



Ground Gas Mitigation: Verification Inspection Report

Pearsons Close
(Prev. 128 Barrier Bank),
Cowbit, Spalding, PE12 6AL

Issue 2

March 2026



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1 Introduction

1.1 Report Objectives

MEC Environmental Ltd (MEC) has been appointed by MB Membranes Limited [the Client] to provide a 'Verification Inspection Report' for the ground gas mitigation measures as constructed at Pearsons Close (Previously 128 Barrier Bank), Cowbit, Spalding, PE12 6AL [the Site].

This document is referred to as 'Issue 2' and provides all outstanding CQA / verification inspection information for the sub-floor void and gas membrane construction.

Specifically, this Verification Inspection Report is provided in response to Clause 8.4 of British Standard BS8485:2015+A1:2019¹ (hereafter referred to as the 'British Standard').

1.2 Limitations

Per the British Standard, the process² for delivery of gas mitigation as part of a development may be summarised as follows:



This Verification Inspection Report relates to the final stage in the above process (highlighted 'green') and provides:

- An overview of the gas mitigation installed;
- Details of who installed the gas mitigation;
- Details of who completed inspection(s) of the gas mitigation;
- The results of any visual observations / physical verification testing completed;
- A summary of any defects identified, corrective actions implemented etc.; and
- A concluding comment about the materials and workmanship as observed during MEC's inspections.

Explicitly:

- Where there is a waterproofing element to any project MEC's responsibility shall be limited to inspecting the work with respect to ground gas only. No professional liability will be offered, extended or implied in respect of waterproofing, which should be designed and checked by a CSSW qualified surveyor.

¹ BS8485:2015+A1:2019 – Code of Practice for the Design of Protective Measures for Methane and Carbon Dioxide Ground Gases for New Buildings. BSI, 2019.

² A summary of the gas protection design process as set out in BS8485:2015+A1:2019 is provided in Figure 4.2 (document page 58) of the NHBC's NF94 publication: Hazardous Ground Gas – An Essential Guide for Housebuilders (NHBC, April 2023). The design process outlined in Figure 4.2 is applicable to all building types, not just housing. A copy of the NHBC's document can be downloaded for free via the following link: <https://www.nhbc.co.uk/binaries/content/assets/nhbc/foundation/hazardous-ground-gas.pdf>

- The report is provided on the assumption that no damage or works that may have compromised the components and integrity of the gas mitigation 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 terms of engagement.

2 Gas Mitigation System

The British Standard identifies three main components which typically contribute toward a gas mitigation system:

- Structural Barrier;
- Ventilation; and
- Gas Resistant Membrane.

Per the 'Gas Protection Design & Verification Plan' prepared for the site (MEC, 2024), components of the gas mitigation system are summarised in Table 1.

Table 1. Gas Mitigation Summary

Component	Summary
Structural Barrier	Beam and Block Floor Slab
Ventilation – Houses & Garages (Adjoining or Detached)	Minimally: • Sub-slab to comprise 200mm deep open void; • The sub-slab void to be vented by telescopic vents terminated to air bricks constructed per the Ventilation Markups, each providing a ventilation area of >6,000mm²; • Cross vents to all sleeper walls will be constructed per the Ventilation Markups, comprising missed blockwork, each providing >6,000mm² ventilation area; and • The bottom of the air bricks will be constructed at least one brick course above finished ground level (150mm to top of air brick). The above is per the venting layout plans provided as Appendix B of the Gas Protection Design & Verification Plan (MEC, 2024).
Gas Resistant Membrane – Houses & Garages (Adjoining or Detached)	• Perimeter & Internal Load Bearing Walls: JUTA GP DPC; • Infill: JUTA GP5; • Laps, Joints: Heat welded; • Detailing – JUTA GP1 Self Adhesive Membrane (SAM). • Continuity of gas membrane across cavity wall construction, terminating onto external leaf blockwork.

Material data sheets for the JUTA GP DPC, JUTA GP5 and JUTA GP1 SAM are provided in Appendix A.

3 Responsible Parties & Competence

3.1 Gas Mitigation System Construction

The parties responsible for construction of the gas mitigation system components, and where appropriate their associated qualifications, are summarised in Table 2.

Table 2. Responsible Parties

Component	Responsible Party & Competence (Where Applicable)
Structural Barrier	Scenic Homes (or their designate, East Anglia Civils Limited (Ground Worker))
Ventilation	Scenic Homes (or their designate, East Anglia Civils Limited (Ground Worker))
Gas Resistant Membrane	MB Membranes Limited Qualification: NVQ Level 2 Diploma in Substructure Work Occupations (Installation of Gas Membranes – Construction).

3.2 Gas Mitigation System Verifier

Inspection verification visits completed by MEC were undertaken by Surveyors who hold either:

- NVQ Level 2 Diploma in Substructure Work Occupations (Installation of Gas Membranes – Construction); and/or
- NVQ Level 4 Diploma in Verification of Ground Gas Protection Systems; and/or
- CL:AIRE³ Technician in Gas Protection Verification (TGVP); and/or
- CL:AIRE Specialist in Gas Protection Verification (SGVP).

³ Contaminated Land: Applications In Real Environments

4 Verification Information

4.1 Gas Resistant Membrane

MEC has verified the areas of gas membrane construction per Table 3.

Table 3. Remit of Inspection Visits – Gas Resistant Membrane

Plot IDs	MEC Inspection Date: Perimeter & Internal Masonry Walls	MEC Inspection Date: Infill
1 – House	24 October 2024	7 April 2025
2 – House & Integral Garage	4 September 2024	10 December 2024
3 – House	24 October 2024	11 July 2025
4 – House & Integral Garage	24 October 2024	15 April 2025
5 – House	24 October 2024	15 April 2025
1 – Garage	24 October 2024	25 July 2025
3 – Garage	24 October 2024	25 July 2025
5 – Garage	24 October 2024	25 July 2025
4 – Extension Area	11 March 2025	15 April 2025
3 – Extension Area	7 April 2025	11 July 2025

Following each MEC verification visit a Verifier Site Inspection Form was issued to the Client. Copies of the Verifier Site Inspection Forms are provided in Appendix B. A summary of MEC's verification inspection observations is provided in Table 4.

Table 4. Gas Resistant Membrane, Summary of MEC Observations

Item	MEC Observation
Perimeter & Internal Masonry Walls – All Houses / Garages	- The gas resistant membrane comprised JUTA GP DPC. - The gas resistant membrane was visually inspected (100%) for evidence of holes, rips, tares and/or pressure points / punctures. - All joints/laps had been hand welded. - All detailing had been completed using JUTA GP1 SAM, heat and pressure applied. - All (100%) joints/laps were subject to physical (probe) testing to ASTM D4437. - The gas resistant membrane was observed to be continuous through the cavity wall construction, terminated to the outer leaf brickwork, above the constructed perimeter air bricks.
Infill – All Houses / Garages	- The gas resistant membrane comprised JUTA GP5. - The gas resistant membrane was visually inspected (100%) for evidence of holes, rips, tares and/or pressure points / punctures. - All joints/laps had been hand welded. - All detailing had been completed using JUTA GP1 SAM, heat and pressure applied. - All (100%) joints/laps were subject to physical (probe) testing to ASTM D4437.
Defects	Visit 10 December 2024 – Plot 2, Infill: 2 No. defects were identified by MEC. Visit 7 April 2025 – Plot 1, Infill: 4 No. defects were identified by MEC. Visit 15 April 2025 - Plot 4, Infill & Plot 5, Infill: 3 No. defects were identified to Plot 4 by MEC, 2 No. defects were identified to Plot 5 by MEC. Visit 11 July 2025 – Plot 3 Infill: 3 No. defects were identified by MEC. <i>Note: All defects were repaired using JUTA GP1 SAM patches, heat and pressure applied.</i>

In summary, MEC typically observed works relating to the gas resistant membrane construction being carried out in a workmanlike manner, with materials that were adequately prepared and applied, used and fixed so as to perform the function for which they are intended.

4.2 Structural Barrier

Note: Table 5 of the British Standard does not allot Gas Protection Points for a suspended segmental floor slab and thus this component of the gas mitigation strategy does not require formal verification.

Notwithstanding the above:

- MEC observed construction of the gas resistant membrane on top of the beam and block floor slab construction; and
- MEC observed that the beam and block floor slab had been prepared prior to placement of the gas resistant membrane, such that the substrate to the gas resistant membrane was uniform and smooth.

4.3 Sub-Slab Venting

Scenic Homes has provided Construction Quality Assurance (CQA) photos for the sub-slab void construction to all houses and garages constructed as part of the development. These are presented in Appendix C and confirm a constructed void depth >200mm deep and cross venting provision to sleeper walls via missed blockwork.

In addition to the above, MEC has inspected the constructed telescopic vents and air bricks per the remit summarised in Table 5 (see Appendix B for Verifiers' Site Inspection Form).

Table 5. Remit of Inspection Visits – Sub Slab Venting

Plot IDs	MEC Verification Inspection Date
1 – House	24 October 2024
2 – House & Integral Garage	
3 – House	
4 – House & Integral Garage	
5 – House	
1 – Garage	
3 – Garage	
5 – Garage	

MEC observed that telescopic vents and air bricks have been constructed per the venting layout plans, with the exception of Plot 2 (where 2 No. vents / air bricks had been omitted due to a coordination issue with door / threshold detailing) and Plot 4 (where 1 No. vent / air brick has been omitted, presumed by error). Revised ventilation calculations were completed by East Anglian Civils Limited for Plots 2 and 4 (see Appendix C). These confirm the as-built venting provision to exceed requirements by 32% at Plot 2 and 41 % at Plot 4. As such, retrospective installation of the missing vents is not considered to be required.

