



GEOSHIELD Verification Report



PROJECT REFERENCE: GEO101204

REPORT NUMBER: Justification

PROJECT: Signature Homes - Holmfirth

PROJECT ADDRESS: New Mill Road

Holmfirth

HD9 7LT

MEMBRANE SPECIFICATION: Gas membrane to specification BS8485 2019

Installed to CIRIA 735

Visqueen GR DPC

Visqueen Standard Gas Barrier

Visqueen Double sided butyl tape

Visqueen GR Foil Tape

Visqueen GR lap Tape

Visqueen Pro Detailing Tape



**GEOSHIELD
Verification
PLAN**



SPECIFICATION:

[Redacted]

[Redacted]

[Redacted]

INFORMATION INCLUDED:

[Redacted]

Material specification technical data sheets

Geotechnical Survey Report - PR/AJK/39141/007

Site Layout - Final

Phase Plan

1602-110 House Type - Venice - Roma - Florence

1602-111 House Type - Tuscant

1602-300 Draft Foundations

1602-301 Draft Foundations

1451-700a Typical Tanking Detail

[Redacted]

[Redacted]

[Redacted]

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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VERIFICATION OFFICER: Chris Ingham

VERIFICATION COMPANY: GeoShield Limited

Icon Business Park, 4100 Park Approach

Thorpe Park, LEEDS

West Yorkshire

LS15 8GB

CONTACT NUMBER:

EMAIL ADDRESS:

ORDER NUMBER:

PER VISIT: YES:



NO:



PROJECT: YES:



NO:





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CLIENT DETAILS

CLIENT CONTACT: John Hewitt

CONTACTS ROLE: Signature Homes Ltd

MOBILE PHONE:

EMAIL ADDRESS:

CLIENT CONTACT:

CONTACTS ROLE:

MOBILE PHONE:

EMAIL ADDRESS

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APPLICATION TEAM LEADERS

APPLICATOR NAME: John Hewitt

COMPANY: Signature Homes

APPLICATOR TEL:

APPLICATOR EMAIL:

APPLICATOR NAME: Adrian Needle

COMPANY: Signature Homes

APPLICATOR TEL:

APPLICATOR EMAIL:

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AREA SURVEYED: Plots 14-21

SITE CONDITIONS:

WEATHER: N/A

TEMPERATURE: N/A

MEMBRANE TEMPERATURE: N/A

RELATIVE HUMIDITY: N/A

TIME: N/A REPORT NUMBER: Justification

DATE: 22/06/2022

ACCOMPANIED N/A



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VERIFICATION LAYOUT



This report explains why Plots 14-21 have been signed off and verified.



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LIMITATIONS

SURVEY AREA: Plots 14-21

RESTRICTIONS AND LIMITATIONS: There has been some confusion with regards the sign off of Plots 14-21 perimeters. The verifier was new to the job and expressed some errors in the installation that were not all errors. Butyl tape was missing from the DPC cavity tray and door thresholds were sealed with the floor infill.



1. Image from Report 001 shows the DPC being used as the cavity tray. It states there is no double sided butyl tape in the cavity tray. It is not GR DPC because it's black on both sides. The GR DPC is lower in the wall.

