



GeoShield Verification Report 01



PROJECT REFERENCE: GEO104074

PROJECT: Dewsbury Hospital

PROJECT ADDRESS:

Dewsbury

WF14 4HS

SPECIFICATION: Verified in accordance CIRIA 735.

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

Substrate prepared in accordance with manufacturers instructions.

Proctor GM Super Gas Barrier

Proctor GM Flashing Strip

Proctor SAGM (Self Adhesive Gas Membrane)



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NAME OF SURVEYOR:

Michael Dodd

VERIFICATION COMPANY:

GeoShield Limited

Icon Business Centre

4100 Park Approach

Thorpe Park

Leeds, LS15 8GB

CONTACT NUMBER:

07555 214679

EMAIL ADDRESS:

mdodd@geoshield.co.uk

ORDER NUMBER:

To be confirmed

PER VISIT:

YES:



NO:



PROJECT:

YES:



NO:





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INFORMATION INCLUDED

9202-002-R-01-0

17960-S01revA

17960-S02

180598-DGL-XX-XX-DR-A-3200-(P1)-Ground Floor Interface Revised Heights

Geoshield Ground Gas Design Details

Material Specification Technical Data Sheets

Information presented to at the pre-verification stage assumed correct

Any change client will let GeoShield know or this Pre-verification Plan will be void.



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CLIENT DETAILS

CLIENT CONTACT: Cameron Reed

CONTACTS ROLE: Design Manager

MOBILE PHONE: 07984 270 453

EMAIL ADDRESS: creed@darwingroup.co.uk

CLIENT CONTACT: Jason Pugh

CONTACTS ROLE: Site Manager

MOBILE PHONE: 07931 406681

EMAIL ADDRESS: jpugh@darwingroup.co.uk

NOTES:



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APPLICATOR'S DETAILS

APPLICATOR NAME: Connor Lombari

COMPANY: Omega Lining Solutions

APPLICATOR TEL: 07561 740706

APPLICATOR EMAIL:

APPLICATOR NAME: Dom Lombari

COMPANY: Omega Lining Solutions

APPLICATOR TEL: 07377 406097

APPLICATOR EMAIL:

NOTES: The installers are deemed very experienced in all aspects of ground gas membrane systems using a range of materials. The installation team has at least one member who has gained a NVQ Level 2 in Gas Membrane Installation.



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AREA SURVEYED:

Gridline Area: A-D/10-12 & D-J/7-12 inclusive (excluding perimeter edge)

SITE CONDITIONS:

WEATHER:

Overcast

TEMPERATURE:

5.9c

RELATIVE HUMIDITY:

N/A

MEMBRANE TEMPERATURE:

N/A



TIME:

09:00 to 13:00

DATE:

11.01.2024

REPORT NUMBER:

