



GEOSHIELD Verification Report



PROJECT REFERENCE:

GEO101947

REPORT NUMBER:

003

PROJECT:

SLFEZ Zone

PROJECT ADDRESS:

Cibus Way

Holbeach

PE12 7BF

MEMBRANE SPECIFICATION:

Gas membrane to specification BS8485 2015

Installed to CIRIA 735

PAG Monarflex Reflex Super

PAG SAGR



GEOSHIELD

Verification Report



MEMBRANE SPECIFICATION:

DESIGN DETAILS:

FEZ-CHG-BU-00-DR-S-0010-C02- Ground Floor Plan

FEZ-CHG-BU-F1-DR-S-0204-C03- Lift Pit Reinforcement

FEZ-COR-XX-00-DR-S-0010-C01- GA Ground Floor Layout

FEZ-COR-XX-00-DR-A-0060-C01 - GF Layout Zone A

FEZ-COR-XX-00-DR-A-0061-C01 - GF Layout Zone B

FEZ-COR-XX-00-DR-A-0062-C01 - GF Layout Zone C

FEZ-COR-XX-ZZ-DR-A-0080-C01 - GA Section A & B

FEZ-COR-XX-ZZ-DR-A-0080-C01 - GA Section C & D

FEZ-COR-XX-ZZ-DR-A-0082-C01 - GA Section E & F

FEZ-COR-XX-ZZ-DR-A-0083-P01 - GA Section G & H



GEOSHIELD Verification Report



VERIFICATION OFFICER: Finlay Todd

VERIFICATION COMPANY: GeoShield Limited

Icon Business Park, 4100 Park Approach

Thorpe Park, LEEDS

West Yorkshire

LS15 8GB

CONTACT NUMBER: 07502340363

EMAIL ADDRESS: ftodd@geoshield.co.uk

ORDER NUMBER:

PER VISIT: YES:

☐

NO:



PROJECT: YES:



NO:

☐



GEOSHIELD Verification Report



CLIENT DETAILS

CLIENT CONTACT:

Jonathan Smith

CONTACTS ROLE:

PAGeo Technical

MOBILE PHONE:

EMAIL ADDRESS:

jonathan@pageo.co.uk

CLIENT CONTACT:

CONTACTS ROLE:

MOBILE PHONE:

EMAIL ADDRESS

NOTES:

NOTES:

NOTES:



GEOSHIELD Verification Report



APPLICATION TEAM LEADERS

APPLICATOR NAME: Lee Childs

COMPANY: PAGeo Technical

APPLICATOR TEL: 07572 023210

APPLICATOR EMAIL:

APPLICATOR NAME: Andy Burgess

COMPANY: PAGeo Technical

APPLICATOR TEL:

APPLICATOR EMAIL:

NOTES:

NOTES:

NOTES:

NOTES:



GEOSHIELD Verification Report



AREA SURVEYED: Infills - Gridlines K-G1 & K-O & Stair Well

SITE CONDITIONS:

