



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

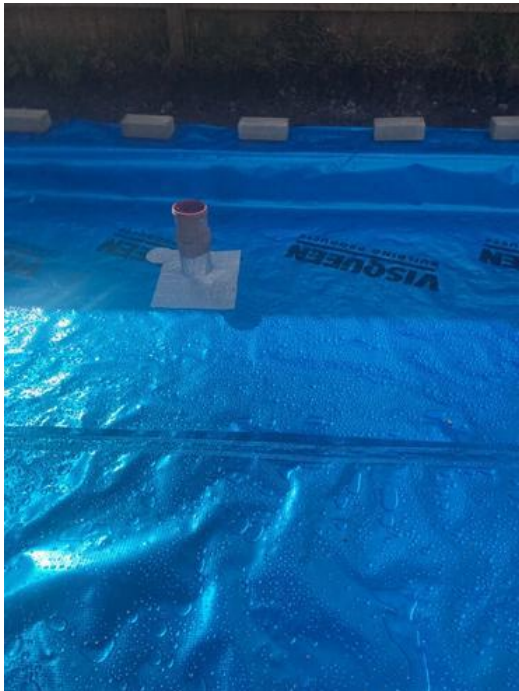


Photo 47



Photo 48





Photo 49



Photo 50



Photo 51



Photo 52





Photo 53



Photo 54



Photo 55



Photo 56





Photo 57

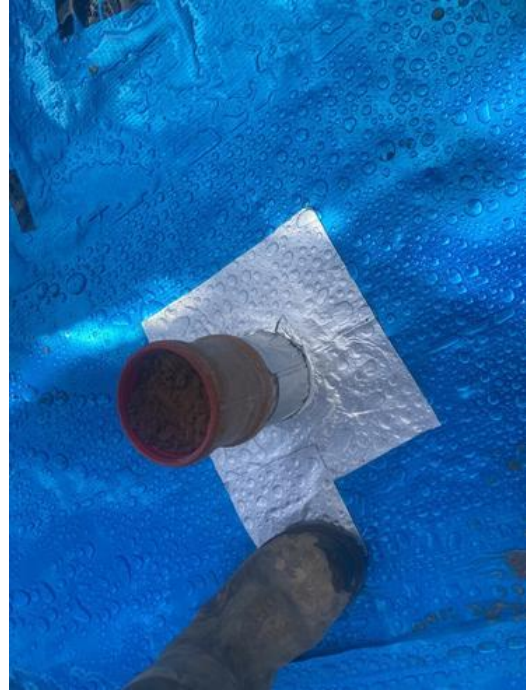


Photo 58



Photo 59



Photo 60





Photo 61

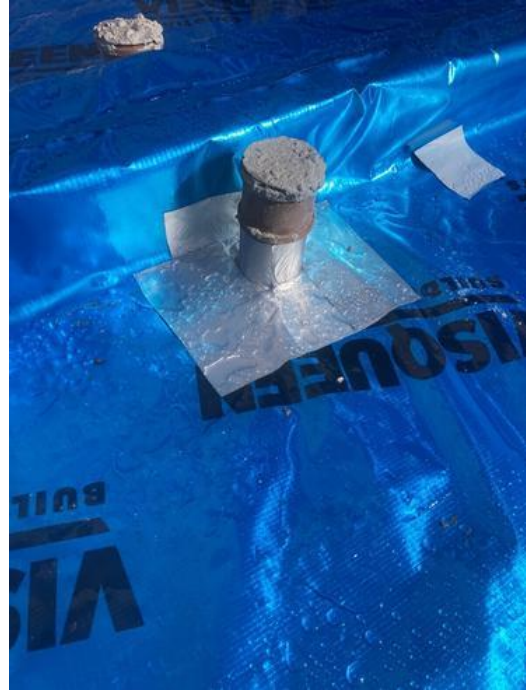


Photo 62



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



GAS MEMBRANE VALIDATION

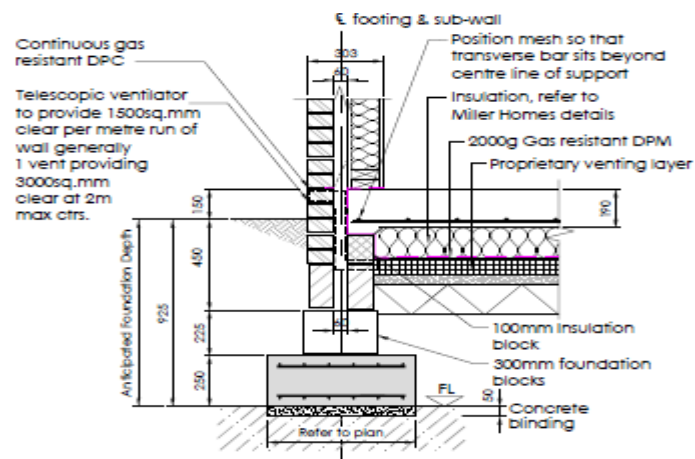
Site Name: Parcel C, Prescott	Project Number: 15-292
Company: Miller Homes	Date: 19-05-2023
Project Manager: R. Walker	E3P Engineer: P. Lavelle
PM Qualifications: BSc (Hons), FGS, AIEMA, AMICE, MIEEnvSc, CEnv	Engineer Qualifications: Ground Gas Training Feb 2022

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.

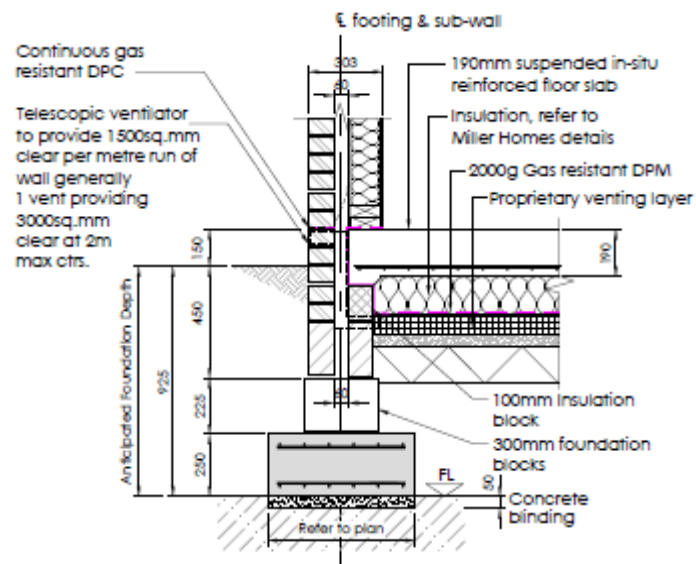
Each unit has a service duct located to the front and outer edge of the property. E3P inspected each one and can confirm that the top-hats have been adequately sealed against the membrane.

Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that **Plots 70-71** have been installed with gas protection measures in accordance with Characteristic Situation 2 to an acceptable level of workmanship.

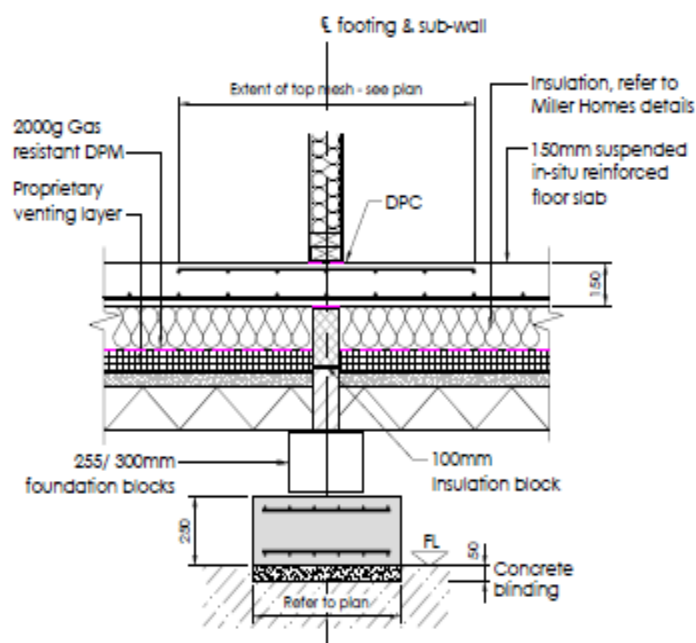


Section 1-1
Scale 1:25





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 (53.42218675917964, - 2.8082374266291197)
Project Manager	Roy walker
Project number	13127
Developer	Miller homes
Site representative Signature	Shaun Hewitt 19 May 2023 11:53 AM BST
Conducted on	19 May 2023 11:42 AM BST
Prepared by	Patrick Lavelle



