

Plot - 46

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Verification of Service Penetrations-Good Condition



e3p Gas Protection Validation Site Record

Inspection date/time: 21/6/22	Inspected by: [Redacted]	Photographed: [Initials]
Type of development: Residential	Plot number: 44	Developer: [Redacted]

Notes/recommendations	Comments
Membrane Type	Blue Visqueen
Extent of Coverage	Full coverage
Underside of Membrane	Clear
Slab / membrane condition (is membrane clear of debris or insulation)	Clear
Type of joints	☒ Tape Joint ☐ Welded Joint ☐ Other (please state)
Service entries - Jubilee clips, Top hats installed correctly	Yes
External Wall Air Bricks Present?	Yes
Corners inspected?	Yes
Membrane joints inspected has Double -sided butyl tape been used?	Yes
Seals in membrane inspected?	Yes
Has the membrane been installed as per the design detail detailing?	Yes

As Plot has PASSED [Redacted] proposed remedial works will be noted in the "Remarks" column on this form). An additional inspection visit is required for this Plot.

Inspection by: [Redacted] Signed: [Redacted]

Environmental Engineering Partnership Limited trading as E3P
Registered in England No: 08725263 Registered Office: E3P, Tollymore Park, London, Manchester M41 7JQ



e3p Gas Protection Validation Site Record

Inspection date/time: 21/06/22
Type of development: Res Villa
Inspected by: [Redacted]
Photographed: 01+
Plot number: 46
Developer: [Redacted]

Notes/recommendations
Comments: Blue V/S a Veen
Full coverage
Clear
Clear

Membrane Type
Extent of Coverage
Underside of Membrane
Slab / membrane condition (is membrane clear of debris or insulation)
Type of joints
Service entries - Jubilee clips, Top hats installed correctly
External Wall Air bricks Present?
Corners inspected?
Membrane joints inspected has Double -sided butyl tape been used?
Falls in membrane inspected?
Has the membrane been installed as per the design detail drawing?

☐ Tape Joint ☒ Welded Joint ☐ Other (please state)

YES
YES
YES
YES
YES
YES
YES
YES
YES

This Plot has PASSED / FAILED by proposed remedial [Redacted]
NOT required for [Redacted]
Inspection by [Redacted] Signed: [Redacted]

Remarks* column on this form). An additional inspection visit IS/IS

Environmental Engineering Partnership Limited trading as E3P
Registered in England No: 105723202 Registered Office: E3P, Trade Road, Trafford Park, Manchester, M41 7JG



e3p Gas Protection Validation Site Record

Inspection date/time: 2/6/22 Inspected by: [Redacted] Photographed: [Signature]
 Type of development: Residential Plot number: 45 Developer: [Redacted]
 Notes/recommendations Comments

Membrane Type Blue Visqueen
 Extent of Coverage Full coverage
 Underside of Membrane Clear
 Slab / membrane condition (is membrane clear of debris or insulation) Clear
 Type of joints ☐ Tape Joint ☒ Welded Joint ☐ Other (please state)
 Service entries - Jubilee clips, Top hats installed correctly yes
 External Wall Air bricks Present? yes
 Corners inspected? yes
 Membrane joints inspected has Double-sided butyl tape been used? yes
 Holes in membrane inspected? yes
 Has the membrane been installed as per the design detail (see drawing)? yes

Is Plot has PASSED/FAILED inspection. (Any proposed remedial works should be noted in the "Remarks" column on this form). An additional inspection is required if the plot fails inspection.
 Inspection by: [Redacted] Signed: [Redacted]

Environmental Engineering Partnership Limited trading as e3p
 Registered in England No. 08725262 Registered Office: e3p, Tolly Road, Trafford Park, Urmston, Manchester M41 7 JQ



GAS MEMBRANE VALIDATION

Site Name: Parcel C, Prescott	Project Number: 15-292
Company: Miller Homes	Date: 21-07-2022
Project Manager:	E3P Engineer:
PM Qualifications: BSc (Hons) FGS, AIEMA, ICE, MIEEnvSc, CEnv	Engineer Qualifications: GGS Gas training Feb 22

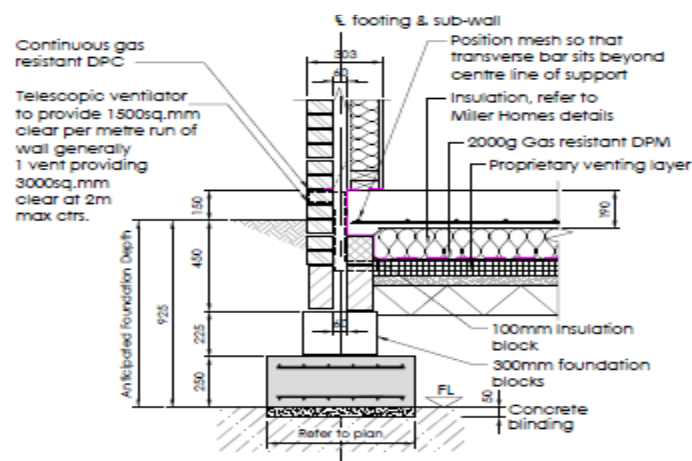
Overview:

The membrane comprised a JUTA GP1 gas membrane (Black) resistant to radon, carbon dioxide and low levels of methane. E3P can confirm there were no holes or rips at the time of inspection. Upon being laid the membrane is to be covered with a Celotex (closed Cell) floor insulation material which is considered to provide a high degree of protection.

All external joints were inspected and E3P can confirm that the membrane was overlapped and double taped to external and internal gas resistant DPM. The membrane was taped to the gas resistant DPM using a double-sided jointing tape. All the overlaps were then additionally taped using foil backed girth tape.

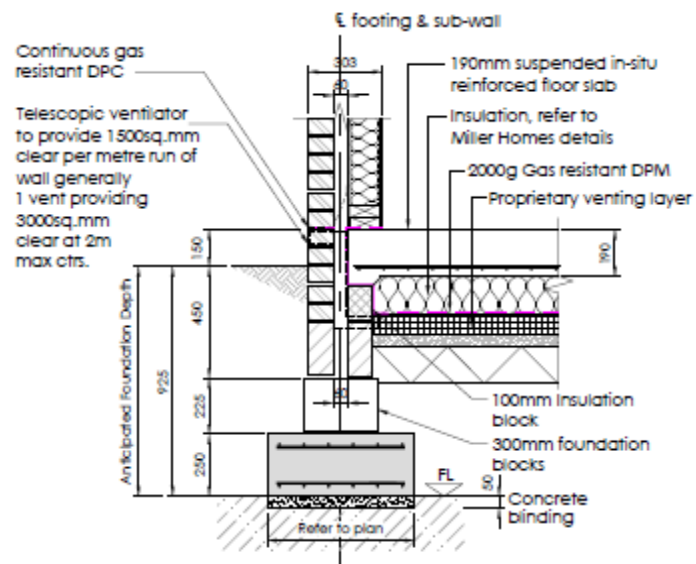
Each unit has a service duct located to the front and outer edge of the property. E3P inspected each one and can confirm that the top-hats have been adequately sealed against the membrane.

Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that **Plots 22-24** have been installed with gas protection measures in accordance with Characteristic Situation 2 to an acceptable level of workmanship.

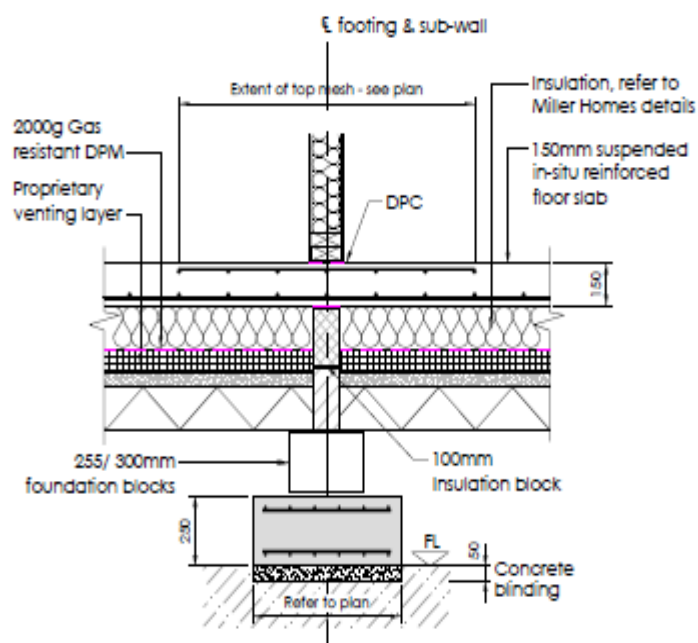


Section 1-1
Scale 1:25





Section 2-2
Scale 1:25



Section 3-3
Scale 1:25



Plot - 22

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Verification of Service Penetrations-Good Condition



Plot – 24

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Verification of Service Penetrations-Good Condition



Gas Protection Validation Site Record

Inspection date/time:	21 st July	Inspected by:	[Redacted]	Photographed:	✓/x ✓
Type of development:	Small Gate	Plot number:	22	Developer:	

Notes/recommendations	Comments
Membrane Type	Virginian blue
Extent of Coverage	fully exposed
Underside of Membrane	
Slab / membrane condition (is membrane clear of debris or insulation)	Good
Type of joints	☐ Tape Joint ☒ Welded Joint ☐ Other (please state)
Service entries – Jubilee clips, Top hats installed correctly	yes
External Wall Air bricks Present?	yes
Corners inspected?	yes
Membrane joints inspected has Double –sided butyl tape been used?	No
Folds in membrane inspected?	yes
Has the membrane been installed as per the design detail drawing?	yes

This Plot has ~~PASSED~~/FAILED* inspection. (Any proposed remedial works will be noted in the "Remarks" column on this form). An additional inspection visit IS/IS NOT* required for this Plot.

Inspection by: [Redacted] Signed: [Redacted]

Gas Protection Validation Site Record

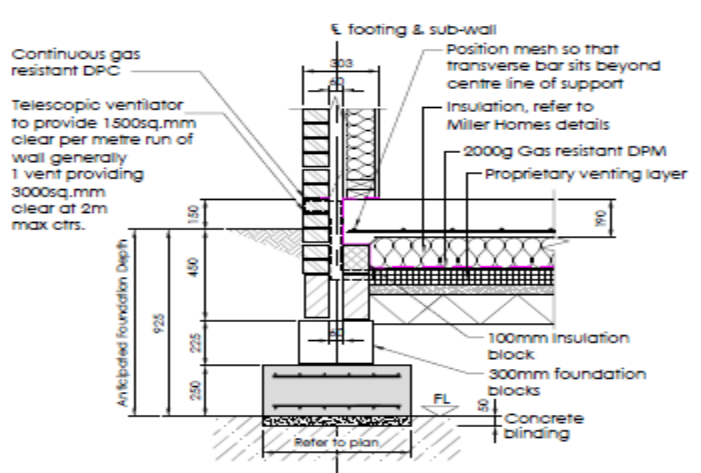
Inspection date/time:	21 st July	Inspected by:	[Redacted]	Photographed:	✓/x ✓
Type of development:	Small Gate	Plot number:	24	Developer:	

Notes/recommendations	Comments
Membrane Type	Uniquem blue
Extent of Coverage	fully exposed
Underside of Membrane	
Slab / membrane condition (is membrane clear of debris or insulation)	Good
Type of joints	☐ Tape Joint ☒ Welded Joint ☐ Other (please state)
Service entries – Jubilee clips, Top hats installed correctly	yes
External Wall Air bricks Present?	yes
Corners inspected?	yes
Membrane joints inspected has Double –sided butyl tape been used?	No
Folds in membrane inspected?	yes
Has the membrane been installed as per the design detail drawing?	yes

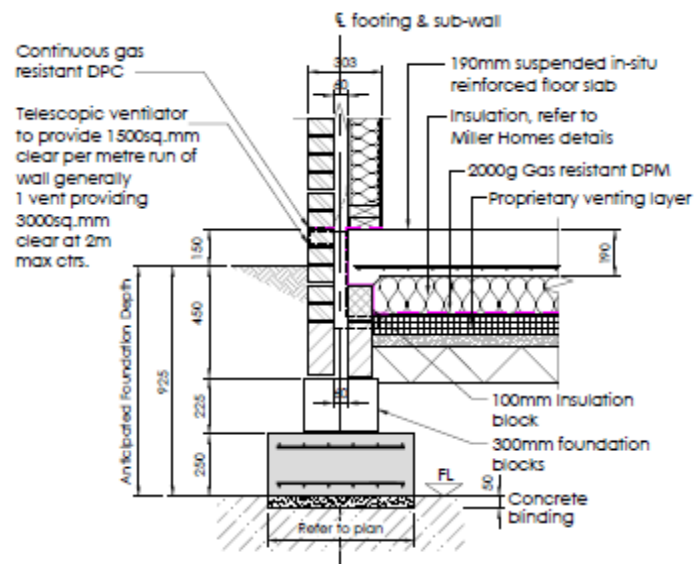
This Plot has PASSED/FAILED* inspection. (Any proposed remedial works will be noted in the "Remarks" column on this form). An additional inspection visit IS/IS NOT* required for this Plot.

Inspection by: [Redacted] Signed: [Redacted]

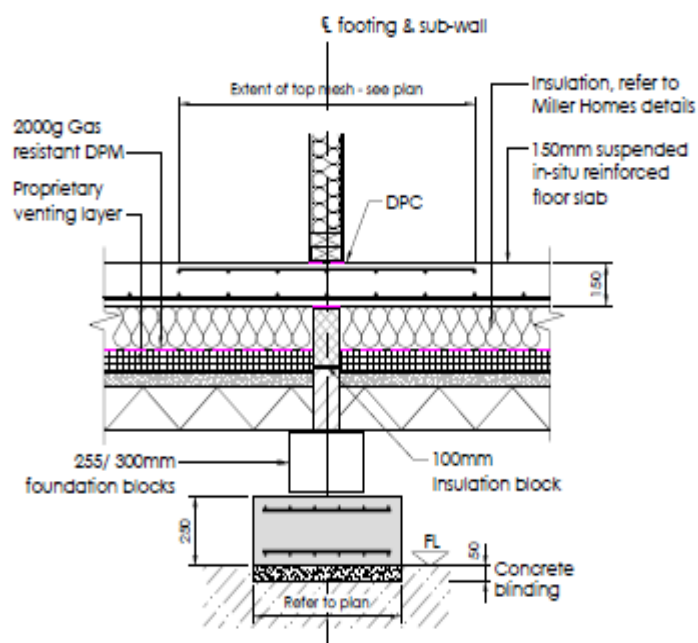
GAS MEMBRANE VALIDATION

Site Name: Parcel C, Prescott	Project Number: 15-292
Company: Miller Homes	Date: 25-07-2022
Project Manager:	E3P Engineer:
PM Qualifications: BSc (Hons) FGS, AIEMA, ICE, MIEEnvSc, CEnv	Engineer Qualifications: GGS Gas training Feb 22
Overview: The membrane comprised a Visqueen gas protection (Blue) resistant to radon, carbon dioxide and low levels of methane. E3P can confirm there were no holes or rips at the time of inspection. Upon being laid the membrane is to be covered with a Celotex (closed Cell) floor insulation material which is considered to provide a high degree of protection. Each unit has a service duct located to the front and outer edge of the property. E3P inspected each one and can confirm that the top-hats have been adequately sealed against the membrane. Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that Plots 50-52 have been installed with gas protection measures in accordance with Characteristic Situation 2 to an acceptable level of workmanship.	
 Section 1-1 Scale 1:25	





Section 2-2
Scale 1:25



Section 3-3
Scale 1:25



Plot - 50

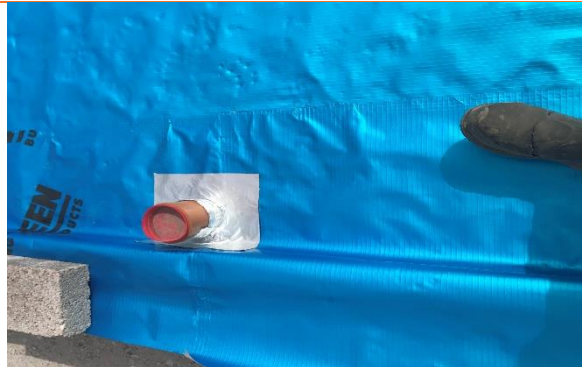
General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition

