



GEOSHIELD

Verification Report



PROJECT REFERENCE:

GEO101947

REPORT NUMBER:

002

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



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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



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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:

☐



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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

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APPLICATION TEAM LEADERS

APPLICATOR NAME:

COMPANY:

APPLICATOR TEL:

APPLICATOR EMAIL:

APPLICATOR NAME:

COMPANY:

APPLICATOR TEL:

APPLICATOR EMAIL:

NOTES:

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AREA SURVEYED: Infills - Gridlines B-I/6-10.

SITE CONDITIONS:

WEATHER: Rain

TEMPERATURE: 10c

MEMBRANE TEMPERATURE: N/a

RELATIVE HUMIDITY: N/a

TIME: 08:30-10:30

REPORT NUMBER: 002

DATE: 07/12/2021

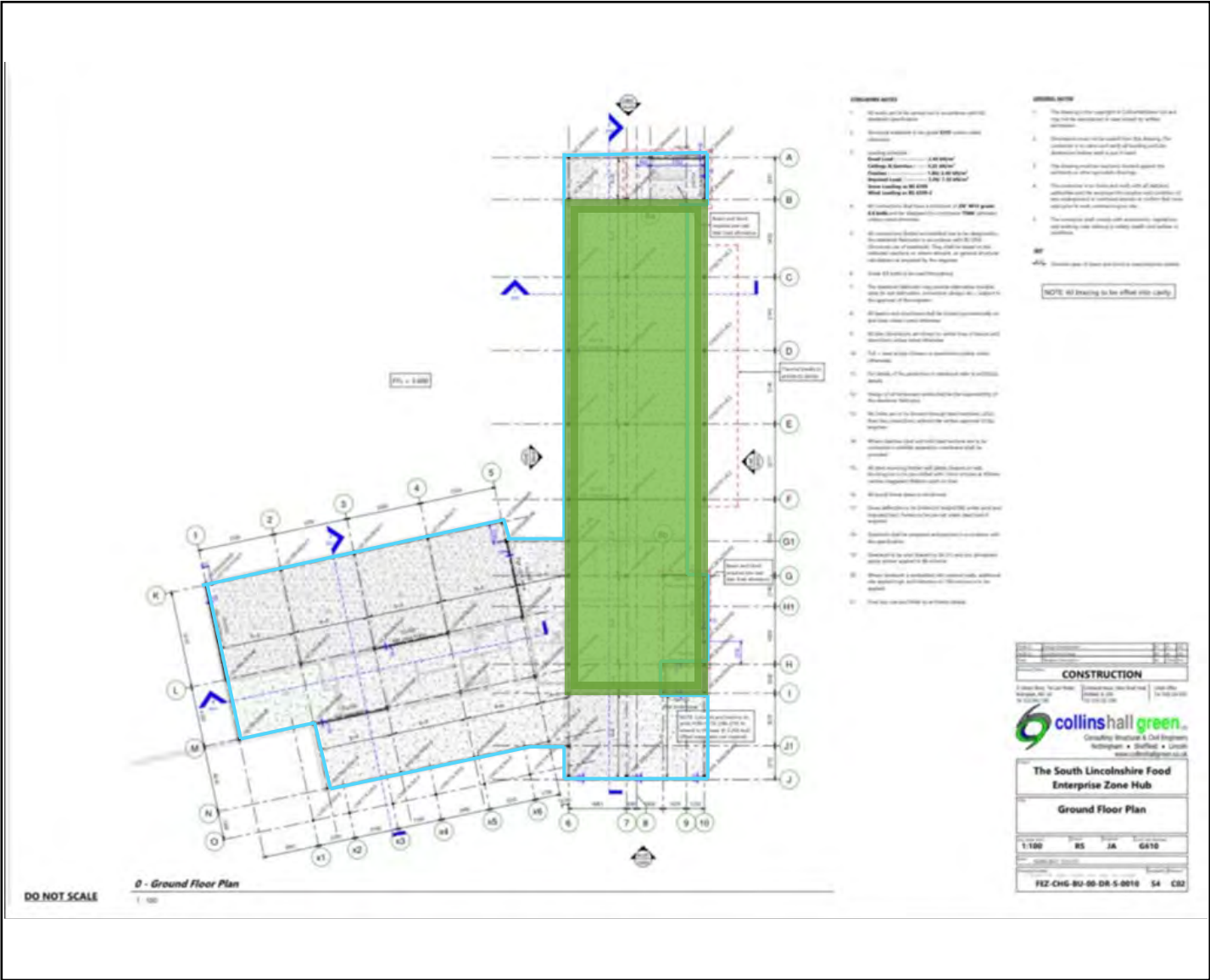
ACCOMPANIED Matt Evans (PAGEo Technical)



