GeoShield Verification Report 02

PROJECT REFERENCE:	GEO104603 R02
PROJECT:	Phase 2, Fleet Road, Holbeach
PROJECT ADDRESS:	

50 Fleet Road, Holbeach

PE12 8LA

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.

Juta GP1 Gas Membrane

Juta GP SAM

GeoShield Verification Report

NAME OF SURVEYOR:	Lee Adams
VERIFICATION COMPANY:	GeoShield Limited
	Icon Business Centre
	4100 Park Approach
	Thorpe Park
	Leeds
CONTACT NUMBER:	07795 994 117
EMAIL ADDRESS:	ladams@geoshield.co.uk
ORDER NUMBER:	To be confirmed

PER VISIT:	YES:	✔	NO:		PROJECT:	YES:	✔	NO:	

GeoShield Verification Report

CLIENT DETAILS

CLIENT CONTACT:	Ricky Cooper
CONTACTS ROLE:	
MOBILE PHONE:	
EMAIL ADDRESS:	ricky.c@omega.is.co.uk

CLIENT CONTACT:	
CONTACTS ROLE:	
MOBILE PHONE:	
EMAIL ADDRESS	
NOTES:	

GeoShield Verification Plan

APPLICATOR'S DETAILS

APPLICATOR NAME:	Shane
COMPANY:	Omega Lining Solutions
APPLICATOR TEL:	
APPLICATOR EMAIL:	

APPLICATOR NAME:	Tom
COMPANY:	Omega Lining Solutions
APPLICATOR TEL:	
APPLICATOR EMAIL:	

NOTES: The name of the installers are unknown at this point so the installers will either be identified at the pre-verification meeting or the first site visit.

At least one member of each team group will have a NVQ Level 2 qualification in the gas membrane installation.

GeoShield Verification Report

AREA SURVEYED:

Plots 1, 2, 3, 4, 5 & 6 - Full Line Outs

SITE CONDITIONS:

WEATHER:

Sunny

TEMPERATURE:

18ºc

RELATIVE HUMIDITY:

N/A

MEMBRANE TEMPERATURE:

N/A

TIME: 11:00 - 12:30

DATE: 12.07.2024

REPORT NUMBER: 002

ACCOMPANIED BY:

GeoShield Verification Report

Verification Layout



The photograph above shows a plan layout of the site. The area highlighted in blue shows where the verification inspection took place on site today.

GeoShield Verification Report

OVERVIEW



The photograph above displays an overview of the area where today's verification inspection took place on site.

GeoShield Verification Report

OVERVIEW



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VERIFICATION ITEM ONE

LOCATION/GRID LINE: Plots 1, 2, 3, 4, 5 & 6

Installation of Juta GP1 Gas Membrane



NOTES:

A complete line out of the Juta GP1 Gas Membrane has been installed across the footprint of all referenced plots. The Juta GP1 Gas Membrane has been lined across the entirety of the plots, including the internal party walls and external cavities to ensure continuity throughout.



NOTES:

All lap joints between the adjacent sheets of Juta GP1 Gas Membrane have been overlapped a minimum of 100mm and heat welded using a hot air leister and a silicone roller with adequate pressure applied to ensure a continuous weld is achieved. Installed in accordance with manufacturer's specifications.

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VERIFICATION ITEM TWO

LOCATION/GRID LINE: Plots 1, 2, 3, 4, 5 & 6

Corners and Thresholds



NOTES:

A number of corners and thresholds throughout the referenced plots have been sealed as per manufacturer's specifications and design guidelines. This has been achieved using Juta GP SAM. The Juta GP SAM has been cut to minimise voided areas and gaps across the footprint of the referenced plots, each



NOTES:

corner and threshold junction has been reinforced by heating strips of Juta GP SAM and placing them into position around each corner, onto the Juta GP1 Gas Membrane. Firm rolled pressure is applied with a silicone roller to aid in the adhesion ensuring the Juta GP SAM has fully bonded.

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VERIFICATION ITEM TWO



A pick and probe test was conducted upon all edges of Juta GP SAM to validate that a gas tight seal had been achieved between the Juta GP SAM and the Juta GP1 Gas Membrane.