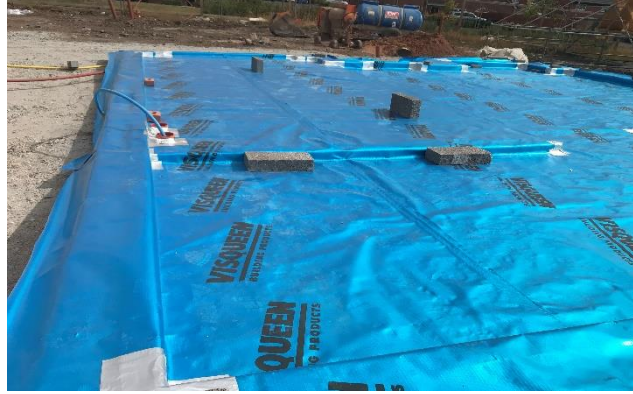


Verification of Service Penetrations-Good Condition

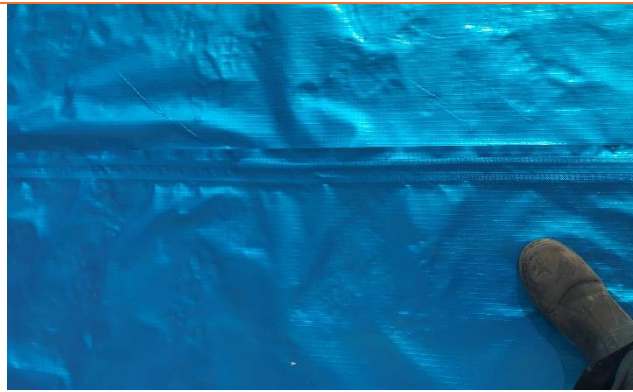


Plot - 51

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Verification of Service Penetrations-Good Condition



Plot - 52

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Verification of Service Penetrations-Good Condition





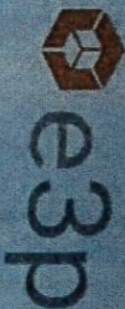
e3p

Gas Protection Validation Site Record

Inspection date/time:	28 th July	Inspected by:	[redacted]	Photographed:	✓/x ✓
Type of development:	Small Coker	Plot number:	50%	Developer:	
Notes/recommendations	Comments				
Membrane Type	Uniqueness blue				
Extent of Coverage	fully exposed				
Underside of Membrane					
Slab / membrane condition (is membrane clear of debris or insulation)	Good				
Type of joints	☒ Tape Joint ☒ Welded Joint ☐ Other (please state)				
Service entries - Jubilee clips, Top hats installed correctly	yes				
External Wall Air bricks Present?	yes				
Corners inspected?	yes				
Membrane joints inspected has Double-sided butyl tape been used?	no				
Folds in membrane inspected?	yes				
Has the membrane been installed as per the design detail drawing?	yes				

This Plot has PASSED/FAILED Inspection. (Any proposed remedial works will be noted in the "Remarks" column on this form). An additional inspection visit (S/N) is required for this Plot.

Signed: [redacted]



Gas Protection Validation Site Record

Inspection date/time:	25 th July	Inspected by:	[Redacted]	Photographed:	✓/x ✓
Type of development:	Small Coker	Plot number:	50%	Developer:	
Notes/recommendations	Comments				
Membrane Type	Vapour barrier				
Extent of Coverage	fully sealed				
Underside of Membrane	Good				
Slab / membrane condition (is membrane clear of debris or insulation)	☒ Tape Joint ☒ Welded Joint ☐ Other (please state)				
Type of joints	yes				
Service entries - Jubilee clips, Top hats installed correctly	yes				
External Wall Air bricks Present?	yes				
Corners inspected?	yes				
Membrane joints inspected has Double-sided butyl tape been used?	no				
Folds in membrane inspected?	yes				
Has the membrane been installed as per the design detail drawing?	yes				

This Plot has PASSED/FAILED* inspection. (Any proposed remedial works will be noted in the "Remarks" column on this form). An additional inspection visit IS/NOT* required for this Plot.

Inspection by: [Redacted] Signed: [Redacted]

GAS MEMBRANE VALIDATION

Site Name: Parcel C, Prescott	Project Number: 15-292
Company: Miller Homes	Date: 01-08-2022
Project Manager:	E3P Engineer:
PM Qualifications: BSc (Hons) FGS, AIEMA, AMICE, MIEEnvSc, CEnv	Engineer Qualifications: GGS Gas training Feb 22

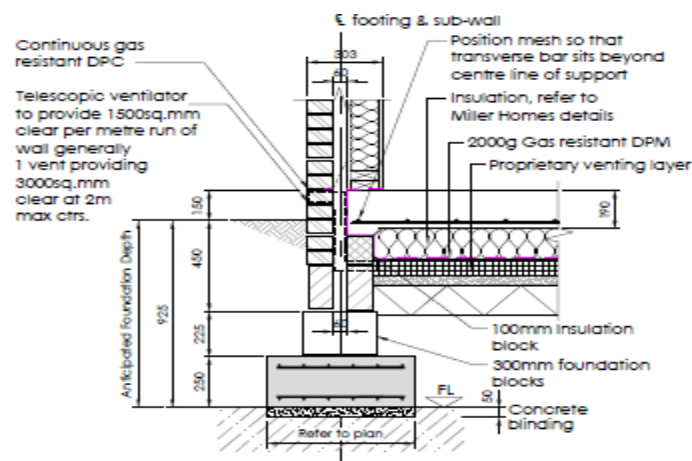
Overview:

The membrane comprised a Visqueen Blue gas membrane resistant to radon, carbon dioxide and low levels of methane. E3P can confirm there were no holes or rips at the time of inspection. Upon being laid the membrane is to be covered with a Celotex (closed Cell) floor insulation material which is considered to provide a high degree of protection.

All external joints were inspected. The membrane was taped to the gas resistant DPM using a double-sided jointing tape. All the overlaps were then additionally taped using foil backed girth tape.

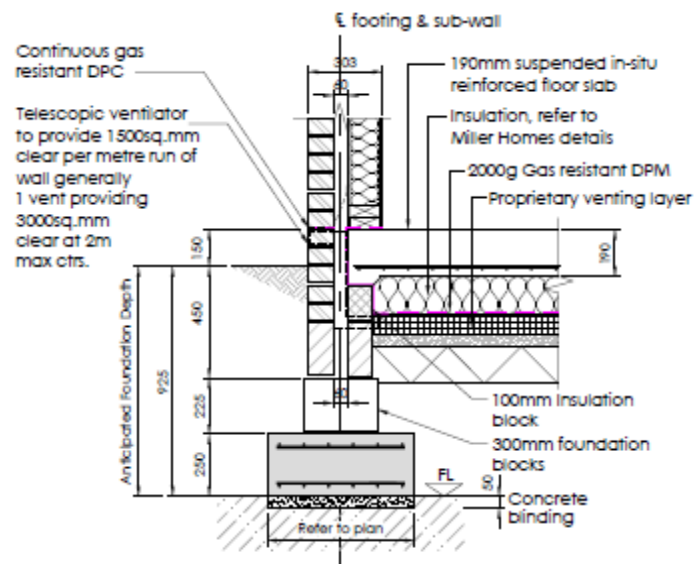
Each unit has a service duct located to the front and outer edge of the property. E3P inspected each one and can confirm that the top-hats have been adequately sealed against the membrane.

Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that **Plot 53** has been installed with gas protection measures in accordance with Characteristic Situation 2 to an acceptable level of workmanship.

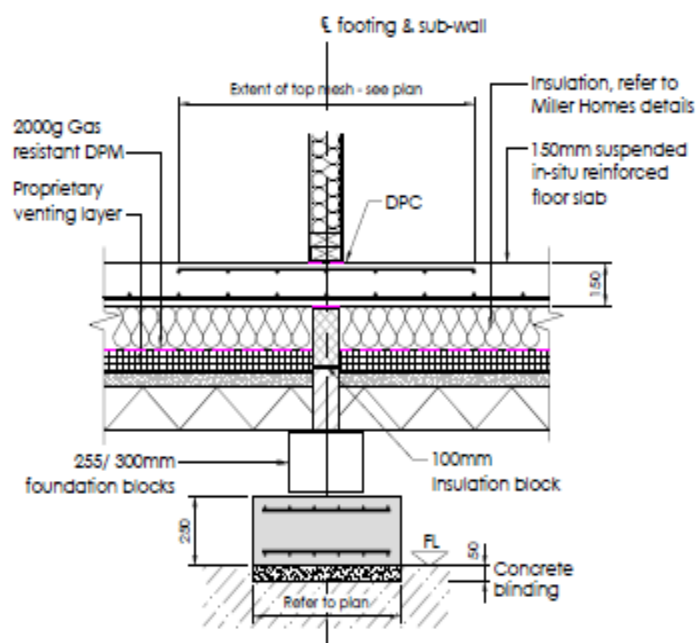


Section 1-1
Scale 1:25





Section 2-2
Scale 1:25



Section 3-3
Scale 1:25

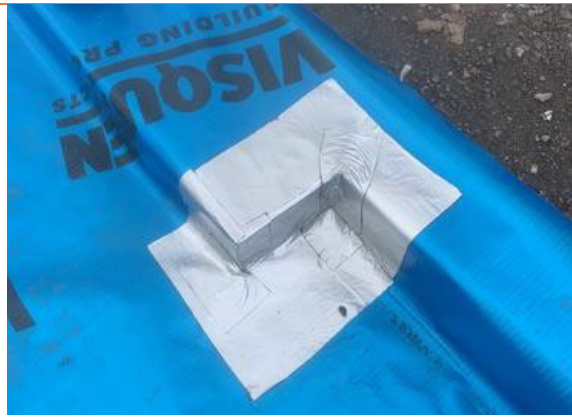


Plot - 53

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Verification of Service Penetrations-Good Condition





Gas Protection Validation Site Record

Inspection date/time:	1st Aug	Inspected by:		Photographed:	01x
Type of development:	House	Plot number:	53	Developer:	

Notes/recommendations	Comments
Membrane Type	Blue Visqueen
Extent of Coverage	Full
Underside of Membrane	clear
Slab / membrane condition (is membrane clear of debris or insulation)	yes
Type of joints	☐ Tape Joint ☒ Welded Joint ☐ Other (please state)
Service entries – Jubilee clips, Top hats installed correctly	yes
External Wall Air bricks Present?	✓
Corners inspected?	yes
Membrane joints inspected has Double –sided butyl tape been used?	yes
Folds in membrane inspected?	yes
Has the membrane been installed as per the design detail drawing?	yes

This Plot has **PASSED/FAILED** inspection. (Any proposed remedial works will be noted in the "Remarks" column on this form). An additional inspection visit IS/IS NOT* required for this Plot. Inspection by: Signed:

GAS MEMBRANE VALIDATION

Site Name: Parcel C, Prescott	Project Number: 15-292
Company: Miller Homes	Date: 24-08-2022
Project Manager:	E3P Engineer:
PM Qualifications: BSc (Hons) FGS, AIEMA, ICE, MIEEnvSc, CEnv	Engineer Qualifications: GGS Gas training Feb 22

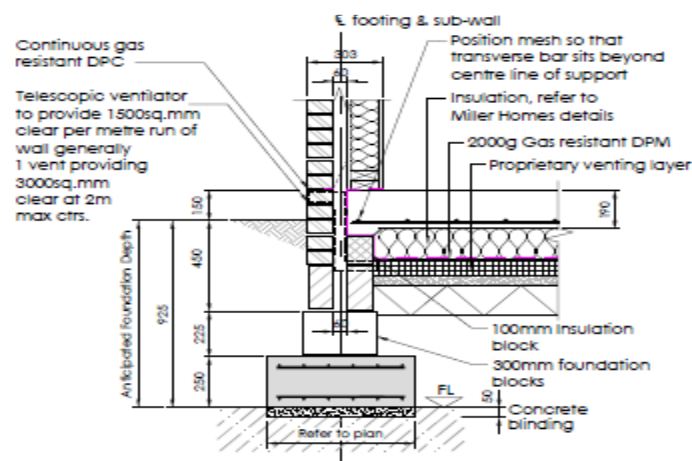
Overview:

The membrane comprised a Visqueen gas membrane (Blue) resistant to radon, carbon dioxide and low levels of methane. E3P can confirm there were no holes or rips at the time of inspection. Upon being laid the membrane is to be covered with a Celotex (closed Cell) floor insulation material which is considered to provide a high degree of protection.

All external joints were inspected and E3P can confirm that the membrane was overlapped and double taped. All the overlaps were then additionally taped using foil backed girth tape.

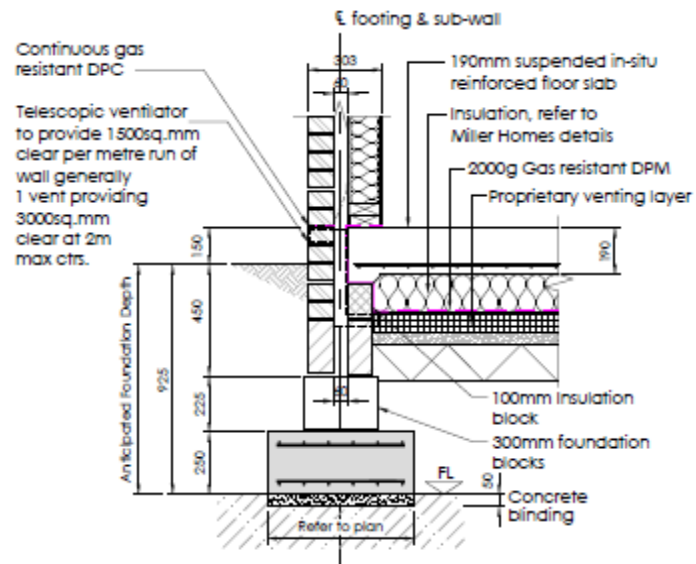
Each unit has a service duct located to the front and outer edge of the property. E3P inspected each one and can confirm that the top-hats have been adequately sealed against the membrane.

Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that **Plots 14-15** have been installed with gas protection measures in accordance with Characteristic Situation 2 to an acceptable level of workmanship.