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VERIFICATION LAYOUT



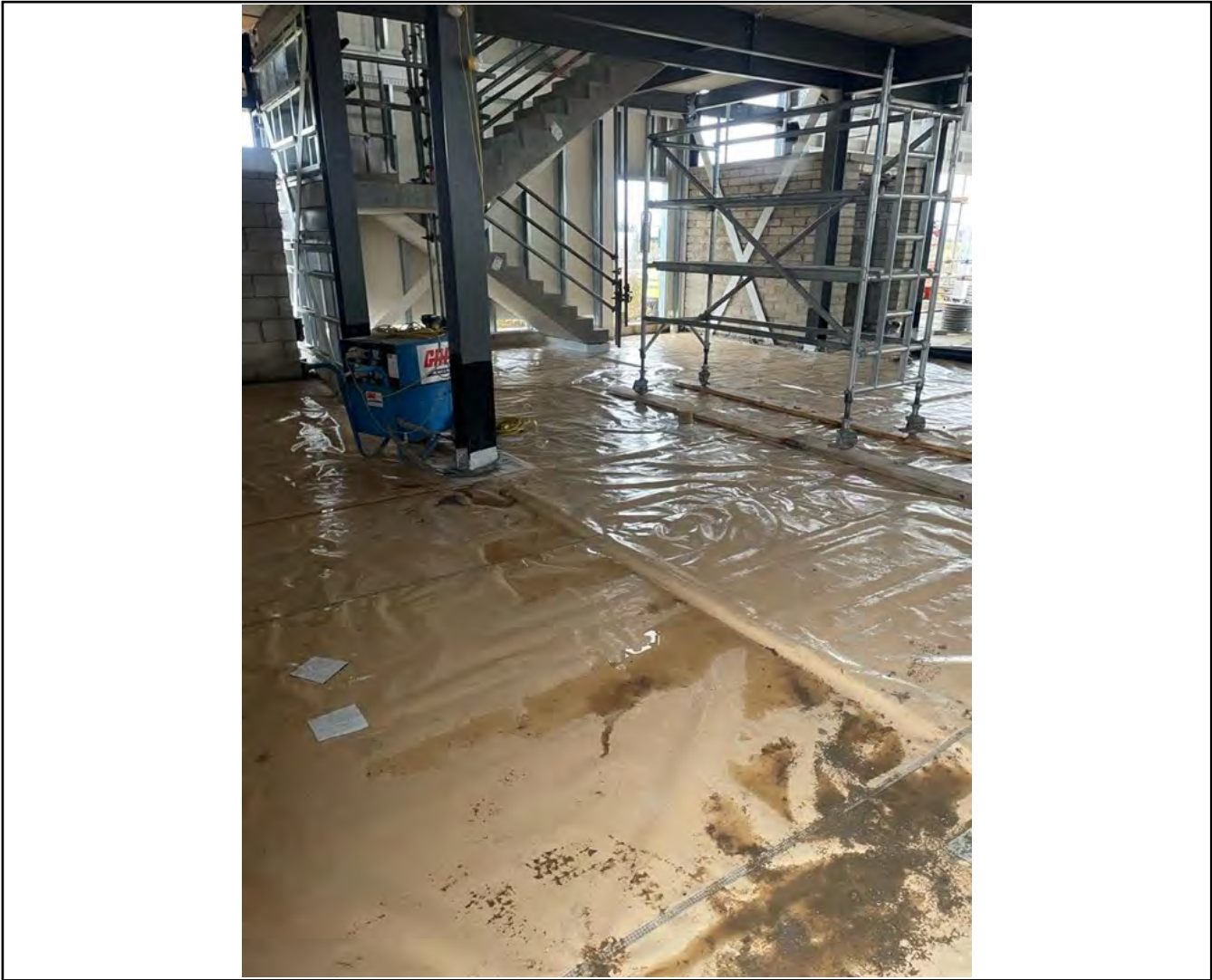
The area above highlighted in green shows where the installers have completed the installation of PAG Monarflex Reflex Super to the infills and where verification took place during this visit.



