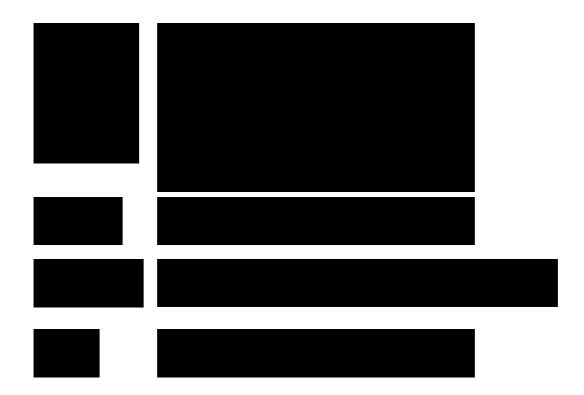


Validation Letter





DOCUMENT CONTROL SHEET



Prepared by.....

Charlotte Grisby

Graduate Geo-environmental Engineer





Checked and Approved by.....

Hilary Ilsley BSc (Jnt Hons) MSc CBiol MSB SQP SiLC QP Associate Geo-environmental Scientist

FOR AND ON BEHALF OF JNP GROUP

Date: 18 October 2023 **Document Issue Record**

Rev	Date	Description	Prepared	Checked	Approved
P01	18.10.2023	First Issue	CG	HI	HI

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jnpgroup.co.uk

Your Ref:

Our Ref: M41977-JNP-XX-XX-RP-G-0021-P01 Chkd: CG

FAO Rafal Chodkowski

Berkeley Homes Itd Berkeley House Mill Lane Taplow Maidenhead SL6 OAG

18 October 2023

Dear Rafal

Re: Former Sunninghill Gas Works - Validation of Capping Layer for Plot 42 (Block C)

Introduction

JNP Group was instructed to validate the capping layer placed in the rear garden to Plot 42 (Block F) at the below development:

Bridge Road

Sunninghill

Ascot

SL5 9TB

hereinafter referred to as 'the site'. This report is subject to the limitations presented in Appendix A.

In accordance with the approved JNP Group Options Appraisal and Remediation Strategy Report (reference M41977 RE003 Rev G, 14th October 2019) the following verification was required:

design, depth, visual and chemical quality of the capping layer in landscaped areas;

verification of gas membranes installed in the properties and garages.

Verification Works Undertaken

Capping Layer

In accordance with the approved Materials Management Plan for the site, the topsoil and subsoil for the capping layer was imported from another Berkeley Group operated site at Warminster.

Chemical testing certificates for the topsoil and subsoil from the Warminster site were provided to JNP Group. JNP group had reviewed the results and deemed them as acceptable for use as capping materials across the site as they complied with the imported fill criteria specified in the agreed Options Appraisal and Remediation Strategy Report (reference M41977 RE003 Rev G, dated 14 October 2019).

JNP Group attended site on 7th July 2023 to verify that the capping material present at the site was suitable and complied with the requirements of the Options Appraisal and Remediation Strategy Report (reference M41977 RE003 Rev G, dated 14 October 2019) and MMP.

Within the rear garden, topsoil was present to a depth of 200 mm, this was underlain by 450 mm of subsoil, with the geotextile being present at 650 mm. The topsoil consisted of dark brown loamy slightly gravelly sandy SILT, underlain by orangish brown slightly gravelly, and in some cases slightly silty, fine and medium SAND

subsoil. All materials were sourced from Warfield. At the time of this visit the front garden was not complete, however, the same materials will be placed in this area.

The topsoil and subsoil material was free of any deleterious material (e.g. wire, glass, plastics, treated wood or textiles). Photographs taken from the plots are also given in Appendix B to this letter.

In accordance with the validation plan included in the agreed Remediation Strategy Report; one sample of subsoil (at a depth of 600 mm) was taken from a random location in the rear garden. The sample was scheduled for testing of asbestos, heavy metals, polycyclic aromatic hydrocarbons, aliphatic-aromatic petroleum hydrocarbons, pH and soil organic matter. The analysis was undertaken by i2, a UKAS and MCERTS accredited chemical testing laboratory.

The results confirmed there were no elevated concentrations of any of the analytes when compared to the imported fill criteria given in the Remediation Strategy.

Copies of the i2 testing certificates are included in Appendix C to this report.

Therefore, based on the above the capping materials within the landscaping area are considered acceptable and in line with the requirements of the agree Remediation Strategy requirements.

Gas Membrane

In line with the Validation Plan outlined in the agreed Options and Appraisal and Remediation Strategy Report (reference M41977 RE003 Rev G, 14 October 2019), the gas membranes installed in all properties and garages must:

Provides 2 points of protection providing it meets with the requirement of section 7.2.4 and Table 7 of BS8485:

Be suitable for CS2 protection and hydrocarbon resistant;

Installed by a suitably experienced and qualified individual;

A photographic record of the installation work will be kept by the installer;

Be verified as appropriate by a suitably qualified third party.

The gas membranes were installed by UK Membranes and verified by MEC Environmental Limited. MEC Environmental verified that a Visqueen HC Blok Membrane had been installed within the plots and garages and that the installers had the appropriate qualifications. MEC undertook a membrane installation inspection, which was deemed as acceptable. A copy of the MEC Environmental Ltd Validation Report is included as Appendix D.

From a review of the MEC Validation Report, JNP Group concur that a suitable membrane has been used to address the required CS2 and hydrocarbon protection and has been validated in accordance with the requirements of the Options and Appraisal and Remediation Strategy Report (reference M41977 RE003 Rev G, 14 October 2019)

Conclusion

JNP Group can confirm that the capping layer placed in the garden to Plot 42 (Block F) and the gas membrane installed to these plots, has been validated appropriately and meets with the requirements of the JNP Group Options Appraisal and Remediation Strategy Report (reference M41977 RE003 Rev G, dated 14th October 2019).

Yours sincerely,



Hilary listey

Associate

Appendix A Limitations



Introduction

This report is confidential and has been prepared solely for the benefit of the client and those parties with whom a warranty agreement has been executed, or with whom an assignment has been agreed. Should any third party wish to use or rely upon the contents of the report, written approval must be sought from JNP Group; a charge may be levied against such approval. JNP Group accepts no responsibility or liability for the consequences of this document being used for any purpose or project other than for which it was commissioned, and: this document to any third party with whom and agreement has not been executed.

Any comments given within this report are based on the understanding that the proposed works to be undertaken will be as described in the introduction and the information referred to and provided by others and will be assumed to be correct and will not have been checked by JNP Group and JNP Group will not accept any liability or responsibility for any inaccuracy in such information.

Any deviation from the recommendations or conclusions contained in this report should be referred to JNP Group in writing for comment and JNP Group reserve the right to reconsider their recommendations and conclusions contained within. JNP Group will not accept any liability or responsibility for any changes or deviations from the recommendations noted in this report without prior consultation and our full approval.

The details contained within this report reflect the site conditions prevailing at the time of investigation. JNP Group warrants the accuracy of this report up to and including that date. Additional information, improved practice or changes in legislation may necessitate this report having to be reviewed in whole or in part after that date. If necessary, this report should be referred back to JNP Group for re-assessment and, if necessary, re-appraisal.

This report is only valid when used in its entirety. Any information or advice included in the report should not be relied upon until considered in the context of the whole report. Whilst this report and the opinion made herein are correct to the best of JNP Group' belief, JNP Group cannot guarantee the accuracy or completeness of any information provided by third parties.

The report represents the finding and opinions of experience geotechnical and geo-environmental engineers. JNP Group does not provide legal advice and the advice of lawyers may also be required.

It should be noted that the following were not included as part of the agreed scope of works with the client: detailed ecological surveys and assessment; groundwater monitoring and sampling; geotechnical requirements etc.

JNP Group has provided advice and made recommendations based on the findings of the work undertaken, however this is subject to the approval / acceptance by the relevant Regulatory Authorities.

Objectives

The work undertaken to provide the basis of this report comprised a study of available documented information from a variety of sources (including the Client), together with (where appropriate) a brief walk over inspection of the site. The opinions given in this report have been dictated by the finite data on which they are based and are relevant only to the purpose for which the report was commissioned.

The information reviewed should not be considered exhaustive and has been accepted in good faith as providing true and representative data pertaining to site conditions. Should additional information become available which may affect the opinions expressed in this report, JNP Group reserves the right to review such information and, if warranted, to modify the opinions accordingly. It should be noted that any risks identified in this report are perceived risks based on the information reviewed; actual risks can only be assessed following a physical investigation of the site.

Remediation and Verification Reports Limitations

The risk assessment and opinions provided, inter alia, take into consideration currently available guidance relating to acceptable contamination concentrations; no liability can be accepted for the retrospective effects of any future changes or amendments to these values.

Where intrusive investigations have been undertaken they have been designed to provide a reasonable level of assurance on the conditions. Given the discrete nature sampling, no investigation technique is capable of identifying all conditions present in all areas. The number of sampling points and the methods of sampling and testing do not preclude the existence of localised "hotspots" of contamination where concentrations may be significantly higher than those actually encountered.

If costs have been included in relation to the site remediation these must be confirmed by a qualified quantity surveyor. The opinions given in this report have been dictated by the finite data on which they are based and are relevant only to the purpose for which the report was commissioned. The information reviewed from Third Party should not be considered exhaustive and has been accepted in good faith as providing true and representative data pertaining to site conditions. Should additional information become available which may affect the opinions expressed in this report, JNP Group reserves the right to review such information and, if warranted, to modify the opinions accordingly.

Whilst this report and the opinion made herein are correct to the best of JNP Groups' belief, JNP Group cannot guarantee the accuracy or completeness of any information provided by third parties.

Appendix B Photographs





Photograph 1: Plot 42 Rear Garden

Appendix C Chemical Testing Results







Hilary Ilsley JNP Midlands LLP

Portobello Way Warwick CV34 5GJ

Portobello House

i2 Analytical Ltd. 7 Woodshots Meadow, Croxley Green Business Park, Watford, Herts, **WD18 8YS**

t: 01923 225404 f: 01923 237404

e: reception@i2analytical.com

e: hilary.ilsley@jnpgroup.co.uk

Your order number:

Analytical Report Number: 23-44161

Project / Site name: Bridge Road Samples received on: 10/07/2023

Your job number: M41977 Samples instructed on/

Analysis started on:

Analysis completed by: 19/07/2023

10/07/2023

Report Issue Number: Report issued on: 19/07/2023

Samples Analysed: 3 soil samples

G1753



Dominika Warjan Reporting Specialist

For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are : soils - 4 weeks from reporting

leachates - 2 weeks from reporting waters - 2 weeks from reporting asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.





Analytical Report Number: 23-44161 Project / Site name: Bridge Road

-				
Your	Order	No:	G1753	

Lab Sample Number				2743141	2743142	2743143
Sample Reference	Plot 41 F 'S S	Plot 42 B SS	Plot 44 B TS			
Sample Number				13	14	15
Depth (m)	0.50	0.60	0.30			
Date Sampled	07/07/2023	07/07/2023	07/07/2023			
Time Taken				None Supplied	None Supplied	None Supplied
		듞	>			
	_	Limit of detection	Accreditation Status			
Analytical Parameter	Units	f de	creditat Status			
(Soil Analysis)	S	tec	atic			
		tion	ă			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	8.6	8.6	18
Total mass of sample received	kg	0.001	NONE	0.3	0.3	0.3
<u> </u>			<u>u</u> .			
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SPU	SPU	SPU
,				L. L	<u>.</u>	
General Inorganics						
pH - Automated	pH Units	N/A	MCERTS	8.2	7.9	8.3
Organic Matter (automated)	%	0.1	MCERTS	0.3	< 0.1	4.7
,						
Speciated PAHs						
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.09
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Total PAH						
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	< 0.80
Heavy Metals / Metalloids						
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	12	8.1
Barium (aqua regia extractable)	mg/kg	1	MCERTS	20	23	24
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.55	0.57	0.27
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	0.3	1.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	16	17	7.1
Copper (aqua regia extractable)	mg/kg	1	MCERTS	14	14	15
Lead (aqua regia extractable)	mg/kg	1	MCERTS	8.1	8.3	23
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	16	15	11
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
M B (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mg/kg	1	MCERTS	33	33	14
Vanadium (aqua regia extractable)	0 0					





Analytical Report Number: 23-44161 Project / Site name: Bridge Road Your Order No: G1753

2743141 2743142 Lab Sample Number 2743143 Sample Reference Plot 41 F TS Plot 42 B SS Plot 44 B TS Sample Number 13 14 15 Depth (m) 0.50 0.60 0.30 07/07/2023 07/07/2023 07/07/2023 Date Sampled Time Taken None Supplied None Supplied None Supplied imit of detection Accreditation Status Units Analytical Parameter (Soil Analysis) Monoaromatics & Oxygenates MCERTS Benzene μg/kg < 5.0 < 5.0-< 5.0-Toluene μg/kg MCERTS < 5.0 < 5.0-5 MCERTS Ethylbenzene μg/kg < 5.0 < 5.0~ < 5.0~ μg/kg 5 MCERTS < 5.0 < 5.0~ < 5.0~ p & m-xylene MCERTS o-xylene μg/kg 5 < 5.0 < 5.0~ < 5.0~ NONE

Petroleum	Hydrocarbons

MTBE (Methyl Tertiary Butyl Ether)

TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.1	NONE	< 0.10	< 0.10	< 0.10
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.1	NONE	< 0.10	< 0.10	< 0.10
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.1	NONE	< 0.10	< 0.10	< 0.10
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic > EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10

< 5.0

< 5.0~

< 5.0~

μg/kg

TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.1	NONE	< 0.10	< 0.10	< 0.10
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.1	NONE	< 0.10	< 0.10	< 0.10
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.1	NONE	< 0.10	< 0.10	< 0.10
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	10
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	NONE	< 10	< 10	10

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected





Analytical Report Number: 23-44161 Project / Site name: Bridge Road

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2743141	Plot 41 F TS	13	0.5	Brown sand with gravel.
2743142	Plot 42 B SS	14	0.6	Brown sand with gravel.
2743143	Plot 44 B TS	15	0.3	Brown loam and sand with gravel and vegetation.