With regard to the constructed height of the air bricks relative to finished level, this is subject to on-going construction works on site. However, where construction works are nearing completion it is evident that the air bricks will terminate one brick course (150mm) above finished levels.

Overall, MEC typically observed works relating to the sub-slab venting construction being carried out as per the Gas Protection Design & Verification Plan (MEC, 2024).

5 Conclusions

MEC typically observed works relating to the gas resistant membrane construction being carried out in a workmanlike manner, with materials that were adequately prepared and applied, used and fixed so as to perform the function for which they are intended.

The sub-slab venting provision was observed to be generally arranged per the venting layout plans presented in Appendix B of the Gas Protection Design & Verification Plan (MEC, 2024).

It is the responsibility of the Developer (or their appointed Planning Consultant) to submit a copy of this Verification Inspection Report, for comment/approval to the Local Authority (as/if required per Planning Conditions) and any development Warranty Provider.

Appendix A – Technical Data Sheets



GP® DPC

GP® DPC - Gas Resistant DPC is a unique single layer, embossed High Performance DPC. GP® DPC is specifically designed and manufactured to perform as a methane, carbon dioxide, radon and moisture resistant damp proof course.

TITANTECH®

For developers of brownfield and contaminated sites the TITANTECH® family of products represent a major step forward in safeguarding projects against gaseous and chemical contamination.

GP® DPC complies with the latest codes of practice as published by BRE, CIRIA and BSI (BS EN 14909 and BS8485:2015). Suitable for use as a High Performance DPC for vertical and horizontal applications. Superior adhesion to mortar is essential for buildings of 3+ storey height.

GP® DPC has an embossed surface to create superior mortar adhesion which is essential when being used in 3+ storey applications. JUTA GP® DPC is compliant to BS EN 14909:2012 and can be used in both vertical and horizontal applications.

Handling

Roll weights can be in excess of 5 kg and hence appropriate care and equipment is required for unloading and handling.

Thickness	0.8 mm
Width	100-1200 m
Length	20 m
Weight	730 g/m ²

Named Accessory in Certification



Please
Scan



Rev 2024



Feature	Characteristics	Test Method	GP® RADON DPC
Physical Properties	Thickness	EN 1849-2	0.8 mm
	Width	EN 1849-2	100-1200 m
	Length	EN 1849-2	20 m
	Weight	EN 1849-2	730 g/m ²
Hydraulic Properties	Water Vapour Permeation	EN 1931	0.09 g/m ² /day
	Resistance to Water Penetration	EN 1928	Pass
Mechanical Properties	Resistance to Static Load	EN 12730 - B	20 kg
	Tensile Strength (MD)	EN 12311-1	24 N/mm ²
	Tensile Strength (CMD)	EN 12311-1	22 N/mm ²
	Tensile Elongation (MD)	EN 12311-1	398%
	Tensile Elongation (CMD)	EN 12311-1	446%
	Resistance to Impact	EN 12691	660 mm
	Resistance to Tearing (Nail Shank) MD	EN 12310-1	700 N
	Resistance to Tearing (Nail Shank) CMD	EN 12310-1	750 N
	Joint Strength	EN 12317-1	520 N
Durability and Chemical Resistance	Heat Ageing	EN 1926	Pass
	Chemical Resistance	EN 1847	Pass
	Resistance to Fire	EN 13501-1	Class F
	Resistance to Low Temperature	EN 495-5	Pass @ -40°C
Gas Permeability	Radon Permeability	K124/02/95	9.5x10 ⁻¹² /m ² /s
	Methane Permeability	BS EN ISO 15105-1	33.9ml/m ² /day/atm
Compliance and Certification	CE Mark - EN13967:2012		
	NHBC Standards Compliant		
	BS EN 14909:2012 Compliant		
	BS 8485:2015 Compliant		

Feature	Pre-Compression (N/mm ²)	Characteristic Shear Strength (N/mm ²)
Characteristic Shear Strength	0.2	0.14
	0.6	0.34
	1.0	0.52

JUTA UK

For additional information or assistance, please contact JUTA UK directly.

Storage

Rolls of JUTA GP® DPC should be stored on stable/level ground and stacked not more than five rolls high, with no other material stacked on top. The rolls can be stored outdoors when packaged but should be protected from exposure to UV. JUTA GP® DPC is classified as non-hazardous and is chemically inert such that it will not react with any acid or alkali environment in which it is used.



Installation

GP® DPC must be installed in accordance with the guidelines laid out in BS8215:1991, BS8000: part 3 and BS 5628. It can be used in most common floor constructions and is installed in a similar manor to damp proof membrane. For external walls the DPC should be applied 150mm above the adjoining surface and should be linked to a DPM or Gas Resistant DPM in solid floors. The DPC should be applied to a fresh bed of mortar, completely free of projections that may puncture the material or impede the DPC from lying flat.

JUTA UK

For additional information or assistance, please contact JUTA UK directly.

Joining and Sealing

Sheets of GP® DPC must be clean, dry and free from dirt and grease before application of joining tape. JUTA GP® DPC may also be heat welded to the underlying Gas resistant membrane.

Accessory Products

JUTA GP® DPC is an accessory product for use in combination with GP® 1, GP® 2, GP®H, GP®SAM and GP® TITANTECH gas protective membranes. It is also compatible with a range of DPM and other DPC materials.



GP®5

GP®5 gas barrier is a multi-layer composite of virgin polyethylene (PE) giving exceptional resistance to the passage of ground gas and organic vapours. It also acts as a high performance DPM.

Thickness	0.4 mm
Width	Various m
Length	Various m
Weight	400 g/m ²

TITANTECH®

For developers of brownfield and contaminated sites the TITANTECH® family of products represent a major step forward in safeguarding projects against gaseous and chemical contamination.

GP®5 is suitable for the following applications:

- Carbon dioxide and methane affected sites in accordance with BS 8485:2015 + A1:2019 & NHBC
- Radon affected sites in accordance with BRE211:2015
- Damp protection in accordance with Building Regulations Part C
- Low level VOC contaminated sites (site specific assessment required)

Handling

Roll weights can be in excess of 20kg and hence appropriate care and equipment is required for unloading and handling.

Installation

GP®5 should be installed in accordance with the product installation guidelines, and in accordance with BS 8485:2015.

Certifications



Please
Scan



Rev 2024



Feature	Characteristics	Test Method	GP [®] 5
Physical Properties	Thickness	EN 1849-2	0.4 mm
	Width	EN 1849-2	Various m
	Length	EN 1849-2	Various m
	Weight	EN 1849-2	400 g/m ²
Hydraulic Press	Resistance to Water Penetration	EN 1928 (A)	Pass
Mechanical Properties	Resistance to Static Load	EN 12730	> 20 kg
	Tensile Strength (MD)	EN 12311-2 (A)	> 300 N/50mm
	Tensile Strength (CMD)	EN 12311-2 (A)	> 300 N/50mm
	Resistance to Tearing (Nail Shank) MD	EN 12310-1	> 230 N
	Resistance to Tearing (Nail Shank) CMD	EN 12310-1	> 230 N
	Impact Resistance	EN 12691-B	500 mm
	Puncture Resistance	ASTM D 4833	> 160 N
	Puncture Resistance	EN 12236	1.60 kN
	Reaction to Fire	EN 13501-1	E
Vapour Permeability	Methane Permeability	BS EN ISO 15105-1	0.12 ml/m ² /day/atm
	Carbon Dioxide Permeability	BS EN ISO 15105-1	1.53 ml/m ² /day/atm
	Hydrogen Permeability	BS EN ISO 15105-1	68.7 ml/m ² /day/atm
	Benzene Permeability	BS EN ISO 15105-2	0.41 ml/m ² /day
	Oxygen Permeability	BS EN ISO 15105-2	<3 ml/m ² /day
	Radon Permeability	K124/02/95	1.0 x 10 ⁻¹² m ² /s
	Hydrogen Sulphide Permeability	BS EN ISO 15105-1	<0.68 ml/m ² /day/atm
Fuel Vapour Permeability	Petrol	BS EN ISO 15105-2	(ave.) 3.4 x 10 ⁻¹³ /mol/(m ² .s.Pa)
	Diesel	BS EN ISO 15105-2	(ave.) 3.4 x 10 ⁻¹³ /mol/(m ² .s.Pa)
Durability	Durability Watertightness After Artificial Ageing	EN 1928	Pass
	Durability Watertightness Against Chemicals	EN 1928	Pass
Compliance and Certification	CE Mark - EN 13967:2012		
	NHBC Standards Compliant		
	BS 8485:2015 + A1 2019 Accordant		

JUTA UK

Please contact JUTA UK Directly for more information on GP[®]5

Storage

Rolls of GP[®]5 should be stored on stable/level ground and stacked not more than five rolls high, with no other material stacked on top. The rolls can be stored outdoors when packaged, but should be protected from exposure to UV.



