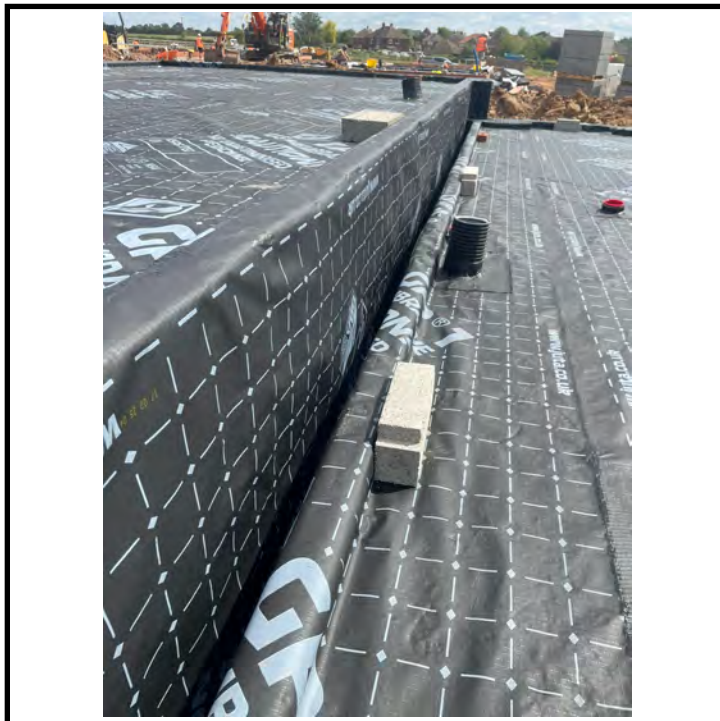
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VERIFICATION ITEM ONE

AREA INSPECTED: Plots 1, 2, 3, 4, 35 & 36 - Full Line Out

INSPECTION DETAILS: Installation of the JUTA GP1 Gas Barrier



NOTES:

A complete line out of the JUTA GP1 Gas Barrier has been installed across the footprint of plots 1, 2, 3, 4, 35 & 36. The JUTA GP1 Gas Barrier has been installed across substrates, the perimeter walls and also on the dropdown within plots 3 & 4. This has been installed tightly to the dropdown wall as well as creating a



NOTES:

cavity for the groundworkers to place insulation at a later date. 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.

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VERIFICATION ITEM ONE



Installed in accordance with manufacturer's specifications. 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 and non destructive air lance integrity testing throughout the installation. No faults or defects were identified at the time of the inspection.



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VERIFICATION ITEM TWO

AREA INSPECTED: Plots 1, 2, 3, 4, 35 & 36 - 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

AREA INSPECTED: Plots 1, 2, 3, 4, 35 & 36 - 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.



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ADDITIONAL PHOTOGRAPHS



Sealed corner detailing.



Sealed corner detailing.



A sealed pipe penetration.



Sealed corner and sealed pipe penetration detailing.

AIR LANCE INTEGRITY TESTING

Air Lance Integrity Testing - ASTM D4437-08:2013. This inspects all seams for unbonded areas using a 4.8mm air nozzle held a minimum of 51mm away. 50 PSI is the minimum requirement. The air nozzle is directed on the upper edge seam, ripples indicate an unbonded seam. Each fault identified is highlighted for remediation to take place.



Correct pressure achieved.



Air lance testing on a welded lap joint.



Air lance testing on a pipe penetration.



Air lance testing on a sealed corner.



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GAS MEMBRANE TESTING



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[illegible]



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VERIFICATION SUMMARY

This was the first visit to the site where verification was required for the full line out installation of the JUTA GP1 Gas Barrier to plots 1, 2, 3, 4, 35 & 36. 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: 16-Jun-2025