WEATHER: Sunny

TEMPERATURE: 6c

MEMBRANE TEMPERATURE: N/a

RELATIVE HUMIDITY: N/a

TIME: 11:00-12:30

REPORT NUMBER: 003

DATE: 13/01/2022

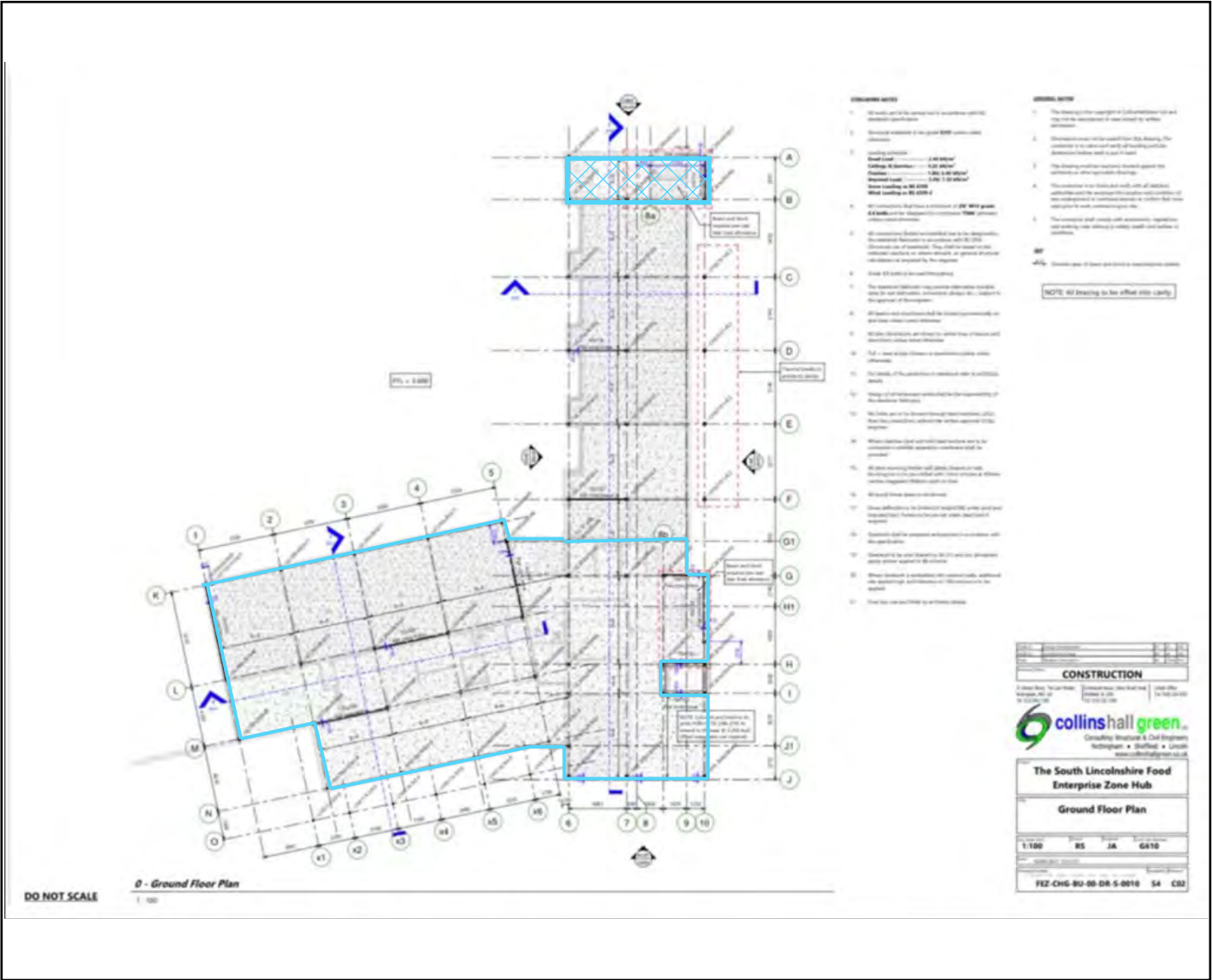
ACCOMPANIED Lee and Andy (PAG)