Analytical Report Number : 23-44161 Project / Site name: Bridge Road

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

			1		
Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS





Analytical Report Number : 23-44161 Project / Site name: Bridge Road

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

	=======================================
Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

^{~ -} Quality control surrogate recovery outside of limits, other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and may be compromised.

Appendix D Gas Membrane Verification



MEC Environmental Ltd – Blackburn Technology Management Centre - Challenge Way - Greenbank Technology Park – Blackburn – BB1 5QB



Gas Membrane Installation
Validation Report
Berkley Homes
Cavindish Meads
Sunninghill
Ascot
Berkshire
SL5 9TB





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1. INTRODUCTION

1.1 Purpose

UK Membranes are installing a gas protection membrane to the aforementioned site. MEC Environmental Ltd (MEC) has been appointed by UK Membranes to carry out independent validation of the installation of the membrane on the site as per our terms of engagement. The frequency of independent inspections has been determined by the client, comprehensive CQA should be forwarded by the installer to cover any data gaps for areas that have not been subjected to independent inspections.

The **SOLE** purpose of the works undertaken by MEC Environmental is to provide independent inspections and a factual report as and when requested to assist the client in gaining regulatory approval with regards to the gas membrane installation. This is as per the scope of work section within our term's engagement.

1.2 Limitations

This report is limited to providing lines of evidence to the regulatory authority for the areas components inspected by MEC only in support of the discharging of the relevant planning conditions only and cannot be used or relied upon for any other purpose. No professional liability shall be extended to any other parties by MEC, the report should explicitly not be relied on by any future vendor or tenant as proof that the gas protection measures are sufficient for the site and functioning at the time of purchase or start of any tenancy. Gas protection systems are not solely reliant on the gas membrane as points are scored under BS8485 for the floor slab, membrane and venting, these components work collaboratively to provide a gas protection system. This is as per the conditions within our term's engagement.

The report has been provided on the assumption that no damage or works that may have compromised the components and integrity of the gas membrane have been made after our inspections, failure to report any such occurrences will invalidate any liability and render the report and contents invalid. This is as per the conditions within our term's engagement.

This report has been prepared in accordance with the best available practice and the relevant guidance documents listed below of which the author of the report was a contributor and member of the steering committees:

Mallett H, Wilson S, Corban M (2014) "Good practice on the testing and verification of protection systems for buildings against hazardous ground gases". CIRIA Report C735





1.3 Compliance with Regulation 7 of Building Regulations

Regulation 7 of the building regulations requires that building work shall be carried out in a workmanlike manner. Approved document 7 suggests installation can comply with the regulation if workmanship is such that, where relevant, materials are adequately mixed or prepared and applied, used or fixed so as to perform adequately the functions for which they are intended.

A reasonable standard may be demonstrated by:

Compliance with a standard and independent certification - The relevant standard for gas protection measures is BS8485:2015 +A1:2019, Table 7 of the standard requires that gas membranes are verified as per CIRIA C735.

Past experience – The installers qualifications are checked by MEC Environmental to ensure that the installation supervisor holds the NVQ Level 2 in gas membrane installations.

Integrity Testing methods. – are carried out as prescribed in CIRIA C735, unless stated elsewhere Frequency of Visits – MEC have not been employed to prepare a validation plan for this project, the frequency of visits is as per the instructions of the client, in essence MEC inspected the available membrane that could be inspected each time an inspection visit was requested. The area inspected on each visit is noted on the survey sheets in appendix 1. This report should be read in conjunction with the installers CQA report.

1.4 Method of Inspection (Per Visit)

All seams and non-seam areas of the available gas membrane were inspected/tested by the Validation Surveyor for identification of defects, protruding and penetrating objects, lack of subgrade support, overheating, holes, blisters, undispersed raw materials, scratches and gouges, and any sign of contamination by foreign matter.

Any portion of the gas membrane exhibiting a flaw or failing a visual inspection/testing was repaired. Several procedures exist for the repair of these areas. The final decision as to the appropriate repair procedure was agreed upon between the Validation Consultant and the Installer at the time of the repair and is noted in the survey sheets.

Major repairs are visually inspected/tested, repairs passing the inspection/testing were considered acceptable. In some cases minor repairs maybe carried out under contractor CQA and photographic evidence supplied to the verifier for inclusion in the report.





1.5 MEC Staff Competency

All site inspections have been carried out by suitably qualified staff as defined in CIRIA C735, the qualification held by all MEC inspection surveyors is either the NVQ Level 4 in gas protection verification or the NVQ Level 2 in gas membrane installation

The author of this report is also a CL:AIRE accredited Specialist in Gas Protection Verification (SGPV) and holds both the NVQ Level 2 in gas membrane installation and the NVQ Level 4 in gas protection verification.

1.6 Conclusion

During our inspections to the areas denoted in Appendix 1 (Site Surveys Sheets) we witnessed the installer carrying out the installation in a workmanlike manner, the materials were adequately prepared and applied, used and fixed so as to perform adequately the functions for which they are intended as per Regulation 7 of the building regulations. In instances were 100% of the installation has not been independently inspected/tested then this report should be read in conjunction with the gas membrane installers CQA records.

The installers all hold the NVQ Level 2 "Gas membrane Installations" qualification and as such are classed as a qualified and experienced installer. MEC Environmental have checked the CSCS Trade Cards of the installers, which confirms the holder has attained the qualification.



Director

MEC Environmental Ltd

Michael Corban S.G.P.V.





Appendix 1 - Site Survey Sheets

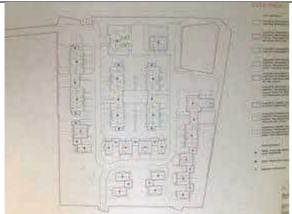
Housebuilder Name: Berkeley Homes.					Pic	Plot Number: Plots 4,5,6 & 7.				
Site Name: Cavino	dish Meads, Su	ınninghil	l, Ascot, Be	rkshire.		De	tached Ho	use		
						Se	Semi-Detached			
Postcode: SL5 9T	B.	Weathe	r: 13 °C Dry	/		Те	rrace			
Installer: UK Membranes.					Ap	artment B				
Surveyor: Adam N	/Icdermott					De	tached Ga	rage	•	
Date: 28/02/2022						Fla	it Over Ga	rage	1	
Full Footprint	Perimeter Onl	y 🛛 💮 I	nfill Only 🗌	Oth	er 🗌					
If other, please desc	cribe Full line ou	it to attac	hed garage	in plot 4.						
Item	Comments									
Sub-floor void	Inspected by N	иес 🗆	Not Inspec	ted by M	IEC co	ntractor a	dvised 🛚	١	N/A 🗌	
	Beam & Block	min 150r	mm 🖂							
	Strips of 25mn	n Geocon	nposite 🗌							
	Full Cover of 2	25mm Ge	ocomposite[
		_	as passed in as failed insp	-			-	_	yn ⊠	
Ventilation Inlets and Outlets	(Inlet/Outlet Ty	/pe)	Air Bricks 🛭	Ventbo	oxes [Not in F	Place at Tin	ne of	Inspection	
	Number of Ver	nts: Plot	4 = 9no & Pl	lots 5,6 8	k 7 = 5	no per plo	t.			
Materials used:	Membrane Na	me: Visq	ueen HC Bl	ok gas m	embra	ane.				
	Self-Adhesive						eformed To	•		
	Double Sided Others Please					Pre	eformed Co	rner	s 📙	
	Others Flease	LIST. IN/A	•							
Type of Joint	Tape Join	t 🗌	Auto We	eld 🗌		Hand W	eld 🖾		Extrusion	Weld 🗌
Testing/Inspection	⊠ Visu	ıal Inspec	tion	⊠ Air	Lance	(ASTM D	4437)		Tracer Gas	Test
. coming map contain	⊠P	robe Test	t (ASTM D44	437)		☐ Di	electric Te	st (N	ACE RP018	38-99)
· · · · · · · · · · · · · · · · · · ·										
Laps, welds and	Have all joints	passed to	esting prior t	o survey	or leav	/ing site?	⊠ Ye:	5	☐ No	□ N/A
detailing	Have all pipes passed testing prior to surveyor leaving s				ving site?	☐ Yes	5	☐ No	⊠ N/A	





	Have all corners passed testing prior to surveyor leaving site?		□No	□ N/A					
	Have all acoustic details passed testing prior to surveyor	☐ Yes	□No	⊠ N/A					
	leaving site?								
Surveyors Comme	ents								
N/A. Note: 2no pipe	penetrations per plot have been sealed during our inspection the	e remaining pi	pe penetra	tions will					
be done on the infill									
Result of Inspection The Plots/Area has passed inspection									
Signed: A	Adam Mcdermott Date: 28/0	2/2022							
_									

Photographs 28/02/2022



Site plan.



Plot 4 overview of installed membrane to the perimeters and party walls.



Plot 4 overview of installed membrane to the garage.



Plot 4 pick testing all weld laps.







Plot 4 seal using SAGM to the front of the garage.



Plot 5 overview of installed membrane to the perimeter and party walls.



Plot 5 pick testing all SAGM detailing.



Plot 5 typical corner and pipe penetration seal using SAGM.



Plot 6 overview of installed membrane.



Plot 6 air brick in place.







Plot 6 typical door threshold seal using SAGM.



Plot 7 overview of installed membrane.



Plot 7 typical bay window corner seals using SAGM.



Plot 7 typical door seal using SAGM.



Air lancing all weld laps and SAGM detailing.





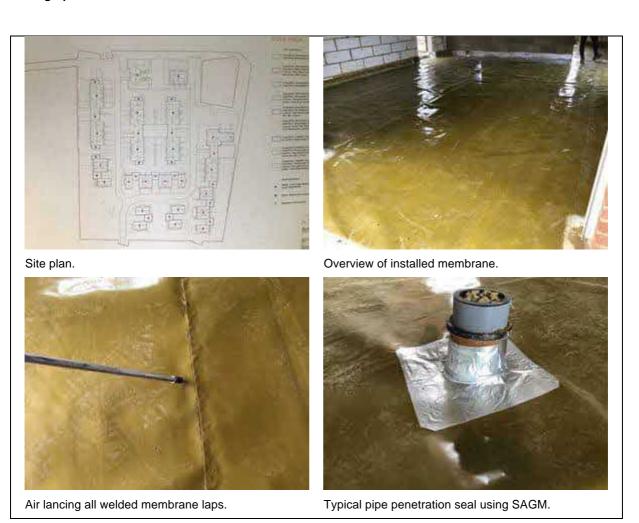
Housebuilder Name: Berkeley Homes.					Plot I	Plot Number: Plot 1.					
Site Name: Cavino	dish Meads, Su	ınninghill	l, Ascot, Be	rkshire.		Detac	Detached House			\boxtimes	
						Semi	-Detached]			
Postcode: SL5 9T	В.	Weathe	r: 16 °C Dry	/		Terra	ice				
Installer: UK Mem	Installer: UK Membranes.						artment Block				
Surveyor: Adam Mcdermott						Detac	ched Gara				
Date: 26/05/2022						Flat 0	Over Gara	ge			
Full Footprint	Perimeter On	ly 🗌 🔝 I	nfill Only 🛚	Oth	ner 🗌						
If other, please des	cribe N/A.										
Item	Comments										
Sub-floor void	Inspected by I	MEC	Not Inspec	cted by M	IEC co	ntractor advi	sed 🛚	N/A 🗆]		
	Beam & Block	min 150r	nm 🛛								
	Strips of 25mr	n Geocon	nposite 🗌								
	Full Cover of 2	25mm Ge	ocomposite[
		_	-	-		installed as es in defects	-	-			
Ventilation Inlets and Outlets	(Inlet/Outlet Ty	ype)	Air Bricks 🛭	Ventb	oxes [Not in Plac	ce at Time	of Inspe	ction		
	Number of Ve	nts: 10no).								
Materials used:	Membrane Na	me: Visq	ueen HC Bl	ok gas m	nembra	ine.					
	Self-Adhesive					i		med Tophats			
	Double Sided Butyl Tape Preformed Corners Others Please List: N/A.										
	Others Flease	EIST. IN/A	•								
Type of Joint	Tape Join	t 🗆	Auto We	eld 🗌		Hand Weld	H ⊠	Extru	ision '	Weld 🗌	
Tosting/Inapastics	☑ Visual Inspection ☑ Air Lance (ASTM D4437)					37) [☐ Tracer Gas Test				
Testing/Inspection	☐ Dielectric Test (NACE RP0188-99							88-99)			
Laps, welds and	Have all joints	passed to	esting prior t	to survey	or leav	/ing site?	⊠ Yes	es 🗆 N		□ N/A	
detailing	Have all pipes	passed to	esting prior t	to survey	or leav	ving site?	⊠ Yes		No	□ N/A	
	Have all corners passed testing prior to surveyor leaving site?								No	□ N/A	





	Have all acoustic details passed testing prior to surveyor	☐ Yes	□No	⊠ N/A					
	leaving site?								
Surveyors Comme	<u>ents</u>								
Prior to our inspection 5no patch repairs were made by the installers due to damage caused by follow on trades and									
repaired using SAG	M.								
Result of Inspection	on The Plots/Area has passed inspection								
Signed: A	Adam Mcdermott Date: 26/0	5/2022							

Photographs 26/05/2022









Pick testing all SAGM detailing.



