



GeoShield Verification Report 1



PROJECT REFERENCE:

GEO106129

PROJECT ADDRESS:

27 Newhall Road,
Prescot
L34 1AQ

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
JUTA GP1 SAM
Vent Mat



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NAME OF SURVEYOR:

Liam England

VERIFICATION COMPANY:

GeoShield Limited

COMPANY ADDRESS:

Icon Business Centre

4100 Park Approach, Thorpe Park

Leeds

LS15 8GB

CONTACT NUMBER:

07551 259023

EMAIL ADDRESS:

lengland@geoshield.co.uk



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CLIENT DETAILS

CLIENT CONTACT:	Leo Piri
CONTACTS ROLE:	Director
MOBILE PHONE:	07551 622839
EMAIL ADDRESS:	leo@jcwgm.co.uk

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:



GeoShield Verification Report



INSPECTION AREA(S)

Conservatory - Full Line Out

SITE CONDITIONS

WEATHER: Sunny

TEMPERATURE: 12°C

TIME: 09:50 - 11:00

DATE: 15.05.2026

REPORT NUMBER: 001

ACCOMPANIED BY:



GeoShield Verification Report



VERIFICATION INSPECTION INFORMATION

GEO 106129 **Report No: 01**

Date: 15-05-26 **9:50 - 11:00**

Site: 27 Newhall Road, Prescot

Client: JCW Gas membranes

Installers: Matty Harris - JCW

Weather: Sunny 12°C

Plot/Area: Conservatory

Membrane

- Vent mat
- JUTA GPl Gas Barrier
- JUTA GPl SAM

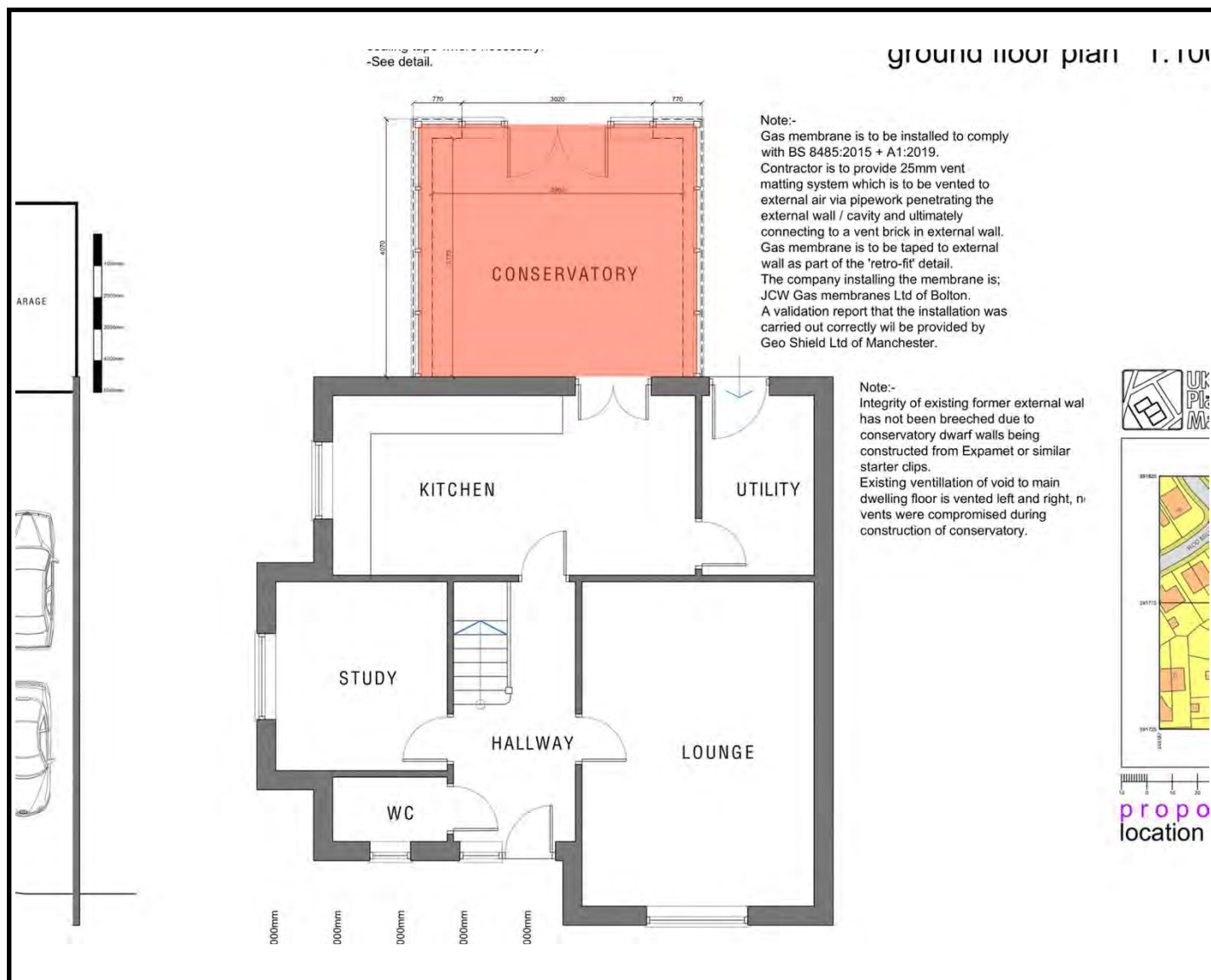
The images above provide details of today's verification inspection visit to site, including the gas membrane(s) used for the installation.