GEOSHIELD Verification Report



VERIFICATION LAYOUT



Overview of verified infills highlighted in Blue

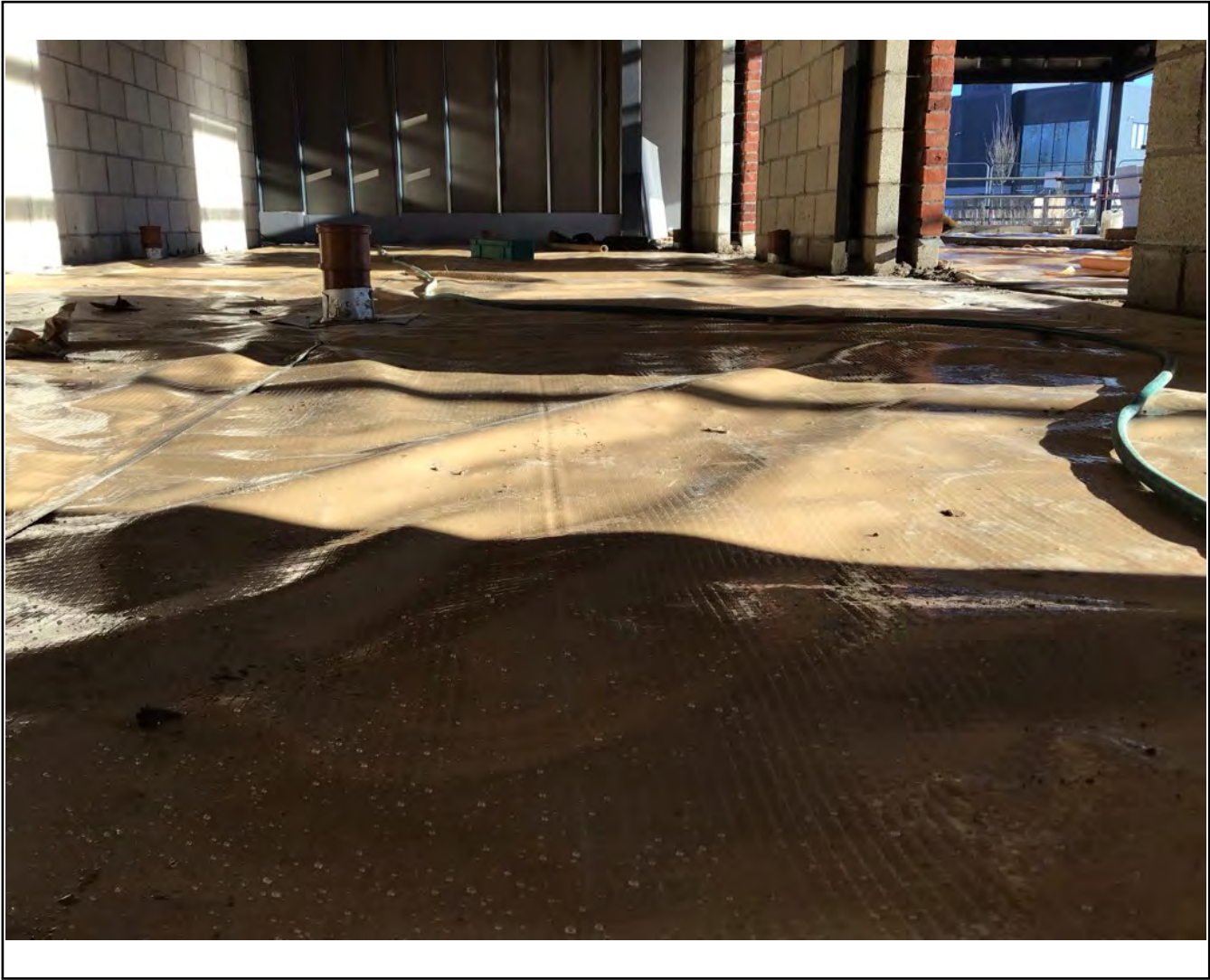
Infills - Gridlines K-G1 & K-O & Stair well



