

GAS MEMBRANE VALIDATION

Site: Boothroyden Road, Middleton	
Date Validated: 20-12-2021	Project Number: 13-500
Project Manager: N. Sellars	E3P Engineer: J. Newall
PM Qualifications: MSci (Hons) FGS	Engineer Qualifications: Verification of Gas Protection Systems Dec 17
Ground Gas Risk Assessment: Amber 2	
Overview: The membrane comprised the Visqueen Ultimate HC Blok resistant to radon, carbon dioxide and low levels of methane. E3P can confirm there were no holes or rips at the time of inspection. All external joints were inspected and E3P can confirm that the membrane was welded, with the membrane spanning the floor and cavity. 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 30-36 have been installed with gas protection measures in accordance with Amber 2 to an acceptable level of workmanship.	
	



Plot – 30

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Verification of Ventilation-Good Condition



Plot - 31

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Verification of Ventilation-Good Condition



Plot - 32

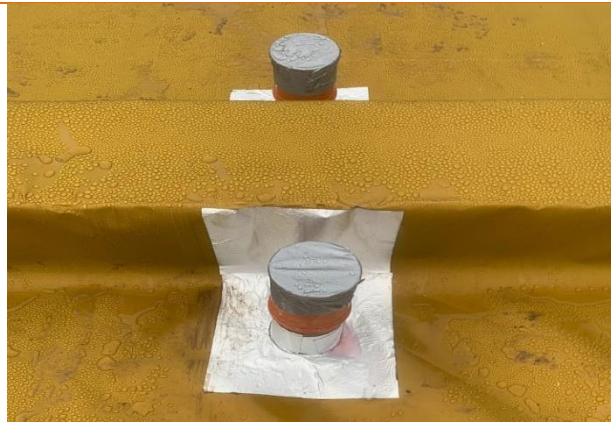
General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition

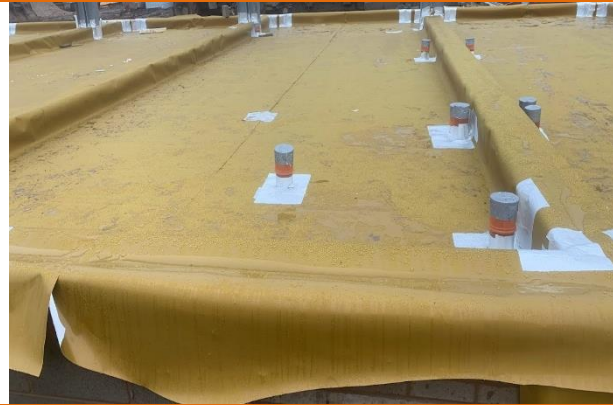


Verification of Ventilation-Good Condition



Plot - 33

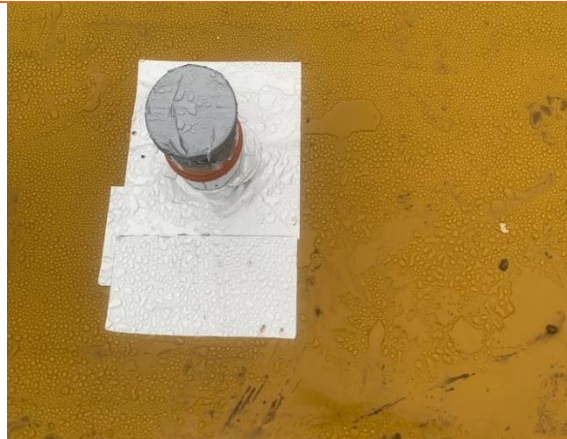
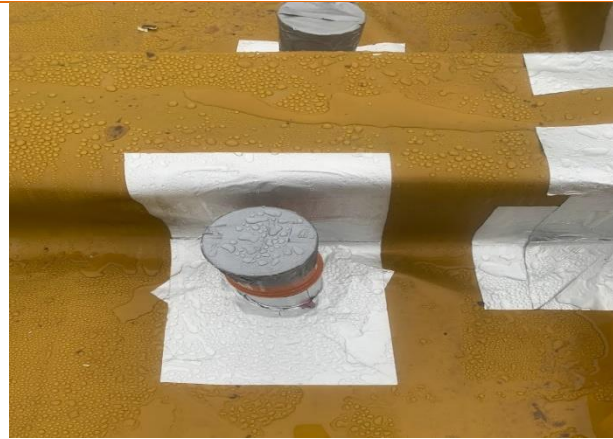
General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Plot - 34