Door threshold seal using SAGM.



Patch repair using SAGM to damaged perimeter membrane.



Retro fit detail using SAGM to the internal block work wall.



Air brick in place at the time of our inspection.





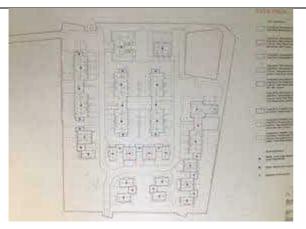
Housebuilder Name: Berkeley Homes.					Plot I	Plot Number: Plots 73 & 74.					
Site Name: Cavino	dish Meads, Su	ınninghill	l, Ascot, Be	rkshire.		Detac	Detached House				
						Semi	-Detached			\boxtimes	
Postcode: SL5 9T	В.	Weathe	r: 16 °C Dry	/		Terra	ce				
Installer: UK Membranes.						Apart	ment Bloc				
Surveyor: Adam Mcdermott					Detac	tached Garage					
Date: 26/05/2022						Flat C	Over Garaç	ge			
Full Footprint	Perimeter On	ly 🛛 🛮 I	nfill Only 🗌	Oth	ner 🗌						
If other, please des	cribe Internal wa	alls and in	tegral garag	je perime	eter wa	ılls.					
Item	Comments										
Sub-floor void	Inspected by I	MEC 🗌	Not Inspec	ted by M	IEC co	ntractor advi	sed 🛚	N/A 🗌			
	Beam & Block	min 150n	nm 🛚								
	Strips of 25mr	n Geocon	nposite 🗌								
	Full Cover of 2	25mm Ge	ocomposite[
		_	-	-		installed as les in defects		-			
Ventilation Inlets and Outlets	(Inlet/Outlet Ty	ype)	Air Bricks 🛭	Ventb	oxes [Not in Plac	ce at Time	of Insped	ction		
	Number of Ve	nts: 10no	per plot.								
Materials used:	Membrane Na	ıme: Visq	ueen HC Bl	ok gas m	nembra	ine.					
	Self-Adhesive						rmed Toph				
		Double Sided Butyl Tape ☐ Preformed Corners ☐ Others Please List: N/A.									
	Others i lease	LIST. IN/A									
Type of Joint	Tape Joint ☐ Auto Weld ☐ Hand Weld ☑ Extrusion Weld ☐									Weld 🗌	
Testing/Increation	☑ Visual Inspection ☑ Air Lance (ASTM D4437)					137) Tracer Gas Test					
Testing/Inspection ☐ Probe Test (ASTM D4437) ☐ Dielectric Test (NACE							(NACE R	RP0188-99)			
Laps, welds and	Have all joints	passed to	esting prior t	to survey	or leav	/ing site?		1	No	□ N/A	
detailing	Have all pipes	Have all pipes passed testing prior to surveyor leaving site?						1 🗆	No	□ N/A	
	Have all corners passed testing prior to surveyor leaving site?							1 🗆	Vo	□ N/A	





	Have all acoustic details passed testing prior to surveyor leaving site?	or	☐ Yes	□ No	⊠ N/A
Surveyors Comme	ents				
N/A.					
Result of Inspection	on The Plots/Area has passed inspection				
Signed: /	Adam Mcdermott Dat	te: 26/0	5/2022		

Photographs 26/05/2022



Site plan.



Overview of installed perimeter membrane to plots 73 & 74.



Plot 73 typical door threshold seal using SAGM.



Plot 73 air brick in place.







Plot 73 typical corner seal using SAGM.



Plot 74 pick testing all SAGM detailing.



Plot 74 typical double pipe penetration seal using SAGM.



Plot 74 hand welded membrane laps over the cavity wall.





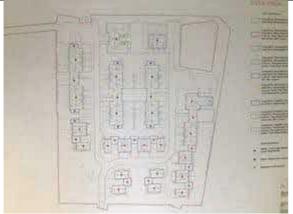
Housebuilder Name: Berkeley Homes.					Plot I	Plot Number: Plots 2 & 3.					
Site Name: Cavino	dish Meads, Su	ınninghil	l, Ascot, Be	rkshire.		Deta	Detached House				
						Semi	-Detached	İ		\boxtimes	
Postcode: SL5 9T	В.	Weathe	r: 14 °C Dry	/		Terra	ice				
Installer: UK Mem	branes.	·				Apar	partment Block				
Surveyor: Adam Mcdermott						Deta	ched Gara				
Date: 07/06/2022						Flat (Over Gara	ge			
Full Footprint	Perimeter On	ly 🗌 🔝 I	nfill Only 🛚	Oth	ner 🗌						
If other, please des	cribe N/A.										
Item	Comments										
Sub-floor void	Inspected by I	MEC 🗌	Not Inspec	ted by N	IEC co	ntractor advi	sed 🛛	N/A 🗆			
	Beam & Block	min 150r	nm 🛚								
	Strips of 25mr	n Geocon	nposite 🗌								
	Full Cover of 2	25mm Ge	ocomposite[
		-	-	-		installed as tes in defects	-	-			
Ventilation Inlets and Outlets	(Inlet/Outlet Ty	ype)	Air Bricks 🛭	Ventb	oxes [Not in Plac	ce at Time	of Inspe	ction		
	Number of Ve	nts: 8no _l	per plot.								
Materials used:	Membrane Na	me: Visq	ueen HC Bl	ok gas n	nembra	ane.					
	Self-Adhesive						Preformed Tophats				
	Double Sided Butyl Tape Preformed Corners Others Please List: N/A.										
	Others Flease	EISI. IN/A	•								
Type of Joint	Tape Joint ☐ Auto Weld ☐ Hand Weld ☒ Extrusion Weld ☐									Weld 🗌	
Tosting/Inapastics	☑ Visual Inspection ☑ Air Lance (ASTM D4437)					37) [☐ Tracer Gas Test				
Testing/Inspection	☐ Probe Test (ASTM D4437) ☐ Dielectric Test (NACE RP0188-99							88-99)			
Laps, welds and	Have all joints	passed to	esting prior t	o survey	or leav	ving site?	⊠ Yes	□ No □ N		□ N/A	
detailing	Have all pipes	passed t	esting prior	to survey	or leav	ving site?	⊠ Yes		No	□ N/A	
	Have all corners passed testing prior to surveyor leaving site?								Vo	□ N/A	





	Have all acoustic details passed testing prior to surveyor	☐ Yes	□No	⊠ N/A						
	leaving site?									
Surveyors Comments										
Prior to our inspection patch repairs were made by the installers due to damage caused by follow on trades and										
repaired using SAGM to plots:										
Plot 2 = 4no.										
Plot $3 = 3$ no.										
Result of Inspection The Plots/Area has passed inspection										
Signed: A	Adam Mcdermott Date	: 07/0	6/2022							

Photographs 07/06/2022



Site plan.



Plot 2 overview of installed membrane.



Plot 2 typical pipe penetration seal using SAGM.



Plot 2 typical door threshold seal using SAGM.







Plot 2 air lancing all weld laps and SAGM detailing.



Plot 3 overview of installed membrane.



Plot 3 typical double pipe penetration seal using SAGM.



Plot 3 retro fit detail over the damaged membrane that is under the internal block work wall.



Plot 3 pick testing all SAGM detailing.



Air brick in place at the time of our inspection.





Housebuilder Nam	ousebuilder Name: Berkeley Homes.					Plot	Number: F	Plots	s 75 & 76.		
Site Name: Cavino	dish Meads, Su	nninghill	, Ascot, Be	rkshire.		Deta	ched Hous	e			
						Semi	-Detached				
Postcode: SL5 9T	В.	Weathe	r: 24 °C Dry	'.		Terra	ice				
Installer: UK Memb	oranes.					Apar	tment Bloc	ck			
Surveyor: Adam N	/Icdermott					Deta	ched Gara	ge			
Date: 25/07/2022						Flat	Over Garaç	ge			
Full Footprint	Perimeter Onl	у 🔲 🛮 І	nfill Only 🛚	Oth	er 🗌	•			•		
If other, please describe N/A.											
Item Comments											
Sub-floor void	Inspected by N	pected by MEC Not Inspected by MEC contractor advised N/A N/A									
	Beam & Block	min 150n	nm 🛚								
	Strips of 25mn	n Geocon	nposite 🗌								
	Full Cover of 2	25mm Ge	ocomposite[
		-	-	-		installed as es in defects	-	_			
Ventilation Inlets and Outlets	(Inlet/Outlet Ty	/pe)	Air Bricks 🗵	Ventbo	oxes [] Not in Pla	ce at Time	of In	nspection		
	Number of Ver	nts: 12no	per plot.								
Materials used:	Membrane Na	me: Visq	ueen HC Blo	ok gas b	arrier.						
	Self-Adhesive						rmed Toph				
	Double Sided Others Please					Prefo	rmed Corn	ers			
	0 11.0.0										
Type of Joint	Tape Join	t 🗌	Auto We	ld 🗌		Hand Weld	d 🛛	E	Extrusion \	Weld □	
Testing/Inspection	⊠ Visu	al Inspec	tion	⊠ Air	Lance	(ASTM D44	37) [<u></u> ⊤	racer Gas	Test	
Testing/Inspection	☐ Probe Test (ASTM D4437) ☐ Dielectric Test (NACE RP0188-99)							8-99)			
Laps, welds and	Have all joints	passed to	esting prior t	o survey	or leav	ving site?	⊠ Yes		□No	□ N/A	
detailing	Have all pipes	pipes passed testing prior to surveyor leaving site?					⊠ Yes		□No	□ N/A	
	Have all corners passed testing prior to surveyor leaving site? ☐ Yes ☐ No ☐							□ N/A			





	Have all acoustic details passed testing prior to surveyor	☐ Yes	☐ No	⊠ N/A					
	leaving site?								
Surveyors Comme	ents								
During our inspection the damaged membrane around the perimeter which was caused by follow on trades was									
repaired using SAG	GM to plots:								
Plot 75 = 17no.									
Plot 76 = 12no.									
Result of Inspection	on The Plots/Area has passed inspection but the above information	tion is drawn to	the contract	ctors					
attention									
Signed: A	Adam Mcdermott Date: 25	/07/2022		ļ					

Photographs 25/07/2022



Plot 75 overview of installed membrane.



Plot 75 typical double pipe penetration seal using SAGM.



Plot 75 repaired damaged membrane using SAGM.



Plot 75 air lancing all weld laps and SAGM detailing.







Plot 76 air brick in place at the time of our inspection.



Plot 76 pick testing all SAGM detailing.



Plot 76 picture framing detail using SAGM to internal block work wall.



Plot 76 overview of installed membrane.