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OVERVIEW PHOTOGRAPHS



The photograph above shows an overview of a room verified during this

visit.



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OVERVIEW PHOTOGRAPHS



The photograph above shows an additional room where the PAG Monarflex

Reflex Super has been installed and where verification took place during this

visit.



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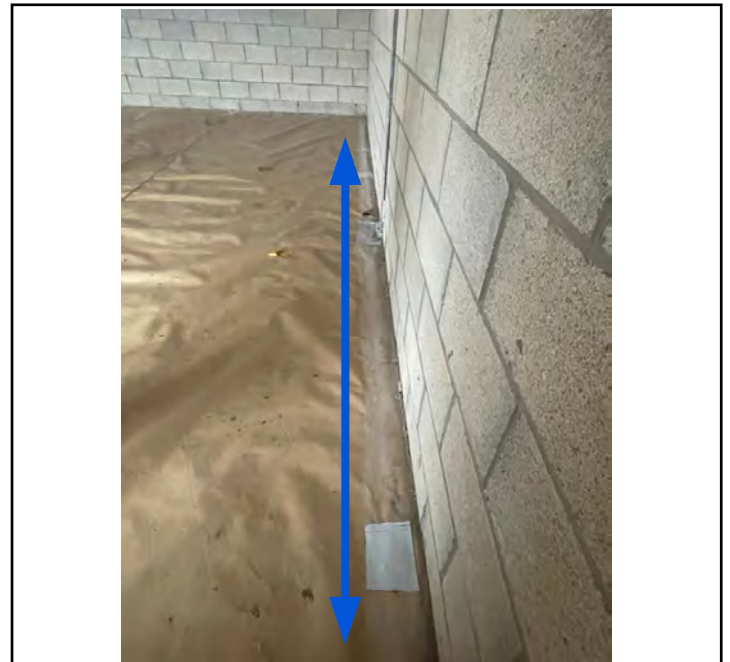


VERIFICATION ITEM ONE

LOCATION/GRID LINE: Infills - Gridlines B-I/6-10.

NOTES: Installation of PAG Monarflex Reflex Super.

The first photograph below shows an overview of a welded lap which has been welded using an extrusion welder. The installer have achieved a sufficient lap and a strong weld is present.



The second photograph above shows an overview of a welded lap using the hot air leister and roller to weld the newly installed membrane to the previously installed membrane.

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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. The installers have achieved a strong weld and any faults were rectified during this visit.

Verified in accordance with CIRIA 735.



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VERIFICATION ITEM TWO

LOCATION/GRID LINE: Infills - Gridlines B-I/6-10.

NOTES: Pipe penetrations and steel columns sealed.

The photographs below shows examples of sealed pipe penetrations and steel columns. The installers have first cut the membrane tight around all details to minimise any gaps which need to be sealed using the PAG SAGR.



The installers have then used a gas blow torch to aid in the adherence of the PAG SAGR to ensure there are no gaps or air bubbles and a strong seal has been achieved.

No faults or defects were identified.