Inspection Gas Membrane

Plot Inspection

Plot Number

70

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

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

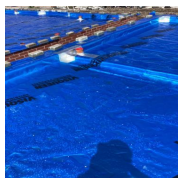


Photo 2



Photo 3



Photo 4



Photo 5

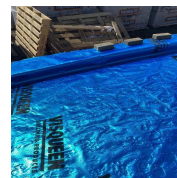


Photo 6



Photo 7



Photo 8

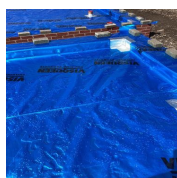


Photo 9

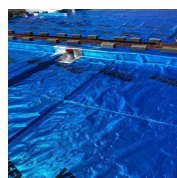


Photo 10



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



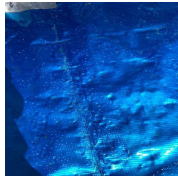


Photo 12

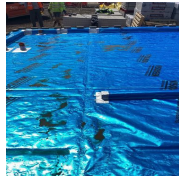


Photo 13

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

Yes



Photo 14

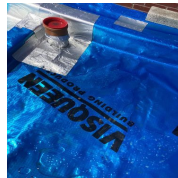


Photo 15

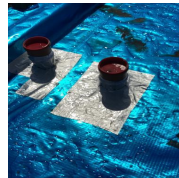


Photo 16

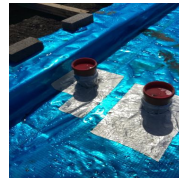


Photo 17

Type of joints/ Lapping

Welded

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

Pass



Photo 18



Photo 19



Photo 20



Photo 21



Photo 22

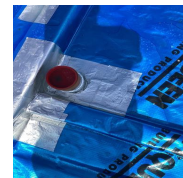


Photo 23

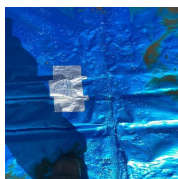


Photo 24



Photo 25



Photo 26



Photo 27

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

Yes



Photo 28



Photo 29



Photo 30



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 31

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.

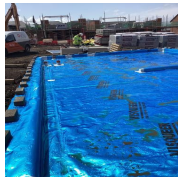


Photo 32

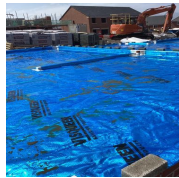


Photo 33

Pass

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

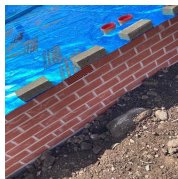


Photo 34



Photo 35

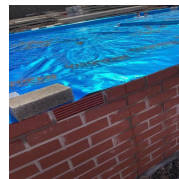


Photo 36

Pass



Plot Inspection

Plot Number

71

Type of Development: Other add note

House



Photo 37



Photo 38

Foundation Type: Other add note

Suspended Floor

Gas Membrane Type: Manufacturer, gauge, and colour.

Blue visqueen

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 39



Photo 40



Photo 41

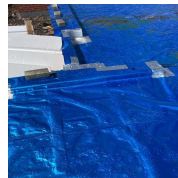


Photo 42

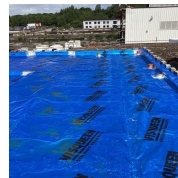


Photo 43

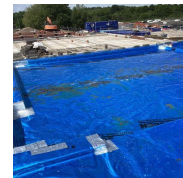


Photo 44



Photo 45

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 46



Photo 47

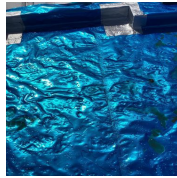


Photo 48

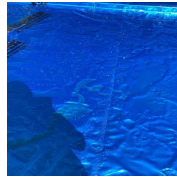


Photo 49

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

Yes

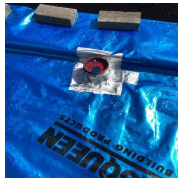


Photo 50

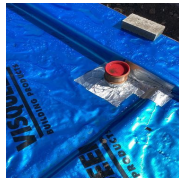


Photo 51

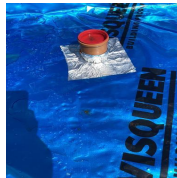


Photo 52

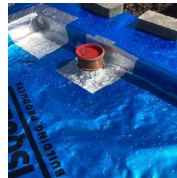


Photo 53



Photo 54

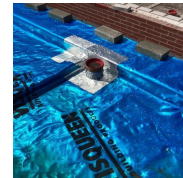


Photo 55

Type of joints/ Lapping

Welded

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

Pass

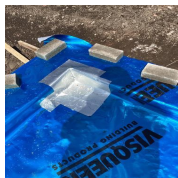


Photo 56

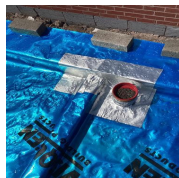


Photo 57



Photo 58



Photo 59



Photo 60



Photo 61



Photo 62

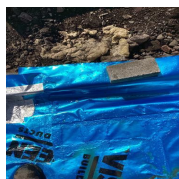


Photo 63



Photo 64



Photo 65

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

Yes



Photo 66



Photo 67

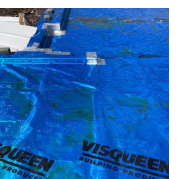


Photo 68



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 69

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.