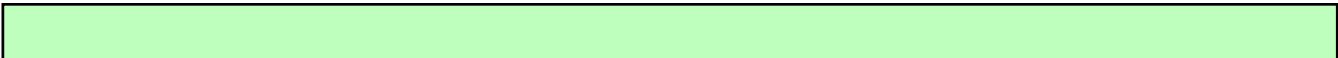
GEOSHIELD Verification Report



OVERVIEW PHOTOGRAPHS



Overview of verified area

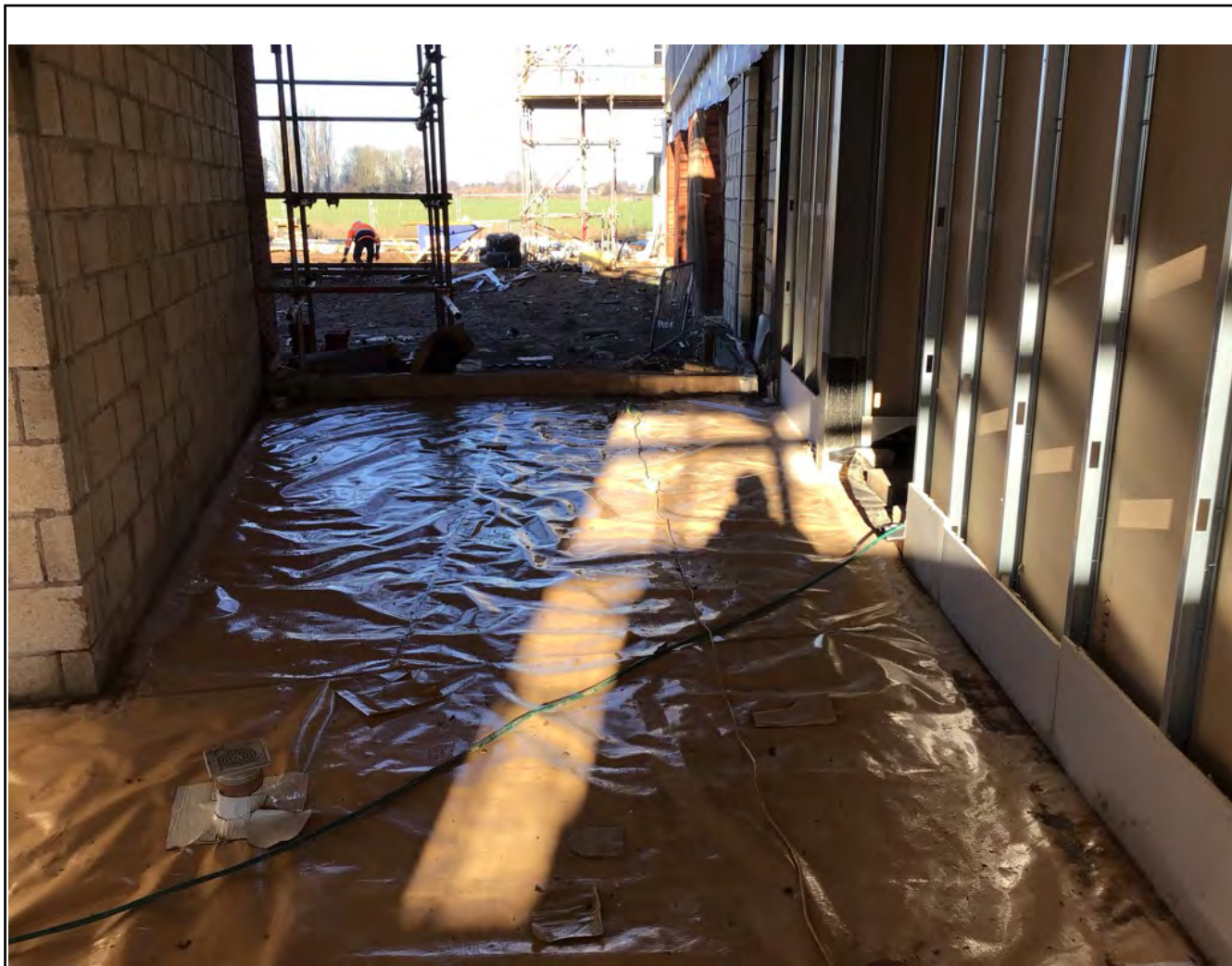




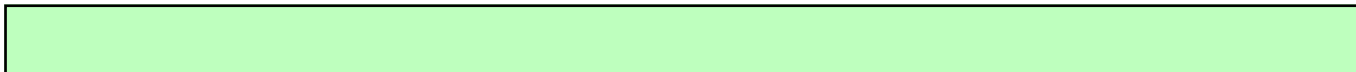
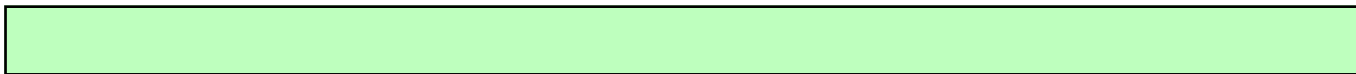
GEOSHIELD Verification Report