JUTA UK

Please contact JUTA
UK Directly for more
information on GP[®]5

Jointing and Sealing

It is recommended GP[®]5 can be heat welded where possible, with welding carried out by competent personnel with suitable qualifications in accordance with best practice, and guidance contained within BS 8485:2015. GP[®]5 should be overlapped by at least 100mm. If taping joints, only suitable tape must be used, ensuring application with a silicone roller to remove trapped air. JUTA pre-formed details, or self adhesive gas membrane are available for sealing around protuberances.

Accessory Products

- GP[®] DPC
- GP[®] Tape
- GP[®] Self Adhesive Membrane (SAM)
- GP[®] Primer
- GP[®] Top Hats and Preformed Corners
- GP[®] Protection Fleece
- GP[®] Void Vent (24/40mm)



GP[®]1 SAM

GP[®]1 SAM, gas protection self adhesive membrane, is a bituminous gas proof and water proof sheet, composed of self-adhesive SBS polymer modified bitumen incorporating GP[®]1 with an upper surface finish of black reinforced LDPE, and a lower surface finish of siliconized release film. GP[®]1 SAM is used for the gas/waterproofing of underground structures where harmful ground gasses are anticipated, and as a self adhesive accessory to GP[®]1.

Thickness	1.2 mm
Width	0.9 m or 0.3 m
Length	20 m
Weight	1100 g/m ²

TITANTECH[®]

For developers of brownfield and contaminated sites the TITANTECH[®] family of products represent a major step forward in safeguarding projects against gaseous and chemical contamination.

Handling

Roll weights can be in excess of 20 kg (approx 33 kg/roll) and hence appropriate care and equipment is required for unloading and handling. This product is non-toxic nor flammable.

Storage

Rolls of GP[®]1 SAM should be stored on in a cool, dry place, and be protected from exposure to rain, sun, heat and cold temperatures prior to installation. Exposure to sunlight for extended period of time could cause difficulty with removal of the release film.





Feature	Characteristics	Test Method	GP [®] 1 SAM
Physical Properties	Thickness	EN 1849-2	1.2 mm
	Width	EN 1849-2	0.9 or 0.3 m
	Length	EN 1849-2	20 m
	Weight	EN 1849-2	1100 g/m ²
Hydraulic Press	Water Tightness	EN 1928	Pass
	Water Vapour Transmission	EN 1931	0.013 g/m ² /day
Mechanical Properties	Tensile Strength (MD/CMD)	EN 12311-2 (A)	500 N/50mm
	Elongation (MD/CMD)	EN 12311-2 (A)	> 12 %
	Resistance to Static Load	EN 12370	20 kg
	Joint Strength	EN 12317-2	> 30 N
	Durability and Water Tightness (Ageing and Chemicals) 60 kPa	EN 1847	Pass
	Resistance to Nail Tear (MD/CMD)	EN 12310-1	> 300 N
	Resistance to Fire	EN 13501	F Euro Class
Gas Permeability	Methane Permeability	EN ISO 15105-1	< 0.68 ml/m ² /day/atm
	Carbon Dioxide Permeability	EN ISO 15105-1	< 2.81 ml/m ² /day/atm
	Radon Permeability	K124/02/95	8.0 x 10 ⁻¹⁵ m ² /S
Compliance and Certification	CE Mark - EN13967:2012 + A1:2017 Type (A/T)		
	BS 8485:2015 Compliant (Methane and Carbon Dioxide Barrier)		

JUTA UK

Please contact JUTA UK Directly for more information on GP[®]1 SAM

Installation

GP[®]1 SAM should be installed in accordance with the product installation guidelines, and in accordance with BS 8485:2015, and/or BS 8102:2009.

It is recommended that GP[®]1 SAM is not applied in temperatures below 10°C, in colder weather the material can be warmed slightly to aid adhesion.

Accessory Products

- GP[®] Primer
- GP[®] Protection Board
- GP[®] Protection Fleece

Appendix B – MEC Site Visit Inspection Forms

Housebuilder Name: Scenic Homes			Date: 04/09/2024
Site Name: Pearsons Close, Spalding			Weather: 18°C Dry/Overcast
			Installer: MB Membranes
Postcode: PE12 6AL		Surveyor: James Hall (TGPV)	
Plot Number	Building Type	Extent of Inspection	Result
2	Detached	Perimeter and internal masonry walls	Pass
(Section 1, Materials and Method of Seal)			
Gas Membrane Name: Juta GP DPC & Juta GP1 SAM.			
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 today's 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 either sit below the membrane that seals the cavity (and do not require a specialist seal) or strips of self-adhesive gas membrane have been used to seal above the top of the telescopic riser where they protrude, this is an approved and recognised method in CIRIA C735.			
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)			
Inspection	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 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
2	No defects recorded at the time of our inspection.	N/A
Signed: James Hall (TGPV) Date: 04/09/2024		

Plot Overview Photographs



Area highlighted is where today's inspection took place.



Evidence of Juta GP DPC used for perimeter & internals.



Evidence of Juta GP1 SAM used for detailing works.



Overview of the perimeter and internal wall installation to Plot 2.



An alternative overview of the perimeter and internal wall installation to Plot 2.



Overview of perimeter installation along external cavity wall.



Perimeter installation using Juta GP DPC.



Overview of internal masonry wall installation using Juta GP DPC.



Overview of internal masonry wall installation using Juta GP DPC.

Detailing Sample Photographs



Corner detailing with Juta GP1 SAM.



Pipe penetration detailing with Juta GP1 SAM.



Probe testing to internal wall corner detailing.



Probe testing to cavity vent detailing.



Probe testing to door threshold detailing.



Probe testing to pipe penetration detailing.



Cavity vents in place below Juta GP DPC installation
at time of inspection.

Housebuilder Name: Scenic Homes			Date: 24/10/2024
Site Name: Pearson Close, Cowbit			Weather: 16°C Fine
			Installer: MB Membranes
Postcode: PE12 6AL		Surveyor: James Hall (TGPV)	
Plot Number	Building Type	Extent of Inspection	Result
1, 3, 4 & 5	Detached	Perimeter and internal masonry walls	Pass
1, 3 & 5	Garages	Perimeter only	Pass
(Section 1, Materials and Method of Seal)			
Gas Membrane Name: Juta GP TitanTech DPC & Juta GP1 SAM			
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 today's 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 either sit below the membrane that seals the cavity (and do not require a specialist seal) or strips of self-adhesive gas membrane have been used to seal above the top of the telescopic riser where they protrude, this is an approved and recognised method in CIRIA C735.			
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)			
Inspection	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 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
Houses 1, 3, 4 & 5	No defects recorded at the time of our inspection.	N/A
Garages 1 & 3 & 5		
Signed: James Hall (TGPV) Date: 24/10/2024		

Plot Overview Photographs



Areas highlighted is where today's inspection took place.



Overview of the perimeter installation to Plot 1.



Overview of the perimeter installation to Plot 1
Garage.



Overview of the perimeter installation to Plot 3.



Overview of the perimeter installation to Plot 3
Garage.



Overview of the perimeter installation to Plot 4.



Overview of the perimeter installation to Plot 5.



Overview of the perimeter installation to Plot 5
Garage.

Detailing Sample Photographs



Plot 1. Probe testing to corner detailing.



Plot 1. Probe testing to pipe penetration detailing.



Plot 1. Probe testing to door threshold detailing.



Plot 1. Probe testing along hand welded membrane lap joint.



Plot 1 Garage. Probe testing to corner detailing.



Plot 1 Garage. Probe testing along hand welded membrane lap joint.



Plot 1 Garage. Probe testing to door threshold detailing.



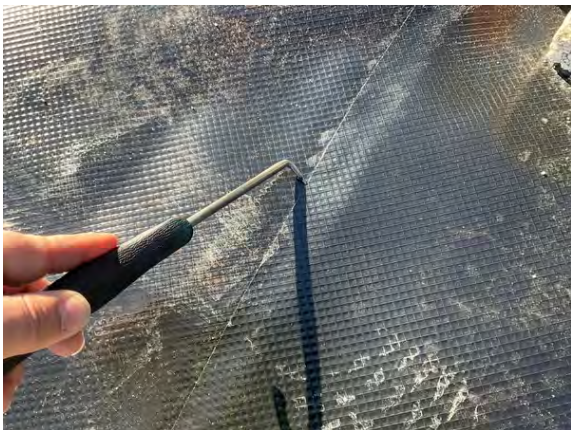
Plot 3. Probe testing to corner detailing.



Plot 3. Probe testing to door threshold detailing.



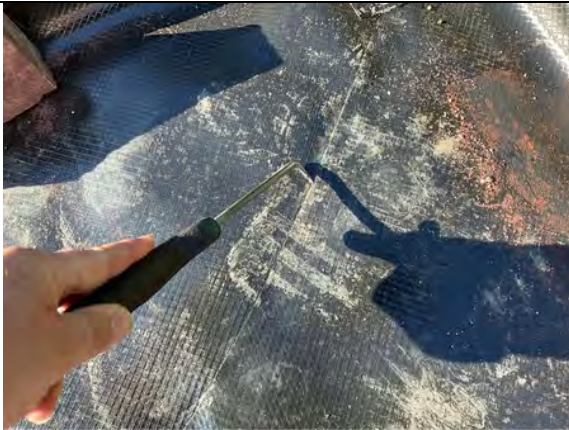
Plot 3. Probe testing to pipe penetration detailing.