001

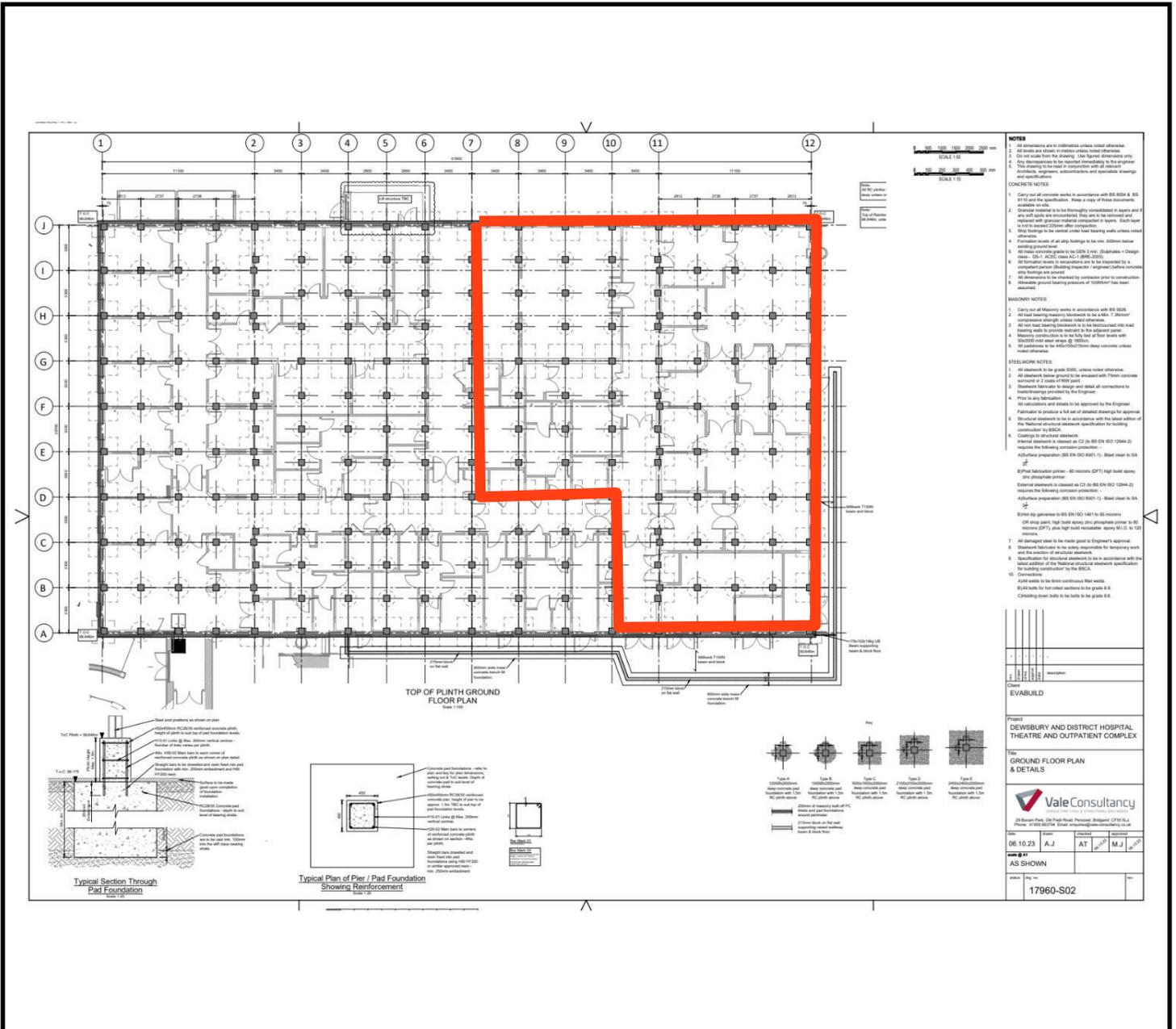
ACCOMPANIED BY:

Connor Lombardi of Omega Lining Solutions

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Verification Layout



This is an overview of the proposed site layout plan where the area outlined has been verified this report.

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OVERVIEW



This is a overview of the proposed project where the Proctor GM Super Gas Barrier Membrane is in the process of being installed.

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OVERVIEW



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OVERVIEW



This is an overview of the proposed project where the initial sand blinding has been placed prior to the installation of the Proctor GM Super Gas Barrier.

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OVERVIEW



This is an overview of the proposed project where the Proctor GM Super Gas Barrier is in the process of being installed. Please note the restricted access where the average height is approximately 1.5 metres.

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LIMITATIONS

SURVEYED AREA: Gridline Area: A-J/1-12 inclusive

RESTRICTIONS AND LIMITATIONS:

The whole of the verification is deemed restrictive as the average height is approximately 1.5 metres. The area also is relatively dark so additional lighting had to be used during the verification process.





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LIMITATIONS

SURVEYED AREA: Gridline Area: A-J/1-12 inclusive

RESTRICTIONS AND LIMITATIONS:

The whole of the verification is deemed restrictive as the average height is approximately 1.5 metres. The area also is relatively dark so additional lighting had to be used during the verification process.



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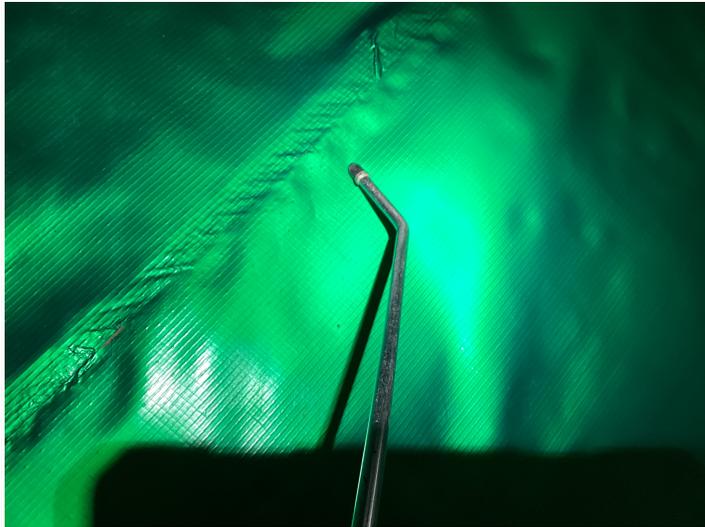
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VERIFICATION ITEM ONE