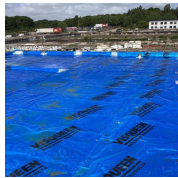


Photo 70

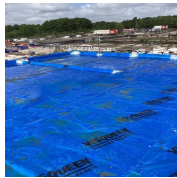


Photo 71

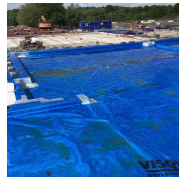


Photo 72

Pass

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



Photo 73

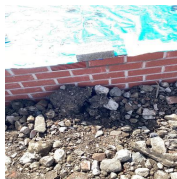


Photo 74



Photo 75

Pass

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

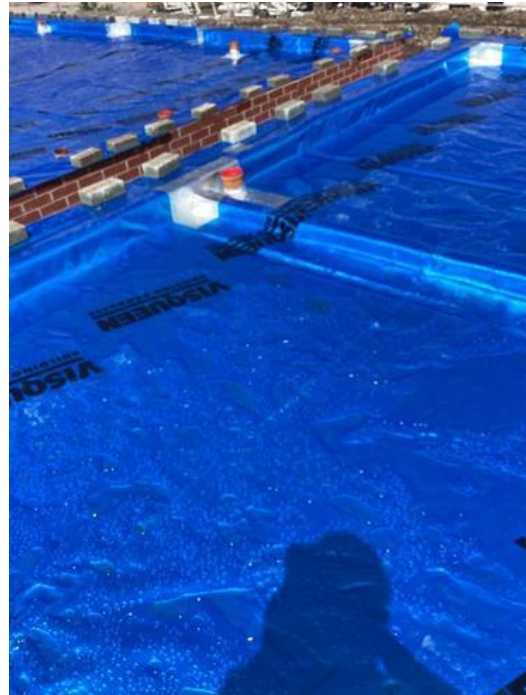


Photo 2



Photo 3



Photo 4





Photo 5



Photo 6



Photo 7



Photo 8





Photo 9



Photo 10



Photo 11



Photo 12





Photo 13



Photo 14

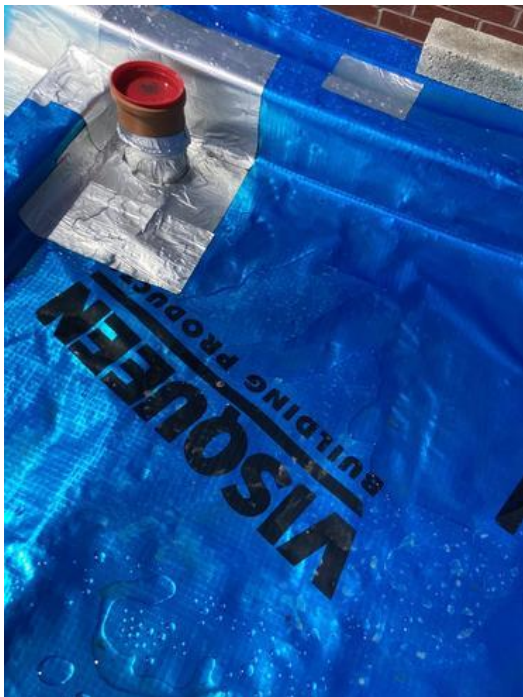


Photo 15



Photo 16





Photo 17



Photo 18



Photo 19



Photo 20





Photo 21



Photo 22



Photo 23



Photo 24





Photo 25

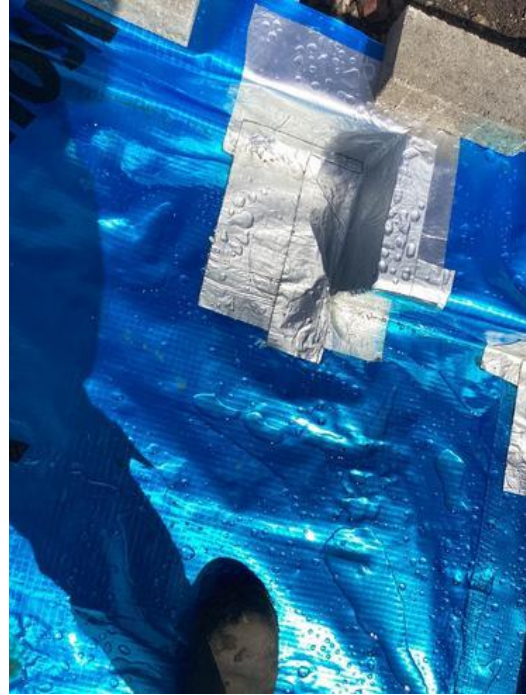


Photo 26



Photo 27



Photo 28





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

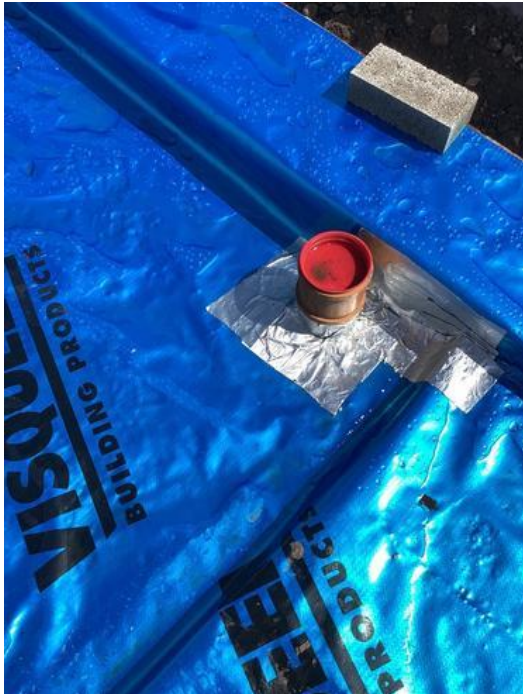


Photo 51

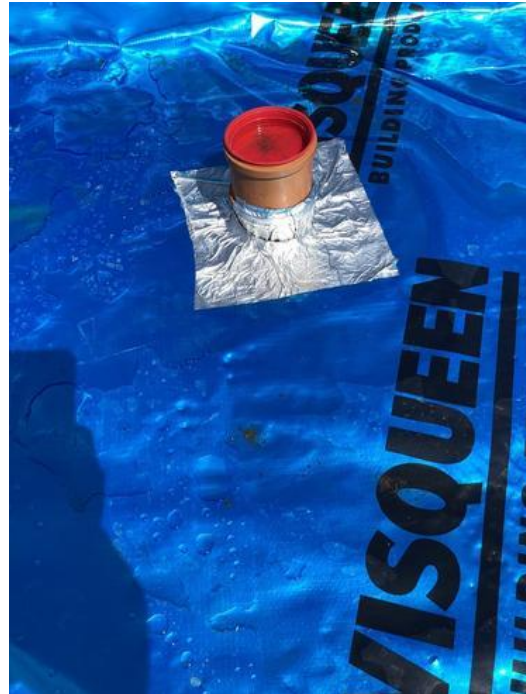


Photo 52



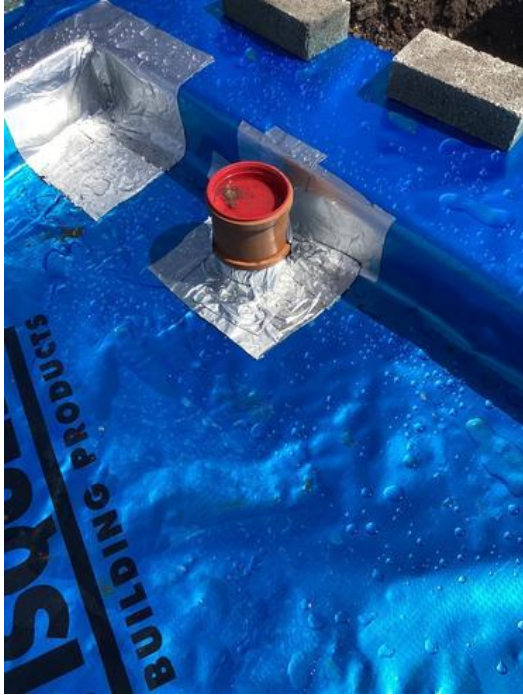


Photo 53

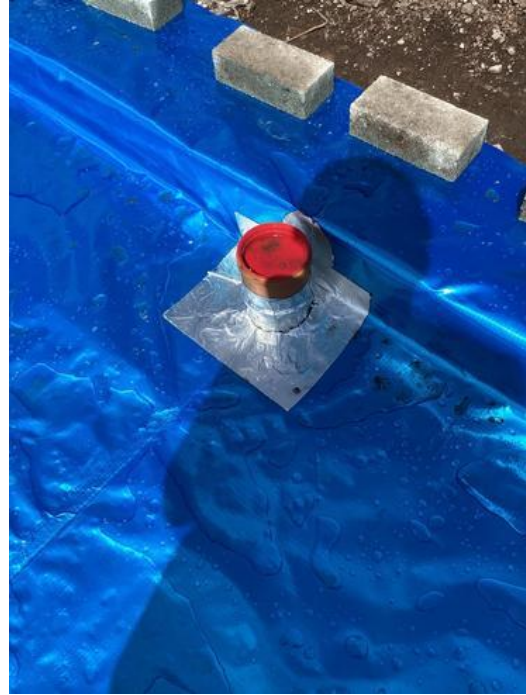


Photo 54



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

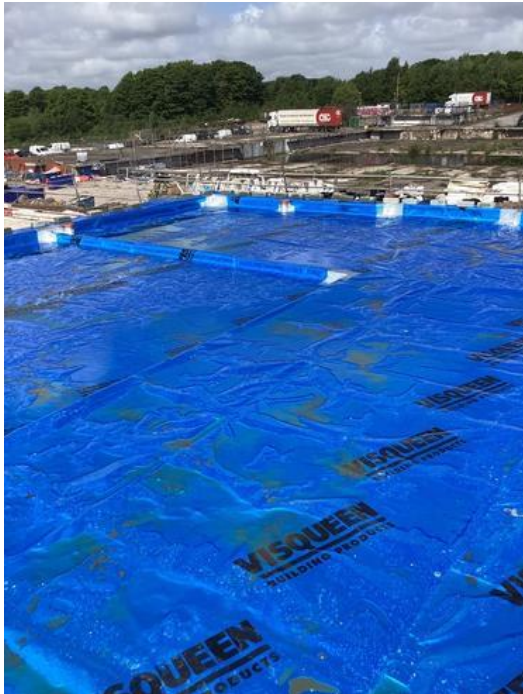


Photo 71

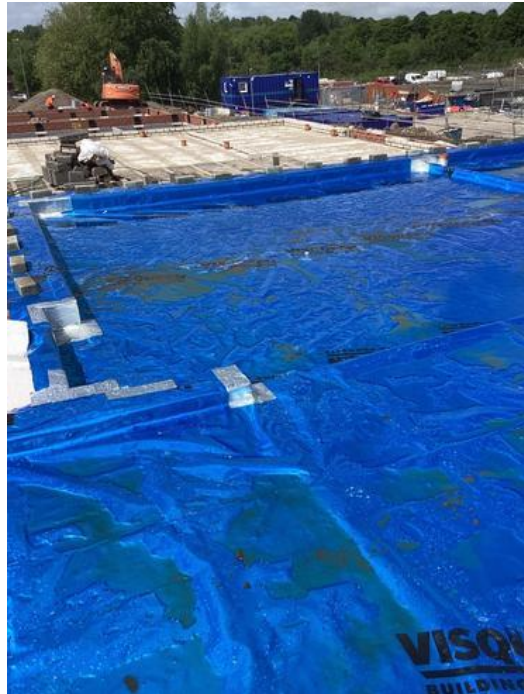


Photo 72





Photo 73



Photo 74



Photo 75



GAS MEMBRANE VALIDATION

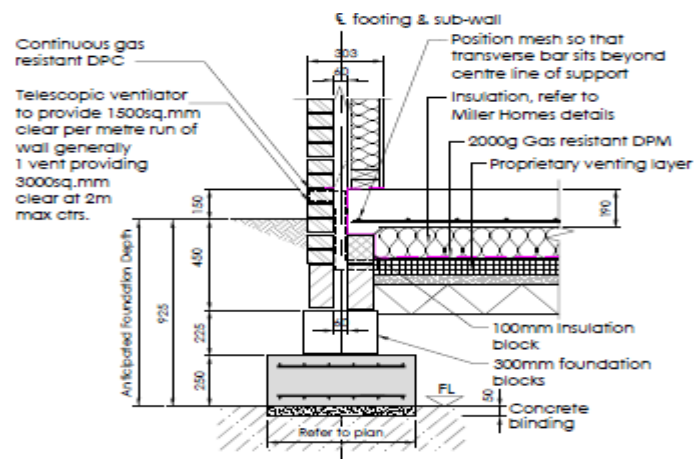
Site Name: Parcel C, Prescott	Project Number: 15-292
Company: Miller Homes	Date: 23-05-2023
Project Manager: R. Walker	E3P Engineer: R. Webster
PM Qualifications: BSc (Hons), FGS, AIEMA, AMICE, MIEEnvSc, CEnv	Engineer Qualifications: Ground Gas Training Feb 2022

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.