2. Report 004. Door threshold not sealed but there is sufficient GR DPC to seal (circled)



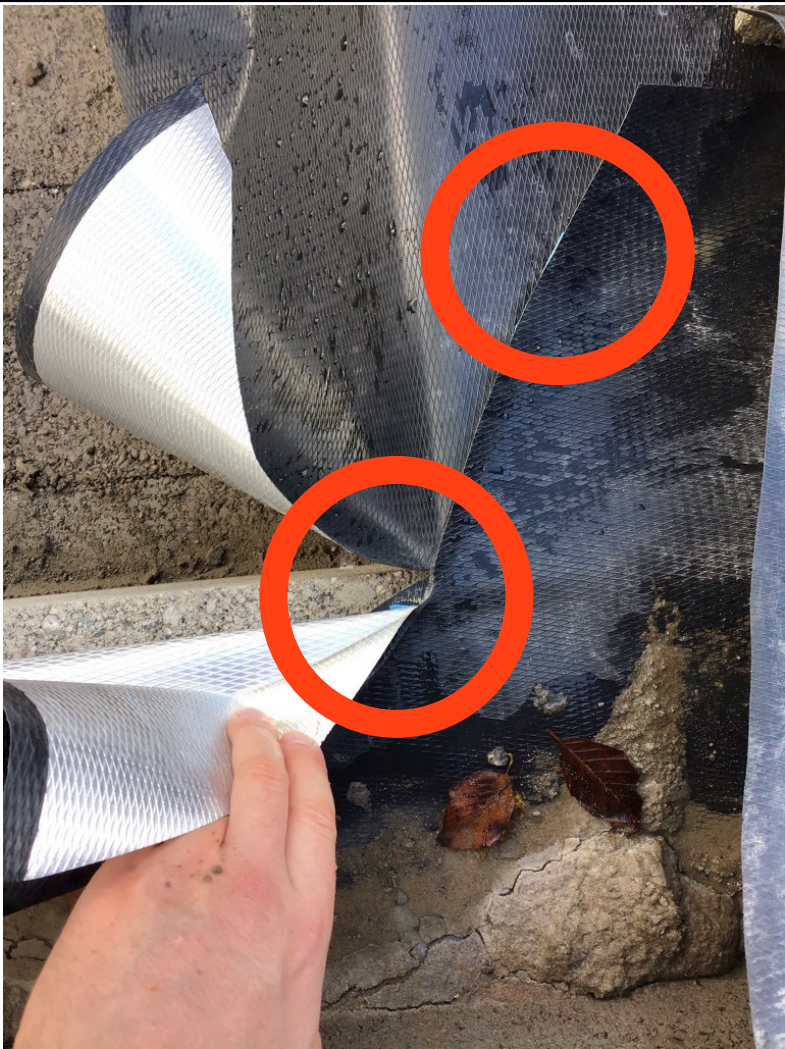
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LIMITATIONS

SURVEY AREA: Plots 14-21

RESTRICTIONS AND LIMITATIONS: Corner details were not sealed and reinforced with GR SAM. But double sided butyl tape was installed with in the joints of GR DPC. On closer inspection they are sealed running through the walls but not down the vertical face. Therefore it was deemed a retro fit solution acceptable.





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LIMITATIONS

SURVEY AREA: Plots 14-21

RESTRICTIONS AND LIMITATIONS: Photos taken from Report 002 and the report

states no butyl tape inside the joints. The only areas that are not sealed in these

photos are the DPC that has been used as the cavity tray (black on both sides). GR

DPC is black and silver and runs straight through the wall lower down - as shown

below in the same photos from Report 002.



1. GR DPC installed as one piece through the wall.

2. GR DPC running straight through the wall - no double sided butyl tape

required to seal the joint as there is no joint to seal. Temporary door frame for

setting out the wall does not penetrate through the GR DPC.



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LIMITATIONS

SURVEY AREA: Plots 14-21

RESTRICTIONS AND LIMITATIONS: When looking at the GR DPC double sided butyl tape is seen inside the joints and pick and probe was carried out. Joints that ran straight through the wall were sealed with double sided butyl tape with sufficient GR DPC sticking out of the wall to seal the membrane from inside as per a retro fit installation.