Housebuilder Nam	ousebuilder Name: Berkeley Homes. ite Name: Cavindish Meads, Sunninghill, Ascot, Berkshire.					Plot I	Number: F	Plots 4 &	5.	
Site Name: Cavino	dish Meads, Su	ınninghil	l, Ascot, Be	rkshire.		Detac	hed Hous	se		
						Semi	-Detached			
Postcode: SL5 9T	B.	Weathe	r: 32 °C Dry	<i>/</i> .		Terra	се			\boxtimes
Installer: UK Mem	branes.					Apart	ment Blo	ck		
Surveyor: Adam I	Vicdermott					Detac	hed Gara	ge		
Date: 12/08/2022						Flat C	Over Garaç	ge		
Full Footprint	Perimeter On	ly 🗌 🔝 I	nfill Only 🛚	Oth	ner 🗌					
If other, please describe N/A.										
Item	Comments	omments								
Sub-floor void	Inspected by I	ected by MEC Not Inspected by MEC contractor advised N/A N/A								
	Beam & Block	min 150r	nm 🛚							
	Strips of 25mr	n Geocon	nposite 🗌							
	Full Cover of 2	25mm Ge	ocomposite[
		-	-	-		installed as tes in defects		-		
Ventilation Inlets and Outlets	(Inlet/Outlet Ty	ype)	Air Bricks 🛭	Ventb	oxes [Not in Plac	ce at Time	of Inspe	ction	
	Number of Ve	nts: 5no _l	per plot.							
Materials used:	Membrane Na	me: Visq	ueen HC Bl	ok gas b	arrier.	_				
	Self-Adhesive					i	rmed Toph			
	Double Sided Others Please					Prefo	rmed Corn	ers 📙		
	Others Flease	EIST. IN/A	•							
Type of Joint	Tape Join	t 🗌	Auto We	eld 🗌		Hand Weld	ı 🖂	Extru	ision '	Weld 🗌
Testing/Inspection	⊠ Visu	ıal Inspec	tion	⊠ Air	Lance	(ASTM D443	37) [☐ Trace	r Gas	Test
Testing/Inspection	☐ Dielectric Test (NACE RP0188						88-99)			
Laps, welds and	Have all joints	passed to	esting prior t	o survey	or leav	ving site?	⊠ Yes		No	□ N/A
detailing	Have all pipes	passed t	esting prior	to survey	or lea	ving site?		r	No	□ N/A
	Have all corne	ave all corners passed testing prior to surveyor leaving site?								□ N/A





	-								
	Have all acoustic details passed testing prior to surveyor	☐ Yes	☐ No	□ N/A					
	leaving site?								
Surveyors Comments									
During our inspection the damaged membrane around the perimeter which was caused by follow on trades was									
repaired using SAG	M to plots:								
Plot 4 = 11no.									
Plot 5 = 12no.									
Result of Inspection	on The Plots/Area has passed inspection but the above information	tion is drawn to	the contra	ctors					
attention									
Signed: A	Adam Mcdermott Date: 12	/08/2022							

Photographs 12/08/2022



Plot 4 overview of installed membrane.



Plot 4 typical pipe penetration seal using SAGM.



Plot 4 hand welded membrane lap.



Plot 4 patch repair using SAGM.







Plot 5 overview of installed membrane.



Plot 5 typical double pipe penetration seal using SAGM.



Plot 5 air lancing all SAGM detailing and welded membrane laps.



Plot 5 air brick in place at the time of our inspection.





Housebuilder Nam	·					Plo	t Number:	Plots	6 & 7.		
Site Name: Cavino	dish Meads, Su	ınninghill	l, Ascot, Be	rkshire.		Det	ached Hou	se			
						Ser	ni-Detache	d			
Postcode: SL5 9T	В.	Weathe	r: 24 °C Dry	/.		Ter	race			\boxtimes	
Installer: UK Memb	oranes.	•				Apa	artment Blo	ck			
Surveyor: Adam N	/Icdermott					Det	ached Gar	age			
Date: 19/08/2022						Flat	t Over Gara	age			
Full Footprint	Perimeter On	ly 🔲 🛮 I	nfill Only 🛚	Oth	er 🗌	l					
If other, please describe N/A.											
Item	Comments	mments									
Sub-floor void	Inspected by I	ected by MEC Not Inspected by MEC contractor advised N/A									
	Beam & Block	min 150r	nm 🛛					•			
	Strips of 25mr	rips of 25mm Geocomposite									
	Full Cover of 2	25mm Ge	ocomposite								
	The venting has passed inspection and is installed as per the design $\ \Box$ The venting has failed inspection, see notes in defects section $\ \Box$										
Ventilation Inlets and Outlets	(Inlet/Outlet Ty	ype)	Air Bricks D	Ventbo	oxes [Not in Pl	ace at Time	of In	spection		
	Number of Ve	nts: 5no ¡	per plot.								
Materials used:	Membrane Na	ıme: Visq	ueen HC BI	ok gas ba	arrier.	ı					
	Self-Adhesive						formed Top				
	Double Sided Others Please					Fie	formed Cor	ileis [
Type of Joint	Tape Join	t 🗌	Auto We	eld 🗌		Hand We	eld 🛚	E	Extrusion \	Weld □	
Teating/Inoncation	⊠ Visu	ıal Inspec	tion	⊠ Air	Lance	(ASTM D4	437)	☐ Tr	racer Gas	Test	
Testing/Inspection	⊠P	robe Test	(ASTM D4	437)		☐ Die	electric Test	(NAC	CE RP018	8-99)	
Laps, welds and	Have all joints	Have all joints passed testing prior to surveyor leaving site?							□No	□ N/A	
detailing	Have all pipes	-					⊠ Yes		□ No	□ N/A	
	Have all corne						Yes Yes		□ No	□ N/A	
	Have all acoustileaving site?	Have all acoustic details passed testing prior to surveyor eaving site?							□ No	⊠ N/A	





Surveyors Comments

During our inspection the damaged membrane around the perimeter which was caused by follow on trades was repaired using SAGM to plots:

Plot 6 = 12no.

Plot 7 = 10no.

Result of Inspection The Plots/Area has passed inspection but the above information is drawn to the contractors attention

Signed: Adam Mcdermott Date: 19/08/2022

Photographs 19/08/2022



Plot 7 overview of installed membrane.



Plot 7 typical double pipe penetration seal using SAGM.



Plot 7 patch repair using SAGM.



Plot 7 air lancing all welded membrane laps.







Plot 6 overview of installed membrane.



Plot 6 repaired door threshold detail using SAGM.



Plot 6 typical pipe penetration seal using SAGM.



Plot 6 pick testing all SAGM detailing.



5no air bricks per plot were in place at the time of our inspection.





Housebuilder Nam	ousebuilder Name: Berkeley Homes					Plot	Number: 8	8 FO	G, 9 Terra	ace	
Site Name: Sunnin	nghill Square, (Cavindish	n meads, Si	unningh	ill, Asc	ot, Deta	ched Hous	se			
Berkshire.						Sem	i-Detached	k			
Postcode: SL5 9T	В	Weathe	r: 22 °C Fin	е		Terr	ace				
Installer: UK Memb	oranes					Apa	rtment Blo	ck			
Surveyor: Keith B	arsby					Deta	ched Gara	ge			
Date: 02/09/2022						Flat	Over Gara	ge		\boxtimes	
Full Footprint ☐ Perimeter Only ☐ Infill Only ☒ Other ☐											
If other, please describe											
Item	Comments	omments									
Sub-floor void	Inspected by N	иес 🗆	Not Inspec	ted by M	1EC co	ntractor adv	rised 🛚	N/A	A 🗌		
	Beam & Block	am & Block min 150mm ⊠									
	Strips of 25mn	n Geocom	posite 🗌								
	Full Cover of 2	25mm Geo	ocomposite[
		_	s passed in s failed insp	-			-	-			
Ventilation Inlets and Outlets	(Inlet/Outlet Ty	/pe)	Air Bricks 🛭	Ventbe	oxes [] Not in Pla	ice at Time	of In	spection		
and Odliets	Number of Ver	nts: Plot 8	3=0no, Plot	9=7no							
Materials used:	Membrane Na	me: Visq	ueen HC Bl	ok							
	Self-Adhesive	Membran	e 🛛				ormed Toph				
	Double Sided		e 🗌			Prefe	ormed Corn	ers [
	Others Please	LIST: N/A									
Type of Joint	Tape Join	t 🗌	Auto We	ld 🗌		Hand Wel	d 🛛	E	Extrusion \	Weld 🗌	
Tastina da anastisa	⊠ Visu	al Inspect	tion	⊠ Air	Lance	(ASTM D44	137)	□ Ti	racer Gas	Test	
Testing/Inspection	☐ Probe Test (ASTM D4437)					☐ Diel	ectric Test	(NAC	CE RP018	8-99)	
Laps, welds and	Have all joints passed testing prior to surveyor leaving					ing site?		□No	□ N/A		
detailing	Have all pipes passed testing prior to surveyor leaving						⊠ Yes □		□No	□ N/A	
	Have all corners passed testing prior to surveyor leaving site? ☐ Yes ☐ No ☐							□ N/A			





	Have all acoustic details passed testing prior to sur	veyor	☐ Yes	☐ No	⊠ N/A				
	leaving site?								
Surveyors Comme	ents_								
Patch repairs made using SAGM to damage caused by follow on trades around the previously installed perimeter: Plot									
8=12no, Plot 9=2no									
Result of Inspection	on The Plots/Area has passed inspection								
Signed: I	Keith Barsby Date: 0	2/09/2022							
	•								

Photographs 02/09/2022



Plot 8 overview





Plot 8 corner detail and pipe penetration sealed using Plot 9 overview SAGM











Plot 9 pipe penetrations sealed using SAGM

Plot 9 hand welded joint being air lanced





Housebuilder Nam	Housebuilder Name: Berkeley Homes					Plot	Number:	10-1	1-12		
Site Name: Caven	dish meads. S	unninghi	II, Ascot. Be	erkshire		Deta	ched Hous	se			
						Semi	i-Detached	t			
Postcode: SL5 9T	В	Weathe	r: 17 °C Dry	1		Terra	ace			\boxtimes	
Installer: UK Memi	branes					Apar	tment Blo	ck			
Surveyor: Ross E	dwards					Deta	ched Gara	ige			
Date: 09/09/2022						Flat	Over Gara	ge			
Full Footprint ☐ Perimeter Only ☐ Infill Only ☒ Other ☒ If other, please describe											
Item	Comments	omments									
Sub-floor void	Inspected by N	pected by MEC Not Inspected by MEC contractor advised N/A									
	Beam & Block	min 150r	nm 🛛					I			
	Strips of 25mn	n Geocon	nposite 🗌								
	Full Cover of 2	25mm Ge	ocomposite[
		-	-	-		installed as tes in defects	-	_			
Ventilation Inlets and Outlets	(Inlet/Outlet Ty	/pe)	Air Bricks 🗵] Ventbo	oxes [Not in Pla	ce at Time	of In	nspection		
	Number of Ve	nts: Plots	10-11-12 =	16no							
Materials used:	Membrane Na	me: Visq	ueen HC Blo	эс							
	Self-Adhesive						rmed Topl				
	Double Sided Others Please		e ∐			Prefo	rmed Corr	ners (
Type of Joint	Tape Join	t 🗌	Auto We	ld 🗌		Hand Weld	d 🛛	E	Extrusion \	Weld 🗌	
Testing/Inspection	⊠ Visu	al Inspec	tion	⊠ Air	Lance	(ASTM D44	37)		racer Gas	Test	
resting/inspection	☐ P	robe Test	(ASTM D44	137)		☐ Diele	ectric Test	(NAC	CE RP018	8-99)	
Laps, welds and	Have all joints						⊠ Yes		□ No	□ N/A	
detailing	Have all pipes	passed to	esting prior t	o survey	or leav	ving site?	⊠ Yes		□No	□ N/A	
	Have all corners passed testing prior to surveyor leaving site? ☐ Yes ☐ No ☐ N/A								☐ N/A		





	Have all acoustic details passed testing pri	or to surveyor	☐ Yes	□No	⊠ N/A				
	leaving site?								
Surveyors Comme	<u>ents</u>								
Membrane has been installed across the footprint and welded to the perimeter membrane, all detailing sealed using									
SAGM									
Result of Inspection	n The Plots/Area has passed inspection								
Signed: F	Ross Edwards	Date: 09/09/2022							

Photographs 09/09/2022





Overview to Plot 12 infill lined out using Visqueen HC Two typical pipe details sealed with SAGM to Plot 12. Bloc.







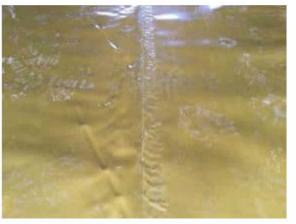
Pick testing along the hand welded lap joint.



Lance testing to the perimeter hand welded lap joints.



Plot 11 infill overview.



Overview looking down the hand welded lap joint.







Pipe details within Plot 11 sealed with SAGM.



Overview to the air lance test in process to Plot 11.



Plot 10 overview.



Overview to the perimeter membrane welded to the infill membrane.





SAGM patches applied prior to inspection to the perimeter membrane within Plot 10.



Air lance testing to Plot 10 lap joints.