LOCATION/GRID LINE: Gridline Area: A-D/10-12 & D-J/7-12 inclusive

Proctor GM Super Gas Barrier Installation-Lap Joints



NOTES:

The Proctor GM Super Gas Barrier had been installed upon a layer of sand blinding which provided a suitable soft but protective and low risk substrate against potential punctures. The Proctor GM Super Gas Barrier sections had been welded together ensuring the minimum lap of 100mm was maintained throughout.

NOTES:

The images show the Air Lance Integrity Test being undertaken along the edges of the Proctor GM Super Gas Barrier lap joints. The area however was restrictive in height and therefore a head lamp was required to ensure all laps could be identified as well as any damage to the Proctor GM Super Gas Barrier.

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VERIFICATION ITEM ONE



The overview image shows the Air Lance Integrity Test being undertaken along one of the various Proctor GM Super Gas Barrier lap joints. The test involved directing compressed air set at 50psi along the edges of each and every available lap joint at no more than 51mm away. There were no mis-welded lap joints identified.

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VERIFICATION ITEM TWO

LOCATION/GRID LINE: Gridline Area: A-D/10-12 & D-J/7-12 inclusive

Concrete Column Detailing



NOTES:

The pipe penetrations were all sealed using a variety of Proctor SAGM strips where upon the initial inspection, had been fully bonded to both the column itself and the Proctor GM Super Gas Barrier. The two images show the Mechanical Point Stress Test being undertaken along the edges of



NOTES:

the Proctor SAGM and confirmed there were no potential capillary leaks identified throughout the verification process. It was also noted that there was minimal creasing across the extent of the completed detailing and therefore no potential capillary leaks throughout.

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VERIFICATION ITEM TWO



The overview image shows the various column penetrations which were all subjected to both a visual and physical inspection. It was evident that heat was used to activate the bitumen backing and combined with pressure enabled a secure bond with both the column penetration and the Proctor GM Super Gas Barrier identifying no issues.



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VERIFICATION ITEM THREE

LOCATION/GRID LINE: Gridline Area: A-D/10-12 & D-J/7-12 inclusive

Pipe Penetration Detailing



NOTES:
The various pipe penetrations had all been initially formed around using sections of Proctor GM Super Gas Barrier. The pipes were then reinforced and sealed using strips of Proctor SAGM. The initial inspection included checking generally for any loose Proctor SAGM where it

NOTES:
was noted that all areas of installation had been subjected to both heat and pressure so as to activate the bitumen backing improving the bond with the Proctor GM Super Gas Barrier. The bond was confirmed via the Mechanical Point Stress Test as seen in the images.

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VERIFICATION ITEM THREE



The overview image shows various internal and external corners which had been subjected to verification. The visual and physical testing identified no issues and all corners proved to have been securely bonded with the Proctor GM Super Gas Barrier. There also was very little creasing and no capillary leak risks identified.



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VERIFICATION SUMMARY

This was the first visit where the building footprint was in the process of having the Proctor GM Super Gas Barrier installed although only a section was available for verification this report.

The verification process is summarised below:-

- >. Air Lance Integrity Test to all welded Proctor GM Super Gas Barrier lap joints where no mis-welded lap joints were identified.
- >. Mechanical Point Stress Test to all pipe penetration detailing where no issues were identified.
- >. Mechanical Point Stress Test to concrete plinth detailing including the Liquid Gas Membrane application where no issues were identified.
 - >. Visual inspection of the inspected area as per the noted Gridline areas where there was no evidence of any punctures and/or damage upon completion of the verification.

This was passed and verified in accordance with CIRIA 735 and installed to BS8485:2015+A1 2019.

GEOSHIELD SIGNATURE:

DATE: 11-Jan-2024