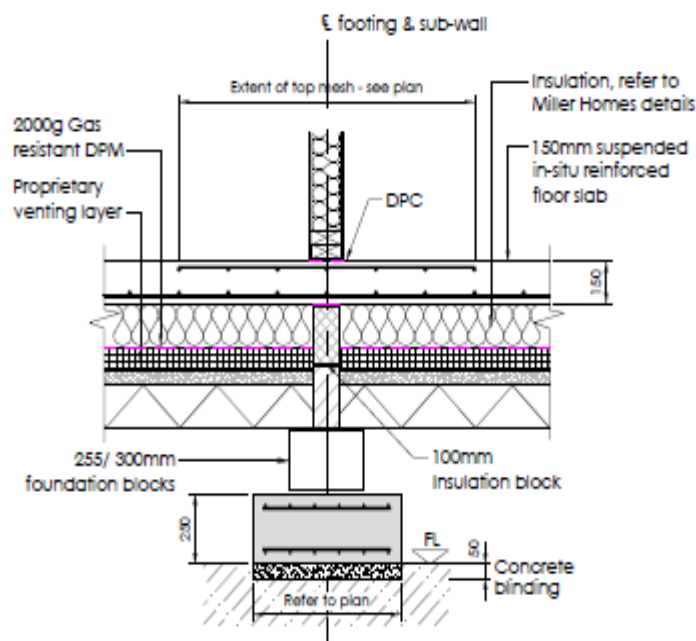


Section 1-1
Scale 1:25





Section 2-2
Scale 1:25



Section 3-3
Scale 1:25

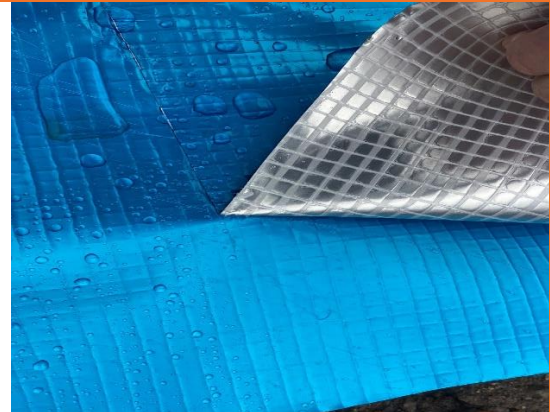


Plot - 14

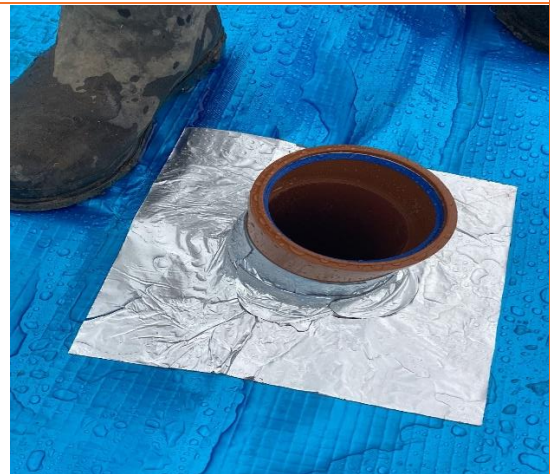
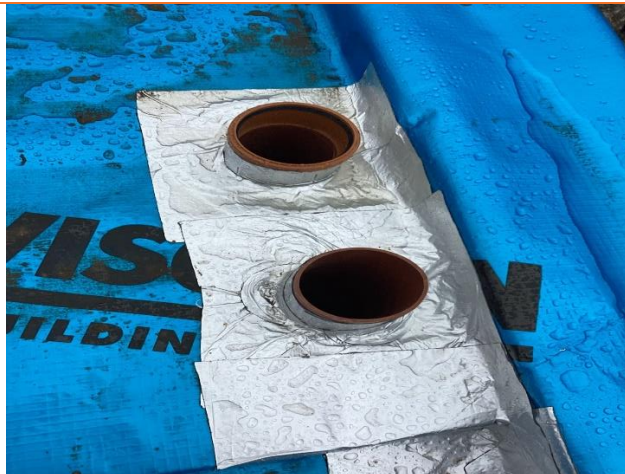
General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Verification of Service Penetrations-Good Condition



Plot - 15

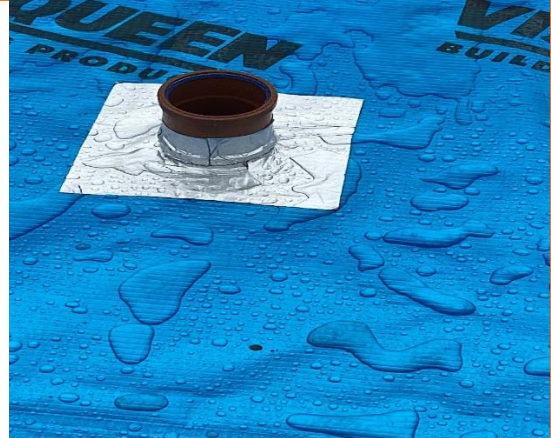
General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Verification of Service Penetrations-Good Condition



Gas Protection Validation Site Record

Inspection date/time:	24/8/22	Inspected by:	[Redacted]	Photographed:	1/1
Type of development:	Residential	Plot number:	P.L.	Developer:	
Notes/recommendations:					
Membrane Type	Comments				
Extent of Coverage	Blue Visaveeh Full coverage				
Underside of Membrane	Clear				
Slab / membrane condition (Is membrane clear of debris or insulation)	Clear				
Type of joints	☒ Tape Joint ☒ Welded Joint ☐ Other (please state)				
Service entries - Jubilee clips, Top hats installed correctly	Yes				
External Wall Air bricks Present?	Yes				
Corners inspected?	Yes				
Membrane joints inspected has Double -sided butyl tape been used?	Yes				
Folds in membrane inspected?	Yes				
Has the membrane been installed as per the design detail drawing?	Yes				

This Plot has **PASSED/FAILED** inspection. (Any proposed remedial work must be recorded in the 'Remarks' column on this form). An additional inspection visit IS/IS NOT required for the above.

Inspection by: [Redacted] Signed: [Redacted]



Gas Protection Validation Site Record

Inspection date/time:	24/8/22	Inspected by:	[redacted]	Photographed:	0.
Type of development:	Residential	Plot number:	15	Developer:	
Notes/recommendations	Comments				
Membrane Type					
Extent of Coverage					
Underside of Membrane					
Slab / membrane condition (is membrane clear of debris or insulation)					
Type of joints					
Service entries - Jubilee clips, Top hats installed correctly					
External Wall Air bricks Present?					
Corners inspected?					
Membrane joints inspected has Double -sided butyl tape been used?					
Folds in membrane inspected?					
Has the membrane been installed as per the design detail drawing?					

Blue Visqueen
Full Coverage
clear
clear

☒ Tape Joint ☒ Welded Joint ☐ Other (please state)

yes
yes
yes
yes
yes
yes

This Plot has PASSED inspection. (Any proposed remedial work must be recorded in the "Remarks" column on this form). An additional inspection visit IS/IS NOT* required for this inspection by: [redacted] Signed: [redacted]

GAS MEMBRANE VALIDATION

Site Name: Parcel C, Prescott	Project Number: 15-292
Company: Miller Homes	Date: 10-11-2022
Project Manager:	E3P Engineer:
PM Qualifications: BSc (Hons) FGS, AIEMA, ICE, MIEEnvSc, CEnv	Engineer Qualifications: GGS Gas training Feb 22

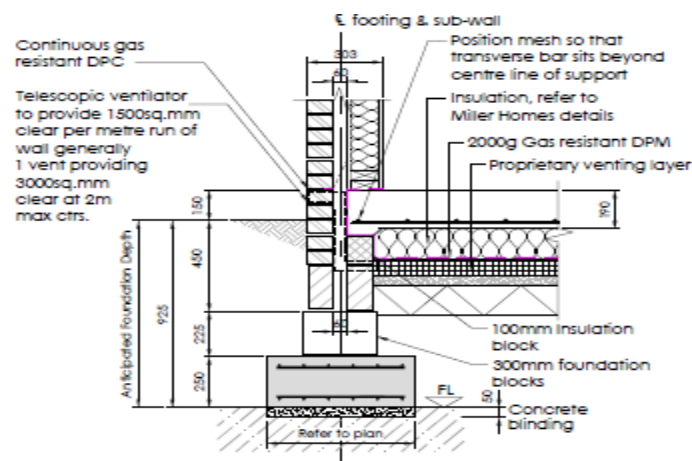
Overview:

The membrane comprised a JUTA GP1 gas membrane (Black) resistant to radon, carbon dioxide and low levels of methane. E3P can confirm there were no holes or rips at the time of inspection. Upon being laid the membrane is to be covered with a Celotex (closed Cell) floor insulation material which is considered to provide a high degree of protection.

All external joints were inspected and E3P can confirm that the membrane was overlapped and double taped to external and internal gas resistant DPM. The membrane was taped to the gas resistant DPM using a double-sided jointing tape. All the overlaps were then additionally taped using foil backed girth tape.

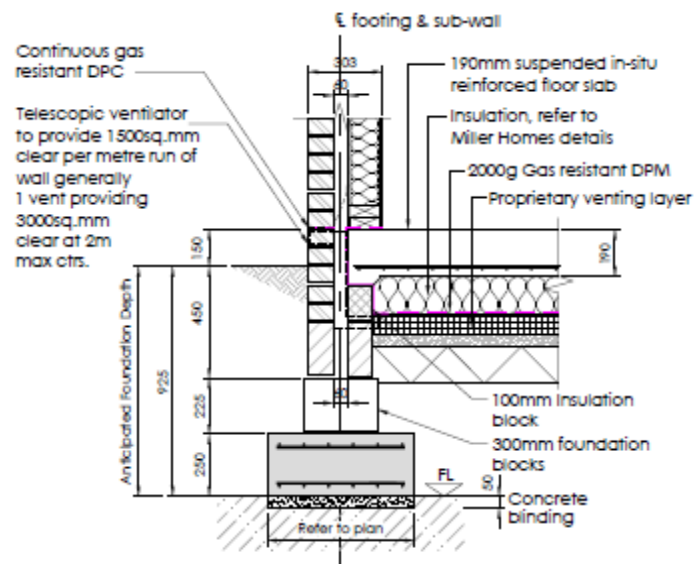
Each unit has a service duct located to the front and outer edge of the property. E3P inspected each one and can confirm that the top-hats have been adequately sealed against the membrane.

Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that **Plot 54** have been installed with gas protection measures in accordance with Characteristic Situation 2 to an acceptable level of workmanship.

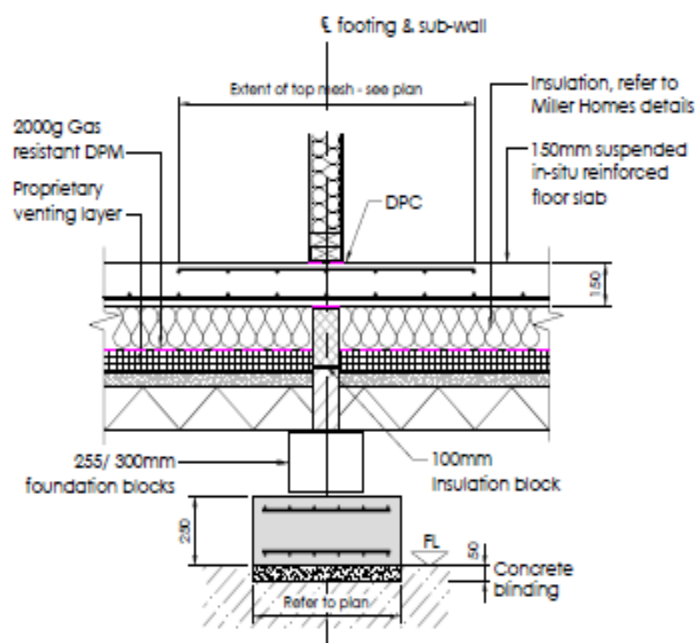


Section 1-1
Scale 1:25





Section 2-2
Scale 1:25



Section 3-3
Scale 1:25



GAS MEMBRANE VALIDATION

Complete

Score	100%
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Site Name	Sonnet gate
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Location	Prescot Park Way Knowsley England L34 United Kingdom (53.42216046754849, - 2.80923588783989)
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Project Manager	
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Project number	15-292
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Developer	Miller
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Site representative Signature	
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10 Nov 2022 3:32 PM GMT

Conducted on	10 Nov 2022 3:28 PM GMT
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Prepared by	
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Inspection Gas Membrane - 100% 100%

Plot Inspection - 100% 100%

Plot Inspection 1 - 100% 100%

Plot Number 54

Type of Development: Other add note House

Gas Characteristic Situation CS2

Foundation Type: Other add note Suspended Floor

Gas Membrane Type: Manufacturer, gauge, and colour. Visqueen blue

Gas Membrane Condition: Open punctures, tears, rips, stretching, Presence of debris, Repairs, Signs of weakness such as raised or sunken indentations, Protection plan in place to restrict access to lain gas membrane? IF FAIL DESCRIPTION IN ACTIONS AND PHOTOS REQUIRED

Pass



Photo 1

Photo 2

Laps, welds, and joints seals: Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice? Are welds complete? Appropriate joining/double-sided tape used, Folds running in line with joints? (no joints cutting across folds)

Pass

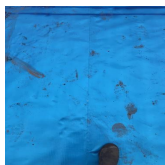


Photo 3



Photo 4



Photo 5



Photo 6

Service entries seals: Top hats seal arrangements fixed around service entries? Use of Jubilee clips?

Yes





Photo 7



Photo 8



Photo 9



Photo 10

Type of joints/ Lapping

Welded

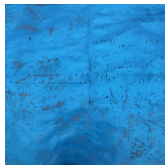


Photo 11

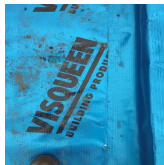


Photo 12

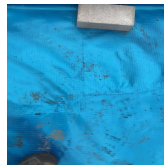


Photo 13

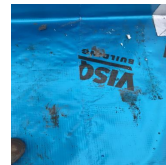


Photo 14



Photo 15

Corners / Internal joints: Check all corners are correctly formed or contractor has used performed corners.

Pass



Photo 16



Photo 17



Photo 18



Photo 19

Extent of Coverage: Is the membrane covering the entire plot? Does membrane span over outside walls?

Yes

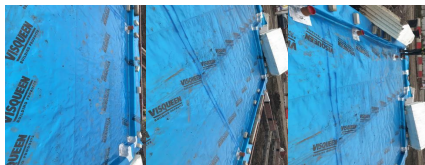


Photo 20

Photo 21

Photo 22

Condition of sub-grade and underside of gas membrane: Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Pass

Slab / membrane condition (is membrane clear of debris or insulation): Can membrane be fully seen and photographed – ask contractor to remove an debris so membrane can be fully seen an inspected – this is a requirement of NHBC and local authorities.

Pass

External Wall Air bricks: Numbers, size. positions as design drawing? (Minimum of 3 walls)

Pass





Photo 23



Photo 24



Photo 25



Photo 26

Passive Venting

Sub-floor Void: Is a check possible on future plots (insert Plot number or NO in text box)

No



Appendix



Photo 1



Photo 2

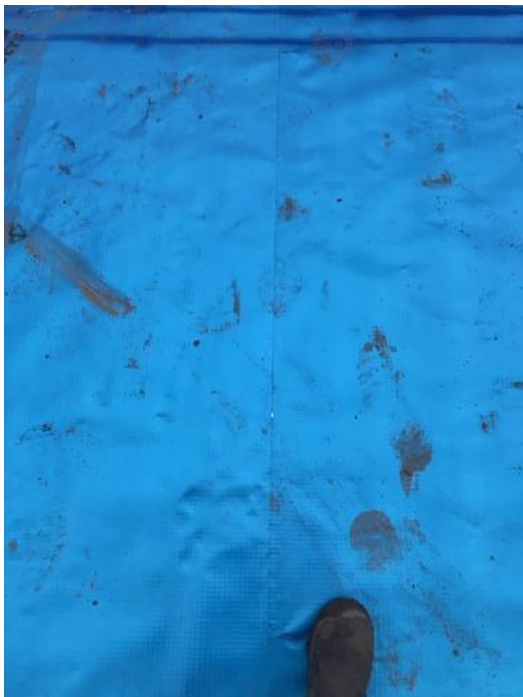


Photo 3



Photo 4





Photo 5



Photo 6



Photo 7



Photo 8





Photo 9



Photo 10



Photo 11



Photo 12





Photo 13



Photo 14



Photo 15



Photo 16





Photo 17



Photo 18



Photo 19



Photo 20





Photo 21

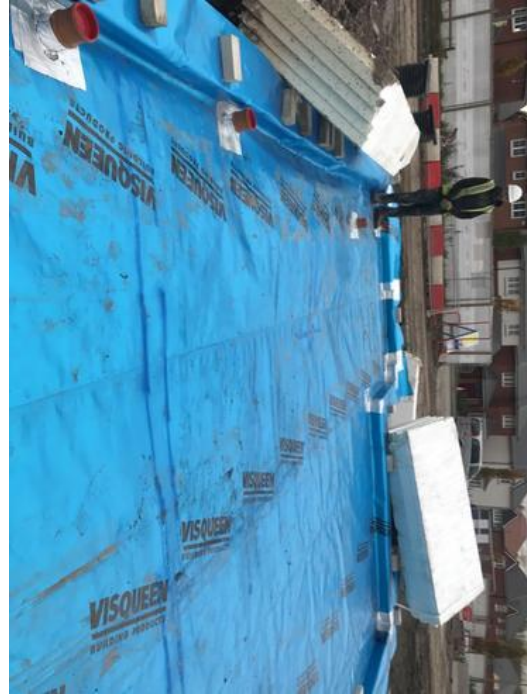


Photo 22



Photo 23



Photo 24





Photo 25



Photo 26



GAS MEMBRANE VALIDATION

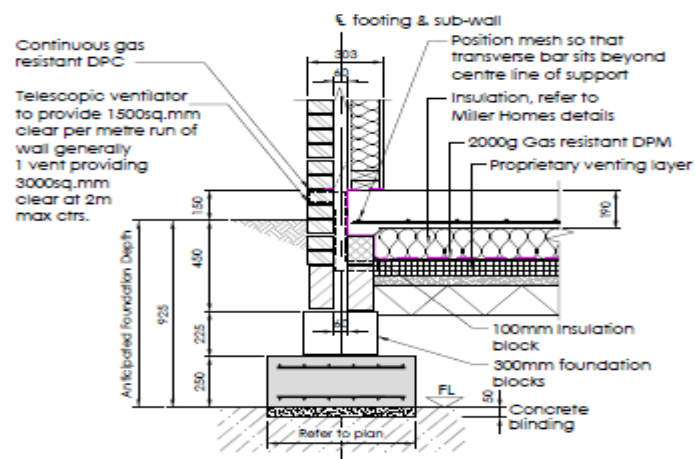
Site Name: Parcel C, Prescott	Project Number: 15-292
Company: Miller Homes	Date: 22-11-2022
Project Manager:	E3P Engineer:
PM Qualifications: BSc (Hons), FGS, AIEMA, AMICE, MEnvSc, CEnv	Engineer Qualifications: Ground Gas Training Dec 2018

Overview:

The membrane comprised a visqueen gas protection membrane (Blue) resistant to radon, carbon dioxide and low levels of methane. E3P can confirm there were no holes or rips at the time of inspection. Upon being laid the membrane is to be covered with a Celotex (closed Cell) floor insulation material which is considered to provide a high degree of protection.