Installed in accordance with BS 8485:2019.

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VERIFICATION ITEM TWO



The photograph above shows a pick and probe test carried out to a sealed pipe penetration which has been sealed using PAG SAGR. A strong seal has been achieved using a gas blow torch to aid in adherence.

Verified in accordance with CIRIA 735.



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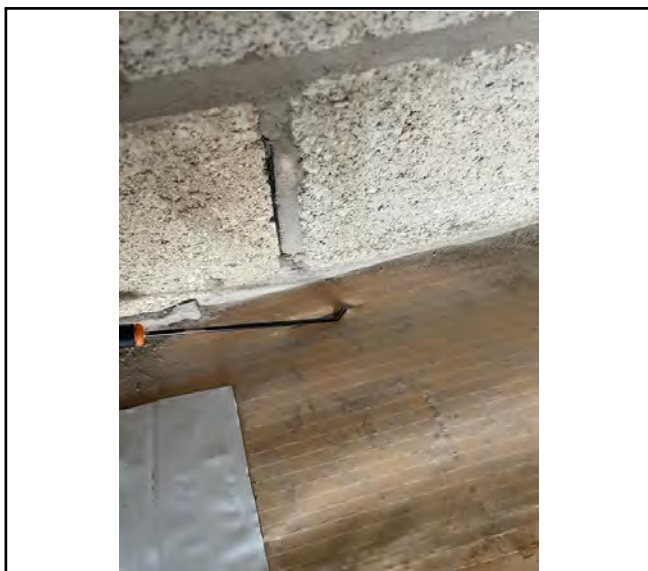
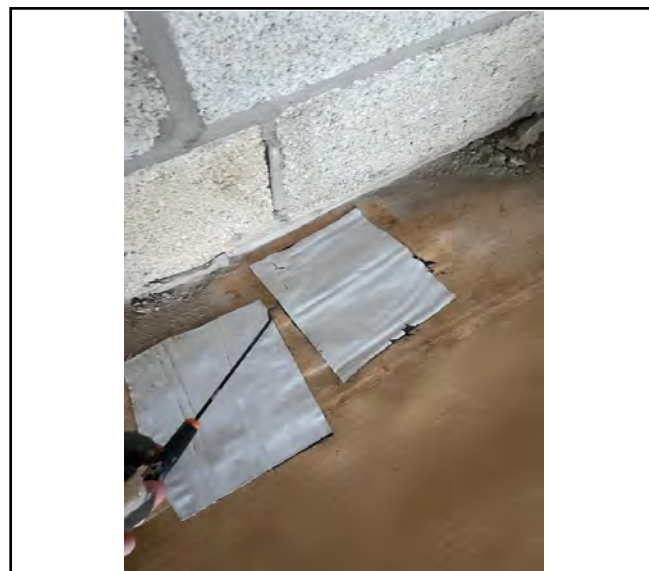


VERIFICATION ITEM THREE

LOCATION/GRID LINE: Infills - Gridlines B-I/6-10.

NOTES: Faults identified.

The first photograph below shows a fault identified during this site visit. The previously installed PAG Monarflex Reflex Super to the perimeters has been left exposed for a while and damage has been caused to the membrane.



To ensure these faults have been remediated the installers have used patches of the PAG SAGR to seal all holes in the PAG Monarflex Reflex Super. A gas blow torch has been used to aid in the adherence of the SAGR.

Verified in accordance with CIRIA 735.



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VERIFICATION ITEM THREE

LOCATION/GRID LINE: Infills - Gridlines B-I/6-10.

NOTES: Faults identified continued.

The first photograph below shows a previously sealed and verified steel column. Since the perimeters were signed off damage has occurred to this particular steel column as annotated below.