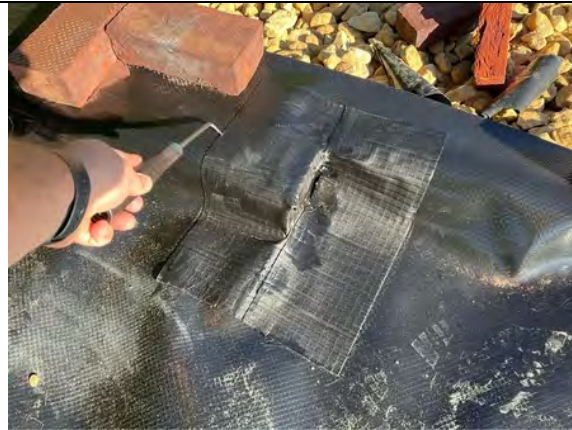
Plot 3. Probe testing along hand welded membrane lap joint.



Plot 3 Garage. Probe testing to corner detailing.



Plot 3 Garage. Probe testing along hand welded membrane lap joint.



Plot 3 Garage. Probe testing to door threshold detailing.



Plot 4. Probe testing to pipe penetration detailing.



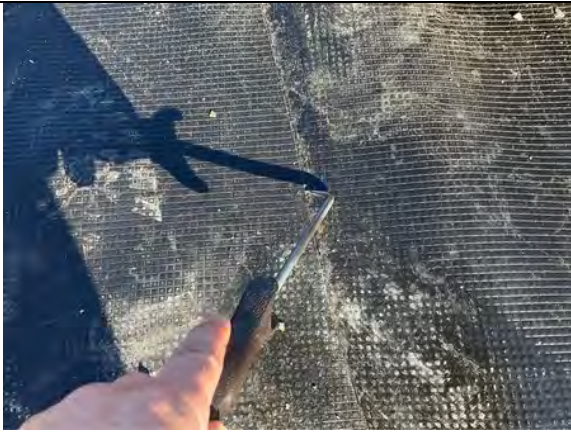
Plot 4. Probe testing to cavity vent detailing.



Plot 4. Probe testing to corner detailing.



Plot 4. Probe testing to door threshold detailing.



Plot 4. Probe testing along hand welded membrane lap joint.



Plot 5. Probe testing to door threshold detailing.



Plot 5. Probe testing to corner detailing.



Plot 5. Probe testing to pipe penetration detailing.



Plot 5. Probe testing along hand welded membrane lap joint.



Plot 5 Garage. Probe testing to door threshold detailing.



Plot 5 Garage. Probe testing along hand welded membrane lap joint.

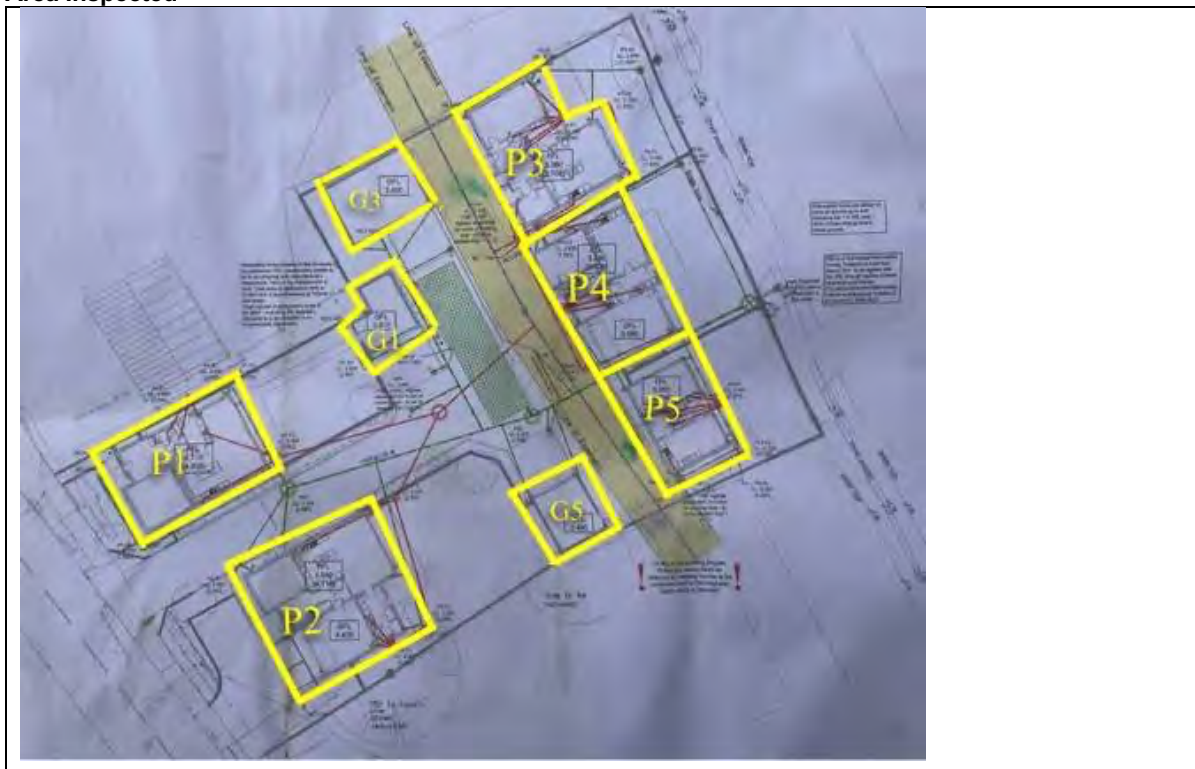


Plot 5 Garage. Probe testing to corner detailing.

Main Contractor Name: Scenic Homes		Date: 24/10/2024
Site Name: Pearson Close, Cowbit		Temp: 13°C
		Installer: Ground Works Contractor
Postcode: PE12 6AL	Surveyor: James Hall (TGPV)	
Building Reference/Unit No:	Plots 1-2-3-4-5 and Plots 1-3-5 Garages	
Area Inspected:	Telescopic Vents & Air Bricks	
Description of Works:	MEC Environmental carried out an inspection of the Telescopic Vents and Air Bricks. Plot 1: (14) Vents as per drawing. <i>Note: Air bricks were not installed at the time of inspection.</i> Plot 1 Garage: (6) Vents as per drawing. Plot 2: (16) Vents constructed as per drawing, 2 missing due to coordination issues with doors / thresholds. Plot 3: (16) Vents as per drawing. Plot 3 Garage: (8) Vents as per drawing. Plot 4: (16) Vents constructed as per drawing, 1 missing. Plot 5: (12) Vents as per drawing. Plot 5 Garage: (6) Vents as per drawing.	
Sub-Grade Preparation:	N/A	
Result of Inspection:	No defects recorded and therefore no action required.	

(Section 1, Materials and Method of Seal)	
Gas Membrane Name: Not Applicable	
Other Products Used: Not Applicable	
Perimeter Seal Method: Not Applicable	
Service Entry Seal Method: Not Applicable	
Stanchion Seal Method: Not Applicable	
Material Jointing Method: Not Applicable	
Others Please List:	
(Section 2, Testing and Inspection Method)	
Inspection	MEC Environmental Ltd carried out a thorough visual inspection to the available area at the time of our inspection.
Joint Testing	Not Applicable
(Section 3, Defects List)	Action Required
Plot 1: Advisory, air bricks were not in place at time of MEC inspection.	No defects recorded and therefore no action required.
Plot 2: Advisory, 2x telescopic vents missing due to coordination issues on site.	
Plot 4: Advisory, 1x telescopic vent missing.	

Area Inspected



Venting Provision Overview



Overview of Plot 1.



Plot 1. Telescopic vents in place.
Note: Air bricks were not installed at the time of inspection.



Plot 1. Telescopic vents in place.
Note: Air bricks were not installed at the time of inspection.



Overview of Plot 1 Garage.



Plot 1 Garage. Telescopic vents in place.



Overview of Plot 2.



Plot 2. Telescopic vents in place.



Plot 2. Telescopic vents in place.



Overview of Plot 3.



Plot 3. Telescopic vents in place.



Plot 3. Telescopic vents in place.



Overview of Plot 3 Garage.



Plot 3 Garage. Telescopic vents in place.



Overview of Plot 4.



Plot 4. Telescopic vents in place.



Plot 4. Telescopic vents in place.



Overview of Plot 5.



Plot 5. Telescopic vents in place.



Plot 5. Telescopic vents in place.



Overview of Plot 5 Garage.



Plot 5 Garage. Telescopic vents in place.



Plot 5 Garage. Telescopic vents in place.

Subgrade Photos

Materials Used

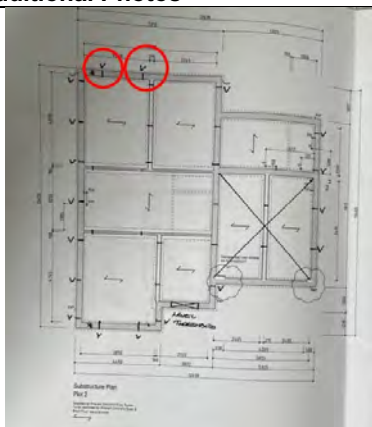
Perimeter Detail

Pipe and Duct Seals

Stanchions and Columns Seals

Testing of Joints

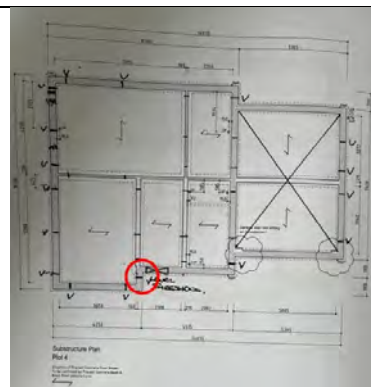
Additional Photos



Plot 2. Areas highlighted are where telescopic vents are missing due to door / threshold coordination issues.