OVERVIEW PHOTOGRAPHS



Overview of verified area





GEOSHIELD Verification Report

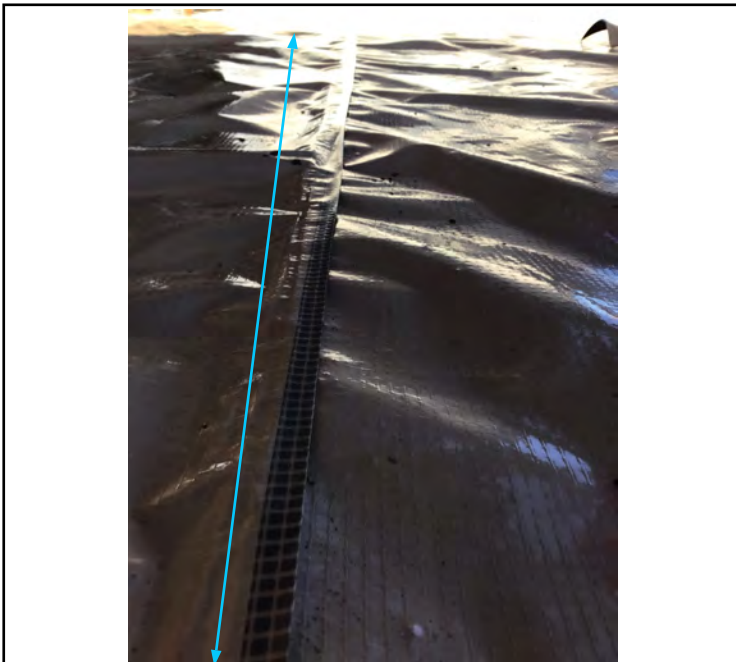
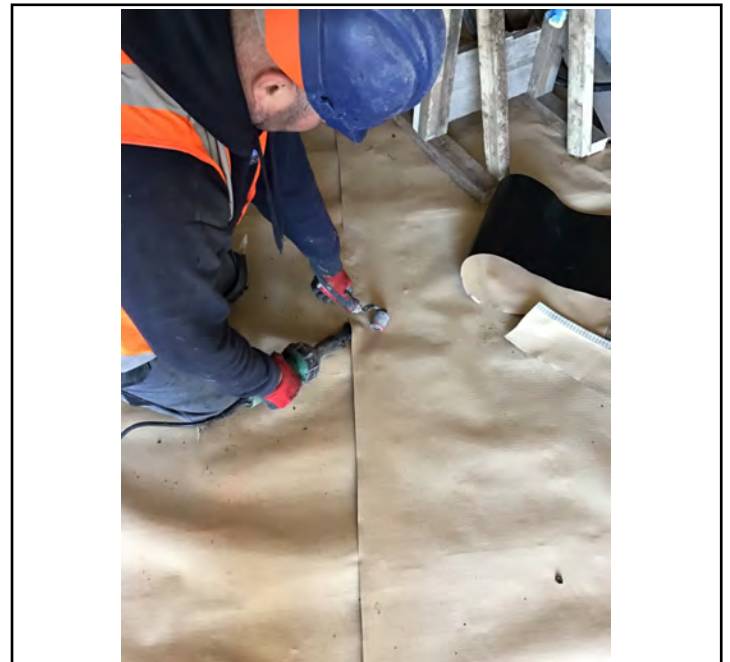


VERIFICATION ITEM ONE

LOCATION/GRID LINE: Infills - Gridlines K-G1 & K-O & Stair well

NOTES: Welded Lap Joints

The first photograph below shows an overview of a welded lap which has been welded using an extrusion welder. Overlaps have been created a minimum of 100mm and a hot air leister and roller have been used to weld the overlaps and form a continuous



barrier. The second photo shows a PAG installer forming a welded lap joint.

GEOSHIELD Verification Report

VERIFICATION ITEM ONE



The photograph above shows a pick and probe test carried out to a welded lap of the PAG Monarflex Reflex Super installed to the infills. A complete barrier has been achieved with only one fault found. This was remediated on site.

Verified in accordance with CIRIA 735.



GEOSHIELD Verification Report



VERIFICATION ITEM TWO

LOCATION/GRID LINE: Infills - Gridlines K-G1 & K-O & Stair well

NOTES: Sealed Pipe Penetrations

All pipe penetrations across the verified area have been sealed using PAG SAGM.

Sections of self adhesive have been cut and a hot air leister has been used to activate the black bitumen side. The sections have then been applied 150mm vertically to the



pipe and then returned 150mm to the membrane, overlaps have been created using this method with a top hat cut from self adhesive (acceptable alternative to a preformed top hat) to complete the detail.

GEOSHIELD Verification Report

BGA
British Gas Association



VERIFICATION ITEM TWO



A thorough pick and probe test on all pipe penetrations returned no faults with the materials installed to manufacturers specification.