Housebuilder Nam	ousebuilder Name: Berkeley Homes.					Plot I	Number: F	Plots	s 33 & 34.		
Site Name: Cavino	dish Meads, Su	nninghill	, Ascot, Be	rkshire.		Deta	ched Hous	e			
						Semi	-Detached	l			
Postcode: SL5 9T	В	Weathe	r: 16 °C Dry	'.		Terra	ice			\boxtimes	
Installer: UK Memb	oranes.					Apar	tment Bloc	ck			
Surveyor: Adam N	/Icdermott					Deta	ched Gara	ge			
Date: 23/09/2022						Flat	Over Garaç	ge			
Full Footprint	Perimeter Onl	у 🔲 🛮 І	nfill Only 🛚	Oth	er 🗌	•			•		
If other, please describe N/A.											
Item	Comments										
	Commonto										
Sub-floor void	Inspected by N	pected by MEC Not Inspected by MEC contractor advised N/A									
	Beam & Block	min 150n	nm 🛚								
	Strips of 25mn	n Geocom	nposite 🗌								
	Full Cover of 2	25mm Ge	ocomposite[
		-		-		installed as es in defects	-	-			
Ventilation Inlets and Outlets	(Inlet/Outlet Ty	/pe)	Air Bricks 🗵	Ventbo	oxes [Not in Pla	ce at Time	of In	spection		
	Number of Ver	nts: 4no į	oer plot.								
Materials used:	Membrane Na	me: Visq	ueen HC Blo	ok gas b	arrier.						
	Self-Adhesive						rmed Toph				
	Double Sided Others Please					Prefo	rmed Corn	ers [
Type of Joint	Tape Join	t 🗌	Auto We	ld 🗌		Hand Weld	d 🖂	Е	Extrusion \	Weld □	
Testing/Inspection	⊠ Visu	al Inspec	tion	⊠ Air	Lance	(ASTM D44	37) [racer Gas	Test	
resung/mapecuon	☐ Probe Test (ASTM D4437) ☐ Dielectric Test (NACE RP0188-99)							8-99)			
										_	
Laps, welds and	Have all joints						⊠ Yes		□ No	□ N/A	
detailing	Have all pipes	pes passed testing prior to surveyor leaving site?					⊠ Yes		□No	□ N/A	
	Have all corners passed testing prior to surveyor leaving site? ☐ Yes ☐ No ☐ ☐							⊠ N/A			





	Have all acoustic details passed testing prior to surveyor	☐ Yes	□No	⊠ N/A					
	leaving site?								
Surveyors Comme	ents								
Prior to our inspection patch repairs were made by the installers to the damaged perimeter membrane caused by									
follow on trades and repaired using SAGM to plots:									
Plot 33 = 18no.									
Plot 34 = 17no.									
Result of Inspection	Result of Inspection The Plots/Area has passed inspection but the above information is drawn to the contractors								
attention									
Signed: A	Adam Mcdermott Date: 2	/09/2022							

Photographs 23/09/2022



Plot 33 overview of installed Visqueen HC Blok Gas Barrier as an infill.



Plot 33 typical pipe penetration seal using SAGM.



Plot 33 hand welded membrane lap.



Plot 34 overview of installed Visqueen HC Blok Gas Barrier.







Plot 34 patch repair using SAGM to damaged perimeter membrane.



Plot 34 air lancing all welded membrane laps.



Air brick in place at the time of our inspection.





Housebuilder Nam	Housebuilder Name: Berkeley Homes.					PI	ot N	umber: F	Plots	s 32 & 35	
Site Name: Cavino	dish Meads, Su	ınninghill	, Ascot, Be	rkshire.		De	etacl	hed Hous	e		
						Se	emi-l	Detached			
Postcode: SL5 9T	В	Weathe	r: 12 °C Dry	·-		Те	errac	e			\boxtimes
Installer: UK Memi	branes.					A	partr	ment Bloc	ck		
Surveyor: Adam M	Mcdermott					De	etacl	hed Gara	ge		
Date: 28/09/2022						Fla	at O	ver Garaç	ge		
Full Footprint	Perimeter Onl	у 🗌 💮 І	nfill Only 🛚	Oth	er 🗌						
If other, please describe N/A.											
Item	Comments	comments									
Sub-floor void	Inspected by M	spected by MEC □ Not Inspected by MEC contractor advised ☒ N/A □									
	Beam & Block	min 150r	nm 🛚								
	Strips of 25mm	n Geocon	nposite 🗌								
	Full Cover of 2	25mm Ge	ocomposite[
		-	is passed in: is failed insp	-			-		-		
Ventilation Inlets and Outlets	(Inlet/Outlet Ty	/pe)	Air Bricks 🗵	Ventbo	oxes [] Not in I	Place	e at Time	of In	spection	
	Number of Ve	nts: 4no į	oer plot.								
Materials used:	Membrane Na	me: Visq	ueen HC Blo	ok gas b	arrier.						
	Self-Adhesive							med Toph			
	Double Sided Others Please					Pr	refori	med Corn	ers		
	Officis Flease	LIST. IN/A	•								
Type of Joint	Tape Join	t 🗌	Auto We	ld 🗌		Hand W	Veld	\boxtimes	E	Extrusion \	Weld 🗌
Testing/Inspection	⊠ Visu	al Inspec	tion	⊠ Air	Lance	(ASTM D)443	7) [Tr	racer Gas	Test
resung/mapecuon	⊠P	robe Test	: (ASTM D44	137)		□ D	Dieled	ctric Test ((NAC	CE RP018	8-99)
							-			_	_
Laps, welds and	Have all joints							⊠ Yes		□ No	□ N/A
detailing	Have all pipes	passed to	esting prior t	o survey	or leav	ving site?				☐ No	□ N/A
	Have all corners passed testing prior to surveyor leaving site? ☐ Yes ☐ No ☐ No							⊠ N/A			





		□ Vaa	Пы	NI/A
	Have all acoustic details passed testing prior to surveyor	☐ Yes	☐ No	⊠ N/A
	leaving site?			
Surveyors Comme	<u>ents</u>			
Prior to our inspecti	on patch repairs were made by the installers to the damaged	perimeter membr	ane caused	d by
follow on trades and	d repaired using SAGM to plots:			
Plot 32 = 7no.				
Plot 35 = 12no.				
NOTE: the attached	garage to plot 35 was incomplete at the time of our inspection	n due to scaffold	ing being in	place.
Result of Inspection	The Plots/Area has passed inspection but the above inform	ation is drawn to	the contract	ctors
attention				
Signed: A	Adam Mcdermott Date: 2	8/09/2022		

Photographs 28/09/2022



Plot 35 overview of installed Visqueen HC Blok Gas Barrier as an infill.



Plot 35 typical double pipe penetration seal using SAGM.



Plot 35 pick testing all SAGM detailing.



Plot 35 hand welded membrane laps.







Plot 35 attached garage incomplete at the time of our inspection.



Plot 32 overview of installed Visqueen HC Blok Gas membrane.



Plot 32 air lancing all welded membrane laps.



Plot 32 air brick in place at the time of our inspection.



Plot 32 patch repair to damaged membrane caused by follow on trades and repaired using SAGM.





Housebuilder Name: Berkeley Homes - Sunninghill Square	Date: 07/10/2022
--	------------------

Site Name: Cavindish Meads, Sunninghill, Ascot, Berkshire. Weather: 16 °C Fine

Installer: UK Membranes

Postcode: SL5 9TB Surveyor: James Hall (NVQ 2)

		·	
Plot Number	Building Type	Extent of Inspection	Result
29 & 30	Terrace	Infill	Pass
63 (FOG Unit)	FOG Unit	Full Footprint	Pass

(Section 1, Materials and Method of Seal)

Gas Membrane Name: Visqueen Ultimate HC Blok

Corner Seal Method: Corners have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Service Entry Seal Method: The external of the pipe/ducts have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Annulus to Water Pipe Duct: The alkathene water pipe has either not been sealed or is not in place at the time of our inspection, this will require sealing to an approved method, this is outside the remit of the result of todays inspection

Door Threshold Seal Method: Door Thresholds have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Cavity Vent Seal Method: The cavity vents sit below the membrane that seals the cavity and do not require a specialist seal

Material Jointing Method: The membrane has been overlapped sufficiently to achieve a sound joint, the joint is clean and dry and has been joined by means of hand welding with a hot air gun and neoprene roller, the width of the welded joint is a minimum of 30mm.

Others Please List: N/A

(Section 2, Testing and Inspection Method)			
	, ,		
Leak/Hole	MEC Environmental Ltd carried out a thorough Visual Inspection to the available area at the		
Detection	time of our inspection		
Joint Testing	The surveyor carried out Air Lance testing as per the method prescribed in ASTM D4437 to all		
	detailing work, detailing work is defined as any part of the installation that includes a joint in the		
	membrane, this includes but is not limited to pipes/ducts, stanchions, wind posts, braces, field		
	seams, masonry abutments, tanking, door thresholds and the like, The surveyor carried out		
	Probe testing as per the method prescribed in ASTM D4437 to all detailing work, detailing work		





	is defined as any part of the installation that includes a joint in the membrane, this includes but is not limited to pipes/ducts, stanchions, wind posts, braces, field seams, masonry abutments, tanking, door thresholds and the like		
Plot Number	(Section 3, Defects List)	Action Required	
29-30 & 63 FOG Unit	No Defects recorded at the time of our inspection	N/A	

Signed: James Hall (NVQ 2) Date: 07/10/2022

Plot Overview Photographs



Plot 29 - Overview of Visqueen Ultimate HC Blok Gas Barrier infill installation.



Plot 30 - Overview of Visqueen Ultimate HC Blok Gas Barrier infill installation.







Plot 63 FOG Unit - Overview of Installation of Visqueen Ultimate HC Blok.

Detailing Sample Photographs



Plot 29 - Successfully hand welded membrane lap joint.



Plot 29 - Air lance integrity test upon a hand welded membrane lap joint.



Plot 29 - Pipe penetration's sealed using SAGM.



Plot 29 - Pick test upon a successful patch repair using SAGM.







Plot 30 - Air lance test conducted upon all membrane lap joints.



Plot 30 - Hand welded membrane lap joint.



Plot 30 - Patch repairs using SAGM.



Plot 30 - Typical pipe penetration's sealed using SAGM.



Plot 63 FOG Unit - Corner detailing sealed using SAGM.



Plot 63 FOG Unit - Typical threshold detail sealed using SAGM.





Plot 63 FOG Unit - Pick test upon a successfully hand welded lap joint.



Plot 63 FOG Unit - Typical pipe penetration sealed using SAGM.





Housebuilder Name: Berkeley Homes. Date: 14/10/2022

Site Name: Cavindish Meads, Sunninghill, Ascot, Berkshire. Weather: 13 °C Dry

Installer: UK Membranes

Postcode: SL5 9TB. Surveyor: Adam McDermott (TGPV)

Plot Number	Building Type	Extent of Inspection	Result
Plots 27 & 28.	Terrace.	Infill	Pass

(Section 1, Materials and Method of Seal)

Gas Membrane Name: Visqueen HC Blok gas membrane.

Corner Seal Method: Corners have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Service Entry Seal Method: The external of the pipe/ducts have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Annulus to Water Pipe Duct: The alkathene water pipe has either not been sealed or is not in place at the time of our inspection, this will require sealing to an approved method, this is outside the remit of the result of todays inspection

Door Threshold Seal Method: Door Thresholds have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Cavity Vent Seal Method: The cavity vents sit below the membrane that seals the cavity and do not require a specialist seal

Material Jointing Method: The membrane has been overlapped sufficiently to achieve a sound joint, the joint is clean and dry and has been joined by means of hand welding with a hot air gun and neoprene roller, the width of the welded joint is a minimum of 30mm.

Others Please List: N/A

(Section 2, Testing and Inspection Method)			
Leak/Hole	MEC Environmental Ltd carried out a thorough Visual Inspection to the available area at the		
Detection	time of our inspection		
Joint Testing The surveyor carried out Air Lance testing as per the method prescribed in ASTM D4437 to			
	detailing work, detailing work is defined as any part of the installation that includes a joint in the		
	membrane, this includes but is not limited to pipes/ducts, stanchions, wind posts, braces, field		
	seams, masonry abutments, tanking, door thresholds and the like		





Plot Number	(Section 3, Defects List)	Action Required
Plots 27 & 28.	No Defects recorded at the time of our inspection.	N/A

Signed: Adam McDermott (TGPV) Date: 14/10/2022

Plot Overview Photographs

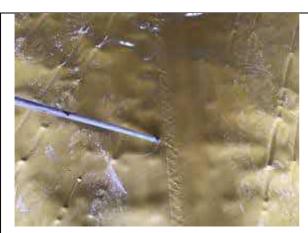




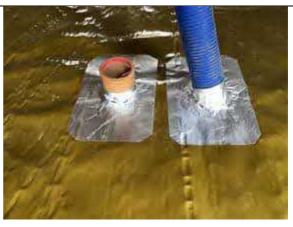
Overview of installed membrane to plot 27.

Overview of installed membrane to plot 28.

Detailing Sample Photographs



Plot 27 air lancing all weld laps.



Plot 27 typical double pipe penetration seal using SAGM.







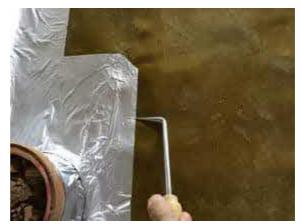
Plot 27 patch repair using SAGM to damage caused by follow on trades.



Plot 28 typical pipe penetration seal using SAGM.



Plot 28 retro fit detail using SAGM.



Plot 28 pick testing all SAGM detailing.