Plot 2. Area where the 2 telescopic vents are missing due to door / threshold coordination issues.



Plot 4. Area highlighted is where the telescopic vent is missing.



Plot 4. Area where the telescopic vent was missing.

Main Contractor Name: Scenic Homes		Date: 10/12/2024
Site Name: Pearsons Close, Cowbit		Temp: 8°C
		Installer: Ground Works Contractor
Postcode: PE12 6AL	Surveyor: James Hall (TGPV)	
Building Reference/Unit No:	Plot 1	
Area Inspected:	Plot 1 - Air bricks	
Description of Works:	MEC Environmental carried out an inspection of the outstanding air bricks to Plot 1.	
Sub-Grade Preparation:	N/A	
Result of Inspection:	No defects recorded and therefore no action required.	
(Section 1, Materials and Method of Seal)		
Gas Membrane Name: Not Applicable		
Other Products Used: Not Applicable		
Perimeter Seal Method: Not Applicable		
Service Entry Seal Method: Not Applicable		
Stanchion Seal Method: Not Applicable		
Material Jointing Method: Not Applicable		
Others Please List: Not Applicable		
(Section 2, Testing and Inspection Method)		
Inspection	MEC Environmental Ltd carried out a thorough visual inspection to the available area at the time of our inspection.	
Joint Testing	Not Applicable.	
(Section 3, Defects List)		Action Required
Plot 1. Air Bricks in place along the North Elevation, but are still be completed on South Elevation (albeit telescopic vents are constructed, ready for completion).		N/A

Area Inspected



Gas Membrane Overview



Overview of Plot 1.

Subgrade Photos

Materials Used

Perimeter Detail

Pipe and Duct Seals

Stanchions and Columns Seals

Testing of Joints

Additional Photos



Plot 1. North Elevation with Air Bricks in place at the time of inspection.



Plot 1. North Elevation Air Bricks in place.



Plot 1. Air Brick still outstanding along the South Elevation, telescopic locations in position ready to receive air brick.



Plot 1. South Elevation Air Bricks still outstanding, telescopic locations in position ready to receive air brick.

Housebuilder Name: Scenic Homes			Date: 10/12/2024
Site Name: Pearsons Close, Cowbit			Weather: 8°C Dry/Overcast
			Installer: MB Membranes
Postcode: PE12 6AL		Surveyor: James Hall (TGPV)	
Plot Number	Building Type	Extent of Inspection	Result
2	Detached	Infill	Pass
(Section 1, Materials and Method of Seal)			
Gas Membrane Name: Juta GP5 Gas Barrier & Juta GP1 SAM			
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 annulus of the pipe duct has not been sealed 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 either sit below the membrane that seals the cavity (and do not require a specialist seal) or strips of self-adhesive gas membrane have been used to seal above the top of the telescopic riser where they protrude, this is an approved and recognised method in CIRIA C735.			
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)			
Inspection	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 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
2	2x weld defects recorded at the time of our inspection. These were patch repaired by MEC using Juta GP1 SAM, heat and pressure applied. No further defect recorded at the time of our inspection.	N/A
Signed: James Hall (TGPV) Date: 10/12/2024		

Plot Overview Photographs



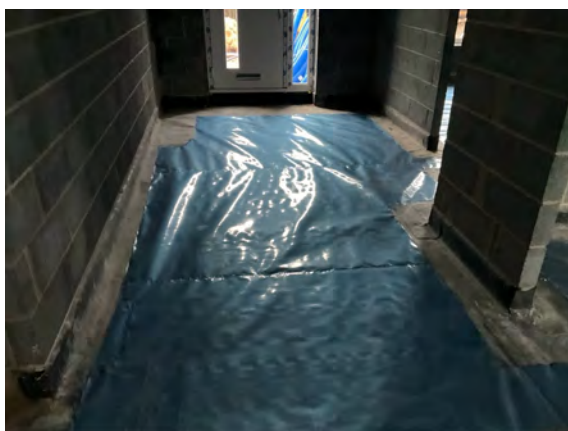
Where today's inspection took place – Plot 2.



General overview of where today's inspection took place.



Overview of the infill installation to Kitchen/Diner.



Overview of the infill installation to Entrance/Hall Way.



Overview of the infill installation to Utility Area.



Overview of the infill installation to Lounge.



Overview of the infill installation to Garage Area.



Evidence of the Juta GP5 Gas Barrier packaging.

Detailing Sample Photographs



Infill Juta GP5 gas barrier hand welded to the existing perimeter membrane.



Probe testing along hand welded membrane lap joint.



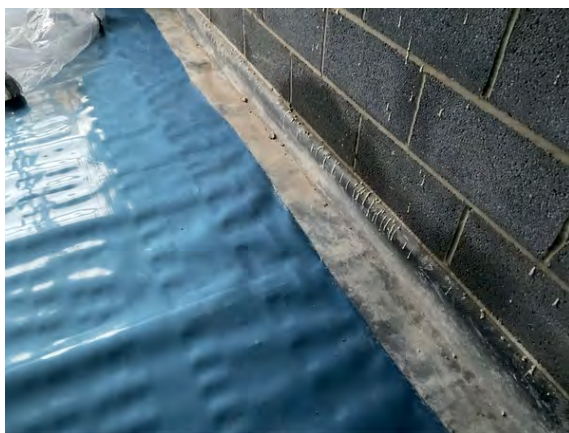
Probe testing along hand welded membrane lap joint.



Probe testing along hand welded membrane lap joint.



Overview of a hand welded membrane lap joint.



Infill Juta GP5 gas barrier hand welded to the existing perimeter membrane.



Probe testing along hand welded membrane lap joint.



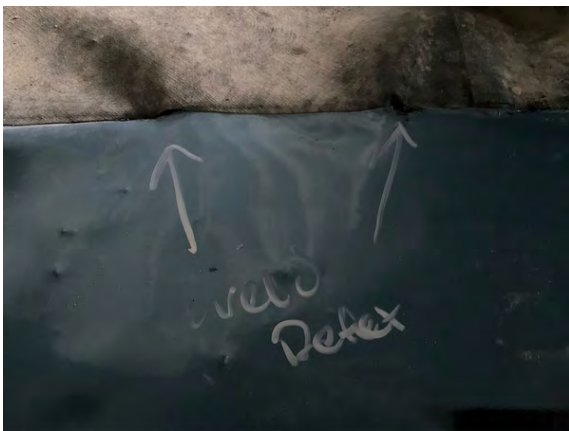
Probe testing along hand welded membrane lap joint.



Probe testing to pipe penetration detailing.



Probe testing to pipe penetration detailing.



2x Weld defects identified.



Weld defects patch repaired by MEC using Juta GP1 SAM, heat and pressure applied – probe tested.



CQA patch repairs carried out by Installer using Juta GP1 SAM.



Probe testing to Installer CQA patch repairs.

Housebuilder Name: Scenic homes - Parsons Close			Date: 11/03/2025
Site Name: Pearsons Close, Adj to 128 Barrier Bank, Cowbit, Spalding.			Weather: 8 °C Fine
			Installer: MB Membranes
Postcode: PE12 6AL		Surveyor: James Hall (TGPV)	
Plot Number	Building Type	Extent of Inspection	Result
4	Extension to a Detached House	Perimeter Only	Pass
(Section 1, Materials and Method of Seal)			
Gas Membrane Name: Juta GP TitanTech DPC & Juta GP1 SAM			
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: Not Applicable			
Annulus to Water Pipe Duct: Not Applicable			
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)			
Inspection	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 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
Plot 4 - Extension	Plot 4 is already built and has had an Extension added to the property, the installer has installed Juta GP TitanTech along the perimeter edge of the extension and detailed all corners & thresholds using Juta GP1 SAM. All membrane laps were hand welded. Within the extension there was 6no of cavity vents within the perimeter. No Defects were recorded at the time of our inspection.	N/A
Signed: James Hall (TGPV) Date: 11/03/2025		

Plot Overview Photographs





Overview of the perimeter installation to the extension.



Overview of the perimeter installation to the extension and cavity vents in place below gas barrier terminated

Detailing Sample Photographs



Juta GP TitanTech DPC lined along perimeter walls of extension.



Probe testing to corner details.



Probe testing along hand welded membrane lap joints to existing perimeter membrane.



Probe testing to corner details.



Probe testing to door threshold details.



Juta GP TitanTech DPC lined along perimeter walls of extension.



Probe testing to hand welded laps to existing perimeter membrane.



Probe testing termination of corner detail to existing perimeter membrane.



Cavity vents in place below gas barrier at time of inspection.



6no of cavity vents in place below gas barrier within extension perimeter.