VERIFICATION LAYOUT



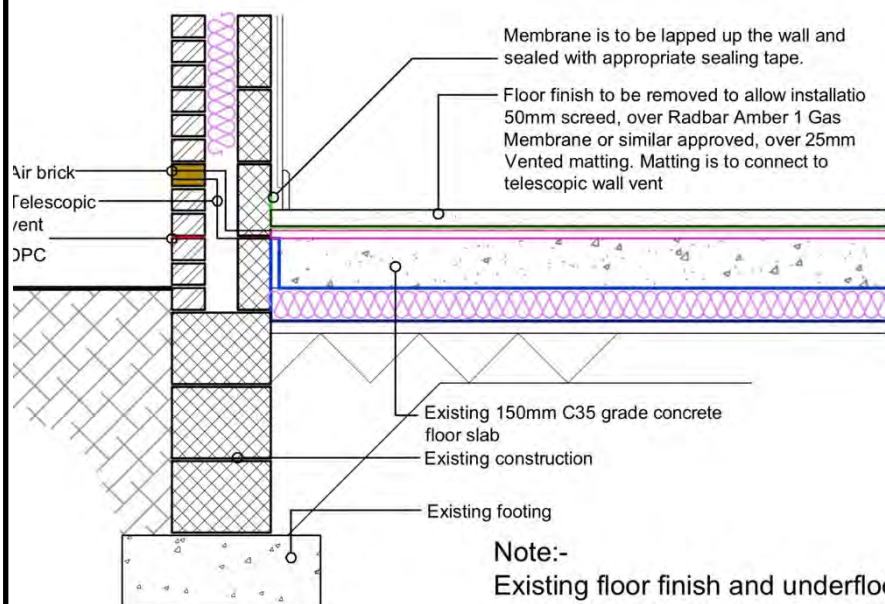
The photograph above shows a plan layout of the site for this project.

VERIFICATION LAYOUT



The area highlighted in red shows the Conservatory where the verification inspection of the JUTA GP1 Gas Barrier complete line out installation took place today.

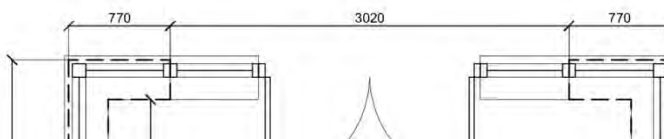
DESIGN DETAIL



Note:-

Existing floor finish and underfloor heating is to be removed to allow the installation of a gas proof membrane, 0.5mm thick low density polyethylene "Radbar Amber 1" gas membrane manufactured by Capital Valley Plastics Limited. This low permeability membrane is approved for use in BS8485:2015 and NHBC applications up to 'Amber 1'. Membrane is to be laid over the slab and taped to the wall, use compatible sealing tape where necessary.

-See detail.



Note:-
Gas membrane with BS

The drawing above displays the detailed design on how the JUTA GP1 Gas Barrier should be installed.

OVERVIEW



The above image shows the Conservatory where the verification inspection of the JUTA GP1 Gas Barrier complete line out installation took place today.

OVERVIEW



The above image shows the Conservatory where the verification inspection of the JUTA GP1 Gas Barrier complete line out installation took place today.

GeoShield Verification Report



VERIFICATION ITEM ONE

AREA INSPECTED: Conservatory - Full Line Out

INSPECTION DETAILS: Installation of Vent mat, Periscope Vents & Air Bricks



NOTES:

A pressure relief system, in the form of vent matting has been installed on a solid concrete slab within the Conservatory of 27 Newhall Road. The Vent Mat has been lined out across the slab and has been terminated at two side elevations, where the vent mat has been connected onto two T-junctions.