Housebuilder Name: Berkeley Homes / Sunninghill Square. Date: 14/11/2022

Site Name: Cavindish Meads, Sunninghill, Ascot, Berkshire. Weather: 14°C Dry

Installer: UK Membranes

Postcode: SL5 9TB. Surveyor: Adam McDermott (TGPV)

Plot Number	Building Type	Extent of Inspection	Result
Apartment Block C, Plots 13-26.	Terrace.	Infill	Areas that had been completed have passed, however the area the full area was incomplete (see section 3 for details)

(Section 1, Materials and Method of Seal)

Gas Membrane Name: Visqueen HC Blok gas membrane.

Corner Seal Method: Corners have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Service Entry Seal Method: The external of the pipe/ducts have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Annulus to Water Pipe Duct: The alkathene water pipe has either not been sealed or is not in place at the time of our inspection, this will require sealing to an approved method, this is outside the remit of the result of todays inspection

Door Threshold Seal Method: Door Thresholds have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Cavity Vent Seal Method: The cavity vents sit below the membrane that seals the cavity and do not require a specialist seal

Material Jointing Method: The membrane has been overlapped sufficiently to achieve a sound joint, the joint is clean and dry and has been joined by means of hand welding with a hot air gun and neoprene roller, the width of the welded joint is a minimum of 30mm.

Others Please List: N/A

(Section 2, Testing and Inspection Method)





Last/Hala	MEG Finished and all tides are included by the thousand Missell Incompation to the average	ilabla ausa at tha	
Leak/Hole	MEC Environmental Ltd carried out a thorough Visual Inspection to the available area at the		
Detection	time of our inspection		
Joint Testing	The surveyor carried out Air Lance testing as per the method prescribed in	ASTM D4437 to all	
	detailing work, detailing work is defined as any part of the installation that in	cludes a joint in the	
	membrane, this includes but is not limited to pipes/ducts, stanchions, wind p	oosts, braces, field	
	seams, masonry abutments, tanking, door thresholds and the like		
Plot Number	(Section 3, Defects List)	Action Required	
Apartment Block	Although the gas membrane has been installed to a good standard	The defect is	
C, Plots 13-26.	across the main living areas of apartment block C, the installers were	classed as major	
	unable to complete the main lobby area, 2no cycle store areas and 1no	and therefore a	
	bin store due to these areas not being ready, therefore a re inspection will	Re-inspection is	
	be required by MEC Environmental once complete.	required once	
		remedial work has	
		been completed	
Signed: Adam McDermott (TGPV) Date: 14/11/2022			

Plot Overview Photographs



Detailing Sample Photographs







Air lancing all welded membrane laps.



Typical pipe penetration seal using SAGM.



Pick testing all SAGM detailing.



Hand welded membrane lap.



Repaired damaged to the door threshold due to follow on trades using SAGM.



Sealed corner detail using SAGM.







Incomplete stair lobby.



Incomplete cycle store.



Incomplete bin store.





Housebuilder Name: Berkeley Homes/Sunninghill Square. Date: 19/12/2022

Site Name: Cavindish Meads, Sunninghill, Ascot, Berkshire. Weather: 10°C Showers

Installer: UK Membranes

Postcode: SL5 9TB. Surveyor: Adam McDermott (TGPV)

Plot Number	Building Type	Extent of Inspection	Result
36 & 41.	Detached.	Infill	Pass
37,38 & 39.	Semi detached.	Infill	Pass

(Section 1, Materials and Method of Seal)

Gas Membrane Name: Visqueen HC Blok gas membrane.

Corner Seal Method: Corners have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Service Entry Seal Method: The external of the pipe/ducts have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Annulus to Water Pipe Duct: The alkathene water pipe has either not been sealed or is not in place at the time of our inspection, this will require sealing to an approved method, this is outside the remit of the result of todays inspection

Door Threshold Seal Method: Door Thresholds have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Cavity Vent Seal Method: The cavity vents sit below the membrane that seals the cavity and do not require a specialist seal

Material Jointing Method: The membrane has been overlapped sufficiently to achieve a sound joint, the joint is clean and dry and has been joined by means of hand welding with a hot air gun and neoprene roller, the width of the welded joint is a minimum of 30mm.

Others Please List: N/A.

(Section 2, Testing and Inspection Method)			
Leak/Hole	MEC Environmental Ltd carried out a thorough Visual Inspection to the available.	ilable area at the	
Detection	time of our inspection		
Joint Testing	The surveyor carried out Air Lance testing as per the method prescribed in ASTM D4437 to all		
	detailing work, detailing work is defined as any part of the installation that includes a joint in the		
	membrane, this includes but is not limited to pipes/ducts, stanchions, wind posts, braces, field		
seams, masonry abutments, tanking, door thresholds and the like			
Plot Number	(Section 3, Defects List)	Action Required	





36,37,38,39 & 41.	No Defects recorded at the time of our inspection.	N/A
	"The membrane inspected should be permanently covered before 23rd	
	December. Site must provide photographic evidence of the membrane	
	works concreted immediately after completion. The outcome of the report	
	may be affected if this is not provided."	
	NOTE: plot 40 was incomplete due to being used as storage, also the	
	garages to all plots were incomplete due to scaffolding being in place at	
	the time of install/inspection.	

Date: 19/12/2022

Plot Overview Photographs

Signed: Adam McDermott (TGPV)



Overview of plot 36.



Overview of plot 38.



Overview of plot 37.



Overview of plot 39.







Overview of plot 41.





Typical pipe penetration seal using SAGM to plot 36.



Overview of installed membrane to plot 36.



Air lancing all welded membrane laps to plot 37.







Overview of installed membrane to plot 37.



Typical pipe penetration seal using SAGM to plot 37.



Pick testing all SAGM detailing to plot 38.



Hand welded membrane lap in plot 38.



Overview of installed membrane to plot 38.



Overview of installed membrane to plot 39.







Typical pipe penetration seal using SAGM to plot 39.



Repaired damaged perimeter membrane using SAGM to plot 39.



Overview of installed membrane to plot 41.



Air brick in place to plot 41.



Typical pipe penetration seal to plot 41.



Scaffolding in place in all garages.







Plot 40 was incomplete at the time of our inspection due to being used as storage.





Housebuilder Name: Berkeley Homes - (Sunninghill Square) Date: 23/01/2023

Site Name: Sunninghill, Ascot, Berkshire Weather: 0°C Fine

Installer: UK Membranes

Postcode: SL5 9TB Surveyor: James Hall (NVQ 2)

		, ,	
Plot Number	Building Type	Extent of Inspection	Result
73-74	Detached	Infill	Pass
40	Semi Detached	Infill	Pass

(Section 1, Materials and Method of Seal)

Gas Membrane Name: Visqueen HC Blok

Corner Seal Method: Corners have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Service Entry Seal Method: The external of the pipe/ducts have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Annulus to Water Pipe Duct: The alkathene water pipe has either not been sealed or is not in place at the time of our inspection, this will require sealing to an approved method, this is outside the remit of the result of todays inspection

Door Threshold Seal Method: Door Thresholds have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Cavity Vent Seal Method: The cavity vents sit below the membrane that seals the cavity and do not require a specialist seal

Material Jointing Method: The membrane has been overlapped sufficiently to achieve a sound joint, the joint is clean and dry and has been joined by means of hand welding with a hot air gun and neoprene roller, the width of the welded joint is a minimum of 30mm.

(Section 2, Testing and Inspection Method)				
Leak/Hole	MEC Environmental Ltd carried out a thorough Visual Inspection to the available area at the			
Detection	time of our inspection			
Joint Testing	The surveyor carried out Air Lance testing as per the method prescribed in ASTM D4437 to all			
	detailing work, detailing work is defined as any part of the installation that includes a joint in the			
	membrane, this includes but is not limited to pipes/ducts, stanchions, wind posts, braces, field			
seams, masonry abutments, tanking, door thresholds and the like				
Plot Number	er (Section 3, Defects List) Action Requir			





40 & 73-74	0 & 73-74 No Defects recorded at the time of our inspection.	

Signed: James Hall (NVQ 2) Date: 23/01/2023

Plot Overview Photographs



Plot 73 Overview where Visqueen HC Blok was installed.



Plot 74 Overview where installation took place.



Plot 40 overview of where the installation took place.







Plot 73. Visqueen HC Blok infill installation.



Plot 73. Hand welded membrane lap joint.



Plot 73. Typical pipe penetration sealed using SAGM.



Plot 73. Air lance integrity test conducted upon all hand welded membrane lap joints.



Plot 74. Overview of installation of Visqueen HC Blok gas barrier.



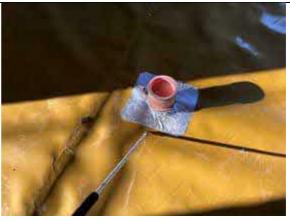
Plot 74. Hand welded membrane lap joint.







Plot 74. Pick test upon hand welded membrane lap joint.



Plot 74. Air lance integrity test conducted upon sealed pipe penetration.



Plot 40. Hand welded membrane lap joint.



Plot 40. Air lance integrity conducted upon all welded membrane lap joints.



Plot 40. Typical pipe penetration sealed using SAGM.



Plot 40. Overview of installation of Visqueen HC Blok gas barrier.



Housebuilder Name: Berkeley Homes - (Sunninghill Square) Date: 09/03/2023

Site Name: Sunninghill, Ascot, Berkshire Weather: 3°C Cloudy

Installer: UK Membranes

Postcode: SL5 9TB Surveyor: James Hall (NVQ 2)

Plot Number	Building Type	Extent of Inspection	Result
72	Detached	Infill	Pass
70	Semi Detached	Infill	Pass
30 & 32 & 35	Garages to FOG Unit & Single Garage	Infill	Pass

(Section 1, Materials and Method of Seal)

Gas Membrane Name: Visqueen HC Blok

Corner Seal Method: Corners have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Service Entry Seal Method: The external of the pipe/ducts have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Annulus to Water Pipe Duct: The alkathene water pipe has either not been sealed or is not in place at the time of our inspection, this will require sealing to an approved method, this is outside the remit of the result of todays inspection

Door Threshold Seal Method: Door Thresholds have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Cavity Vent Seal Method: The cavity vents sit below the membrane that seals the cavity and do not require a specialist seal

Material Jointing Method: The membrane has been overlapped sufficiently to achieve a sound joint, the joint is clean and dry and has been joined by means of hand welding with a hot air gun and neoprene roller, the width of the welded joint is a minimum of 30mm.

(Section 2, Testing and Inspection Method)				
Leak/Hole	Ik/Hole MEC Environmental Ltd carried out a thorough Visual Inspection to the available area at the			
Detection	time of our inspection			
Joint Testing	The surveyor carried out Air Lance testing as per the method prescribed in ASTM D4437 to all			
	detailing work, detailing work is defined as any part of the installation that includes a joint in the			
	membrane, this includes but is not limited to pipes/ducts, stanchions, wind posts, braces, field			
seams, masonry abutments, tanking, door thresholds and the like				
Plot Number	ber (Section 3, Defects List) Action Require			





30 & 32 & 35 + 70	No Defects recorded at the time of our inspection.	N/A
& 72		

Signed: James Hall (NVQ 2) Date: 09/03/2023

Plot Overview Photographs



Overview of FOG Unit Garages Plots 30 & 32.



Overview of plot 35 Garage.



Overview of plot 70.



Overview of Plot 72.







Overview of Visqueen HC Blok infill installation to Plot 30 FOG Unit Garage.



Plot 30 garage. Overview of a hand welded membrane lap joint.



Plot 30 garage. Air lance integrity test upon welded lap joint.



Overview of Visqueen HC Blok infill installation to Plot 32 FOG Unit Garage.



Plot 32 garage. Pick testing along hand welded lap joint.



Plot 32 garage. Typical pipe penetration sealed using SAGM.







Overview of Visqueen HC Blok infill installation to Plot 35 Garage.



Plot 35 garage. Overview of a hand welded membrane lap joint.



Plot 35 garage. Corner detailing sealed using SAGM.



Overview of Visqueen HC Blok infill installation to Plot 72.



Plot 72. Air lance integrity test conducted upon hand welded lap joint.



Plot 72. Air lance integrity test upon sealed pipe penetration.





Plot 72. Typical pipe penetration sealed with SAGM.



Plot 72. Overview of a hand welded membrane lap joint.



Overview of Visqueen HC Blok infill installation to Plot 70.



Plot 70. Overview of a hand welded membrane lap joint.



Plot 70. Typical pipe penetration's sealed using SAGM.



Plot 70. Air lance integrity testing along hand welded lap joint.







Plot 70. Pick test conducted upon sealed pipe penetration.





Installer: UK Membranes

Housebuilder Name: Berkeley Homes - Sunninghill Square.

Date: 22/03/2023

Site Name: Sunninghill, Ascot, Berkshire.

Weather: 14°C Dry

Postcode: SL5 9TB. Surveyor: Adam McDermott (TGPV)

Plot Number	Building Type	Extent of Inspection	Result
71	Semi Detached.	Infill	Pass

(Section 1, Materials and Method of Seal)

Gas Membrane Name: Visqueen HC Blok.