Housebuilder Name: Scenic homes - Parsons Close			Date: 07/04/2025
Site Name: Pearsons Close, Adj to 128 Barrier Bank, Cowbit, Spalding.			Weather: 15 °C Fine
			Installer: MB Membranes
Postcode: PE12 6AL		Surveyor: James Hall (TGPV)	
Plot Number	Building Type	Extent of Inspection	Result
1	Detached	Infill	Pass
3	Extension to a Detached	Perimeter and Internal Masonry walls	Pass
(Section 1, Materials and Method of Seal)			
Gas Membrane Name: Juta GP5 Gas Barrier & Juta GP1 SAM & Juta TitanTech DPC			
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 annulus of pipe duct has not been sealed 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)			
Inspection	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 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
1 & 3	Plot 1 infill: 4x Defects were identified during inspection, these were patched repaired using Juta GP1 SAM and probe tested. No further Defects were recorded at the time of our inspection.	N/A
Signed: James Hall (TGPV) Date: 07/04/2025		

Plot Overview Photographs



Plot 1 Infill

Perimeter extension

Sealed perimeter

Site plan and where today's inspection took place.



General overview of Plot 1.



Overview of the infill installation using Juta GP5 Gas Barrier.



Overview of the infill installation using Juta GP5 Gas Barrier.



Overview of the infill installation using Juta GP5 Gas Barrier.



General overview of Plot 3 Extension perimeter works.



Plot 3 extension. Overview of the perimeter installation using Juta GP TitanTech DPC.



Plot 3 extension. Overview of the perimeter installation using Juta GP TitanTech DPC with cavity closure.



Plot 3 extension. Overview of the internal perimeter wall installation using Juta GP TitanTech DPC.

Detailing Sample Photographs



Plot 1. Probe testing along hand welded membrane lap joints.



Plot 1. Probe testing along hand welded membrane lap joints.



Plot 1. Probe testing along hand welded membrane lap joints.



Plot 1. Probe testing along hand welded membrane lap joints.



Plot 1. Probe testing to pipe penetration details.



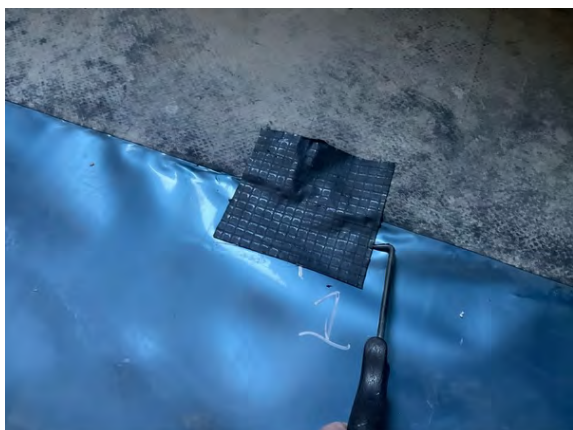
Plot 1. Probe testing to pipe penetration details.



Plot 1. Probe testing to installer CQA patch repairs.



Plot 1. Recorded defect.



Plot 1. Defect patched with Juta GP1 SAM and probe tested.



Plot 1. Recorded defect.



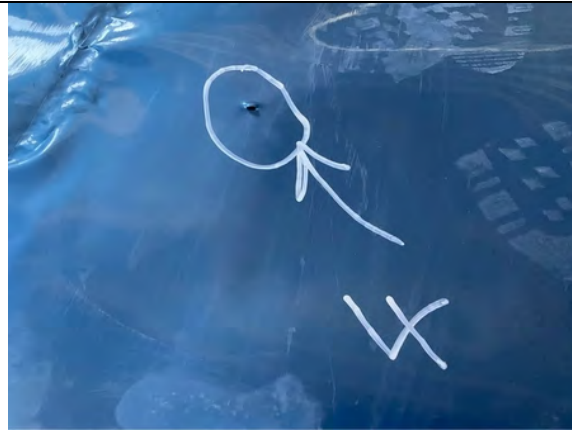
Plot 1. Defect patched with Juta GP1 SAM and probe tested.



Plot 1. Recorded defect.



Plot 1. Defect patched with Juta GP1 SAM and probe tested.



Plot 1. Recorded defect.



Plot 1. Defect patched with Juta GP1 SAM and probe tested.



Plot 3 Extension. Probe testing along hand welded membrane lap joints.



Plot 3 Extension. Probe testing to door threshold details.



Plot 3 Extension. Probe testing to corner details.



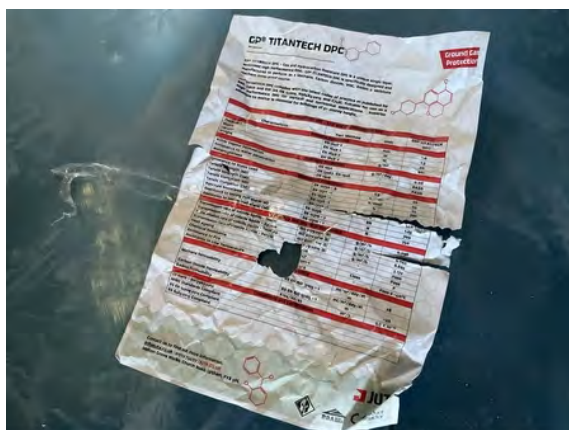
Plot 3 Extension. Probe testing to internal wall corner details.



Plot 3 Extension. Cavity vents in place below gas barrier at time of inspection.



Evidence of the Juta GP5 Gas Barrier packaging.



Evidence of the Juta GP TitanTech DPC packaging.



Evidence of the Juta GP1 SAM packaging.

Housebuilder Name: Scenic homes - Parsons Close			Date: 15/04/2025
Site Name: Pearsons Close, Adj to 128 Barrier Bank, Cowbit, Spalding.			Weather: 10 °C Showers
			Installer: MB Membranes
Postcode: PE12 6AL		Surveyor: James Hall (TGPV)	
Plot Number	Building Type	Extent of Inspection	Result
4 & 5	Detached	Infill	Pass
(Section 1, Materials and Method of Seal)			
Gas Membrane Name: Juta GP5 Gas Barrier & Juta GP1 SAM			
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 annulus of pipe duct has not been sealed 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)			
Inspection	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 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
4 & 5	Plot 4: 3no of defects identified. Plot 5: 2no of defects identified. These were patch repaired by MEC with adequate heat and pressure applied. No further Defects were recorded at the time of our inspection.	N/A
Signed: James Hall (TGPV) Date: 15/04/2025		

Plot Overview Photographs





Overview of the infill installation using Juta GP5 gas barrier.



Overview of the infill installation using Juta GP5 gas barrier.



Overview of the infill installation to hall/corridor using Juta GP5 gas barrier.



Overview of the infill installation to garage area using Juta GP5 gas barrier.



General overview of Plot 5.



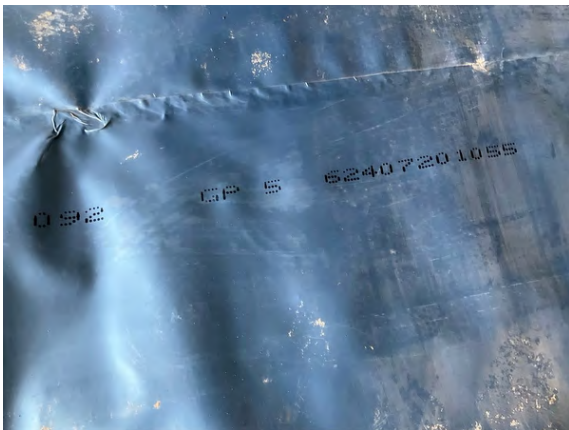
Overview of the infill installation using Juta GP5 gas barrier.



Overview of the infill installation using Juta GP5 gas barrier.



Overview of the infill installation to utility using Juta GP5 gas barrier.



Evidence of the Juta GP5 gas membrane branded labelling used on the project.

Detailing Sample Photographs



Plot 4. Probe testing to hand welded lap joints along existing perimeter edge membrane.



Plot 4. Probe testing along hand welded membrane lap joints.



Plot 4. Probe testing along hand welded membrane lap joints.



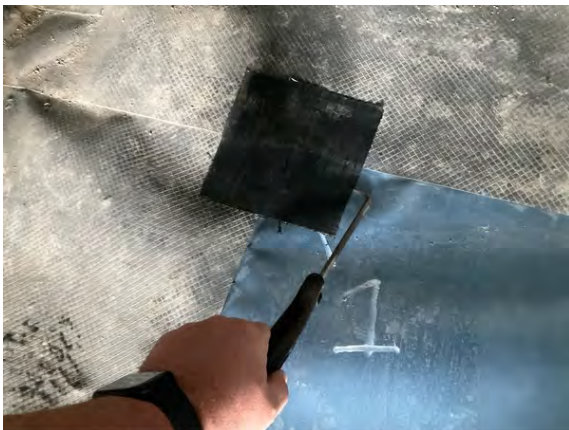
Plot 4. Probe testing to pipe penetration details.



Plot 4. Probe testing to pipe penetration details.