1. Butyl tape installed in between the GR DPC in a joint running straight through the wall.

2. Butyl tape installed inside joints in the GR DPC.



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VERIFICATION ITEM ONE

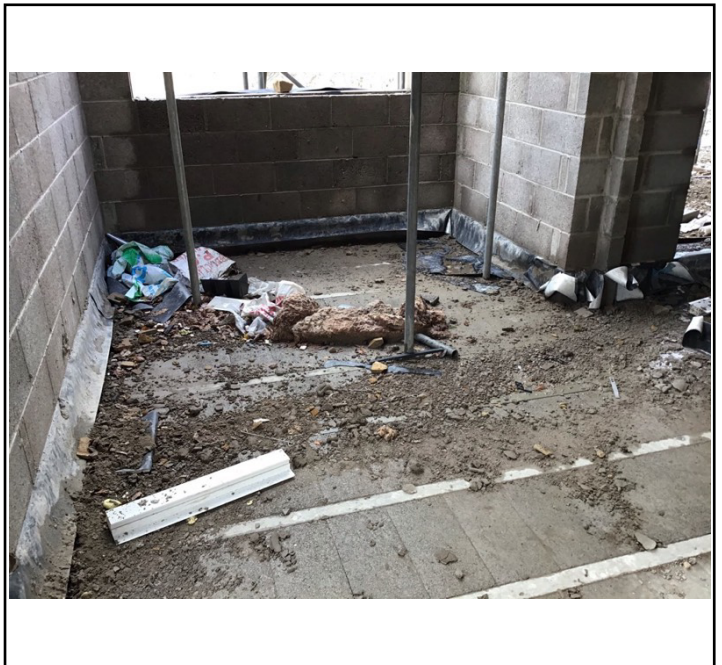
LOCATION/GRID LINE: Plots 14-21

NOTES: The verifier was correct that corner details have not been

reinforced with GR SAM. This should have been carried out and verified prior to the

walls being built. On closer inspection, the joints were sealed with double sided butyl

tape so it was deemed sufficient to achieve sufficient seal from inside the property.