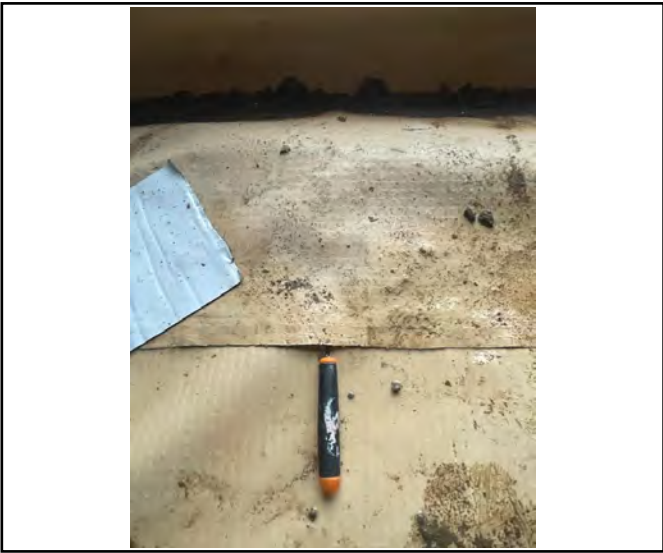
The installers have rectified this issue using an additional patch of the PAG SAGR to ensure any tears in the self adhesive have been sealed. The pick and probe test carried out to the sealed detail identified no faults or defects.



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ADDITIONAL PHOTOGRAPHS



Miss weld identified using pick and probe method.



Additional patch repairs carried out.



Additional patch repairs carried out using PAG SAGR.



Gas blow torch used to aid in adherence of PAG SAGR.



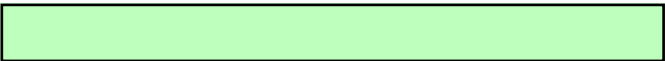
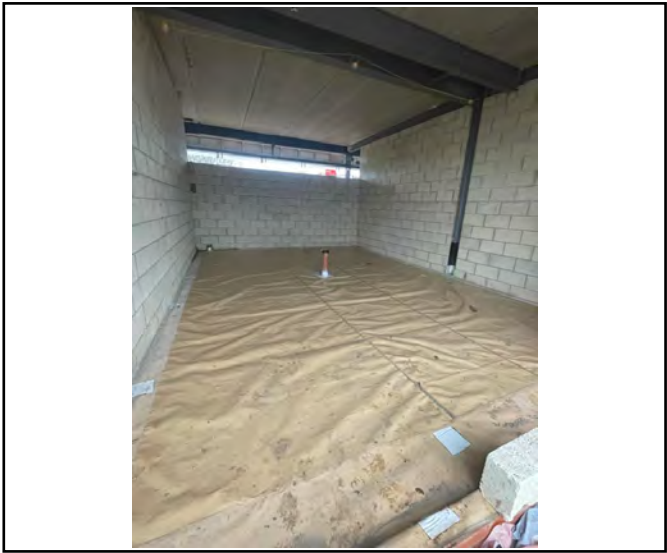
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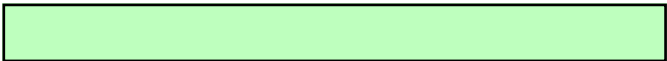
ADDITIONAL PHOTOGRAPHS



Additional overview photograph.



Additional overview photograph.



Additional pick and probe test carried

out to welded lap.



Pick and probe test carried out to hot

air leister and roller welded lap.



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]



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VERIFICATION SUMMARY

This was the second visit to site where verification of the installation of the

PAG Monarflex Reflex Super to infills was required. All laps of the gas membrane

have been welded using an extrusion welder of a hot air leister and silicone roller.

Any details such as pipe penetrations or steel columns have been sealed using

PAG SAGR. The previously installed and signed off PAG Monarflex Reflex Super

to the perimeters had small amount of damage which was patch repaired using

SAGR. All faults identified have been mentioned in this report and were rectified

during this site visit. No outstanding remediations.

Installed in accordance with BS 8485:2019.

Verified in accordance with CIRIA 735.

GEOSHIELD SIGNATURE:

DATE: 07/12/2021