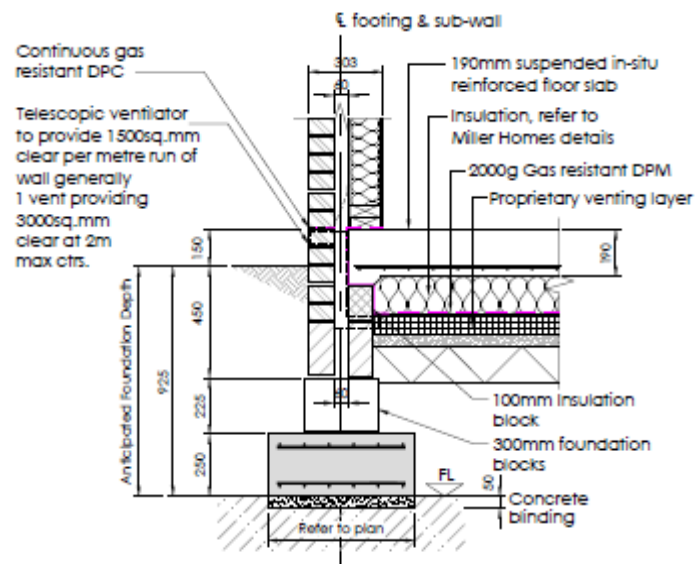
Each unit has a service duct located to the front and outer edge of the property. E3P inspected each one and can confirm that the top-hats have been adequately sealed against the membrane.

Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that **Plots 55-59** have been installed with gas protection measures in accordance with Characteristic Situation 2 to an acceptable level of workmanship.

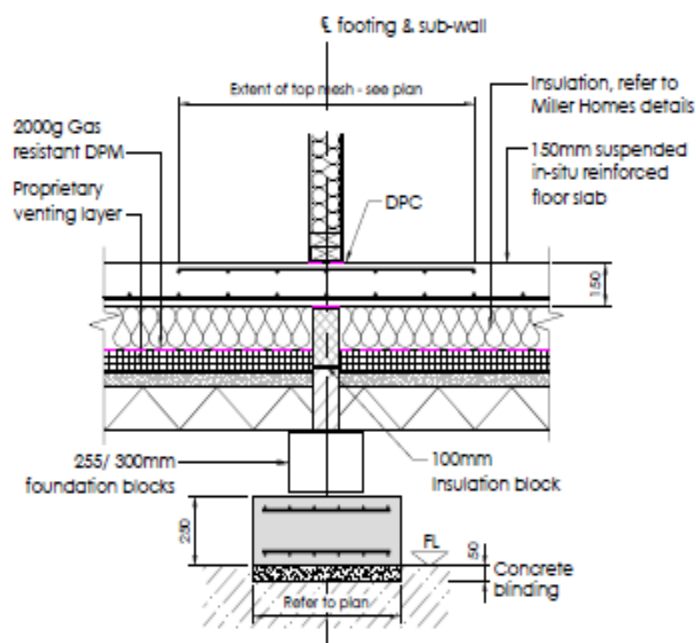


Section 1-1
Scale 1:25





Section 2-2
Scale 1:25



Section 3-3
Scale 1:25



GAS MEMBRANE VALIDATION

Complete

Score	100%
Site Name	Sonnet gate
Location	1 Tenlands Dr Prescot England L34 1BA United Kingdom (53.42224274641872, - 2.808890558527897)
Project Manager	
Project number	15292
Developer	Miller
Site representative Signature	
	22 Nov 2022 2:44 PM GMT
Conducted on	22 Nov 2022 2:28 PM GMT
Prepared by	



Inspection Gas Membrane - 100%

100%

Plot Inspection - 100%

100%

Plot Inspection 1 - 100%

100%

Plot Number

55

Type of Development: Other add note

House

Gas Characteristic Situation

CS2

Foundation Type: Other add note

Other

Block and beam

Gas Membrane Type: Manufacturer, gauge, and colour.

Visqueen blue

Gas Membrane Condition: Open punctures, tears, rips, stretching, Presence of debris, Repairs, Signs of weakness such as raised or sunken indentations, Protection plan in place to restrict access to lain gas membrane? IF FAIL DESCRIPTION IN ACTIONS AND PHOTOS REQUIRED

Pass

Laps, welds, and joints seals: Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice? Are welds complete? Appropriate joining/double-sided tape used, Folds running in line with joints? (no joints cutting across folds)

Pass

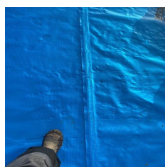


Photo 1

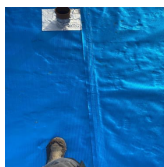


Photo 2

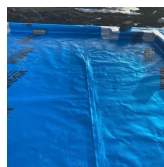


Photo 3



Photo 4



Photo 5

Service entries seals: Top hats seal arrangements fixed around service entries? Use of Jubilee clips?

Yes



Photo 6



Photo 7



Photo 8



Photo 9

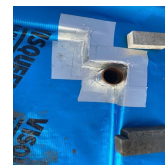


Photo 10

Type of joints/ Lapping

Welded



Corners / Internal joints: Check all corners are correctly formed or contractor has used performed corners.

Pass



Photo 11



Photo 12



Photo 13



Photo 14



Photo 15



Photo 16



Photo 17

Extent of Coverage: Is the membrane covering the entire plot? Does membrane span over outside walls?

Yes



Photo 18

Photo 19

Condition of sub-grade and underside of gas membrane: Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Pass

Slab / membrane condition (is membrane clear of debris or insulation): Can membrane be fully seen and photographed – ask contractor to remove an debris so membrane can be fully seen an inspected – this is a requirement of NHBC and local authorities.

Pass

External Wall Air bricks: Numbers, size. positions as design drawing? (Minimum of 3 walls)

Pass



Photo 20

Photo 21

Photo 22



Plot Inspection 2 - 100%

100%

Plot Number

56

Type of Development: Other add note

House

Gas Characteristic Situation

CS2

Foundation Type: Other add note

Other

Beam and block

Gas Membrane Type: Manufacturer, gauge, and colour.

Visqueen blue

Gas Membrane Condition: Open punctures, tears, rips, stretching, Presence of debris, Repairs, Signs of weakness such as raised or sunken indentations, Protection plan in place to restrict access to lain gas membrane? IF FAIL DESCRIPTION IN ACTIONS AND PHOTOS REQUIRED

Pass

Laps, welds, and joints seals: Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice? Are welds complete? Appropriate joining/double-sided tape used, Folds running in line with joints? (no joints cutting across folds)

Pass

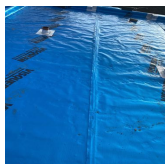


Photo 23

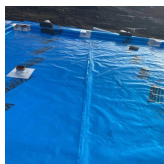


Photo 24



Photo 25



Photo 26



Photo 27

Service entries seals: Top hats seal arrangements fixed around service entries? Use of Jubilee clips?

Yes



Photo 28



Photo 29



Photo 30

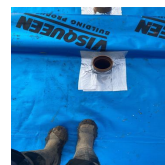


Photo 31

Type of joints/ Lapping

Welded

Corners / Internal joints: Check all corners are correctly formed or contractor has used performed corners.

Pass





Photo 32



Photo 33



Photo 34



Photo 35



Photo 36



Photo 37

Extent of Coverage: Is the membrane covering the entire plot? Does membrane span over outside walls?

Yes



Photo 38

Photo 39

Photo 40

Condition of sub-grade and underside of gas membrane: Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Pass

Slab / membrane condition (is membrane clear of debris or insulation): Can membrane be fully seen and photographed – ask contractor to remove an debris so membrane can be fully seen an inspected – this is a requirement of NHBC and local authorities.

Pass

External Wall Air bricks: Numbers, size. positions as design drawing? (Minimum of 3 walls)

Pass

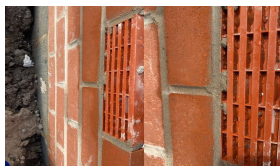


Photo 41

Photo 42



Plot Inspection 3 - 100%

100%

Plot Number

57

Type of Development: Other add note

House

Gas Characteristic Situation

CS2

Foundation Type: Other add note

Other

Beam and block

Gas Membrane Type: Manufacturer, gauge, and colour.

Visqueen blue

Gas Membrane Condition: Open punctures, tears, rips, stretching, Presence of debris, Repairs, Signs of weakness such as raised or sunken indentations, Protection plan in place to restrict access to lain gas membrane? IF FAIL DESCRIPTION IN ACTIONS AND PHOTOS REQUIRED

Pass

Laps, welds, and joints seals: Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice? Are welds complete? Appropriate joining/double-sided tape used, Folds running in line with joints? (no joints cutting across folds)

Pass

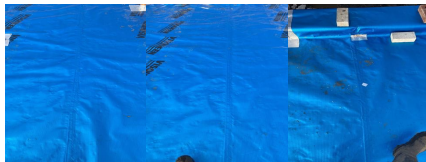


Photo 43

Photo 44

Photo 45

Service entries seals: Top hats seal arrangements fixed around service entries? Use of Jubilee clips?

Yes



Photo 46



Photo 47

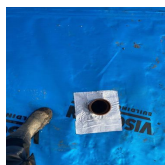


Photo 48



Photo 49

Type of joints/ Lapping

Welded

Corners / Internal joints: Check all corners are correctly formed or contractor has used performed corners.

Pass





Photo 50



Photo 51



Photo 52



Photo 53



Photo 54



Photo 55

Extent of Coverage: Is the membrane covering the entire plot? Does membrane span over outside walls?

Yes



Photo 56

Photo 57

Condition of sub-grade and underside of gas membrane: Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Pass

Slab / membrane condition (is membrane clear of debris or insulation): Can membrane be fully seen and photographed – ask contractor to remove an debris so membrane can be fully seen an inspected – this is a requirement of NHBC and local authorities.

Pass

External Wall Air bricks: Numbers, size. positions as design drawing? (Minimum of 3 walls)

Pass

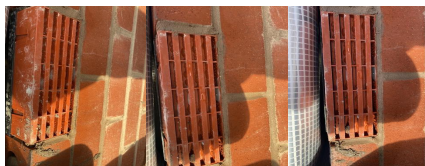


Photo 58

Photo 59

Photo 60



Plot Inspection 4 - 100%

100%

Plot Number

58

Type of Development: Other add note

House

Gas Characteristic Situation

CS2

Foundation Type: Other add note

Other

Beam and block

Gas Membrane Type: Manufacturer, gauge, and colour.

Visqueen blue

Gas Membrane Condition: Open punctures, tears, rips, stretching, Presence of debris, Repairs, Signs of weakness such as raised or sunken indentations, Protection plan in place to restrict access to lain gas membrane? IF FAIL DESCRIPTION IN ACTIONS AND PHOTOS REQUIRED

Pass

Laps, welds, and joints seals: Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice? Are welds complete? Appropriate joining/double-sided tape used, Folds running in line with joints? (no joints cutting across folds)

Pass

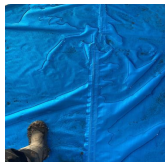


Photo 61



Photo 62

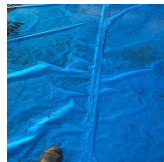


Photo 63

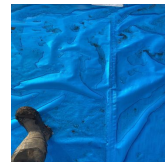


Photo 64

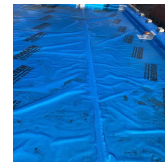


Photo 65

Service entries seals: Top hats seal arrangements fixed around service entries? Use of Jubilee clips?

Yes



Photo 66



Photo 67



Photo 68



Photo 69

Type of joints/ Lapping

Welded

Corners / Internal joints: Check all corners are correctly formed or contractor has used performed corners.

Pass





Photo 70



Photo 71



Photo 72



Photo 73



Photo 74



Photo 75

Extent of Coverage: Is the membrane covering the entire plot? Does membrane span over outside walls?

Yes



Photo 76

Photo 77

Condition of sub-grade and underside of gas membrane: Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Pass

Slab / membrane condition (is membrane clear of debris or insulation): Can membrane be fully seen and photographed – ask contractor to remove an debris so membrane can be fully seen an inspected – this is a requirement of NHBC and local authorities.

Pass

External Wall Air bricks: Numbers, size. positions as design drawing? (Minimum of 3 walls)

Pass



Photo 78

Photo 79



Plot Inspection 5 - 100%

100%

Plot Number

59

Type of Development: Other add note

House

Gas Characteristic Situation

CS2

Foundation Type: Other add note

Other

Beam and block

Gas Membrane Type: Manufacturer, gauge, and colour.

Visqueen blue

Gas Membrane Condition: Open punctures, tears, rips, stretching, Presence of debris, Repairs, Signs of weakness such as raised or sunken indentations, Protection plan in place to restrict access to lain gas membrane? IF FAIL DESCRIPTION IN ACTIONS AND PHOTOS REQUIRED

Pass

Laps, welds, and joints seals: Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice? Are welds complete? Appropriate joining/double-sided tape used, Folds running in line with joints? (no joints cutting across folds)

Pass

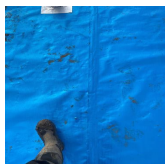


Photo 80



Photo 81



Photo 82



Photo 83

Service entries seals: Top hats seal arrangements fixed around service entries? Use of Jubilee clips?

Yes



Photo 84



Photo 85

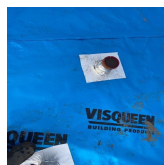


Photo 86



Photo 87

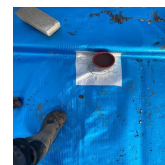


Photo 88



Photo 89

Type of joints/ Lapping

Welded

Corners / Internal joints: Check all corners are correctly formed or contractor has used performed corners.

Pass





Photo 90

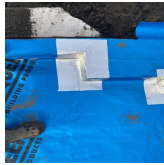


Photo 91



Photo 92



Photo 93



Photo 94



Photo 95



Photo 96



Photo 97



Photo 98



Photo 99

Extent of Coverage: Is the membrane covering the entire plot? Does membrane span over outside walls?

Yes

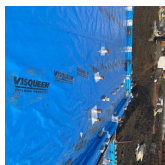


Photo 100



Photo 101



Photo 102

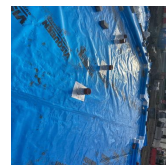


Photo 103



Photo 104

Condition of sub-grade and underside of gas membrane: Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Pass

Slab / membrane condition (is membrane clear of debris or insulation): Can membrane be fully seen and photographed – ask contractor to remove an debris so membrane can be fully seen an inspected – this is a requirement of NHBC and local authorities.