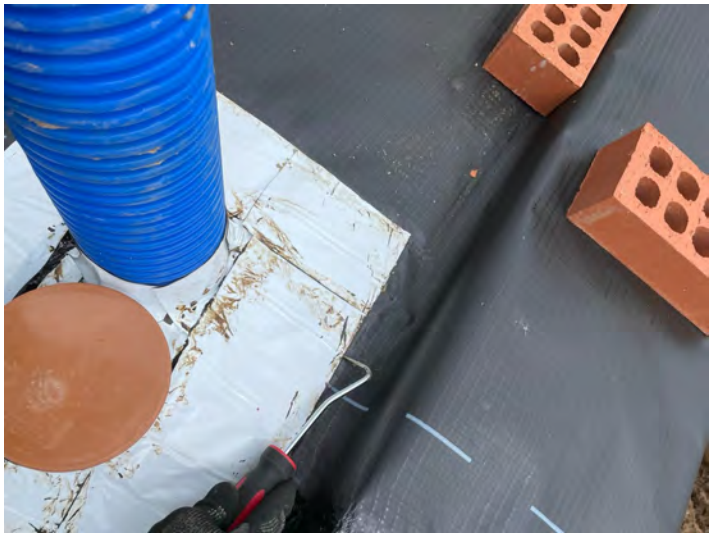
GeoShield Verification Report

VERIFICATION ITEM THREE

LOCATION/GRID LINE: Plots 1, 2, 3, 4, 5 & 6

Pipe Penetrations





NOTES:

A number of pipe penetrations throughout the referenced plots have also been sealed as per manufacturer's specifications and design guidelines. This has been achieved using Juta GP SAM. The Juta GP1 Gas Membrane has been cut to minimise voided areas and gaps across

NOTES:

the footprint of the area. Each pipe penetration has been reinforced by heating strips of Juta GP SAM. The strips of Juta GP SAM are then placed intricately in a top hat formation around the pipe penetration and onto the Juta GP1 Gas Membrane. Heat and rolled pressure are applied to activate the bitumen backing

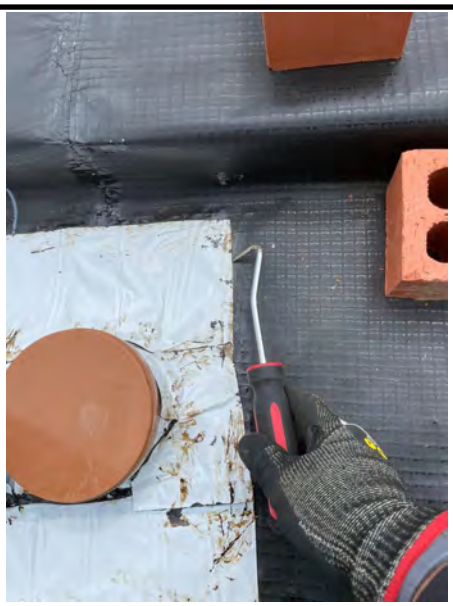
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VERIFICATION ITEM THREE



creating a secure bond between the pipe penetration and the Juta GP1 Gas Membrane. All pipe penetrations throughout the referenced plots were subjected to thorough mechanical point stress testing. This was passed and verified in accordance with CIRIA 735.

ADDITIONAL PHOTOGRAPHS



A pick and probe test being conducted upon a welded lap joint.



A sealed pipe penetrations.



Corners sealed with Juta GP SAM.



Demonstrating that the overlap is at least the 100mm minimum.

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GAS MEMBRANE TESTING

VISUAL /PICK & PROBE:	✔	SMOKE TEST:	
AIR LANCING:	✔	DILECTIC:	
DESTRUCTIVE:		OTHER:	
INERT GAS TEST:		SPECIFY:	

Testing checklist attached: YES ✔ NO

Gridline/Plot Sign off

Gridline/Plot Sign off	Plots 7, 8, 9, 10, 11, 12 & 13	✔
Gridline/Plot Sign off	Plots 1, 2, 3, 4, 5 & 6	✔
Gridline/Plot Sign off		
Gridline/Plot Sign off		
Gridline/Plot Sign off		
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GEOSHIELD Verification Report

REMEDIATION LOG

Date	Nr	Remediation Description	Y/N
26/06/2024	001	Four faults were identified and remediated on site.	✔
21/07/2024	002	No faults or defects were identified during today's visit.	✔

GeoShield Verification Report

VERIFICATION SUMMARY

This was the second visit to the site where verification was required for the complete line out installation of Juta GP1 Gas Membrane to Plots 1, 2, 3, 4, 5 & 6.
All overlaps between the adjacent sheets of Juta GP1 Gas Membrane have been successfully welded using a hot air leister and silicone roller creating continuous welded joints throughout.
All details throughout the installation, such as pipe penetrations, corners and thresholds have been successfully sealed using Juta GP SAM, heated down to aid in the adherence.
Thorough mechanical point stress testing, as well as visual inspections were conducted throughout the visit today.

No faults were identified during today's visit.

The installation has been conducted to a good NVQ 2 standard and in accordance with manufacturer's specifications.

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

GEOSHIELD SIGNATURE:



DATE: 11-Jul-2024