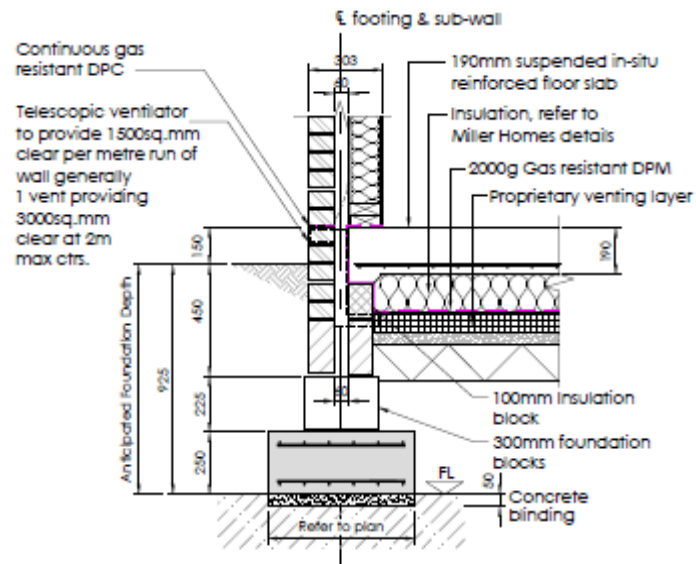
Each unit has a service duct located to the front and outer edge of the property. E3P inspected each one and can confirm that the top-hats have been adequately sealed against the membrane.

Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that **Plots 72, 80-81** have been installed with gas protection measures in accordance with Characteristic Situation 2 to an acceptable level of workmanship.

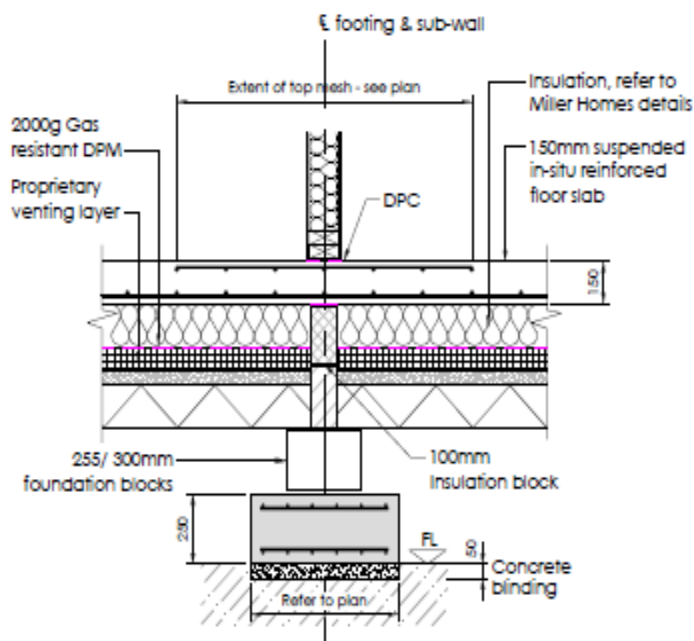


Section 1-1
Scale 1:25





Section 2-2
Scale 1:25



Section 3-3
Scale 1:25



GAS MEMBRANE VALIDATION

Complete

Site Name	Sonnet gate
Location	Prescot Park Way Knowsley England L34 United Kingdom (53.42237031654531, - 2.8099527013121652)
Project Manager	R. Walker
Project number	15292
Developer	Miller
Site representative Signature	Shaun Hewitt 23 May 2023 9:29 AM BST
Conducted on	23 May 2023 9:14 AM BST
Prepared by	Richard Webster