Corner Seal Method: Corners have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Service Entry Seal Method: The external of the pipe/ducts have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Annulus to Water Pipe Duct: The alkathene water pipe has either not been sealed or is not in place at the time of our inspection, this will require sealing to an approved method, this is outside the remit of the result of todays inspection

Door Threshold Seal Method: Door Thresholds have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Cavity Vent Seal Method: The cavity vents sit below the membrane that seals the cavity and do not require a specialist seal

Material Jointing Method: The membrane has been overlapped sufficiently to achieve a sound joint, the joint is clean and dry and has been joined by means of hand welding with a hot air gun and neoprene roller, the width of the welded joint is a minimum of 30mm.

(Section 2, Testing and Inspection Method)			
Leak/Hole Detection	MEC Environmental Ltd carried out a thorough Visual Inspection to the available area at the time of our inspection		
Joint Testing	The surveyor carried out Air Lance testing as per the method prescribed in ASTM D4437 to all detailing work, detailing work is defined as any part of the installation that includes a joint in the membrane, this includes but is not limited to pipes/ducts, stanchions, wind posts, braces, field seams, masonry abutments, tanking, door thresholds and the like		
Plot Number	(Section 3, Defects List) Action Required		
71.	No Defects recorded at the time of our inspection.	N/A	





Signed: Adam McDermott (TGPV) Date: 22/03/2023

Plot Overview Photographs



Overview of plot 71.



Overview of the installed Visqueen HC Blok to plot 71.



Typical pipe penetration seal using SAGM.







Sealed door threshold using SAGM.



Air lancing all hand welded membrane laps.



Patch repairs to damaged perimeter membrane using SAGM.



Pick testing all SAGM detailing.





Housebuilder Name: Berkeley Homes - Sunninghill Square.	Date: 13/04/2023
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Site Name: Sunninghill, Ascot, Berkshire. Weather: 7°C Dry

Installer: UK Membranes

Postcode: SL5 9TB Surveyor: Adam McDermott (TGPV)

Plot Number	Building Type	Extent of Inspection	Result
42,43,44 & 45	Terrace	Infill	Pass

(Section 1, Materials and Method of Seal)

Gas Membrane Name: Visqueen HC Blok.

Corner Seal Method: Corners have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Service Entry Seal Method: The external of the pipe/ducts have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Annulus to Water Pipe Duct: The alkathene water pipe has either not been sealed or is not in place at the time of our inspection, this will require sealing to an approved method, this is outside the remit of the result of todays inspection

Door Threshold Seal Method: Door Thresholds have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Cavity Vent Seal Method: The cavity vents sit below the membrane that seals the cavity and do not require a specialist seal

Material Jointing Method: The membrane has been overlapped sufficiently to achieve a sound joint, the joint is clean and dry and has been joined by means of welding with a hot air automatic welding machine, the width of the welded joint is a minimum of 30mm.

(Section 2, Testing and Inspection Method)				
Leak/Hole	MEC Environmental Ltd carried out a thorough Visual Inspection to the available area at the			
Detection	time of our inspection			
Joint Testing	The surveyor carried out Air Lance testing as per the method prescribed in ASTM D4437 to all			
	detailing work, detailing work is defined as any part of the installation that includes a joint in the			
	membrane, this includes but is not limited to pipes/ducts, stanchions, wind posts, braces, field			
	seams, masonry abutments, tanking, door thresholds and the like, The surveyor carried out			
	Probe testing as per the method prescribed in ASTM D4437 to all detailing work, detailing work			





	is defined as any part of the installation that includes a joint in the membrane, this includes but is not limited to pipes/ducts, stanchions, wind posts, braces, field seams, masonry abutments, tanking, door thresholds and the like		
Plot Number	(Section 3, Defects List)	Action Required	
42,43,44 & 45.	No Defects recorded at the time of our inspection.	N/A	

Signed: Adam McDermott (TGPV) Date: 13/04/2023

Plot Overview Photographs



Overview of plots 42-45.



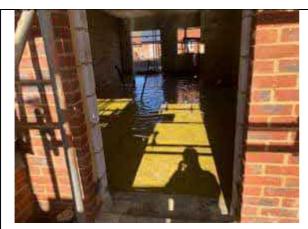
Plot 42 pick testing all SAGM detailing.



Plot 42 typical pipe penetration seal using SAGM.







Plot 42 overview of installed membrane.



Plot 43 typical double pipe penetration seal using SAGM.



Plot 43 overview of installed membrane.



Plot 43 air lancing all hand welded membrane laps.







Plot 44 air brick in place at the time of our inspection.



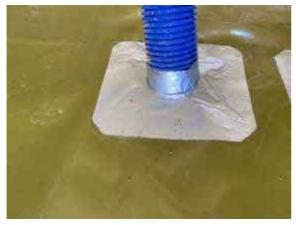
Plot 44 overview of installed membrane.



Plot 44 typical double pipe penetration seal using SAGM.



Plot 45 overview of installed membrane.



Plot 45 typical pipe penetration seal using SAGM.



Plot 45 sealed door threshold detail using SAGM.





Housebuilder Name: Berkeley Homes - Sunninghill Square. Date: 11/05/2023

Site Name: Sunninghill, Ascot, Berkshire. Weather: 12°C Dry

Installer: UK Membranes

Postcode: SL5 9TB. Surveyor: Adam McDermott (TGPV)

Plot Number	Building Type	Extent of Inspection	Result
47,48,49 & 50.	Terrace.	Infill	Pass

(Section 1, Materials and Method of Seal)

Gas Membrane Name: Visqueen HC Blok.

Corner Seal Method: Corners have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Service Entry Seal Method: The external of the pipe/ducts have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Annulus to Water Pipe Duct: The alkathene water pipe has either not been sealed or is not in place at the time of our inspection, this will require sealing to an approved method, this is outside the remit of the result of todays inspection

Door Threshold Seal Method: Door Thresholds have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Cavity Vent Seal Method: The cavity vents sit below the membrane that seals the cavity and do not require a specialist seal

Material Jointing Method: The membrane has been overlapped sufficiently to achieve a sound joint, the joint is clean and dry and has been joined by means of hand welding with a hot air gun and neoprene roller, the width of the welded joint is a minimum of 30mm.

(Section 2, Testing and Inspection Method)			
Leak/Hole Detection	MEC Environmental Ltd carried out a thorough Visual Inspection to the available area at the time of our inspection		
Joint Testing	The surveyor carried out Air Lance testing as per the method prescribed in ASTM D4437 to all detailing work, detailing work is defined as any part of the installation that includes a joint in the membrane, this includes but is not limited to pipes/ducts, stanchions, wind posts, braces, field seams, masonry abutments, tanking, door thresholds and the like		
Plot Number	(Section 3, Defects List)	Action Required	
47,48,49 & 50.	No Defects recorded at the time of our inspection.	N/A	





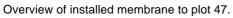
Signed: Adam McDermott (TGPV) Date: 11/05/2023

Plot Overview Photographs



Overview of plots 47,48,49 & 50.







Typical pipe penetration seal using SAGM to plot 47.







Typical door threshold seal using SAGM to plot 47.



Overview of installed membrane to plot 48.



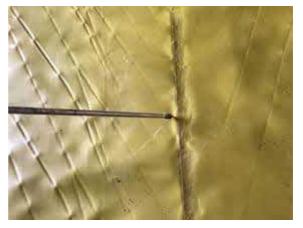
Typical double pipe penetration seal using SAGM to plot 48.



Hand welded membrane lap to plot 48.



Overview of installed membrane to plot 49.



Air lancing all hand welded membrane laps in plot 49.



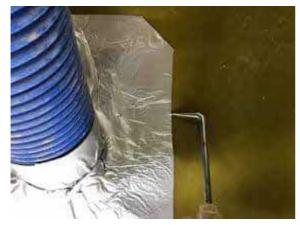




Air brick in place at the time of our inspection to plot



Overview of installed membrane to plot 50.



Pick testing all SAGM detailing in plot 50.



Typical pipe penetration seal using SAGM to plot 50.





Housebuilder Name: Berkeley Homes - Sunninghill Square. Date: 15/05/2023

Site Name: Sunninghill, Ascot, Berkshire. Weather: 14°C Dry

Installer: UK Membranes

Postcode: SL5 9TB. Surveyor: Adam McDermott (TGPV)

Plot Number	Building Ty	pe	Extent of Inspection	Result
66 & 67.	Terrace.	In	nfill	Pass

(Section 1, Materials and Method of Seal)

Gas Membrane Name: Visqueen HC Blok.

Corner Seal Method: Corners have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Service Entry Seal Method: The external of the pipe/ducts have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Annulus to Water Pipe Duct: The alkathene water pipe has either not been sealed or is not in place at the time of our inspection, this will require sealing to an approved method, this is outside the remit of the result of todays inspection

Door Threshold Seal Method: Door Thresholds have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Cavity Vent Seal Method: The cavity vents sit below the membrane that seals the cavity and do not require a specialist seal

Material Jointing Method: The membrane has been overlapped sufficiently to achieve a sound joint, the joint is clean and dry and has been joined by means of hand welding with a hot air gun and neoprene roller, the width of the welded joint is a minimum of 30mm.

(Section 2, Testing and Inspection Method)				
Leak/Hole	MEC Environmental Ltd carried out a thorough Visual Inspection to the available.	ilable area at the		
Detection	time of our inspection			
Joint Testing	The surveyor carried out Air Lance testing as per the method prescribed in ASTM D4437 to all			
	detailing work, detailing work is defined as any part of the installation that includes a joint in the			
	membrane, this includes but is not limited to pipes/ducts, stanchions, wind posts, braces, field			
	seams, masonry abutments, tanking, door thresholds and the like			
Plot Number	(Section 3, Defects List)	Action Required		
66 & 67.	No Defects recorded at the time of our inspection.	N/A		





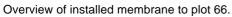
Signed: Adam McDermott (TGPV) Date: 15/05/2023

Plot Overview Photographs



Overview of plots 66 & 67.







Sealed pipe penetrations using SAGM to plot 66.



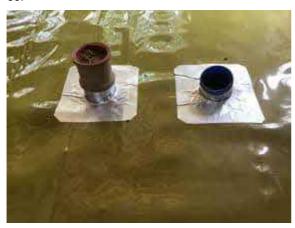




Air lancing all hand welded membrane laps to plot 66.



Pick testing all SAGM detailing to plot 67.



Sealed double pipe penetrations using SAGM to plot 67.



Patch repairs to damaged perimeter membrane using SAGM to plot 67.



Overview of installed membrane to plot 67.





Housebuilder Name: Berkeley Homes - Sunninghill Square. Date: 25/05/2023

Site Name: Sunninghill, Ascot, Berkshire. Weather: 12°C Dry

Installer: UK Membranes

Postcode: SL5 9TB. Surveyor: Adam McDermott (TGPV)

Plot Number	Building Type	Extent of Inspection	Result
64 & 65.	Terrace.	Infill	Pass
13-26.	Apartment Block C.	Infill	Pass

(Section 1, Materials and Method of Seal)

Gas Membrane Name: Visqueen HC Blok.

Corner Seal Method: Corners have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Service Entry Seal Method: The external of the pipe/ducts have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Annulus to Water Pipe Duct: The alkathene water pipe has either not been sealed or is not in place at the time of our inspection, this will require sealing to an approved method, this is outside the remit of the result of todays inspection

Door Threshold Seal Method: Door Thresholds have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Cavity Vent Seal Method: The cavity vents sit below the membrane that seals the cavity and do not require a specialist seal

Material Jointing Method: The membrane has been overlapped sufficiently to achieve a sound joint, the joint is clean and dry and has been joined by means of hand welding with a hot air gun and neoprene roller, the width of the welded joint is a minimum of 30mm.

(Section 2, Testing and Inspection Method)				
Leak/Hole Detection	MEC Environmental Ltd carried out a thorough Visual Inspection to the available area at the time of our inspection			
Joint Testing	The surveyor carried out Air Lance testing as per the method prescribed in ASTM D4437 to all detailing work, detailing work is defined as any part of the installation that includes a joint in the membrane, this includes but is not limited to pipes/ducts, stanchions, wind posts, braces, field seams, masonry abutments, tanking, door thresholds and the like			
Plot Number	(Section 3, Defects List)	Action Required		
64 & 65	N/A.	N/A		





Signed: Adam McDermott (TGPV) Date: 25/05/2023

Plot Overview Photographs



Overview of Apartment Block C.



Overview of plot 64.



Overview of plot 65.







Sealed door threshold detail using SAGM to plot 64.



Hand welded membrane lap to plot 64.



Air lancing all hand welded membrane laps to plot 64.



Typical double pipe penetration seal using SAGM to plot 64.



Pick testing all SAGM detailing to plot 64.



Air brick in place at the time of our inspection to plot 65.







Overview of installed membrane to plot 65.



Hand welded membrane lap to plot 65.



Typical pipe penetration seal using SAGM to plot 65.



Re sealed door threshold detail using SAGM to plot



Over of installed membrane to apartment block c entrance lobby.



Sealed pipe penetrations in riser cupboard to apartment block c.







Retro fit detail using SAGM to the base of the concrete stairs in apartment block b.