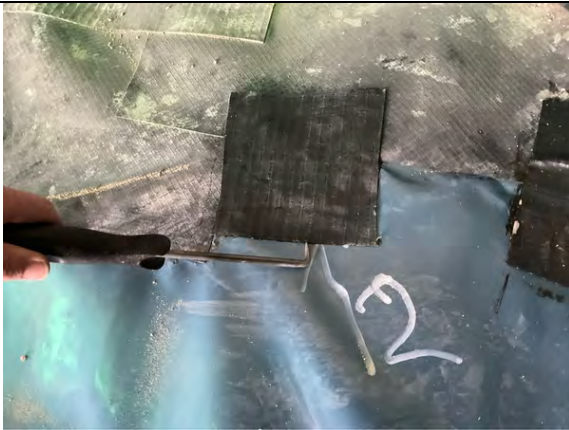
Plot 4. Recorded Defect.



Plot 4. Defect was patched repaired using Juta GP1 SAM and then probe tested.



Plot 4. Recorded Defect.



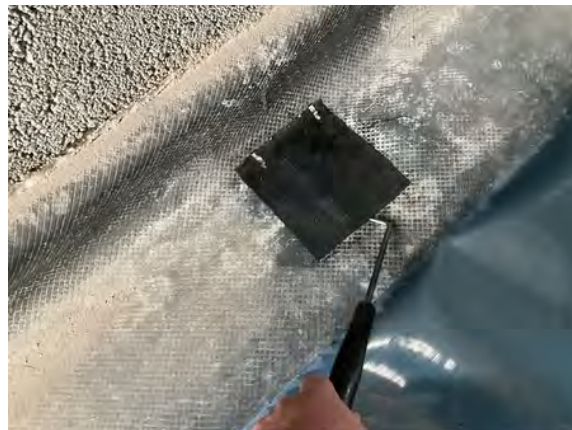
Plot 4. Defect was patched repaired using Juta GP1 SAM and then probe tested.



Plot 4. Recorded Defect.



Plot 4. Defect was patched repaired using Juta GP1 SAM and then probe tested.



Plot 4. Probe testing to installer own CQA patch repairs and probe tested.



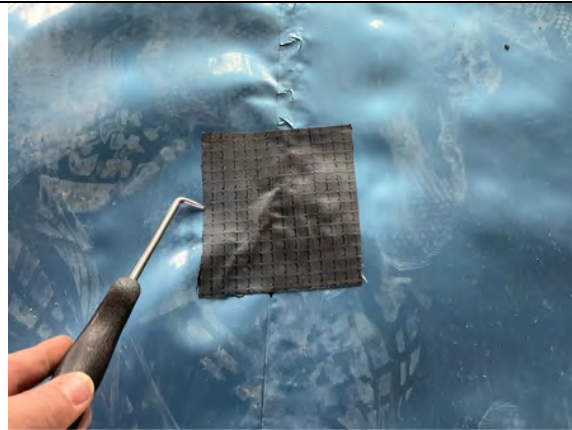
Plot 5. Probe testing along hand welded membrane lap joints.



Plot 5. Probe testing to hand welded lap joints along existing perimeter edge membrane.



Plot 5. Probe testing along hand welded membrane lap joints.



Plot 5. Probe testing to installer own CQA patch repairs and probe tested.



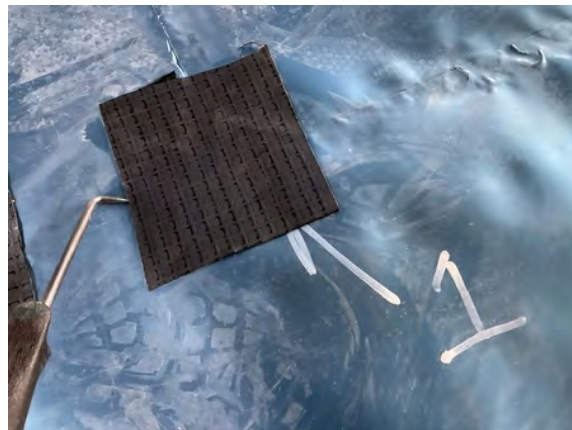
Plot 5. Probe testing to pipe penetration details.



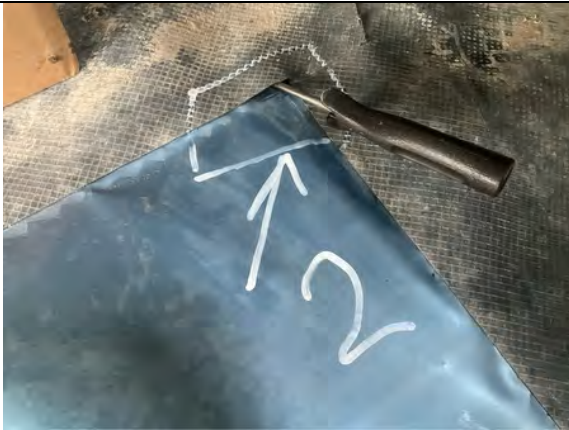
Plot 5. Probe testing to pipe penetration details.



Plot 5. Recorded Defect.



Plot 5. Defect was patched repaired using Juta GP1 SAM and then probe tested.



Plot 5. Recorded Defect.

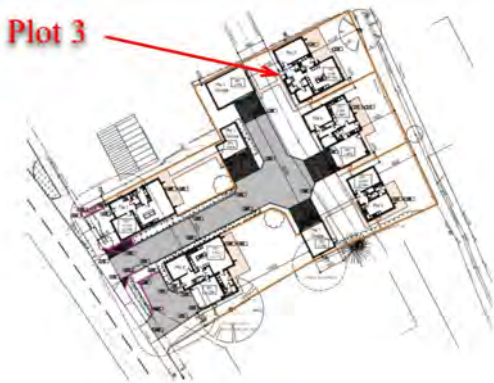


Plot 5. Defect was patched repaired using Juta GP1 SAM and then probe tested.

Housebuilder Name: Scenic homes - Parsons Close			Date: 11/07/2025
Site Name: Pearsons Close, Adj to 128 Barrier Bank, Cowbit, Spalding.			Weather: 30 °C Fine
			Installer: MB Membranes
Postcode: PE12 6AL		Surveyor: James Hall (TGPV)	
Plot Number	Building Type	Extent of Inspection	Result
3	Detached	Infill	Pass
(Section 1, Materials and Method of Seal)			
Gas Membrane Name: Juta GP5 Gas Barrier & Juta GP1 SAM			
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 annulus of pipe duct has not been sealed 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)			
Inspection	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 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
3	3x defects were identified during inspection, these were patch repaired by MEC using Juta GP1 SAM and adequate heat applied. No further Defects were recorded at the time of our inspection.	N/A
Signed: James Hall (TGPV) Date: 11/07/2025		

Plot Overview Photographs



Site plan and where today's inspection took place.



Overview of the infill installation using Juta GP5 Gas Barrier.



Overview of the infill installation.



Overview of the infill installation using Juta GP5 Gas Barrier.



Overview of the infill installation.



General overview of Plot 3 where today's inspection took place.

Detailing Sample Photographs



Probe testing along hand welded membrane lap joints.



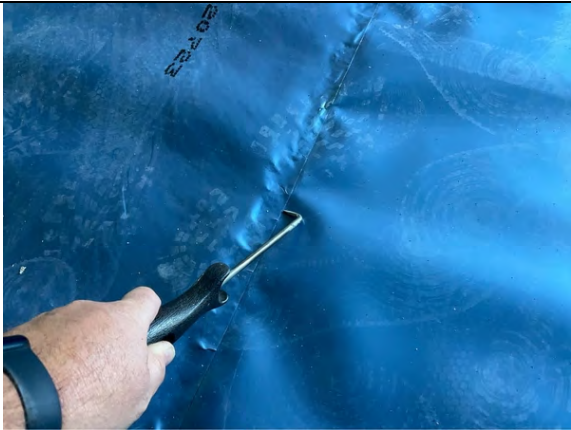
Probe testing to pipe penetration details.



Probe testing to installers own CQA patch repairs.



Probe testing to hand welded membrane lap joints along perimeter edge Juta DPC.



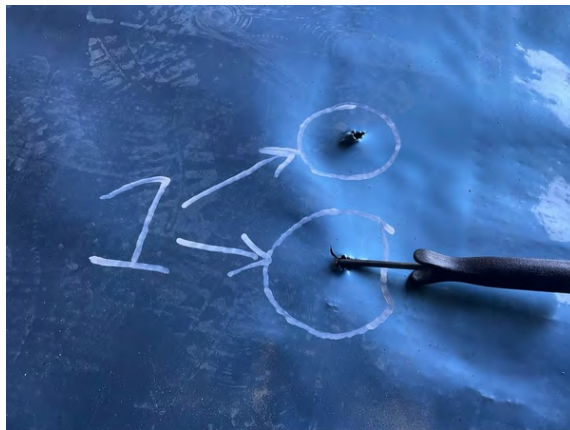
Probe testing along hand welded membrane lap joints.



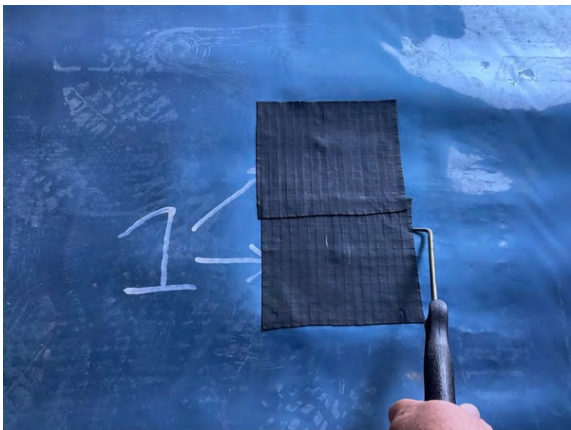
Probe testing to hand welded membrane lap joints along perimeter edge Jute DPC.