NOTES:

The T-junctions were then connected onto the periscope vents which run through the cavity to the external face of the brickwork.

GeoShield Verification Report

VERIFICATION ITEM ONE



The periscope vents are connected to the external face of the brickwork with an air brick. This completes the pressure relief system.

Thorough visual inspections revealed no issues throughout.
Tested and verified in accordance with CIRIA 735.



GeoShield Verification Report



VERIFICATION ITEM TWO

LOCATION/GRID LINE: Conservatory - Full Line Out

Installation of JUTA GP1 Gas Barrier



NOTES:

A complete line out of the JUTA GP1 Gas Barrier has been installed across the footprint of the Conservatory, upon a suitable substrate. The JUTA GP1 Gas Barrier has been lined out on top of the pressure relief system vent matting. The JUTA GP1 Gas Barrier has been installed tightly to all four perimeter walls and



NOTES:

sealed in a retrofit detail. Prior to the implementation of the retrofit detail, the perimeter walls were primed using JUTA GP Primer and once cured, JUTA GP1 SAM was applied upon the primed surfaces, returning onto the newly installed JUTA GP1 Gas Barrier. All lap joints between the adjacent sheets of JUTA GP1

GeoShield Verification Report

VERIFICATION ITEM TWO



Gas Barrier have been overlapped a minimum of 100mm, conforming to manufacturer's specifications, and heat welded using a hot air tool and a silicone roller with adequate pressure applied to ensure a continuous gas resistant seal is achieved. All lap joints were subjected to thorough visual inspections and mechanical point stress testing.

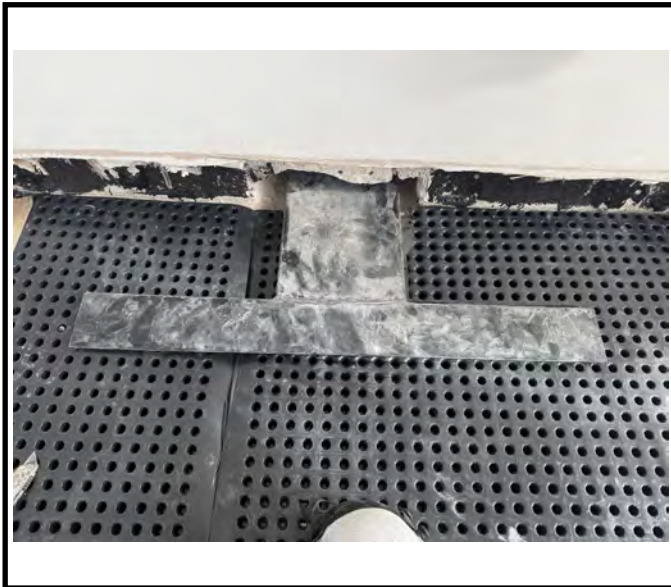
No faults or defects were identified at the time of the inspection.