Housebuilder Name: Berkeley Homes - Sunninghill Square. Date: 25/05/2023

Site Name: Sunninghill, Ascot, Berkshire. Weather: 12°C Dry

Installer: UK Membranes

Postcode: SL5 9TB. Surveyor: Adam McDermott (TGPV)

		,	
Plot Number	Building Type	Extent of Inspection	Result
36.	Detached.	Garage Footprint	Pass
37,38 & 39	Semi Detached.	Garage Footprint	Pass

(Section 1, Materials and Method of Seal)

Gas Membrane Name: Visqueen HC Blok.

Corner Seal Method: Corners have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Service Entry Seal Method: The external of the pipe/ducts have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Annulus to Water Pipe Duct: The alkathene water pipe has either not been sealed or is not in place at the time of our inspection, this will require sealing to an approved method, this is outside the remit of the result of todays inspection

Door Threshold Seal Method: Door Thresholds have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Cavity Vent Seal Method: The cavity vents sit below the membrane that seals the cavity and do not require a specialist seal

Material Jointing Method: The membrane has been overlapped sufficiently to achieve a sound joint, the joint is clean and dry and has been joined by means of hand welding with a hot air gun and neoprene roller, the width of the welded joint is a minimum of 30mm.

(Section 2, Testing and Inspection Method)			
Leak/Hole Detection	MEC Environmental Ltd carried out a thorough Visual Inspection to the available of our inspection	ilable area at the	
Joint Testing	The surveyor carried out Air Lance testing as per the method prescribed in ASTM D4437 to all detailing work, detailing work is defined as any part of the installation that includes a joint in the membrane, this includes but is not limited to pipes/ducts, stanchions, wind posts, braces, field seams, masonry abutments, tanking, door thresholds and the like		
Plot Number	(Section 3, Defects List)	Action Required	
36,37,38 & 39.	No Defects recorded at the time of our inspection.	N/A	





Signed: Adam McDermott (TGPV) Date: 25/05/2023

Plot Overview Photographs







Overview of plot 38.



Overview of plot 37.



Overview of plot 39.







Overview of installed membrane to the garage area in plot 36.



Hand welded membrane lap to plot 36.



Overview of installed membrane to garage area in plot 37.



Pick testing all SAGM patches to damaged perimeter membrane to plot 37.



Overview of installed membrane to garage area to plot 38.



Overview of installed membrane to garage area to plot 39.



Housebuilder Name: Berkeley Homes - Sunninghill Square. Date: 09/06/2023

Site Name: Sunninghill, Ascot, Berkshire. Weather: 22 °C Dry

Installer: UK Membranes

Postcode: SL5 9TB. Surveyor: Adam McDermott (TGPV)

Plot Number	Building Type	Extent of Inspection	Result
		•	
40 & 41.	Linked Detached.	Garage Footprint	Pass
54-62.	Apartment Block H.	Infill	Pass
46.	Flat over garage.	Infill	Pass

(Section 1, Materials and Method of Seal)

Gas Membrane Name: Visqueen HC Blok gas membrane.

Corner Seal Method: Corners have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Service Entry Seal Method: The external of the pipe/ducts have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Annulus to Water Pipe Duct: The alkathene water pipe has either not been sealed or is not in place at the time of our inspection, this will require sealing to an approved method, this is outside the remit of the result of todays inspection

Door Threshold Seal Method: Door Thresholds have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Cavity Vent Seal Method: The cavity vents sit below the membrane that seals the cavity and do not require a specialist seal

Material Jointing Method: The membrane has been overlapped sufficiently to achieve a sound joint, the joint is clean and dry and has been joined by means of hand welding with a hot air gun and neoprene roller, the width of the welded joint is a minimum of 30mm.

(Section 2, Testing and Inspection Method)			
Leak/Hole	MEC Environmental Ltd carried out a thorough Visual Inspection to the available area at the		
Detection	time of our inspection		
Joint Testing	The surveyor carried out Air Lance testing as per the method prescribed in ASTM D4437 to all detailing work, detailing work is defined as any part of the installation that includes a joint in the membrane, this includes but is not limited to pipes/ducts, stanchions, wind posts, braces, field seams, masonry abutments, tanking, door thresholds and the like		
Plot Number	(Section 3, Defects List)	Action Required	
40,41,46 & 54-62.	No Defects recorded at the time of our inspection.	N/A	





Signed: Adam McDermott (TGPV) Date: 09/06/2023

Plot Overview Photographs



Overview of plot 40.



Overview of flat over garage plot 46.



Overview of plot 41.



Overview of Apartment Block H. Plots 54-62.







Overview of installed membrane to the garage, as an infill to plot 40.



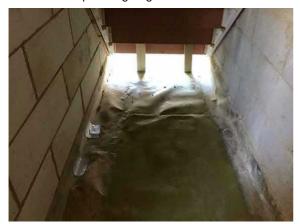
Hand welded membrane lap in garage plot 40.



Patch repair using SAGM to damaged perimeter membrane in plot 41 garage.



Overview of installed membrane to the garage in plot 41.



Overview of installed membrane to the entrance area in flat over garage plot 46.



Typical pipe penetration seal using SAGM to plot 46.







Overview of installed Visqueen HC Blok gas membrane, that has been installed as an infill to Apartment block H.



Air lancing all hand welded membrane laps in apartment block H.



Pick testing all SAGM detailing in apartment block H.



Typical pipe penetration seal using SAGM in apartment block H.





Housebuilder Name: Berkeley Homes - Sunninghill Square. Date: 03/07/2023

Site Name: Sunninghill, Ascot, Berkshire. Weather: 18 °C Dry

Installer: UK Membranes

Postcode: SL5 9TB. Surveyor: Adam McDermott (TGPV)

Plot Number	Building Type	Extent of Inspection	Result
69,70,71,72,73	Linked Detached.	Garage Footprint	Pass
& 74.			

(Section 1, Materials and Method of Seal)

Gas Membrane Name: Visqueen HC Blok gas membrane.

Corner Seal Method: Corners have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Service Entry Seal Method: The external of the pipe/ducts have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Annulus to Water Pipe Duct: The alkathene water pipe has either not been sealed or is not in place at the time of our inspection, this will require sealing to an approved method, this is outside the remit of the result of todays inspection

Door Threshold Seal Method: Door Thresholds have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Cavity Vent Seal Method: The cavity vents sit below the membrane that seals the cavity and do not require a specialist seal

Material Jointing Method: The membrane has been overlapped sufficiently to achieve a sound joint, the joint is clean and dry and has been joined by means of hand welding with a hot air gun and neoprene roller, the width of the welded joint is a minimum of 30mm.

(Section 2, Testing and Inspection Method)					
Leak/Hole	MEC Environmental Ltd carried out a thorough Visual Inspection to the available area at the				
Detection	time of our inspection				
Joint Testing	The surveyor carried out Air Lance testing as per the method prescribed in ASTM D4437 to all				
	detailing work, detailing work is defined as any part of the installation that includes a joint in the				
	membrane, this includes but is not limited to pipes/ducts, stanchions, wind posts, braces, field				
	seams, masonry abutments, tanking, door thresholds and the like				
Plot Number	lumber (Section 3, Defects List) Action Required				





69,70,71,72,73 &	No Defects recorded at the time of our inspection.	N/A
74.		

Signed: Adam McDermott (TGPV) Date: 03/07/2023

Plot Overview Photographs



Overview of plot 69.



Overview of plot 71.



Overview of plot 70.



Overview of plot 72.









Overview of plot 73.

Overview of plot 74.



Overview of installed membrane to the garage, as an infill to plot 69.



Overview of installed membrane to the garage, as an infill to plot 70.



Overview of installed membrane to the garage, as an infill to plot 71.



Overview of installed membrane to the garage, as an infill to plot 72.







Overview of installed membrane to the garage, as an infill to plot 73.



Overview of installed membrane to the garage, as an infill to plot 74.



Air lancing all hand welded membrane laps.



Pick testing all SAGM detailing.



Patch repairs using SAGM to damaged membrane.



Sealed front of garage using SAGM.





Housebuilder Name: Berkeley Homes - Sunninghill Square. Date: 08/08/2023

Site Name: Sunninghill, Ascot, Berkshire. Weather: 18 °C Showers

Installer: UK Membranes

Postcode: SL5 9TB. Surveyor: Adam McDermott (TGPV)

		, ,	
Plot Number	Building Type	Extent of Inspection	Result
45	Terrace.	Garage Footprint	Pass
51,52 & 53.	Terrace.	Infill	Pass

(Section 1, Materials and Method of Seal)

Gas Membrane Name: Visqueen HC Blok gas membrane.

Corner Seal Method: Corners have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Service Entry Seal Method: The external of the pipe/ducts have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Annulus to Water Pipe Duct: The alkathene water pipe has either not been sealed or is not in place at the time of our inspection, this will require sealing to an approved method, this is outside the remit of the result of todays inspection

Door Threshold Seal Method: Door Thresholds have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Cavity Vent Seal Method: The cavity vents sit below the membrane that seals the cavity and do not require a specialist seal

Material Jointing Method: The membrane has been overlapped sufficiently to achieve a sound joint, the joint is clean and dry and has been joined by means of hand welding with a hot air gun and neoprene roller, the width of the welded joint is a minimum of 30mm.

(Section 2, Testing and Inspection Method)			
Leak/Hole	MEC Environmental Ltd carried out a thorough Visual Inspection to the available area at the		
Detection	time of our inspection		
Joint Testing	The surveyor carried out Probe testing as per the method prescribed in ASTM D4437 to all detailing work, detailing work is defined as any part of the installation that includes a joint in the membrane, this includes but is not limited to pipes/ducts, stanchions, wind posts, braces, field seams, masonry abutments, tanking, door thresholds and the like		
Plot Number	(Section 3, Defects List)	Action Required	
45,51,52 & 53.	No Defects recorded at the time of our inspection.	N/A	





Signed: Adam McDermott (TGPV) Date: 08/08/2023

Plot Overview Photographs





Overview of plot 45.

Overview of plots 51-53.



Overview of installed membrane to garage area in plot 45.



Sealed pipe penetration using SAGM to the rear of the garage plot 45.







Hand welded membrane lap in plot 51.



Pick testing all hand welded membrane laps in plot 51.



Pick testing all SAGM detailing in plot 52.



Typical pipe penetration seal using SAGM in plot 52.



Sealed double pipe penetration using SAGM to plot 53.



Air brick in place at the time of our inspection to plots 51-53.





Housebuilder Name: Berkeley Homes - Sunninghill Square. Date: 31/08/2023

Site Name: Sunninghill, Ascot, Berkshire. Weather: 16 °C Cloudy

Installer: UK Membranes

Postcode: SL5 9TB. Surveyor: Adam McDermott (TGPV)

Plot Number	Building Type	Extent of Inspection	Result
63 & 64 / 67 & 68.	Linked Detached.	Garage Footprint	Pass

(Section 1, Materials and Method of Seal)

Gas Membrane Name: Visqueen HC Blok gas membrane.

Corner Seal Method: Corners have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Service Entry Seal Method: The external of the pipe/ducts have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Annulus to Water Pipe Duct: The alkathene water pipe has either not been sealed or is not in place at the time of our inspection, this will require sealing to an approved method, this is outside the remit of the result of todays inspection

Door Threshold Seal Method: Door Thresholds have been sealed using strips of self-adhesive gas membrane, this is an approved and recognised method in CIRIA C735

Cavity Vent Seal Method: The cavity vents sit below the membrane that seals the cavity and do not require a specialist seal

Material Jointing Method: The membrane has been overlapped sufficiently to achieve a sound joint, the joint is clean and dry and has been joined by means of hand welding with a hot air gun and neoprene roller, the width of the welded joint is a minimum of 30mm.

(Section 2, Testing and Inspection Method)					
Leak/Hole	/Hole MEC Environmental Ltd carried out a thorough Visual Inspection to the available area at the				
Detection	time of our inspection				
Joint Testing	The surveyor carried out Probe testing as per the method prescribed in ASTM D4437 to all				
	detailing work, detailing work is defined as any part of the installation that includes a joint in the				
	membrane, this includes but is not limited to pipes/ducts, stanchions, wind posts, braces, field				
	seams, masonry abutments, tanking, door thresholds and the like				
Plot Number	(Section 3, Defects List) Action Required				



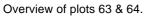


63,64,67 & 68.	No Defects recorded at the time of our inspection.	N/A

Signed: Adam McDermott (TGPV) Date: 31/08/2023

Plot Overview Photographs







Overview of plot 67.



Overview of plot 68.







Overview of installed membrane in garage plot 63.



Overview of installed membrane in garage plot 64.



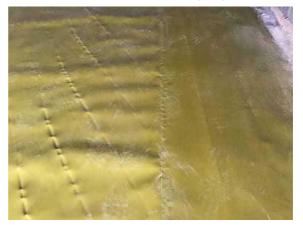
Overview of installed membrane in garage plot 67.



Overview of installed membrane in garage plot 68.



Pick testing all hand welded membrane laps.



Typical hand welded membrane lap.







Patch repairs using SAGM to damaged perimeter membrane.





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