GEOSHIELD Verification Report



ADDITIONAL PHOTOGRAPHS



Sealed stair well



Sealed stair well



Sealed stair well



Overview of verified area



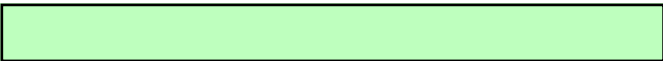
GEOSHIELD Verification Report



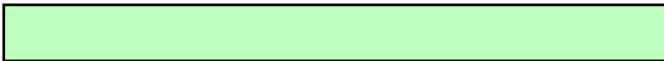
ADDITIONAL PHOTOGRAPHS



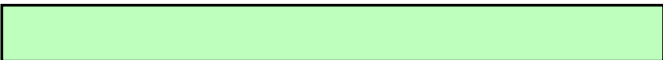
Leister and roller used during install



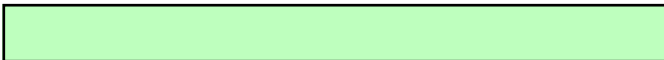
Infill terminated to perimeter membrane



Fault found on welded lap



Remediation of lap joint

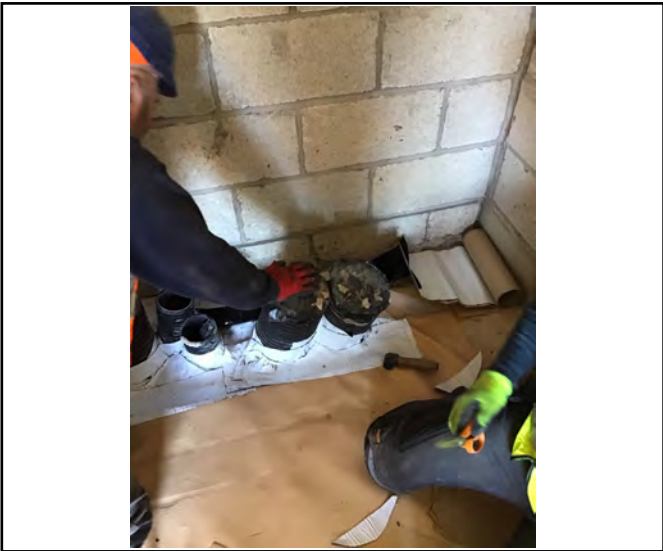




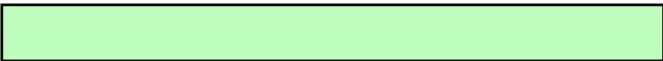
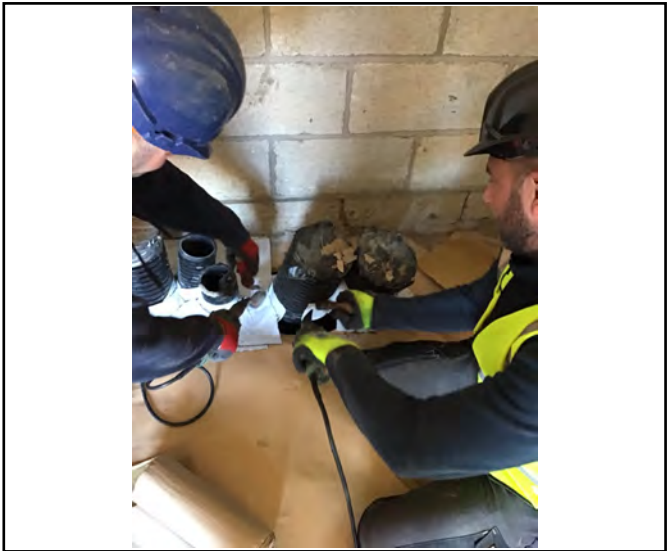
GEOSHIELD Verification Report



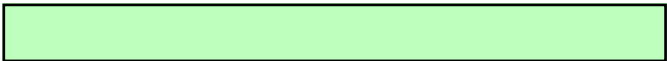
ADDITIONAL PHOTOGRAPHS



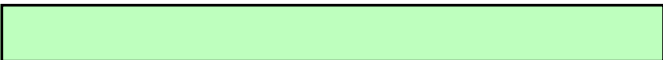
Installers sealing pipe cluster



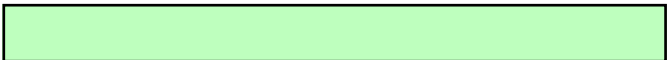
Installer sealing pipe cluster



Air brick in perimeter



Overview of verified area





GAS MEMBRANE TESTING

VISUAL: ☒ YES ☐ NO SMOKE TEST: ☒ YES ☐ NO

COMPRESSED AIR: ☒ YES ☐ NO DILECTIC ☒ YES ☐ NO

DESTRUCTIVE: ☒ YES ☐ NO OTHER: ☒ YES ☐ NO

Testing checklist attached: ☒ YES ☐ NO

Gridline/Plot Sign off

[illegible]



GEOSHIELD Verification Report



VERIFICATION SUMMARY

Visit 003 to this project was to verify the membrane installation to the Infills of Gridlines K-G1 & K-O. PAG Monarflex Reflex Super has been across the verified area with overlaps formed, the overlaps have been welded using a hot air leister and roller creating a 40mm weld. All pipe penetrations have been sealed using PAG SAGM. A thorough pick and probe test was carried out due to on street parking and no faults were identified. All materials installed to manufacturers specification.

Installed in accordance with BS 8485:2019.

Verified in accordance with CIRIA 735.

GEOSHIELD SIGNATURE:

DATE: 13/01/2022