Inspection Gas Membrane

Plot Inspection 1

Plot Number 80

Type of Development: Other add note

House

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

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

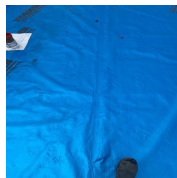


Photo 2

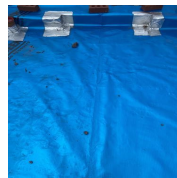


Photo 3



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

Type of joints/ Lapping

Welded

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



Photo 17

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 18



Photo 19



Plot Inspection

Plot Number 81

Type of Development: Other add note

House

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

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

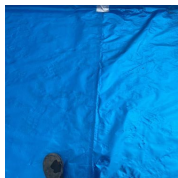


Photo 20



Photo 21

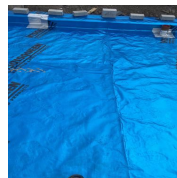


Photo 22



Photo 23



Photo 24

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

Yes



Photo 25



Photo 26



Photo 27



Photo 28



Photo 29



Photo 30

Type of joints/ Lapping

Welded

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

Pass



Photo 31



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

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 40



Photo 41



Plot Inspection

Plot Number 72

Type of Development: Other add note House

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

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

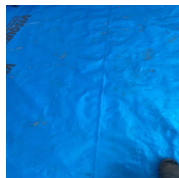


Photo 43



Photo 44



Photo 45



Photo 46

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

Yes



Photo 47



Photo 48



Photo 49



Photo 50



Photo 51



Photo 52

Type of joints/ Lapping Welded

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

Pass



Photo 53



Photo 54



Photo 55



Photo 56



Photo 57



Photo 58





Photo 59



Photo 60



Photo 61

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

Yes

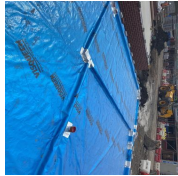


Photo 62



Photo 63



Photo 64



Photo 65

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

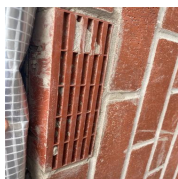


Photo 66



Photo 67

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

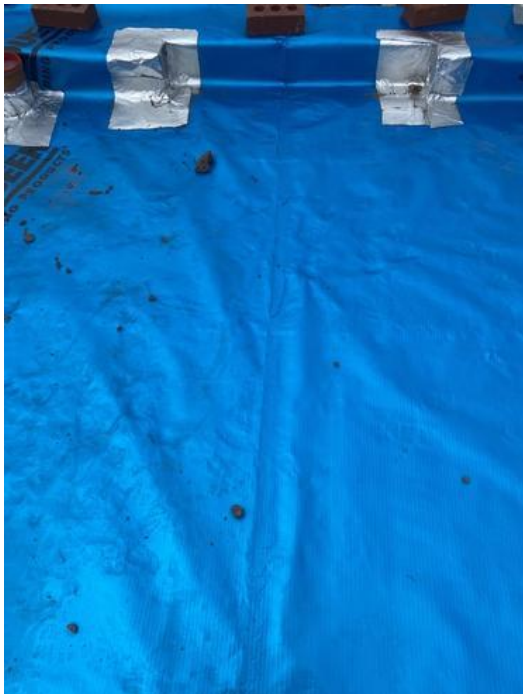


Photo 3



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



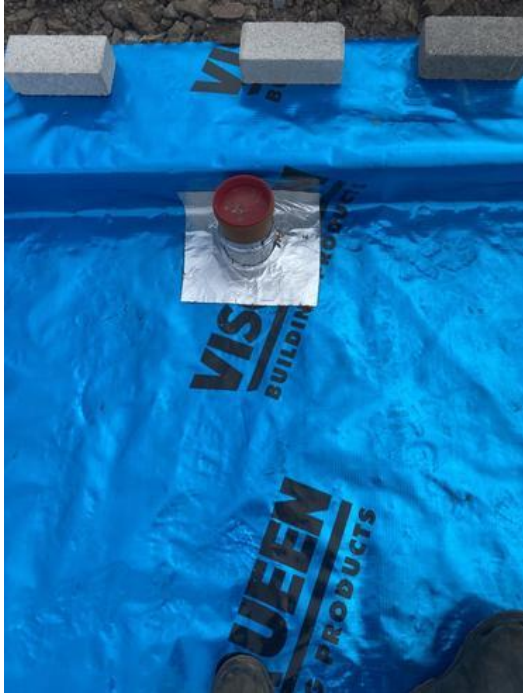


Photo 29



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

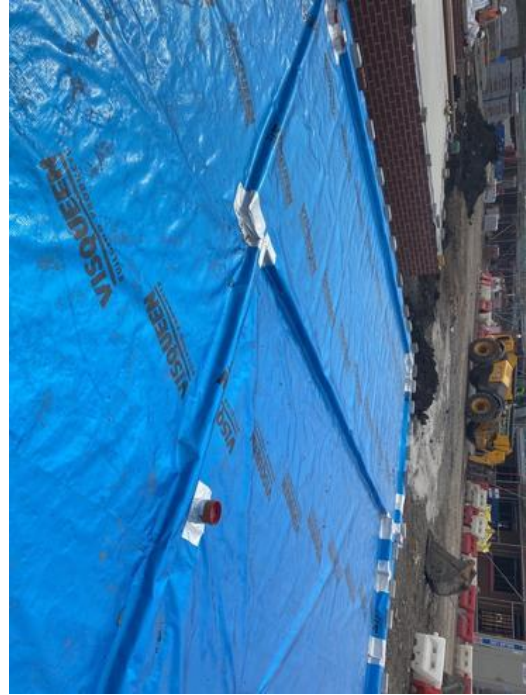


Photo 62



Photo 63



Photo 64





Photo 65



Photo 66



Photo 67



GAS MEMBRANE VALIDATION

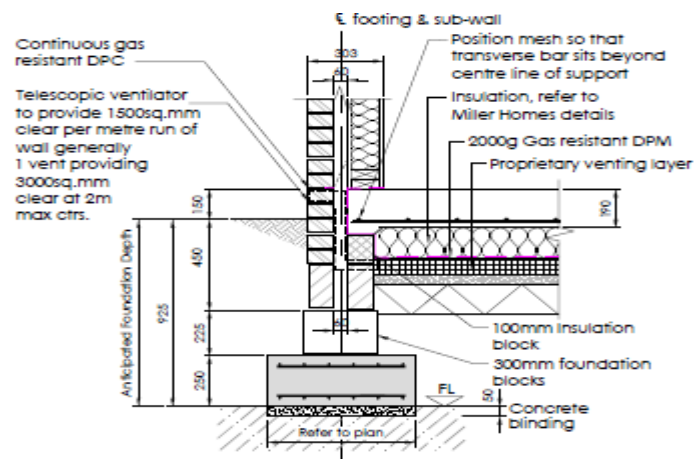
Site Name: Parcel C, Prescott	Project Number: 15-292
Company: Miller Homes	Date: 30-05-2023
Project Manager: R. Walker	E3P Engineer: J. James
PM Qualifications: BSc (Hons), FGS, AIEMA, AMICE, MIEEnvSc, CEnv	Engineer Qualifications: Ground Gas Training Feb 2022

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.

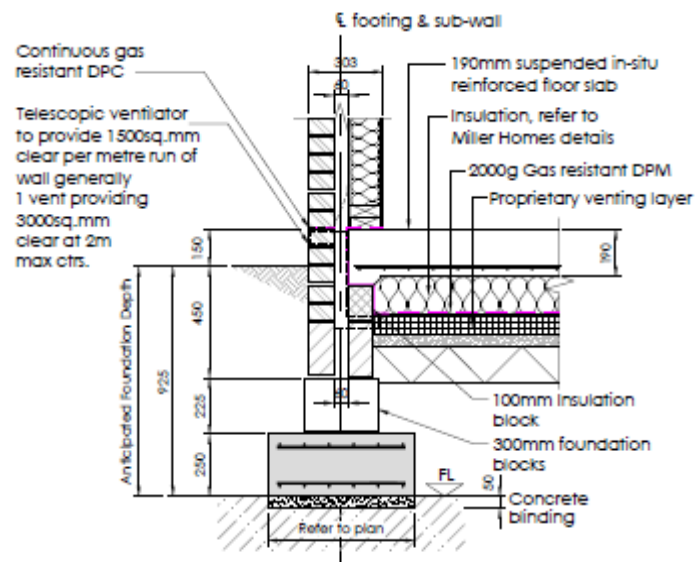
Each unit has a service duct located to the front and outer edge of the property. E3P inspected each one and can confirm that the top-hats have been adequately sealed against the membrane.

Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that **Plots 73-74** have been installed with gas protection measures in accordance with Characteristic Situation 2 to an acceptable level of workmanship.

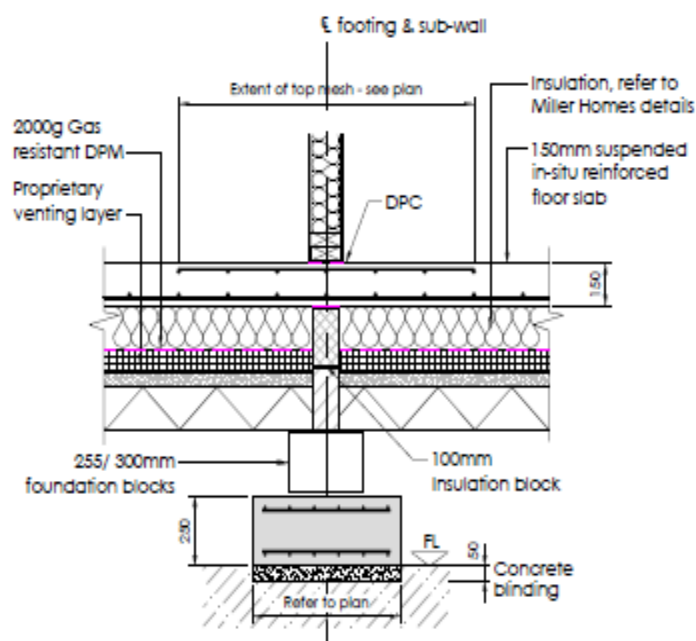


Section 1-1
Scale 1:25





Section 2-2
Scale 1:25



Section 3-3
Scale 1:25



GAS MEMBRANE VALIDATION

Complete

Site Name	Prescot Parcel 4
Location	Prescot Park Way Knowsley England L34 United Kingdom (53.422393622622906, - 2.8095852410439304)
Project Manager	Andrew Garrity
Project number	15292
Developer	Miller Homes
Site representative Signature	Shaun 30 May 2023 11:28 AM BST
Conducted on	26 May 2023 1:27 PM BST
Prepared by	Jordan James