Pass

External Wall Air bricks: Numbers, size. positions as design drawing? (Minimum of 3 walls)

Pass

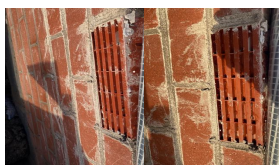


Photo 105

Photo 106

Passive Venting

Sub-floor Void: Is a check possible on future plots (insert Plot number or NO in text box)

No



Appendix



Photo 1



Photo 2



Photo 3



Photo 4





Photo 5



Photo 6



Photo 7



Photo 8





Photo 9



Photo 10



Photo 11



Photo 12





Photo 13



Photo 14



Photo 15



Photo 16





Photo 17



Photo 18



Photo 19



Photo 20





Photo 21



Photo 22



Photo 23



Photo 24





Photo 25



Photo 26



Photo 27



Photo 28





Photo 29



Photo 30



Photo 31



Photo 32





Photo 33



Photo 34



Photo 35



Photo 36





Photo 37

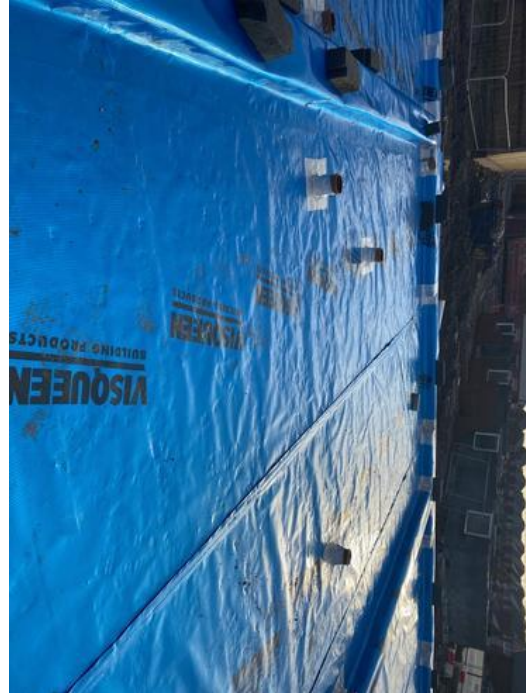


Photo 38



Photo 39



Photo 40





Photo 41



Photo 42



Photo 43

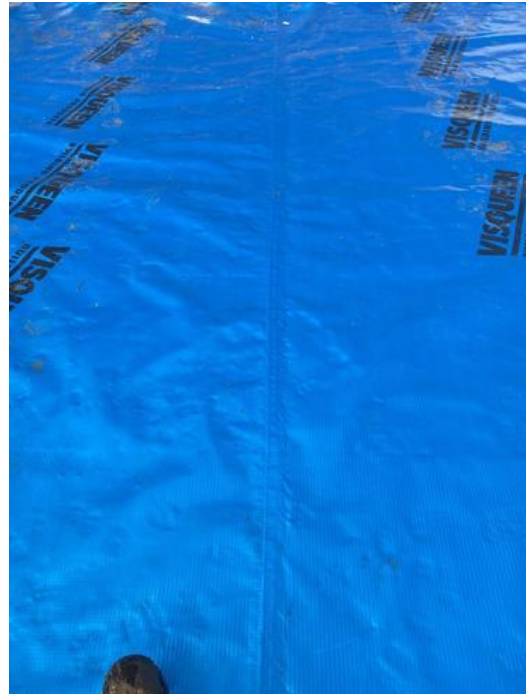


Photo 44





Photo 45

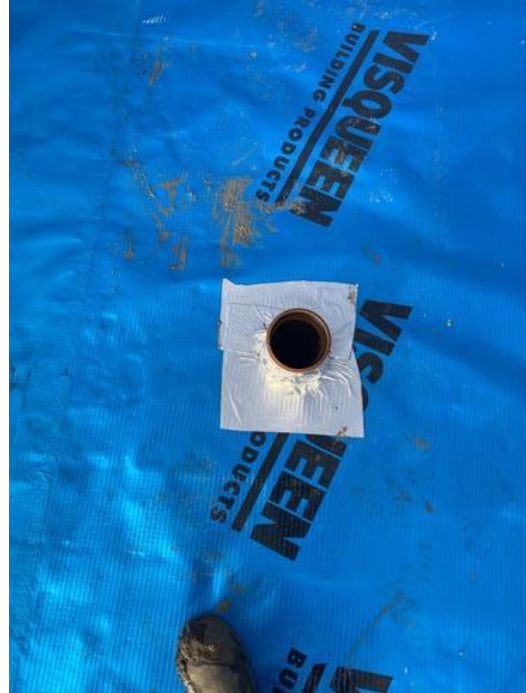


Photo 46



Photo 47



Photo 48





Photo 49



Photo 50



Photo 51



Photo 52





Photo 53



Photo 54



Photo 55



Photo 56





Photo 57



Photo 58



Photo 59



Photo 60





Photo 61



Photo 62



Photo 63



Photo 64





Photo 65

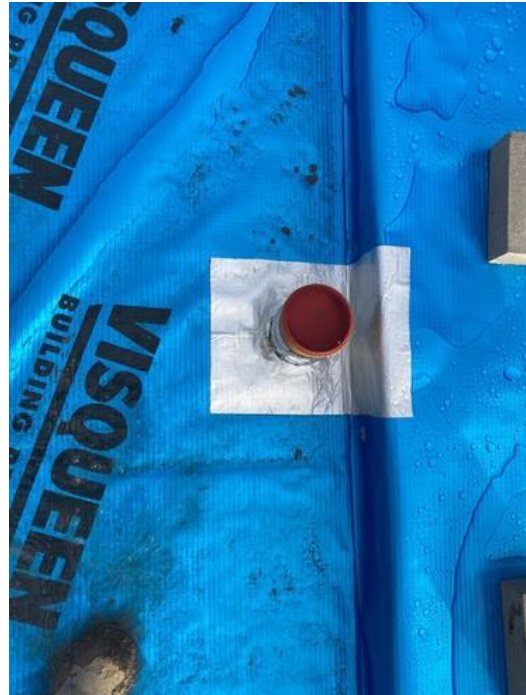


Photo 66



Photo 67



Photo 68





Photo 69



Photo 70



Photo 71



Photo 72





Photo 73



Photo 74



Photo 75



Photo 76





Photo 77



Photo 78



Photo 79



Photo 80





Photo 81



Photo 82



Photo 83



Photo 84





Photo 85



Photo 86



Photo 87



Photo 88





Photo 89



Photo 90



Photo 91



Photo 92





Photo 93



Photo 94



Photo 95



Photo 96





Photo 97



Photo 98



Photo 99



Photo 100





Photo 101



Photo 102



Photo 103



Photo 104





Photo 105



Photo 106



GAS MEMBRANE VALIDATION

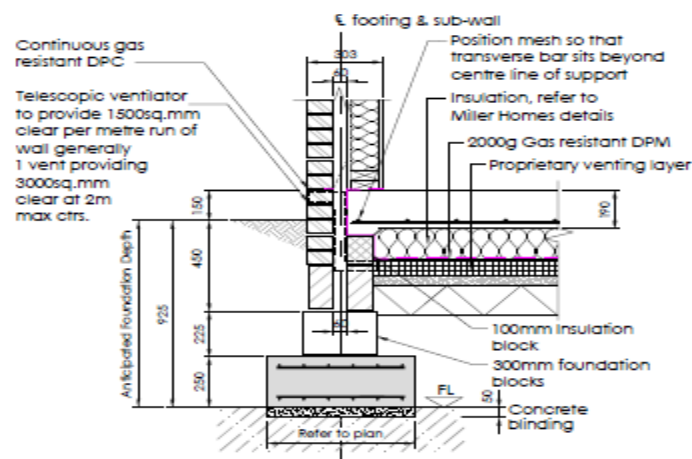
Site Name: Parcel C, Prescott	Project Number: 15-292
Company: Miller Homes	Date: 10-02-2023
Project Manager:	E3P Engineer:
PM Qualifications: BSc (Hons), FGS, AIEMA, AMICE, MEnvSc, CEnv	Engineer Qualifications: Ground Gas Training Feb 2022

Overview:

The membrane comprised a visqueen gas protection membrane (Blue) resistant to radon, carbon dioxide and low levels of methane. E3P can confirm there were no holes or rips at the time of inspection. Upon being laid the membrane is to be covered with a Celotex (closed Cell) floor insulation material which is considered to provide a high degree of protection.

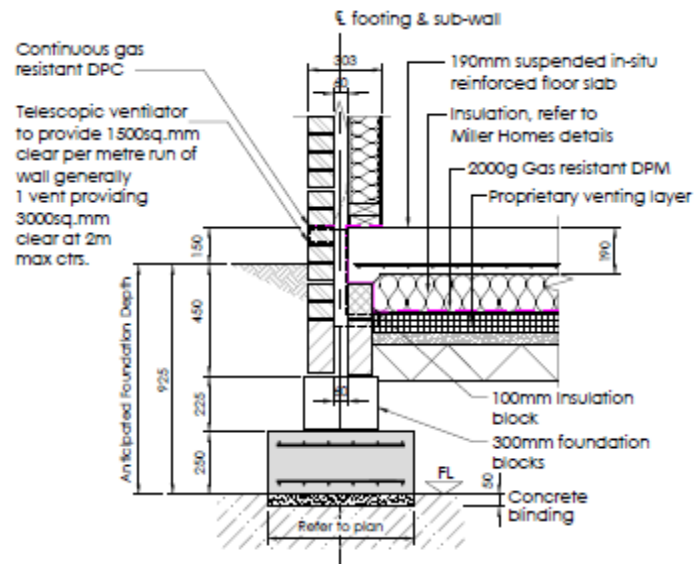
Each unit has a service duct located to the front and outer edge of the property. E3P inspected each one and can confirm that the top-hats have been adequately sealed against the membrane.

Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that **Plots 60-62** have been installed with gas protection measures in accordance with Characteristic Situation 2 to an acceptable level of workmanship.

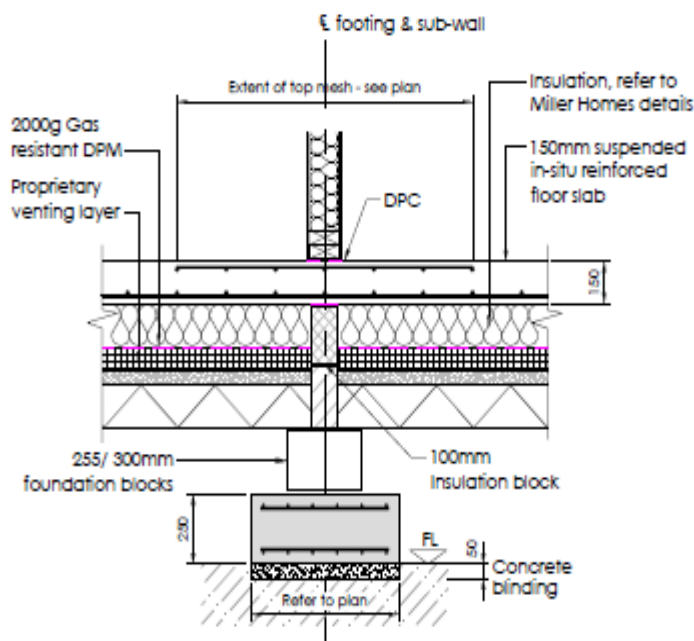


Section 1-1
Scale 1:25





Section 2-2
Scale 1:25



Section 3-3
Scale 1:25



GAS MEMBRANE VALIDATION

Complete

Site Name	Sonnet gate
Location	1 Tenlands Dr Prescot England L34 1BA United Kingdom (53.42233757846121, - 2.8083179385635018)
Project Manager	
Project number	15292
Developer	Miller homes
Site representative Signature	
	10 Feb 2023 12:35 PM GMT
Conducted on	10 Feb 2023 12:18 PM GMT
Prepared by	



Inspection Gas Membrane

Plot Inspection

Plot Inspection 1

Plot Number

60



Photo 1

Type of Development: Other add note

House

Foundation Type: Other add note

Suspended Floor

Gas Membrane Type: Manufacturer, gauge, and colour.

Blue visqueen building products



Photo 2

Photo 3

Gas Membrane Condition: Open punctures, tears, rips, stretching, Presence of debris, Repairs, Signs of weakness such as raised or sunken indentations, Protection plan in place to restrict access to lain gas membrane? IF FAIL DESCRIPTION IN ACTIONS AND PHOTOS REQUIRED

Pass



Photo 4



Photo 5



Photo 6



Photo 7

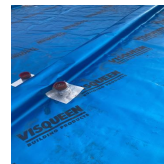


Photo 8



Photo 9



Photo 10



Photo 11



Laps, welds, and joints seals: Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice? Are welds complete? Appropriate joining/double-sided tape used, Folds running in line with joints? (no joints cutting across folds)

Pass

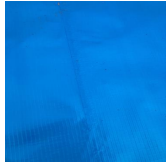


Photo 12

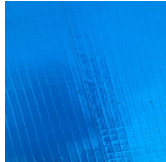


Photo 13



Photo 14



Photo 15

Service entries seals: Top hats seal arrangements fixed around service entries? Use of Jubilee clips?

Yes

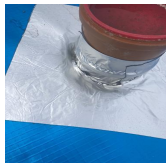


Photo 16



Photo 17

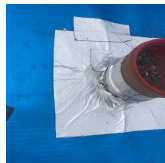


Photo 18

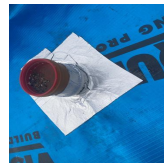


Photo 19



Photo 20



Photo 21



Photo 22

Type of joints/ Lapping

Welded

Corners / Internal joints: Check all corners are correctly formed or contractor has used performed corners.

Pass



Photo 23



Photo 24



Photo 25



Photo 26



Photo 27



Photo 28



Photo 29



Photo 30

Extent of Coverage: Is the membrane covering the entire plot? Does membrane span over outside walls?

Yes





Photo 31

Photo 32

Photo 33

Condition of sub-grade and underside of gas membrane: Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Pass



Photo 34

Slab / membrane condition (is membrane clear of debris or insulation): Can membrane be fully seen and photographed – ask contractor to remove an debris so membrane can be fully seen an inspected – this is a requirement of NHBC and local authorities.

Pass

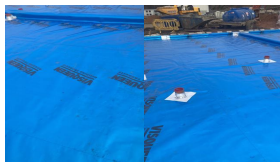


Photo 35

Photo 36

External Wall Air bricks: Numbers, size. positions as design drawing? (Minimum of 3 walls)

Pass



Photo 37

Photo 38

Photo 39



Plot Inspection 2

Plot Number

61



Photo 40

Type of Development: Other add note

House

Foundation Type: Other add note

Suspended Floor

Gas Membrane Type: Manufacturer, gauge, and colour.

Blue visqueen building products

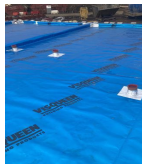


Photo 41

Gas Membrane Condition: Open punctures, tears, rips, stretching, Presence of debris, Repairs, Signs of weakness such as raised or sunken indentations, Protection plan in place to restrict access to lain gas membrane? IF FAIL DESCRIPTION IN ACTIONS AND PHOTOS REQUIRED

Pass



Photo 42



Photo 43



Photo 44



Photo 45



Photo 46

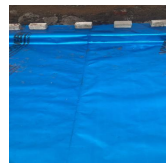


Photo 47

Laps, welds, and joints seals: Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice? Are welds complete? Appropriate joining/double-sided tape used, Folds running in line with joints? (no joints cutting across folds)

Pass

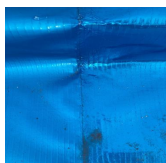


Photo 48



Photo 49



Photo 50

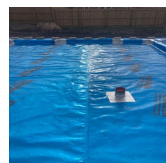


Photo 51



Service entries seals: Top hats seal arrangements fixed around service entries? Use of Jubilee clips?

Yes



Photo 52

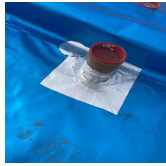


Photo 53

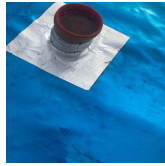


Photo 54



Photo 55

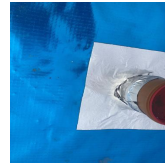


Photo 56



Photo 57

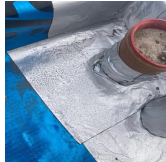


Photo 58

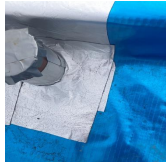


Photo 59

Type of joints/ Lapping

Welded

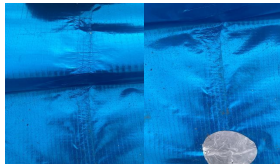


Photo 60

Photo 61

Corners / Internal joints: Check all corners are correctly formed or contractor has used performed corners.

Pass



Photo 62



Photo 63



Photo 64



Photo 65



Photo 66



Photo 67



Photo 68

Extent of Coverage: Is the membrane covering the entire plot? Does membrane span over outside walls?

Yes



Photo 69

Photo 70



Condition of sub-grade and underside of gas membrane: Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.



Photo 71

Pass

Slab / membrane condition (is membrane clear of debris or insulation): Can membrane be fully seen and photographed – ask contractor to remove an debris so membrane can be fully seen an inspected – this is a requirement of NHBC and local authorities.

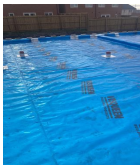


Photo 72

Pass

External Wall Air bricks: Numbers, size. positions as design drawing? (Minimum of 3 walls)



Photo 73

Photo 74

Photo 75

Pass



Plot Inspection 3

Plot Number

62



Photo 76

Type of Development: Other add note

House

Foundation Type: Other add note

Suspended Floor

Gas Membrane Type: Manufacturer, gauge, and colour.