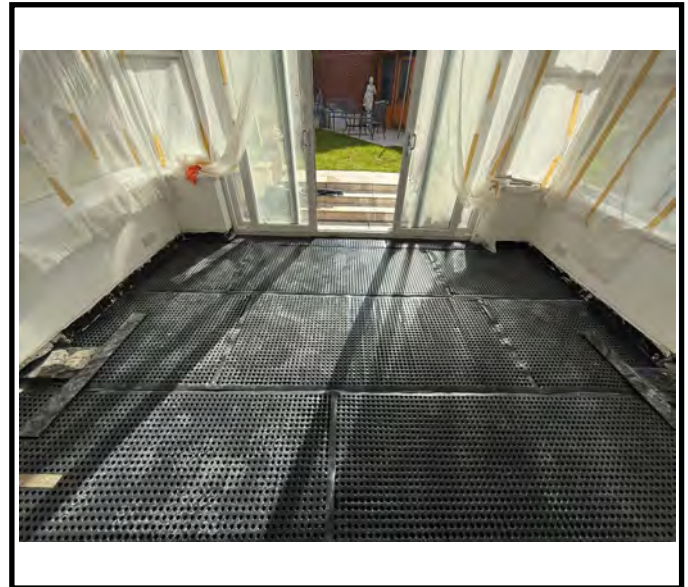
GeoShield Verification Report



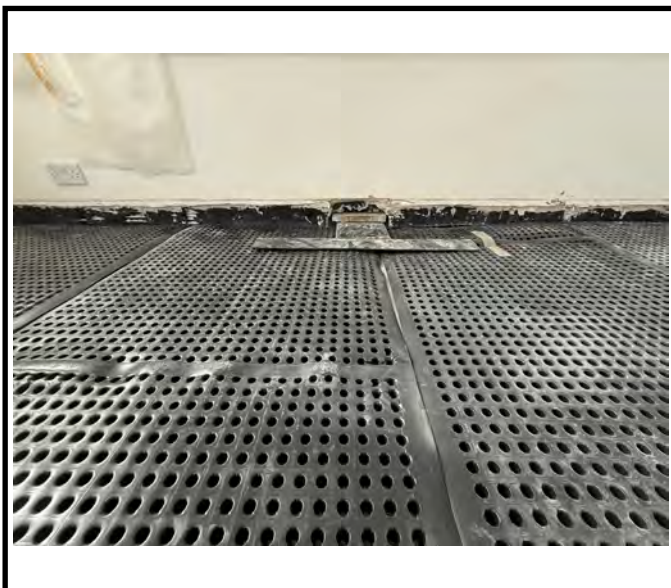
ADDITIONAL PHOTOGRAPHS



The vent mat connected onto a T-junction, leading to a periscope vent within the cavity.



The vent mats installed throughout the conservatory.



The vent mat connected onto a T-junction, leading to a periscope vent within the cavity.



An air brick installed around the external perimeter of the Conservatory.



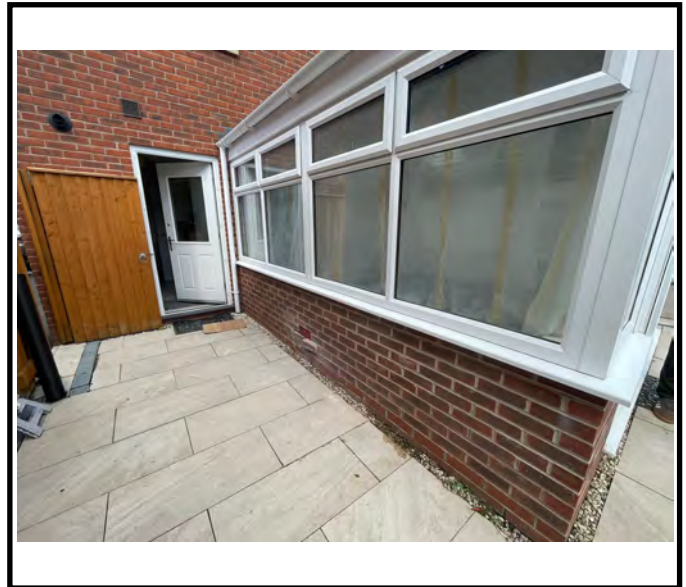
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ADDITIONAL PHOTOGRAPHS



Air bricks installed around the external perimeter of the Conservatory.



Air bricks installed around the external perimeter of the Conservatory.



GeoShield Verification sign off stickers used throughout.



GeoShield Verification sign off stickers used throughout.



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GAS MEMBRANE TESTING

VISUAL /PICK & PROBE: 

AIR LANCING: 

DESTRUCTIVE: 

INERT GAS TEST:

SMOKE TEST: 

DIELECTRIC:

OTHER (PLEASE SPECIFY):

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[illegible]



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REMEDIATION LOG

[illegible]



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VERIFICATION SUMMARY

This was the first and only visit to the site where verification was required for the installation of JUTA GP1 Gas Barrier to the Conservatory belonging to 27 Newhall Road.

A pressure relief system, in the form of vent matting has been installed on a solid concrete slab and terminated at two side elevations, where the vent mat has been connected onto two T-junctions. The T-junctions were then connected onto the periscope vents which run through the cavity to the external face of the brickwork.

The JUTA GP1 Gas Barrier has been lined out upon the vent mats, with all overlaps between the adjacent sheets of JUTA GP1 Gas Barrier successfully welded using a hot air tool and silicone roller, creating continuous gas resistant seals throughout.

The JUTA GP1 Gas Barrier has been terminated to the perimeter walls in a retrofit detail using JUTA GP1 SAM. Prior to application of the JUTA GP1 SAM, the perimeter walls have been primed to aid in the adhesion.

Thorough visual inspections, supported by mechanical point stress testing were conducted throughout the verification process.
No faults or defects were identified at the time of the inspection.

Is the project ready for handover?

Yes

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

GEOSHIELD SIGNATURE

L. England

DATE:

15-May-2026