Inspection Gas Membrane

Plot Inspection

Plot Inspection 1

Plot Number 74

Type of Development: Other add note House

Foundation Type: Other add note Suspended Floor

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

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

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

Yes

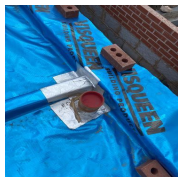


Photo 1



Photo 2



Photo 3



Photo 4

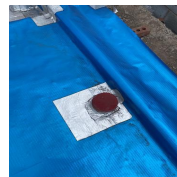


Photo 5

Type of joints/ Lapping Welded

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

Pass

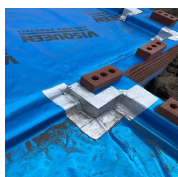


Photo 6



Photo 7



Photo 8



Photo 9



Photo 10



Photo 11





Photo 12

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

Yes



Photo 13



Photo 14

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 15



Photo 16



Plot Inspection 2

Plot Number 73

Type of Development: Other add note House

Foundation Type: Other add note Suspended Floor

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

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

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

Yes



Photo 17



Photo 18



Photo 19



Photo 20



Photo 21



Photo 22

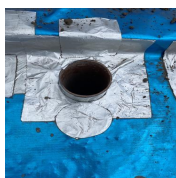


Photo 23



Photo 24

Type of joints/ Lapping Welded

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

Pass



Photo 25



Photo 26



Photo 27



Photo 28



Photo 29



Photo 30





Photo 31

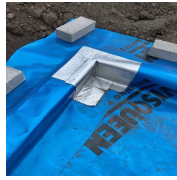


Photo 32



Photo 33



Photo 34



Photo 35

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

Yes



Photo 36



Photo 37



Photo 38

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 39



Photo 40

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



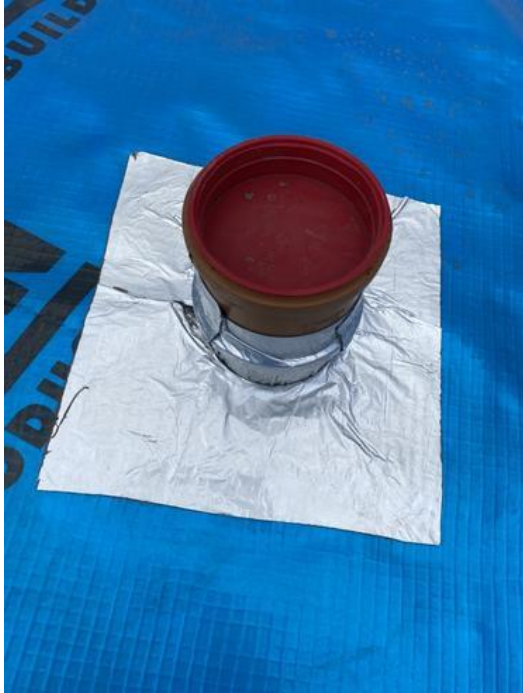


Photo 17



Photo 18

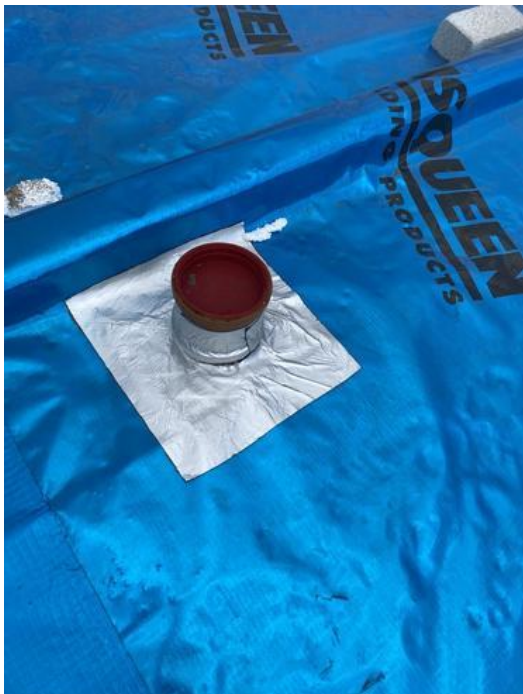


Photo 19



Photo 20





Photo 21



Photo 22



Photo 23

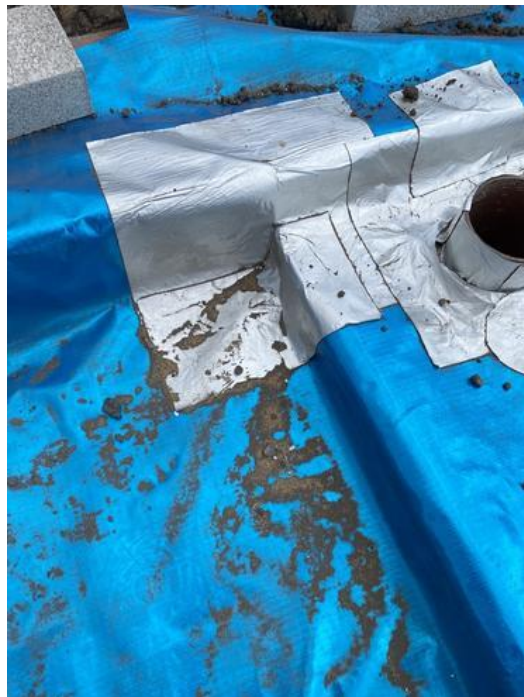


Photo 24





Photo 25



Photo 26



Photo 27



Photo 28





Photo 29



Photo 30



Photo 31



Photo 32





Photo 33



Photo 34



Photo 35



Photo 36





Photo 37



Photo 38



Photo 39



Photo 40



GAS MEMBRANE VALIDATION

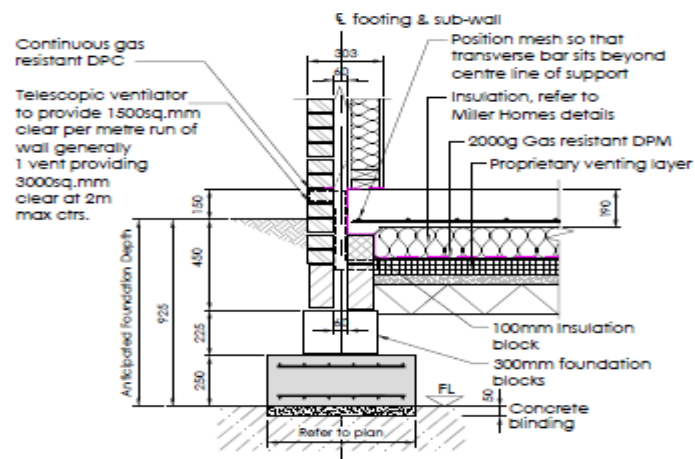
Site Name: Parcel C, Prescott	Project Number: 15-292
Company: Miller Homes	Date: 05-06-2023
Project Manager: R. Walker	E3P Engineer: R. Webster
PM Qualifications: BSc (Hons), FGS, AIEMA, AMICE, MIEEnvSc, CEnv	Engineer Qualifications: Ground Gas Training Feb 2022

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.

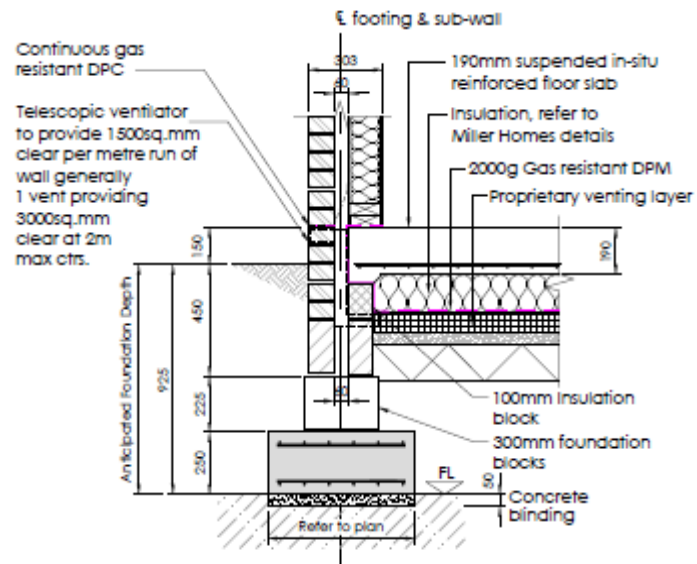
Each unit has a service duct located to the front and outer edge of the property. E3P inspected each one and can confirm that the top-hats have been adequately sealed against the membrane.

Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that **Plots 77-79** have been installed with gas protection measures in accordance with Characteristic Situation 2 to an acceptable level of workmanship.

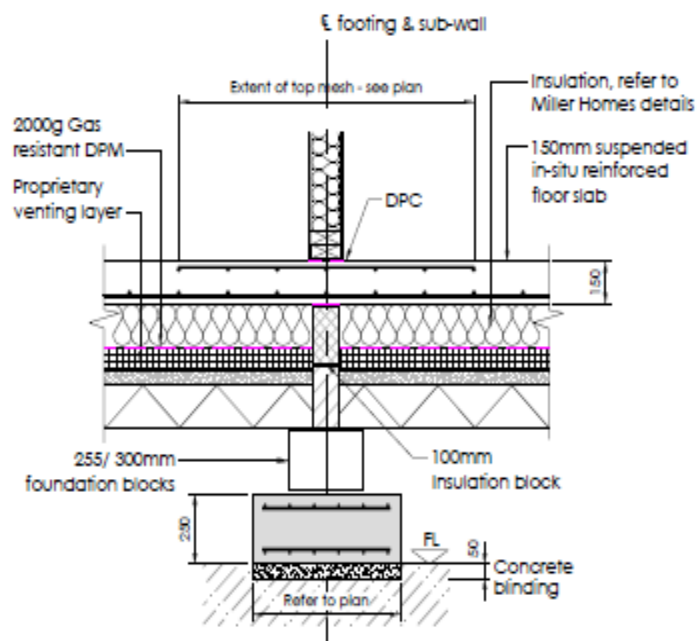


Section 1-1
Scale 1:25





Section 2-2
Scale 1:25



Section 3-3
Scale 1:25



GAS MEMBRANE VALIDATION

Complete

Site Name	Sonnet gate
Location	32 Emelia Dr Prescot England L34 1AX United Kingdom (53.42205697404573, - 2.809799890342916)
Project Manager	R. Walker
Project number	15292
Developer	Miller
Site representative Signature	Shaun 5 Jun 2023 11:33 AM BST
Conducted on	5 Jun 2023 11:20 AM BST
Prepared by	Richard Webster