Blue visqueen building products



Photo 77

Photo 78

Gas Membrane Condition: Open punctures, tears, rips, stretching, Presence of debris, Repairs, Signs of weakness such as raised or sunken indentations, Protection plan in place to restrict access to lain gas membrane? IF FAIL DESCRIPTION IN ACTIONS AND PHOTOS REQUIRED

Pass



Photo 79



Photo 80



Photo 81



Photo 82

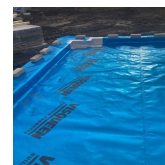


Photo 83



Photo 84



Photo 85

Laps, welds, and joints seals: Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice? Are welds complete? Appropriate joining/double-sided tape used, Folds running in line with joints? (no joints cutting across folds)

Pass



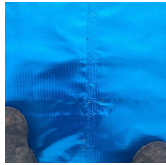


Photo 86



Photo 87



Photo 88

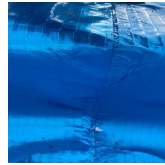


Photo 89

Service entries seals: Top hats seal arrangements fixed around service entries? Use of Jubilee clips?

Yes

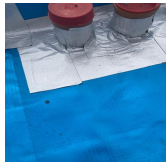


Photo 90

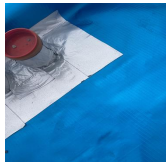


Photo 91



Photo 92



Photo 93



Photo 94

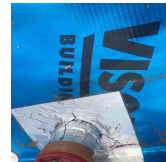


Photo 95



Photo 96

Type of joints/ Lapping

Welded

Corners / Internal joints: Check all corners are correctly formed or contractor has used performed corners.

Pass



Photo 97



Photo 98



Photo 99



Photo 100



Photo 101



Photo 102



Photo 103



Photo 104



Photo 105



Photo 106



Photo 107

Extent of Coverage: Is the membrane covering the entire plot? Does membrane span over outside walls?

Yes



Photo 108

Photo 109



Condition of sub-grade and underside of gas membrane: Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.



Photo 110

Pass

Slab / membrane condition (is membrane clear of debris or insulation): Can membrane be fully seen and photographed – ask contractor to remove an debris so membrane can be fully seen an inspected – this is a requirement of NHBC and local authorities.



Photo 111

Photo 112

Photo 113

Pass

External Wall Air bricks: Numbers, size. positions as design drawing? (Minimum of 3 walls)



Photo 114

Photo 115

Photo 116

Pass

Passive Venting

Sub-floor Void: Is a check possible on future plots (insert Plot number or NO in text box)

No



Appendix



Photo 1



Photo 2



Photo 3



Photo 4





Photo 5



Photo 6



Photo 7



Photo 8





Photo 9



Photo 10



Photo 11



Photo 12



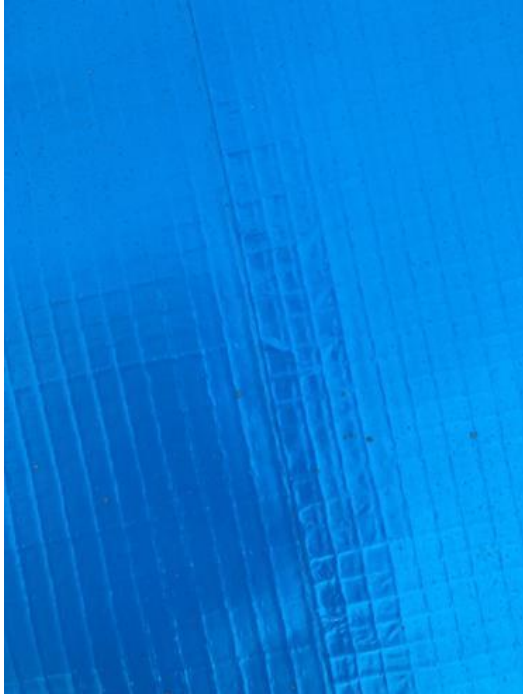


Photo 13



Photo 14

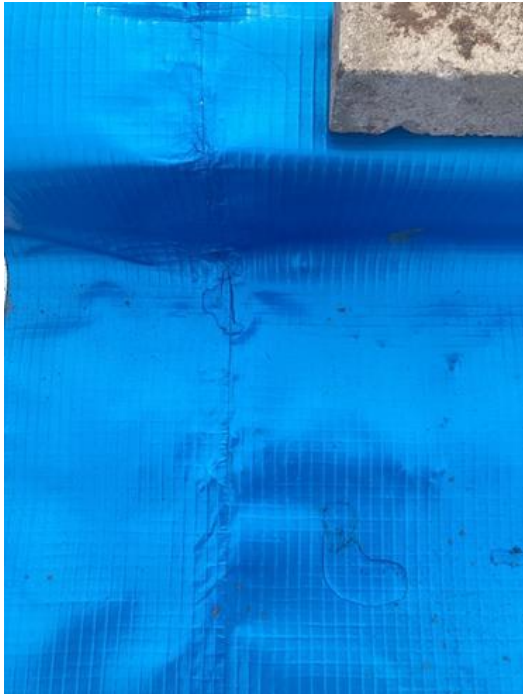


Photo 15



Photo 16





Photo 17



Photo 18



Photo 19



Photo 20





Photo 21



Photo 22



Photo 23



Photo 24





Photo 25



Photo 26



Photo 27



Photo 28





Photo 29



Photo 30



Photo 31



Photo 32





Photo 33



Photo 34



Photo 35



Photo 36





Photo 37



Photo 38



Photo 39



Photo 40



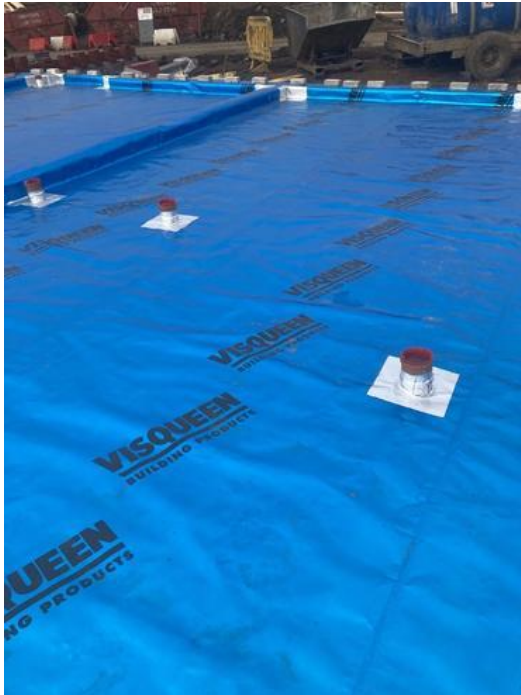


Photo 41



Photo 42



Photo 43



Photo 44





Photo 45



Photo 46



Photo 47

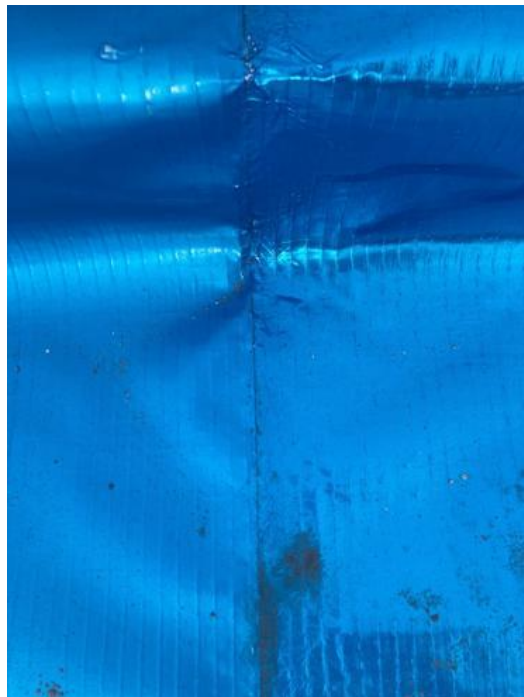


Photo 48





Photo 49



Photo 50

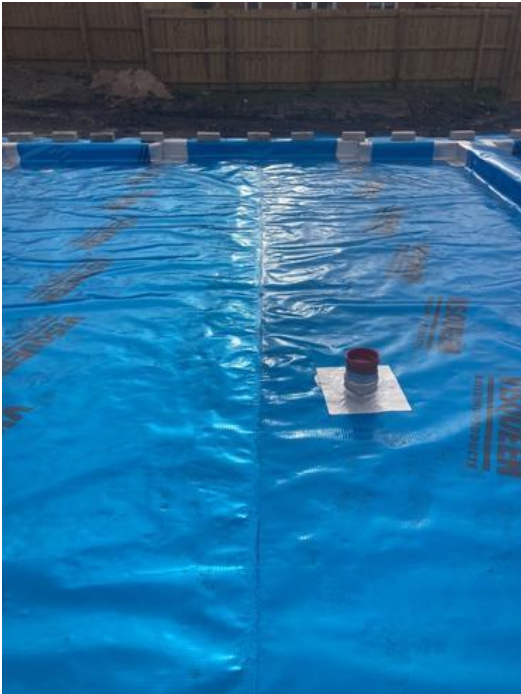


Photo 51



Photo 52





Photo 53



Photo 54



Photo 55

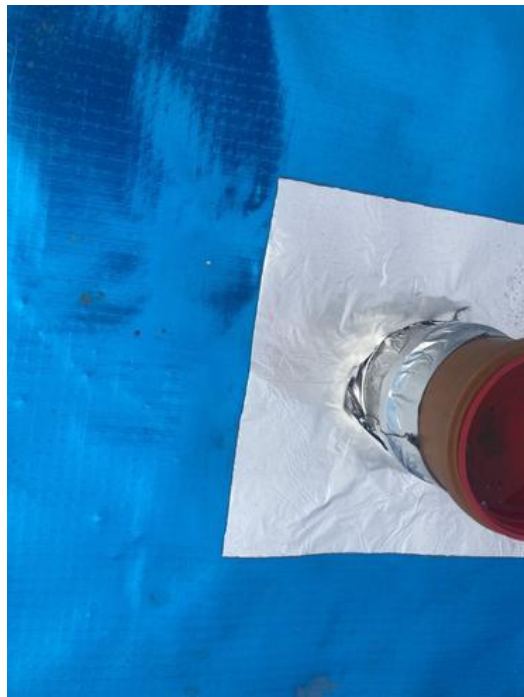


Photo 56





Photo 57



Photo 58



Photo 59

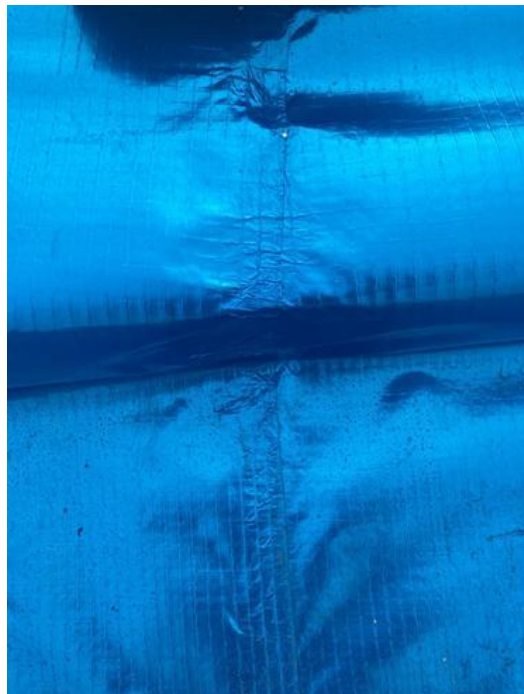


Photo 60





Photo 61



Photo 62



Photo 63



Photo 64





Photo 65



Photo 66



Photo 67



Photo 68





Photo 69



Photo 70



Photo 71



Photo 72





Photo 73



Photo 74



Photo 75



Photo 76





Photo 77



Photo 78

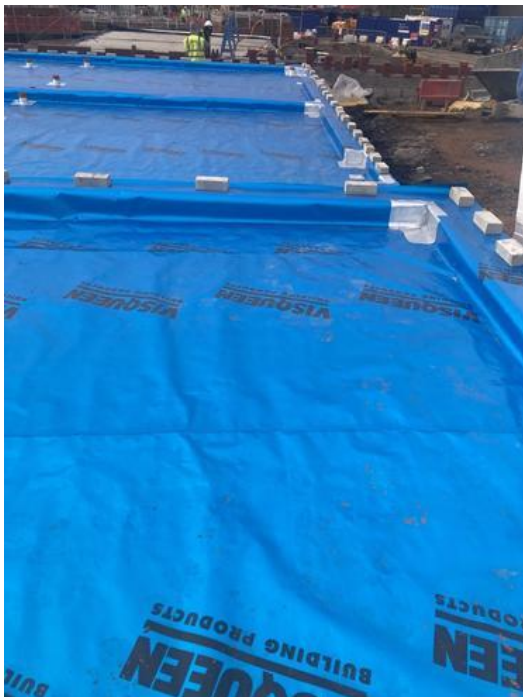


Photo 79

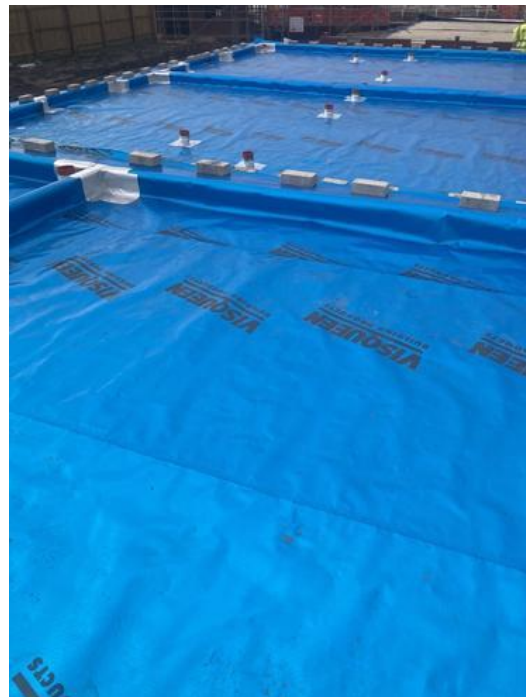


Photo 80





Photo 81



Photo 82



Photo 83



Photo 84





Photo 85



Photo 86



Photo 87



Photo 88



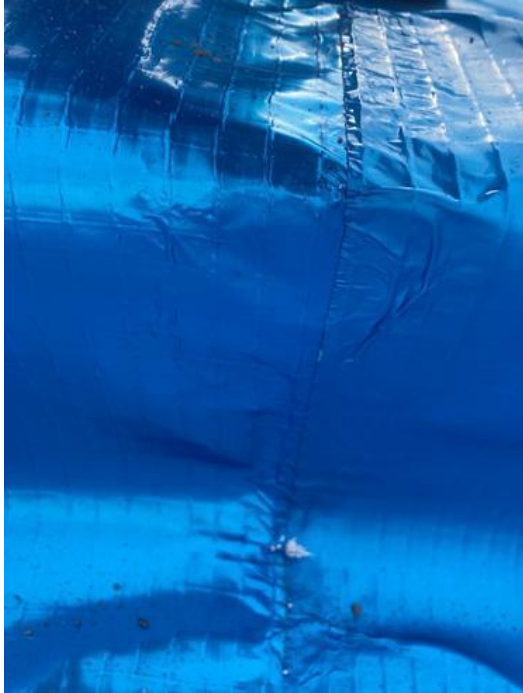


Photo 89



Photo 90

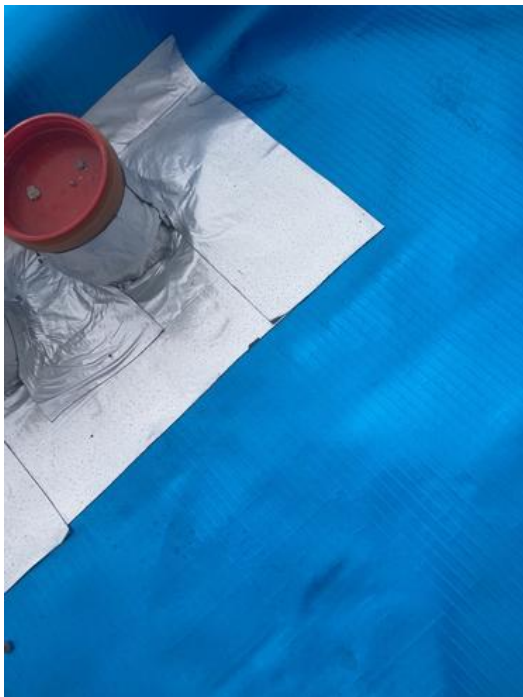


Photo 91



Photo 92





Photo 93



Photo 94



Photo 95



Photo 96





Photo 97



Photo 98



Photo 99



Photo 100





Photo 101



Photo 102



Photo 103



Photo 104





Photo 105



Photo 106



Photo 107



Photo 108





Photo 109



Photo 110



Photo 111



Photo 112





Photo 113



Photo 114



Photo 115



Photo 116



GAS MEMBRANE VALIDATION

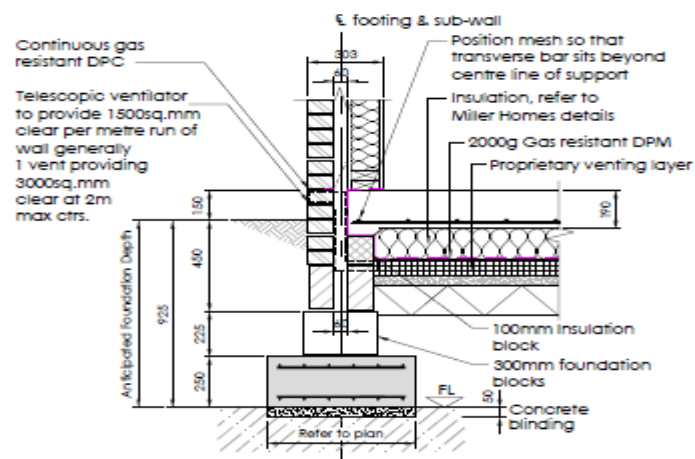
Site Name: Parcel C, Prescott	Project Number: 15-292
Company: Miller Homes	Date: 23-02-2023
Project Manager:	E3P Engineer:
PM Qualifications: BSc (Hons), FGS, AIEMA, AMICE, MEnvSc, CEnv	Engineer Qualifications: Ground Gas Training Feb 2022

Overview:

The membrane comprised a visqueen gas protection membrane (Blue) resistant to radon, carbon dioxide and low levels of methane. E3P can confirm there were no holes or rips at the time of inspection. Upon being laid the membrane is to be covered with a Celotex (closed Cell) floor insulation material which is considered to provide a high degree of protection.