Probe testing to pipe penetration details.



Recorded Defect.



Recorded defect was patched repaired using Jute GP1 SAM.



Recorded Defect.



Recorded defect was patched repaired using Juta GP1 SAM.

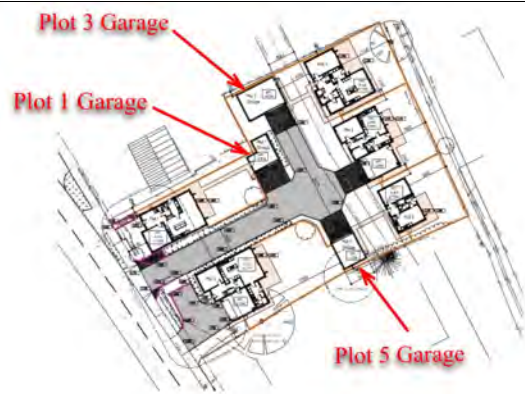


Evidence of the Juta GP5 Gas Barrier labelling.

Housebuilder Name: Scenic Homes - Pearsons Close			Date: 25/07/2025
Site Name: Pearsons Close, Barrier Bank, Cowbit, Spalding.			Weather: 21 °C Fine
			Installer: MB Membranes
Postcode: PE12 6AL		Surveyor: James Hall (TGPV)	
Plot Number	Building Type	Extent of Inspection	Result
1	Garage	Infill	Pass
3	Garage	Infill	Pass
5	Garage	Infill	Pass
(Section 1, Materials and Method of Seal)			
Gas Membrane Name: Juta GP5 Gas Barrier & Juta GP1 SAM			
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: Not Applicable.			
Annulus to Water Pipe Duct: Not Applicable.			
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)			
Inspection	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 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
1 & 3 & 5	No Defects recorded at the time of our inspection. Note: Installer carried out their own CQA patch repairs using Juta GP1 SAM with adequate heat and rolled pressure applied.	N/A
Signed: James Hall (TGPV) Date: 25/07/2025		

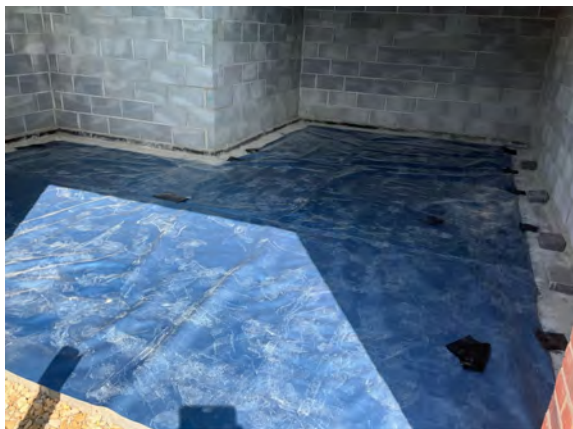
Plot Overview Photographs



Site plan and where today's inspection took place.



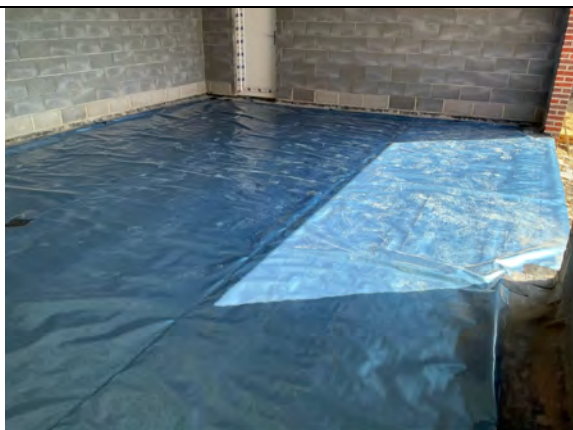
General overview of Plot 1 Garage.



Overview of the infill installation to Plot 1 Garage.



General overview of Plot 3 Garage.



Overview of the infill installation to Plot 3 Garage.



General overview of Plot 5 Garage.

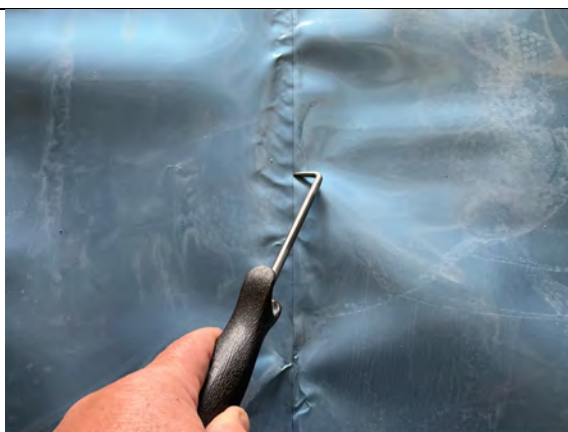


Overview of the infill installation to Plot 5 Garage.

Detailing Sample Photographs



Plot 1 Garage. Probe testing along hand welded membrane laps joints to existing perimeter Jute DPC.



Plot 1 Garage. Probe testing along hand welded membrane laps joints.



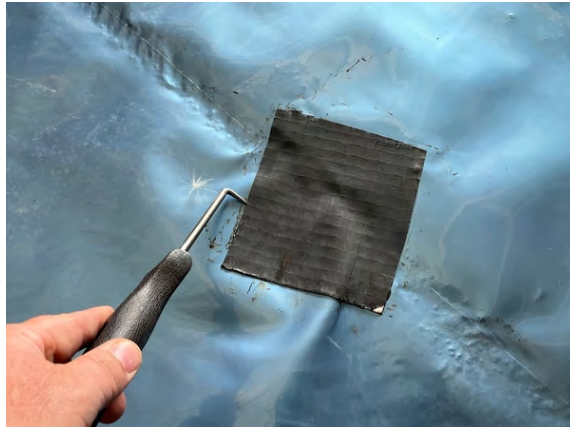
Plot 1 Garage. Probe testing to installers own CQA patch repairs using Juta GP1 SAM.



Plot 3 Garage. Probe testing along hand welded membrane laps joints to existing perimeter Juta DPC.



Plot 3 Garage. Probe testing along hand welded membrane laps joints.



Plot 3 Garage. Probe testing to installers own CQA patch repairs.



Plot 5 Garage. Probe testing along hand welded membrane laps joints to existing perimeter Juta DPC.



Plot 5 Garage. Probe testing along hand welded membrane laps joints.



Plot 5 Garage. Probe testing to installers own CQA patch repairs using Jura GP1 SAM.

Appendix C – Scenic Homes, CQA Information



PLOT 1 - CONFIRMATION OF VOID DEPTH



PLOT 1 - VOID DEPTH 250MM



PLOT 1 - MISSED BLOCKWORK TO SLEEPER WALLS



PLOT 1 GARAGE - CONFIRMATION OF VOID DEPTH



PLOT 1 GARAGE - OPEN VOID



PLOT 1 GARAGE - VOID DEPTH 480MM



PLOT 2 - CONFIRMATION OF VOID DEPTH



PLOT 2 - VOID DEPTH 500MM



PLOT 2 - MISSED BLOCKWORK TO SLEEPER WALLS



**PLOT 3 - VOID DEPTH ~500MM, MISSED
BLOCKWORK TO SLEEPER WALLS**



PLOT 3 GARAGE - CONFIRMATION OF VOID DEPTH



PLOT 3 GARAGE - OPEN VOID



PLOT 3 GARAGE - VOID DEPTH 550MM



PLOT 4 - CONFIRMATION OF VOID DEPTH



PLOT 4 - MISSED BLOCKWORK TO SLEEPER WALLS



PLOT 4 - VOID DEPTH 470MM



**PLOT 5 - VOID DEPTH ~500MM, MISSED
BLOCKWORK TO SLEEPER WALLS**



PLOT 5 GARAGE - CONFIRMATION OF VOID DEPTH



PLOT 5 GARAGE - VOID DEPTH ~500MM



PLOT 5 GARAGE - OPEN VOID

Ventilation Under Suspended Ground Floor

Vent Type & Air Flow: Manthorpe		6 450 mm2													
House Type		Unit	Plot 1		Plot 2		Plot 3		Plot 4		Plot 5				
Plots			Det Garage		Incl Integral Garage		Det Garage		Incl Integral Garage		Det Garage				
Requirement			Air Flow		Air Flow		Air Flow		Air Flow		Air Flow				
Either			mm2		mm2		mm2		mm2		mm2				
1,500mm2 Per meter of external wall		m2	44 02	66 030	52 18	78 264	48 68	73 017	48 40	72 600	33 64	50 460			
or															
500mm2 Per Square meter of floor area.		m2	98 05	49 025	128 06	64 028	104 74	52 369	111 99	55 996	57 83	28 914			
Use the larger figure															
No of Vents Required			10 24		12 13		11 32		11 26		7 82				
INSTALL		No	11		19		12		12		8				
			14		19		16		16		12				
Additional Ventilation			90 300 mm2		103 200 mm2		103 200 mm2		103 200 mm2		77 400 mm2				
			37%		32%		41%		42%		53%				