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Plot - 35

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Plot - 36

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Verification of Ventilation-Good Condition





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Gas Protection Validation Site Record

Baish Jordan

Inspection date/time:	20/12/21	Inspected by:	JMCCall	Photographed:	G/x
Type of development:	Residential	Plot number:	20	Developer:	

Notes/recommendations

Comments

Membrane Type	Below membrane
Extent of Coverage	Full
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 works will be noted in the "Remarks" column on this form). An additional inspection visit IS/IS NOT* required for this Plot.

JMCCall

Signed:

[Signature]



Gas Protection Validation Site Record

Brickford

Inspection date/time:	20/12/21	Inspected by:	JMcmall	Photographed:	G/x
Type of development:	Residential	Plot number:	31	Developer:	

Notes/recommendations	Comments
Membrane Type	Yellow membrane
Extent of Coverage	Full
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 works will be noted in the "Remarks" column on this form). An additional inspection visit IS/IS NOT* required for this Plot.

Inspected by: J Mcm

Signed: [Signature]



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Gas Protection Validation Site Record

Booth Jordan

Inspection date/time:	20/12/21	Inspected by:	J Treval	Photographed:	G/x
Type of development:	Residential	Plot number:	32	Developer:	

Notes/recommendations	Comments
Membrane Type	Below membrane
Extent of Coverage	Full
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 works will be noted in the "Remarks" column on this form). An additional inspection visit IS/IS NOT* required for this Plot.

Inspection by: J Treval Signed: [Signature]



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Gas Protection Validation Site Record

Brian Jordan

Inspection date/time:	20/12/21	Inspected by:	JMead	Photographed:	G/x
Type of development:	Residential	Plot number:	23	Developer:	

Notes/recommendations	Comments
Membrane Type	Below membrane
Extent of Coverage	Full
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 works will be noted in the "Remarks" column on this form). An additional inspection visit IS/IS NOT* required for this Plot.

Inspection by: J Mearns Signed: [Signature]



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Gas Protection Validation Site Record

Basil Foyden

Inspection date/time:	20/12/21	Inspected by:	JMccall	Photographed:	Y/x
Type of development:	Resident, dk	Plot number:	34	Developer:	

Notes/recommendations	Comments
Membrane Type	yellow membrane
Extent of Coverage	Full
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 works will be noted in the "Remarks" column on this form). An additional inspection visit IS/IS NOT* required for this Plot.
Inspection by: J Mccall Signed: [Signature]



e3p

Gas Protection Validation Site Record

Booth Poyden

Inspection date/time:	20/12/21	Inspected by:	JMccall	Photographed:	Ex
Type of development:	Residential	Plot number:	35	Developer:	

Notes/recommendations	Comments
Membrane Type	yellow membrane
Extent of Coverage	Full
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 works will be noted in the "Remarks" column on this form). An additional inspection visit IS/IS NOT* required for this Plot.

Inspection by: J McCall Signed: [Signature]



Gas Protection Validation Site Record

Booth Jordan

Inspection date/time:	20/12/21	Inspected by:	JMecall	Photographed:	6/1x
Type of development:	Residential	Plot number:	36	Developer:	

Notes/recommendations	Comments
Membrane Type	Below membrane
Extent of Coverage	Full
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 works will be noted in the "Remarks" column on this form). An additional inspection visit IS/IS NOT* required for this Plot. Inspection by: J McCall Signed: [Signature]