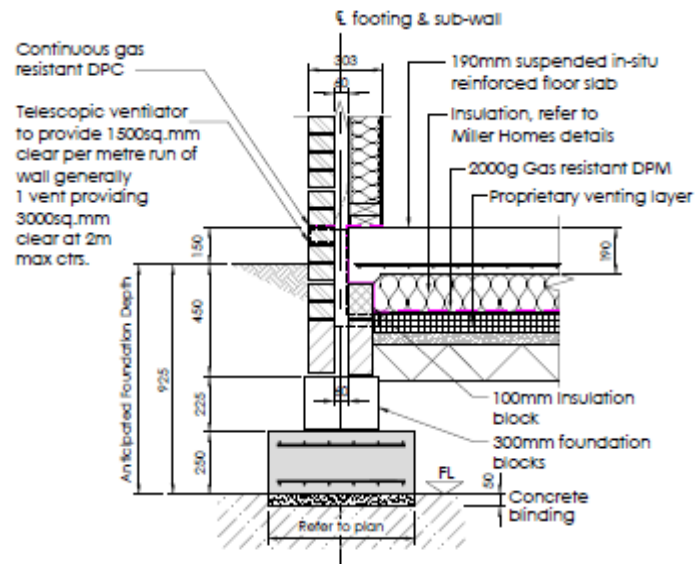
Each unit has a service duct located to the front and outer edge of the property. E3P inspected each one and can confirm that the top-hats have been adequately sealed against the membrane.

Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that **Plots 65-67** have been installed with gas protection measures in accordance with Characteristic Situation 2 to an acceptable level of workmanship.

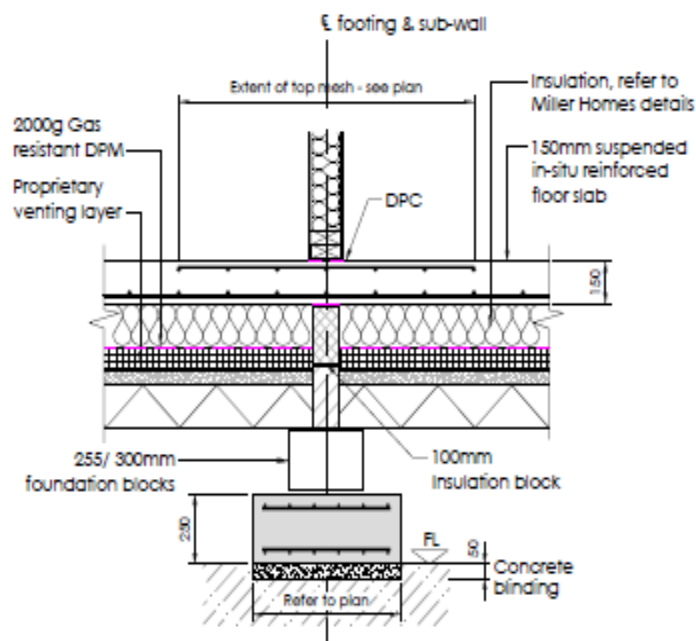


Section 1-1
Scale 1:25





Section 2-2
Scale 1:25



Section 3-3
Scale 1:25



GAS MEMBRANE VALIDATION

Complete

Site Name	Sonnet gate
Location	1 Tenlands Dr Prescot England L34 1BA United Kingdom (53.42240944824424, - 2.808244850789456)
Project Manager	
Project number	15292
Developer	Miller homes
Site representative Signature	23 Feb 2023 9:21 AM GMT
Conducted on	23 Feb 2023 9:04 AM GMT
Prepared by	



Inspection Gas Membrane

Plot Inspection

Plot Inspection 1

Plot Number 65

Type of Development: Other add note

House

Foundation Type: Other add note

Suspended Floor

Gas Membrane Type: Manufacturer, gauge, and colour.

Blue visqueen

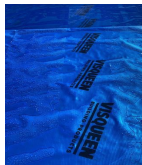


Photo 1

Gas Membrane Condition: Open punctures, tears, rips, stretching, Presence of debris, Repairs, Signs of weakness such as raised or sunken indentations, Protection plan in place to restrict access to lain gas membrane? IF FAIL DESCRIPTION IN ACTIONS AND PHOTOS REQUIRED

Pass



Photo 2

Laps, welds, and joints seals: Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice? Are welds complete? Appropriate joining/double-sided tape used, Folds running in line with joints? (no joints cutting across folds)

Pass



Photo 3

Photo 4

Service entries seals: Top hats seal arrangements fixed around service entries? Use of Jubilee clips?

Yes



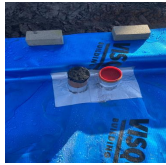


Photo 5



Photo 6

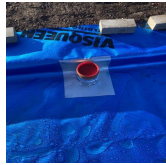


Photo 7

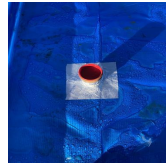


Photo 8

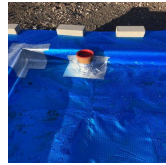


Photo 9

Type of joints/ Lapping

Welded

Corners / Internal joints: Check all corners are correctly formed or contractor has used performed corners.

Pass

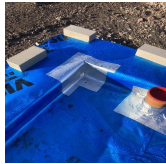


Photo 10



Photo 11



Photo 12

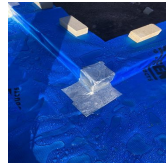


Photo 13

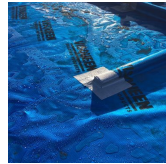


Photo 14



Photo 15

Extent of Coverage: Is the membrane covering the entire plot?
Does membrane span over outside walls?

Yes



Photo 16

Condition of sub-grade and underside of gas membrane: Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Pass

Slab / membrane condition (is membrane clear of debris or insulation): Can membrane be fully seen and photographed – ask contractor to remove an debris so membrane can be fully seen an inspected – this is a requirement of NHBC and local authorities.

Pass



Photo 17

External Wall Air bricks: Numbers, size. positions as design drawing? (Minimum of 3 walls)

Pass





Photo 18 Photo 19



Plot Inspection 2

Plot Number 66

Type of Development: Other add note

House

Foundation Type: Other add note

Suspended Floor

Gas Membrane Type: Manufacturer, gauge, and colour.

Blue visqueen



Photo 20

Gas Membrane Condition: Open punctures, tears, rips, stretching, Presence of debris, Repairs, Signs of weakness such as raised or sunken indentations, Protection plan in place to restrict access to lain gas membrane? IF FAIL DESCRIPTION IN ACTIONS AND PHOTOS REQUIRED

Pass



Photo 21 Photo 22

Laps, welds, and joints seals: Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice? Are welds complete? Appropriate joining/double-sided tape used, Folds running in line with joints? (no joints cutting across folds)

Pass



Photo 23

Service entries seals: Top hats seal arrangements fixed around service entries? Use of Jubilee clips?

Yes

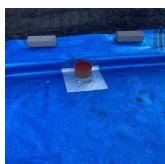


Photo 24



Photo 25



Photo 26



Photo 27



Type of joints/ Lapping

Welded



Photo 28 Photo 29

Corners / Internal joints: Check all corners are correctly formed or contractor has used performed corners.

Pass

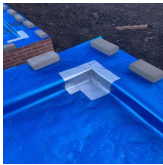


Photo 30



Photo 31

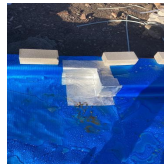


Photo 32



Photo 33



Photo 34

**Extent of Coverage: Is the membrane covering the entire plot?
Does membrane span over outside walls?**

Yes



Photo 35

Condition of sub-grade and underside of gas membrane: Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Pass

Slab / membrane condition (is membrane clear of debris or insulation): Can membrane be fully seen and photographed – ask contractor to remove an debris so membrane can be fully seen an inspected – this is a requirement of NHBC and local authorities.

Pass



Photo 36

External Wall Air bricks: Numbers, size. positions as design drawing? (Minimum of 3 walls)

Pass





Photo 37 Photo 38



Plot Inspection 3

Plot Number 67

Type of Development: Other add note House

Foundation Type: Other add note Suspended Floor

Gas Membrane Type: Manufacturer, gauge, and colour. Blue visqueen



Photo 39

Gas Membrane Condition: Open punctures, tears, rips, stretching, Presence of debris, Repairs, Signs of weakness such as raised or sunken indentations, Protection plan in place to restrict access to lain gas membrane? IF FAIL DESCRIPTION IN ACTIONS AND PHOTOS REQUIRED

Pass

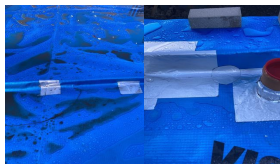


Photo 40 Photo 41

Laps, welds, and joints seals: Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice? Are welds complete? Appropriate joining/double-sided tape used, Folds running in line with joints? (no joints cutting across folds)

Pass

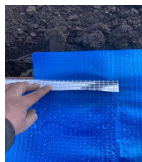


Photo 42

Service entries seals: Top hats seal arrangements fixed around service entries? Use of Jubilee clips?

Yes

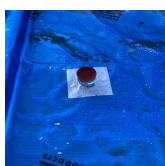


Photo 43



Photo 44



Photo 45

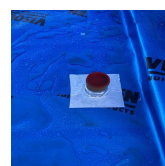


Photo 46



Type of joints/ Lapping

Welded



Photo 47 Photo 48

Corners / Internal joints: Check all corners are correctly formed or contractor has used performed corners.

Pass

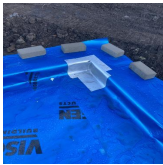


Photo 49

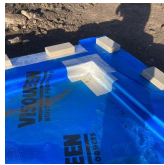


Photo 50

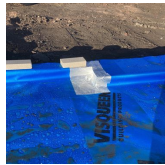


Photo 51



Photo 52



Photo 53



Photo 54



Photo 55

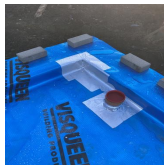


Photo 56

**Extent of Coverage: Is the membrane covering the entire plot?
Does membrane span over outside walls?**

Yes



Photo 57

Condition of sub-grade and underside of gas membrane: Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Pass

Slab / membrane condition (is membrane clear of debris or insulation): Can membrane be fully seen and photographed – ask contractor to remove an debris so membrane can be fully seen an inspected – this is a requirement of NHBC and local authorities.

Pass



Photo 58



External Wall Air bricks: Numbers, size. positions as design drawing? (Minimum of 3 walls)

Pass



Photo 59 Photo 60

Passive Venting

Sub-floor Void: Is a check possible on future plots (insert Plot number or NO in text box)