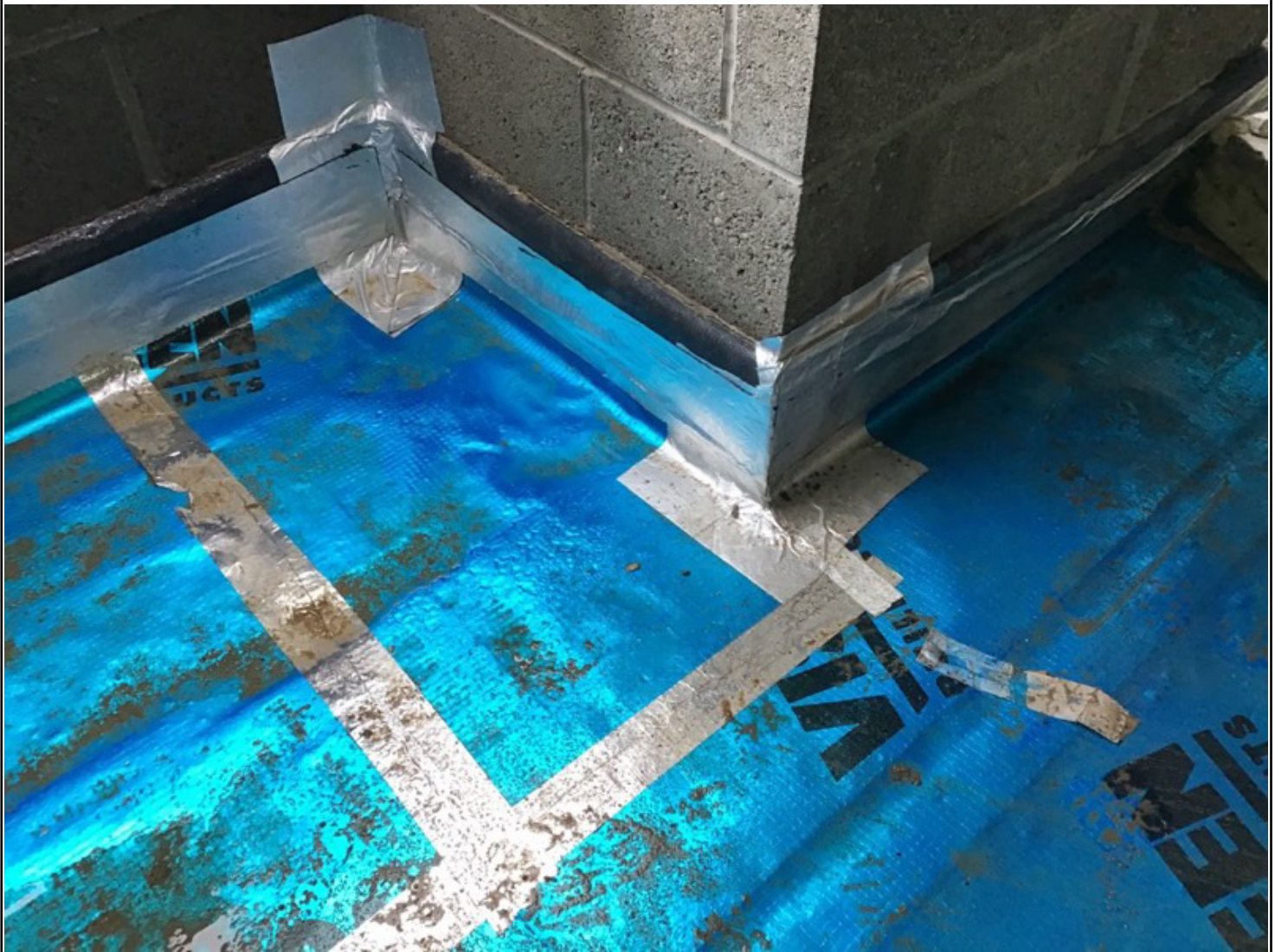


1. GR DPC tailed hanging out to form sufficient seal inside the building (Report 03).

2. Enough GR DPC extruding to form sealed corner detail (Report 04).

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VERIFICATION ITEM ONE



3. The corner details were not sealed with GR SAM as per NVQ Level 2. However,

butyl tape was installed in side the joints in the GR DPC running through the wall.

Geoshield confirmed the installation could be finished in accordance with CIRIA 795

and seal the corner details internally.



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VERIFICATION ITEM TWO

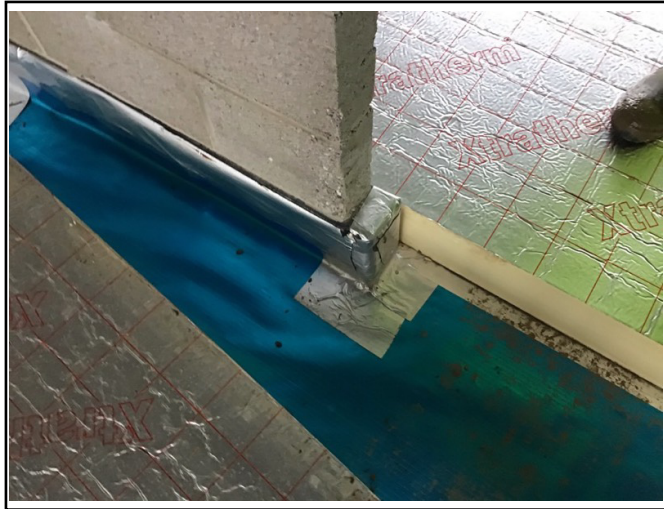
LOCATION/GRID LINE: Plots 14-21

NOTES: Photos below show how the extruding GR DPC was

sealed from inside each property to form a suitable seal when combined with the

butyl tape inside the cavity wall. Geoshield have deemed this seal suitable and

sufficient for sign off.



1. Example of corner detail sealed from inside the property.

2. Example of corner detail sealed from inside the property.

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VERIFICATION ITEM TWO



3. Geoshield have signed off the installation as all door thresholds have

been sealed with the floor infill. All corners details addressed and sealed to

the GR DPC as per CIRIA 795. Passed and verified.



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VERIFICATION SUMMARY

This report is to clarify why Geoshield have signed off the installation of Plots

14-21. Double sided butyl tape was installed in between joints in the GR DPC

and was only missing from joints in the DPC Cavity tray. Corner details were not

fully sealed and reinforced with GR SAM and were built in at the time of

inspection. As butyl tape was inside the joints Geoshield deemed acceptable

to seal with GR SAM from inside the property in accordance with CIRIA 795.

Combined with the sub floor void ventilation this deemed as a safe solution.

Geoshield have verified the installation of the ground gas membrane to

Plots 14-21.

GEOSHIELD SIGNATURE:

DATE: 22/06/2022