Inspection Gas Membrane

Plot Inspection

Plot Inspection 1

Plot Number

77

Type of Development: Other add note

House

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

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

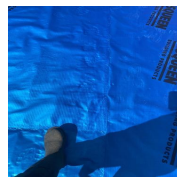


Photo 3

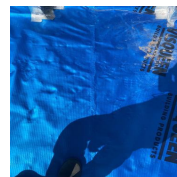


Photo 4



Photo 5



Photo 6

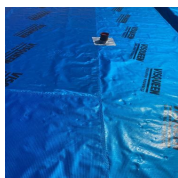


Photo 7

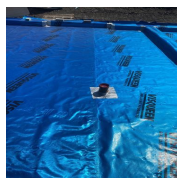


Photo 8

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

Yes



Photo 9

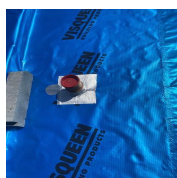


Photo 10

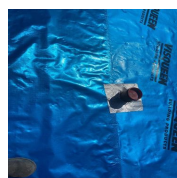


Photo 11

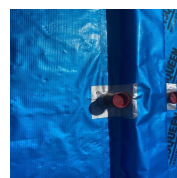


Photo 12



Photo 13



Photo 14



Type of joints/ Lapping

Welded

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

Pass



Photo 15



Photo 16

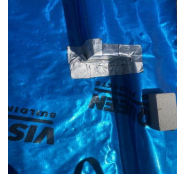


Photo 17



Photo 18



Photo 19

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

Yes

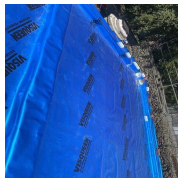


Photo 20

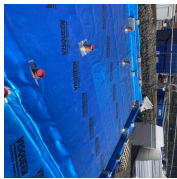


Photo 21

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

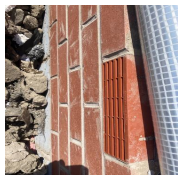


Photo 22

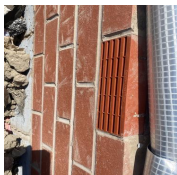


Photo 23



Plot Inspection 2

Plot Number 78

Type of Development: Other add note

House

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

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 24



Photo 25

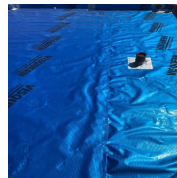


Photo 26

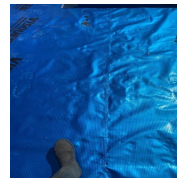


Photo 27



Photo 28

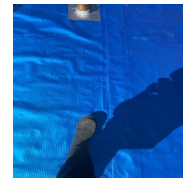


Photo 29

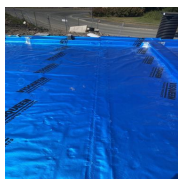


Photo 30

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

Yes



Photo 31



Photo 32

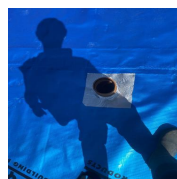


Photo 33

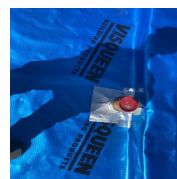


Photo 34

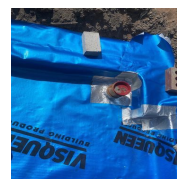


Photo 35

Type of joints/ Lapping

Welded

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

Pass





Photo 36



Photo 37



Photo 38



Photo 39



Photo 40



Photo 41



Photo 42

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

Yes



Photo 43

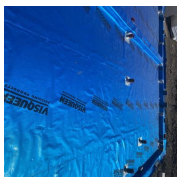


Photo 44

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

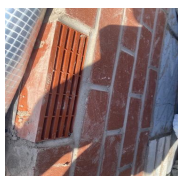


Photo 45

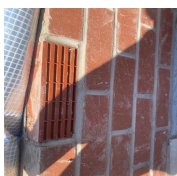


Photo 46



Plot Inspection 3

Plot Number 79

Type of Development: Other add note House

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

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

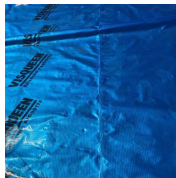


Photo 47

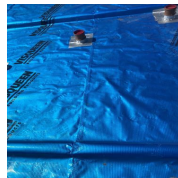


Photo 48



Photo 49

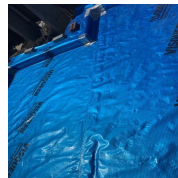


Photo 50



Photo 51



Photo 52

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



Photo 53

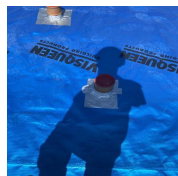


Photo 54

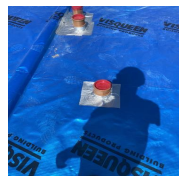


Photo 55

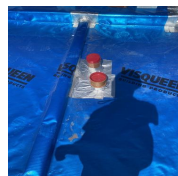


Photo 56



Photo 57

Type of joints/ Lapping Welded

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



Photo 58



Photo 59

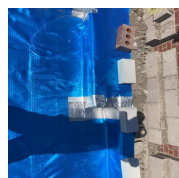


Photo 60



Photo 61



Photo 62



Photo 63





Photo 64



Photo 65



Photo 66

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

Yes

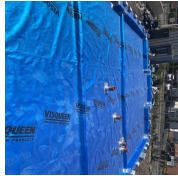


Photo 67

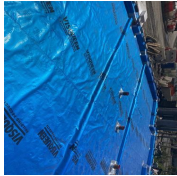


Photo 68

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

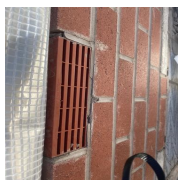


Photo 69



Photo 70

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





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



GAS MEMBRANE VALIDATION

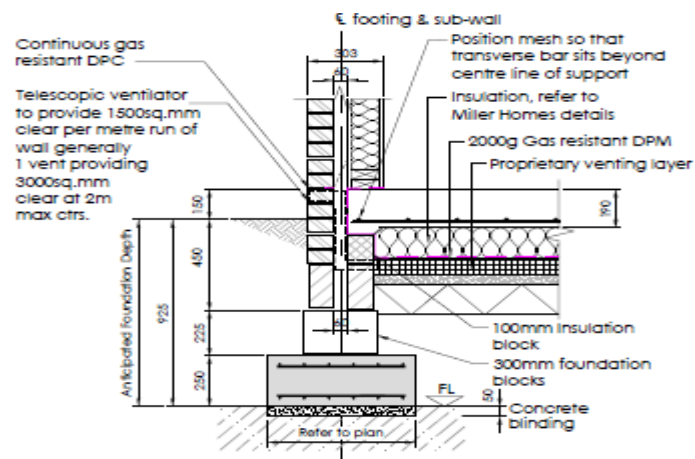
Site Name: Parcel C, Prescott	Project Number: 15-292
Company: Miller Homes	Date: 03-07-2023
Project Manager: R. Walker	E3P Engineer: J. Newall
PM Qualifications: BSc (Hons), FGS, AIEMA, AMICE, MIEEnvSc, CEnv	Engineer Qualifications: Verification of Gas Protection Systems Dec 17

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.

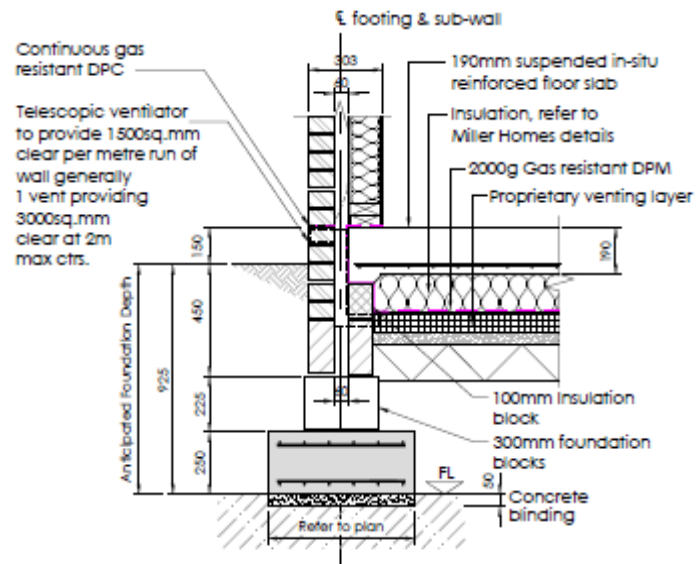
Each unit has a service duct located to the front and outer edge of the property. E3P inspected each one and can confirm that the top-hats have been adequately sealed against the membrane.

Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that **Plots 68-69** have been installed with gas protection measures in accordance with Characteristic Situation 2 to an acceptable level of workmanship.