NO



Appendix



Photo 1



Photo 2



Photo 3



Photo 4



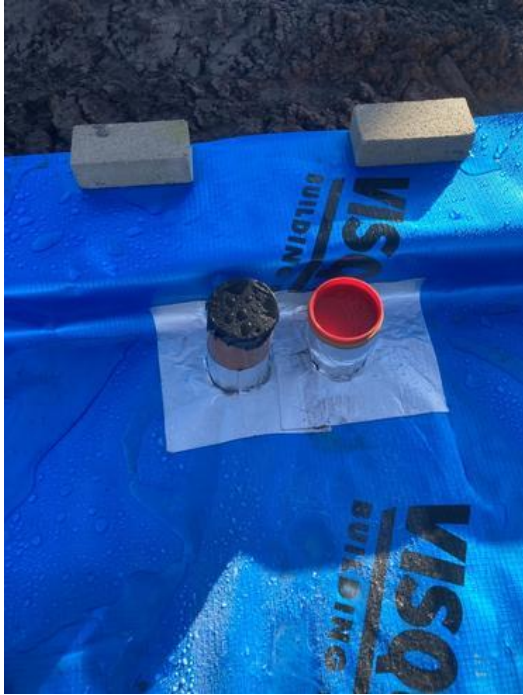


Photo 5



Photo 6



Photo 7



Photo 8





Photo 9



Photo 10



Photo 11



Photo 12



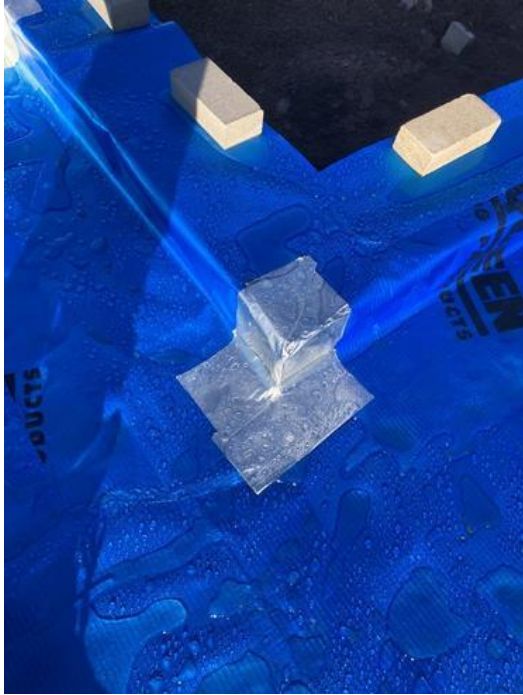


Photo 13

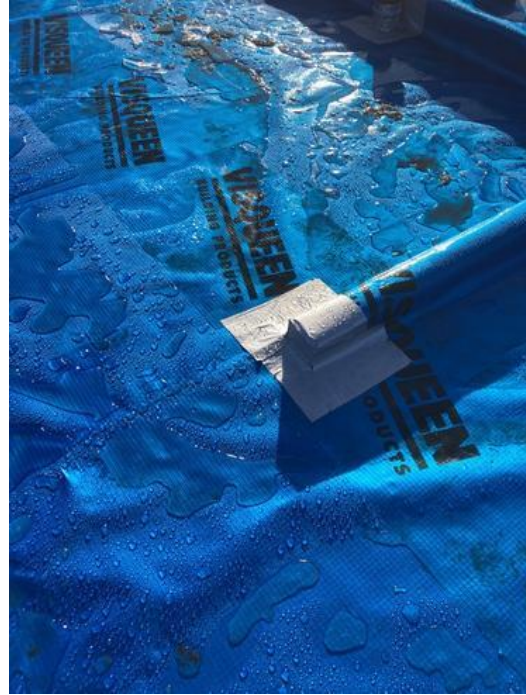


Photo 14



Photo 15



Photo 16





Photo 17



Photo 18



Photo 19



Photo 20





Photo 21



Photo 22



Photo 23



Photo 24





Photo 25



Photo 26



Photo 27



Photo 28





Photo 29



Photo 30



Photo 31

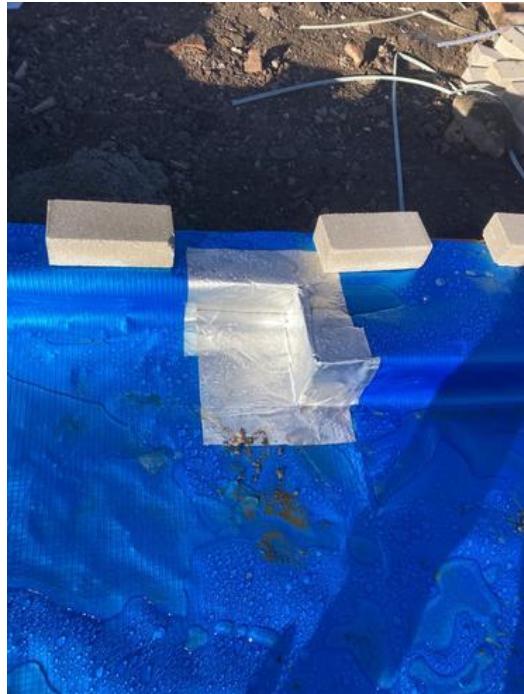


Photo 32





Photo 33



Photo 34



Photo 35



Photo 36





Photo 37



Photo 38



Photo 39



Photo 40





Photo 41

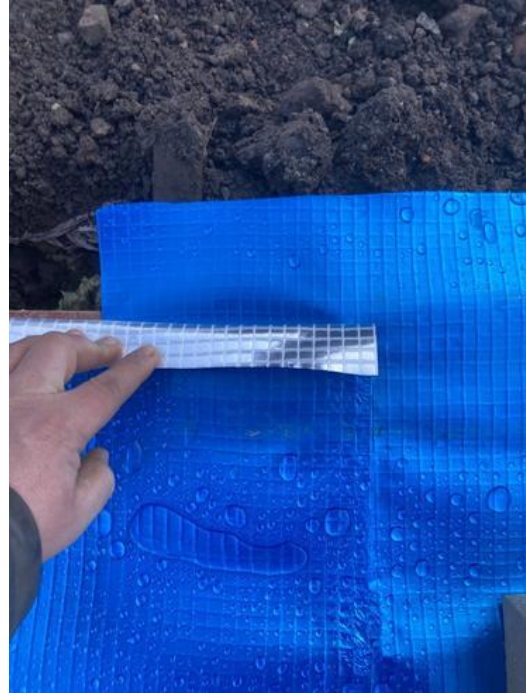


Photo 42



Photo 43



Photo 44





Photo 45



Photo 46



Photo 47



Photo 48





Photo 49



Photo 50



Photo 51



Photo 52





Photo 53



Photo 54



Photo 55

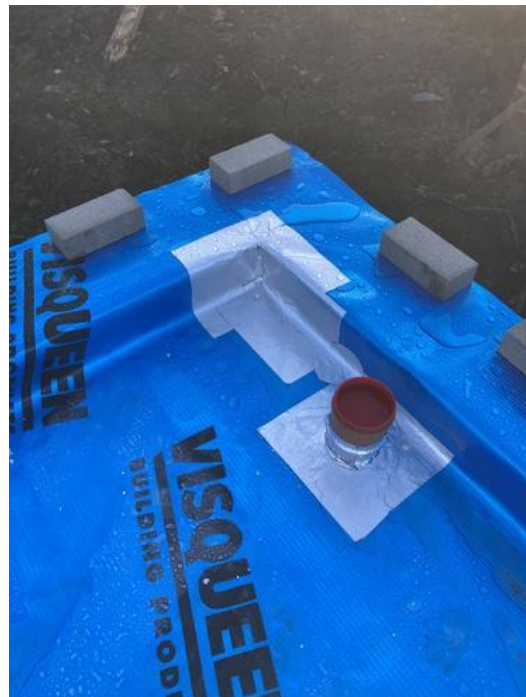


Photo 56





Photo 57



Photo 58



Photo 59



Photo 60



GAS MEMBRANE VALIDATION

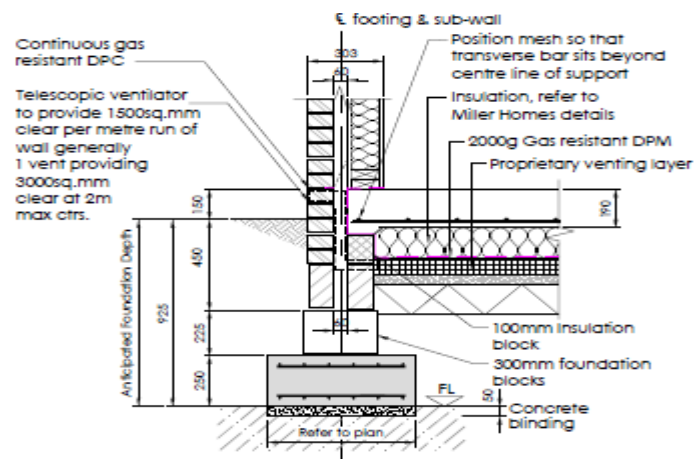
Site Name: Parcel C, Prescott	Project Number: 15-292
Company: Miller Homes	Date: 27-03-2023
Project Manager:	E3P Engineer:
PM Qualifications: BSc (Hons), FGS, AIEMA, AMICE, MIEEnvSc, CEnv	Engineer Qualifications: Ground Gas Training Feb 2022

Overview:

The membrane comprised a visqueen gas protection membrane (Blue) resistant to radon, carbon dioxide and low levels of methane. E3P can confirm there were no holes or rips at the time of inspection. Upon being laid the membrane is to be covered with a Celotex (closed Cell) floor insulation material which is considered to provide a high degree of protection.

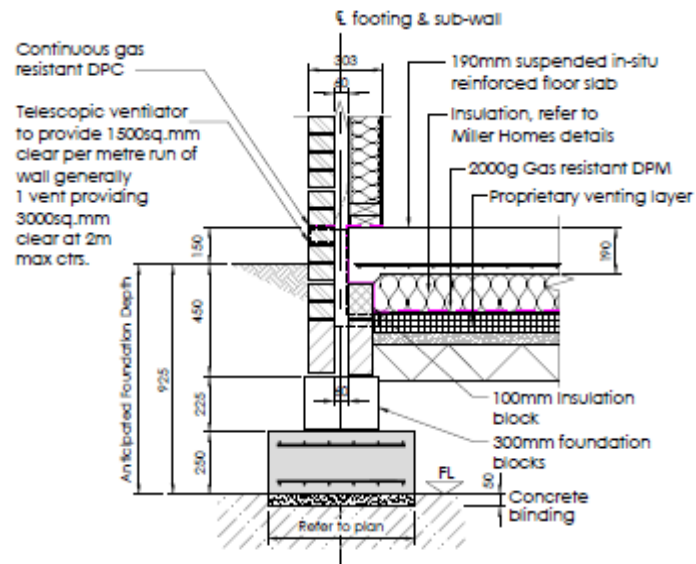
Each unit has a service duct located to the front and outer edge of the property. E3P inspected each one and can confirm that the top-hats have been adequately sealed against the membrane.

Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that **Plots 63-64** have been installed with gas protection measures in accordance with Characteristic Situation 2 to an acceptable level of workmanship.

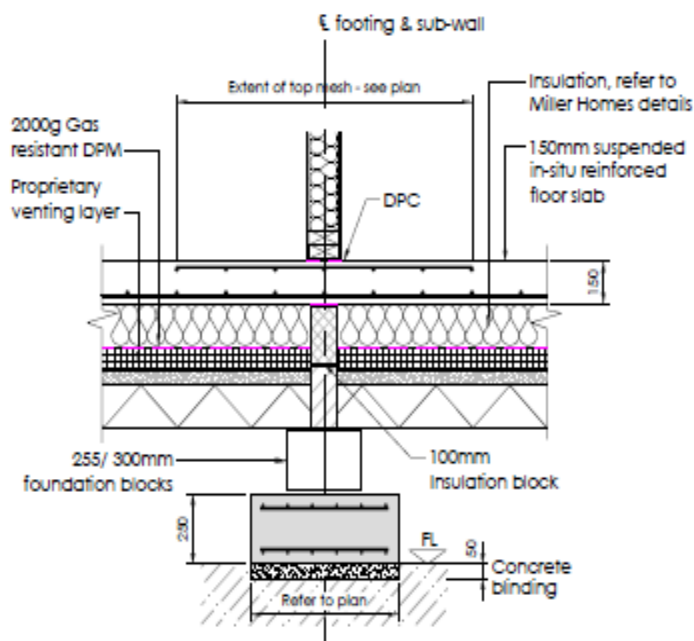


Section 1-1
Scale 1:25





Section 2-2
Scale 1:25



Section 3-3
Scale 1:25



GAS MEMBRANE VALIDATION

Complete

Site Name	Sonnet gate
Location	14 Tenlands Dr Prescot England L34 1BA United Kingdom (53.421927061430985, - 2.808021315556545)
Project Manager	
Project number	15292
Developer	Miller's homes
Site representative Signature	27 Mar 2023 11:31 AM BST
Conducted on	27 Mar 2023 11:17 AM BST
Prepared by	



Inspection Gas Membrane

Plot Inspection

Plot Inspection 1

Plot Number

63

Type of Development: Other add note

House



Photo 1

Foundation Type: Other add note

Suspended Floor

Gas Membrane Type: Manufacturer, gauge, and colour.

Blue visqueen building products

Gas Membrane Condition: Open punctures, tears, rips, stretching, Presence of debris, Repairs, Signs of weakness such as raised or sunken indentations, Protection plan in place to restrict access to lain gas membrane? IF FAIL DESCRIPTION IN ACTIONS AND PHOTOS REQUIRED

Pass

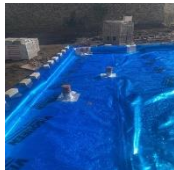


Photo 2



Photo 3



Photo 4

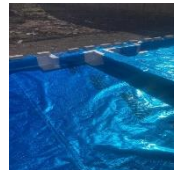


Photo 5



Photo 6



Photo 7

Laps, welds, and joints seals: Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice? Are welds complete? Appropriate joining/double-sided tape used, Folds running in line with joints? (no joints cutting across folds)

Pass



Photo 8



Photo 9



Photo 10



Photo 11

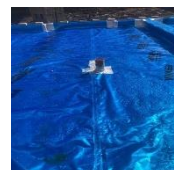


Photo 12



Service entries seals: Top hats seal arrangements fixed around service entries? Use of Jubilee clips?

Yes



Photo 13



Photo 14



Photo 15



Photo 16



Photo 17



Photo 18



Photo 19



Photo 20



Photo 21

Type of joints/ Lapping

Welded



Photo 22



Photo 23



Photo 24



Photo 25

Corners / Internal joints: Check all corners are correctly formed or contractor has used preformed corners.

Pass



Photo 26



Photo 27



Photo 28



Photo 29

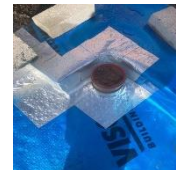


Photo 30



Photo 31



Photo 32



Photo 33

Extent of Coverage: Is the membrane covering the entire plot? Does membrane span over outside walls?

Yes





Photo 34

Photo 35

Photo 36

Condition of sub-grade and underside of gas membrane: Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.



Photo 37

Pass

Slab / membrane condition (is membrane clear of debris or insulation): Can membrane be fully seen and photographed – ask contractor to remove an debris so membrane can be fully seen an inspected – this is a requirement of NHBC and local authorities.



Photo 38



Photo 39



Photo 40



Photo 41

Pass

External Wall Air bricks: Numbers, size. positions as design drawing? (Minimum of 3 walls)

Didn't have any air bricks. Holes left ready for install

Pass



Plot Number

64

Type of Development: Other add note

House



Photo 42

Foundation Type: Other add note

Suspended Floor

Gas Membrane Type: Manufacturer, gauge, and colour.

Blue visqueen building products



Photo 43

Gas Membrane Condition: Open punctures, tears, rips, stretching, Presence of debris, Repairs, Signs of weakness such as raised or sunken indentations, Protection plan in place to restrict access to lain gas membrane? IF FAIL DESCRIPTION IN ACTIONS AND PHOTOS REQUIRED

Pass

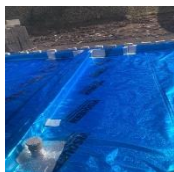


Photo 44

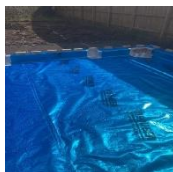


Photo 45



Photo 46



Photo 47



Photo 48



Photo 49

Laps, welds, and joints seals: Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice? Are welds complete? Appropriate joining/double-sided tape used, Folds running in line with joints? (no joints cutting across folds)

Pass



Photo 50



Photo 51



Photo 52



Photo 53



Photo 54



Service entries seals: Top hats seal arrangements fixed around service entries? Use of Jubilee clips?

Yes



Photo 55



Photo 56



Photo 57



Photo 58



Photo 59



Photo 60



Photo 61

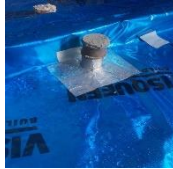


Photo 62

Type of joints/ Lapping

Welded



Photo 63

Photo 64

Photo 65

Corners / Internal joints: Check all corners are correctly formed or contractor has used preformed corners.

Pass

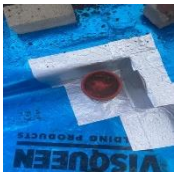


Photo 66

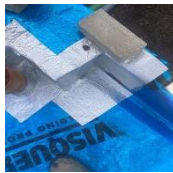


Photo 67



Photo 68

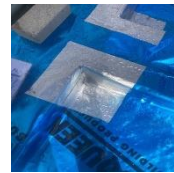


Photo 69



Photo 70



Photo 71



Photo 72



Photo 73

Extent of Coverage: Is the membrane covering the entire plot? Does membrane span over outside walls?

Yes





Photo 74

Photo 75

Condition of sub-grade and underside of gas membrane: Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Pass



Photo 76

Slab / membrane condition (is membrane clear of debris or insulation): Can membrane be fully seen and photographed – ask contractor to remove an debris so membrane can be fully seen an inspected – this is a requirement of NHBC and local authorities.

Pass



Photo 77

External Wall Air bricks: Numbers, size. positions as design drawing? (Minimum of 3 walls)

Pass

Didn't have any air bricks, holes left ready for install



Photo 78

Photo 79

Photo 80

Passive Venting

Sub-floor Void: Is a check possible on future plots (insert Plot number or NO in text box)

No



Media summary



Photo 1



Photo 2



Photo 3



Photo 4





Photo 5



Photo 6



Photo 7



Photo 8





Photo 9



Photo 10



Photo 11



Photo 12





Photo 13



Photo 14



Photo 15



Photo 16



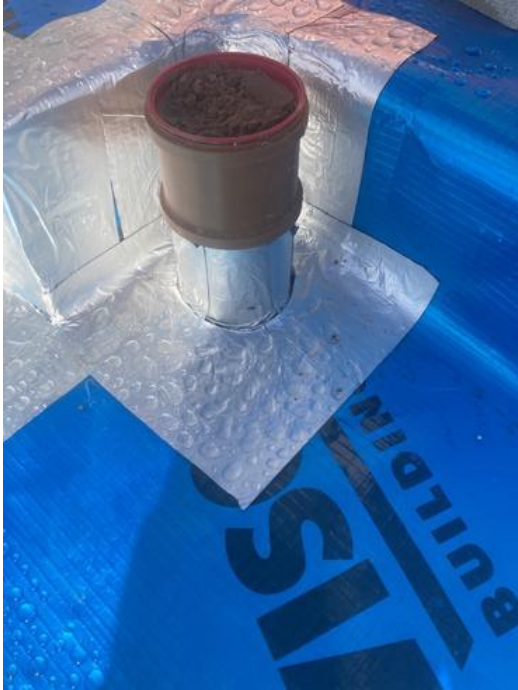


Photo 17



Photo 18



Photo 19



Photo 20





Photo 21



Photo 22



Photo 23



Photo 24





Photo 25



Photo 26



Photo 27



Photo 28