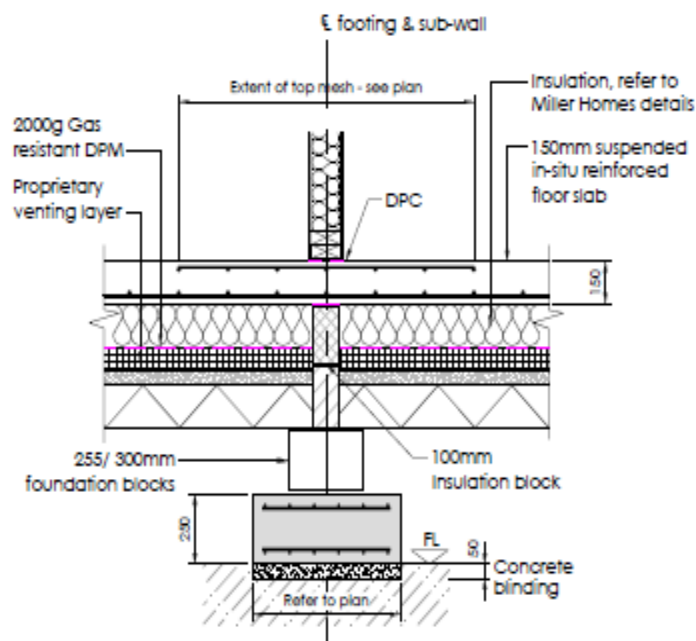


Section 1-1
Scale 1:25





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 (53.42253251937569, - 2.808250291275613)
Project Manager	R.Walker
Project number	15-292
Developer	Miller homes
Site representative Signature	4 Jul 2023 10:15 AM BST
Conducted on	4 Jul 2023 10:10 AM BST
Prepared by	Joe Newall



Inspection Gas Membrane

Plot Inspection

Plot Inspection 1

Plot Number 68

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

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

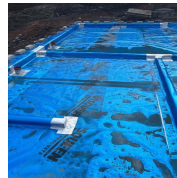


Photo 3



Photo 4



Photo 5

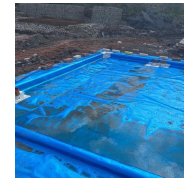


Photo 6

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 7



Photo 8

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

Yes





Photo 9



Photo 10



Photo 11



Photo 12



Photo 13



Photo 14

Type of joints/ Lapping

Welded

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

Pass



Photo 15



Photo 16



Photo 17



Photo 18



Photo 19



Photo 20

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

Yes



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



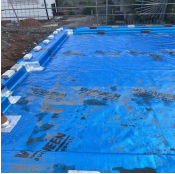
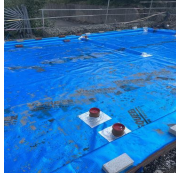
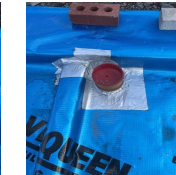
Photo 25



Photo 26



Plot Inspection 2

Plot Number	69
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
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 27 Photo 28 Photo 29	
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 30 Photo 31 Photo 32	
Service entries seals: Top hats seal arrangements fixed around service entries? Use of Jubilee clips?	Yes
     Photo 33 Photo 34 Photo 35 Photo 36 Photo 37	
Type of joints/ Lapping	Welded



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

Pass



Photo 38



Photo 39



Photo 40



Photo 41



Photo 42

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

Yes



Photo 43



Photo 44

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 45



Photo 46



Photo 47



Photo 48

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





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



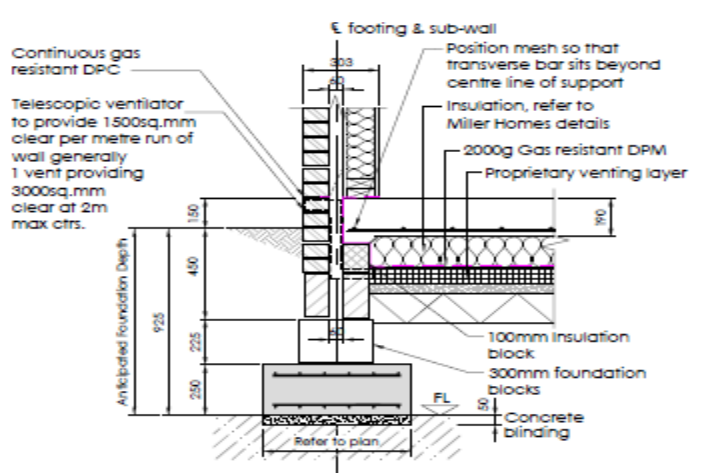
Photo 47



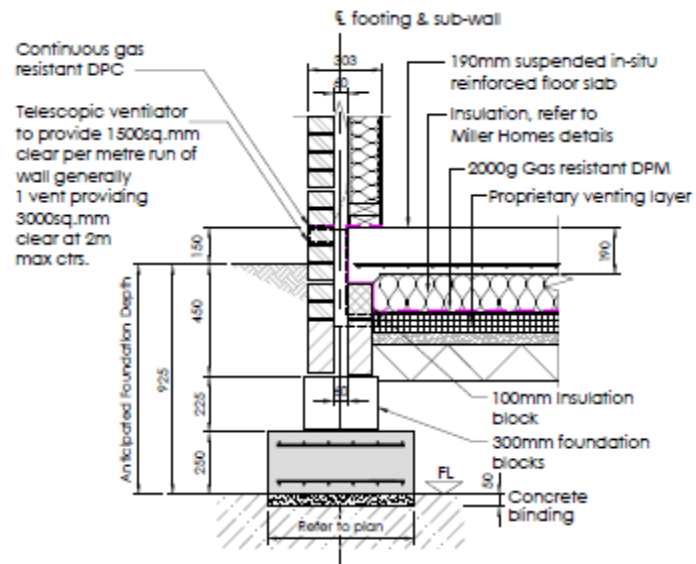
Photo 48



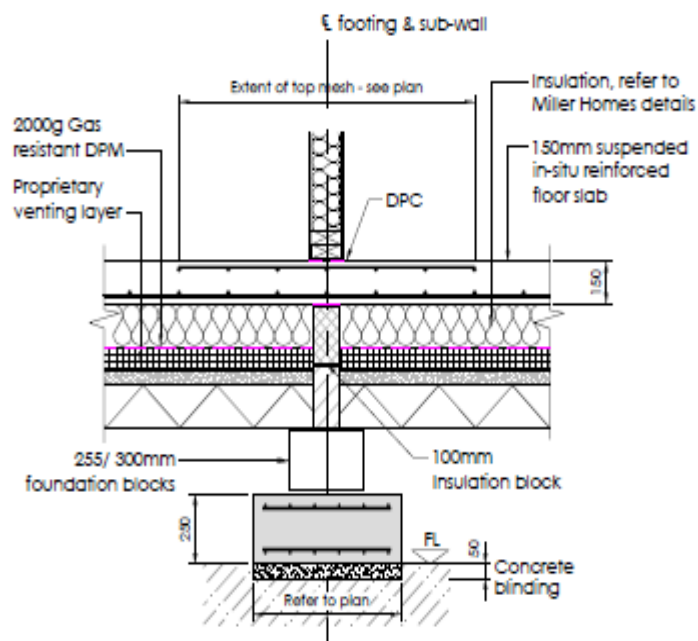
GAS MEMBRANE VALIDATION

Site Name: Parcel C, Prescott	Project Number: 15-292
Project Manager: R. Walker	Date: 15-06-2022
PM Qualifications: BSc (Hons) FGS, AIEMA, ICE, MEnvSc, CEnv	E3P Engineer: J. James
Ground Gas Risk Assessment: Characteristic Situation 2	
Overview: The membrane comprised a JUTA GP1 (Black) and visqueen 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 38-43 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 - 38

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 – 39

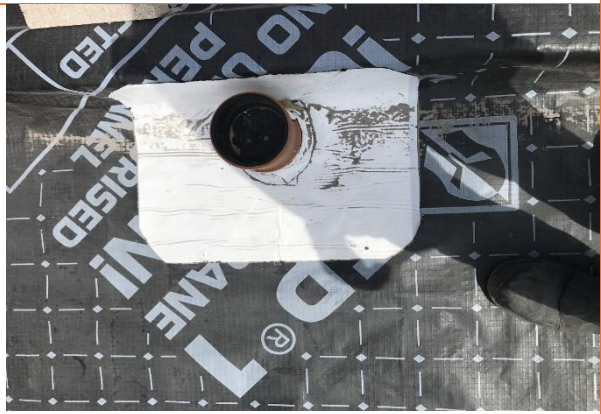
General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Verification of Service Penetrations-Good Condition



Plot - 40

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 - 41

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 - 42

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 - 43

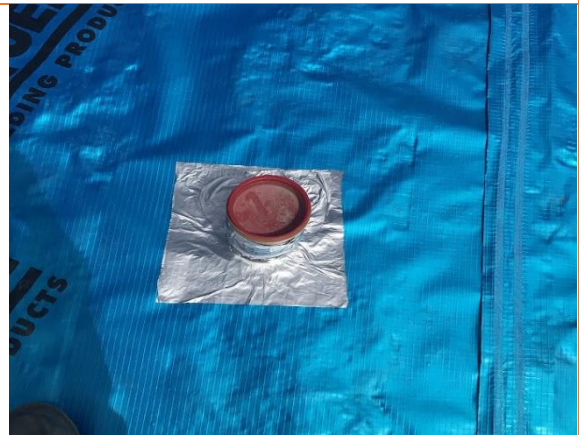
General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Verification of Service Penetrations-Good Condition

