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GAS MEMBRANE VALIDATION

Site Name: Belle Vue Stadium	**Project Number: 12-123**
Company Name: Countryside	**Date: 15-02-2022**
Project Manager: O. Jackson	**E3P Engineer: T. Preston**
PM Qualifications : BSc FGS AMIEnvSc	**Engineer Qualifications: Verification of Gas Protection Systems Dec 2017**
Ground Gas Risk Assessment: **Amber 1**	

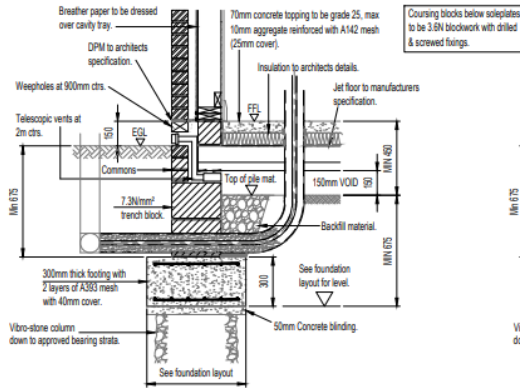
Overview:
The membrane comprised a Visqueen low permeability gas membrane (Yellow) resistant to radon, carbon dioxide and low levels of methane. E3P can confirm there were no holes or rips at the time of inspection. Upon being laid the membrane is to be covered with a Celotex (closed Cell) floor insulation 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. Corners of the plots were sufficiently sealed and taped.

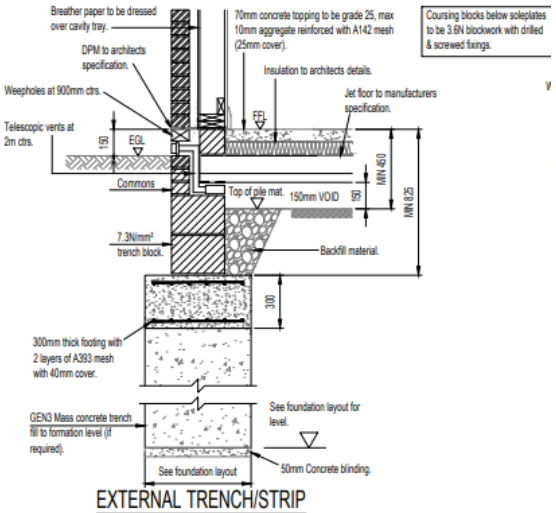
Each unit has a service duct located to the front and outer edge of the property. E3P inspected each one and can confirm that the top-hats have been adequately sealed against the membrane.

Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that **Plots 242-243** have been installed with gas protection measures in accordance with Amber 1 to an acceptable level of workmanship.

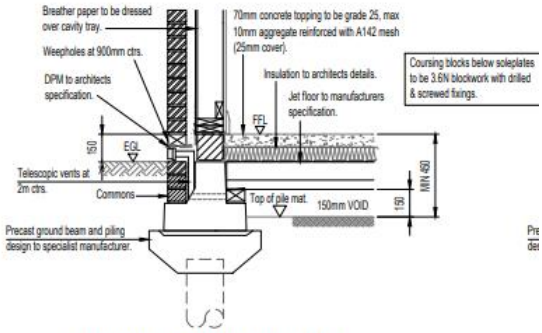
VISQUEEN LOW PERMEABILITY GAS MEMBRANE



EXTERNAL FOOTING VIBRO DETAIL
(PERPENDICULAR FLOOR)
(SCALE 1:20)



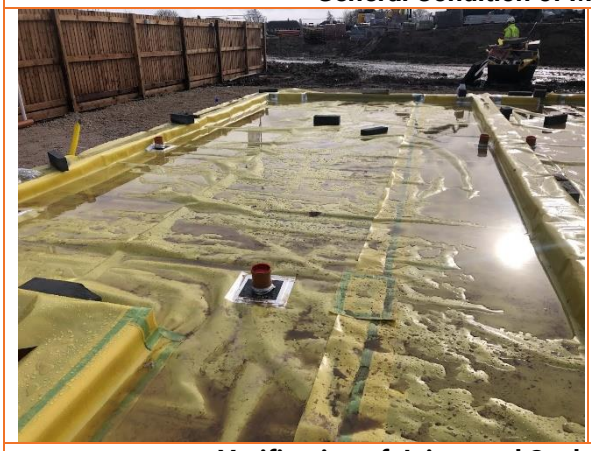
EXTERNAL TRENCH/STRIP
FOOTING DETAIL
(SCALE 1:20)



EXTERNAL FOOTING PILE DETAIL
(PERPENDICULAR FLOOR)
(SCALE 1:20)

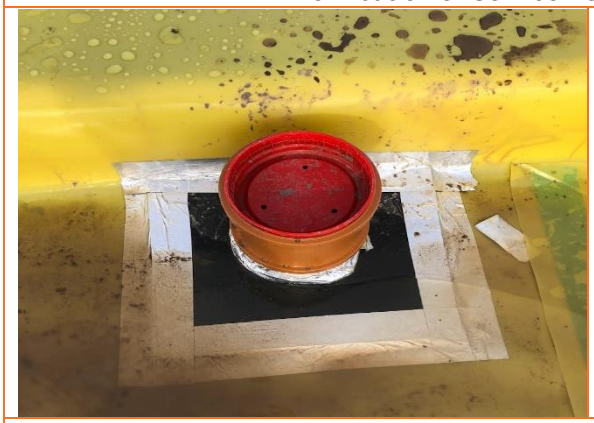
Plot - 242

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Overlapped and sealed correctly

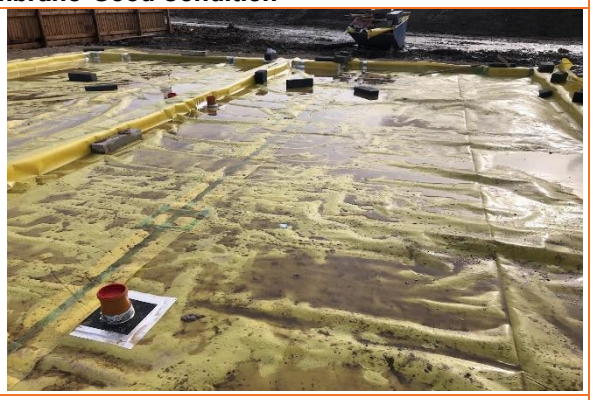
Verification of Service Penetrations-Good Condition



Verification of Ventilation-Good Condition

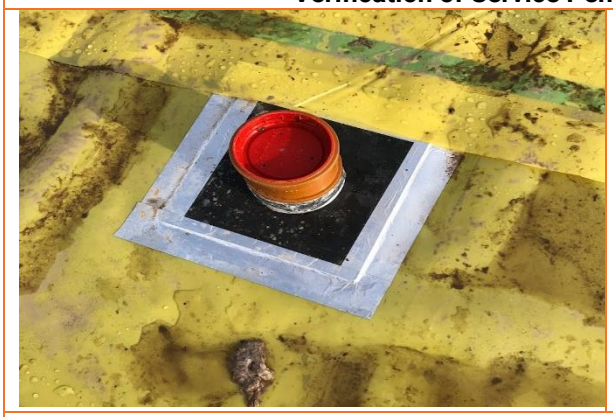
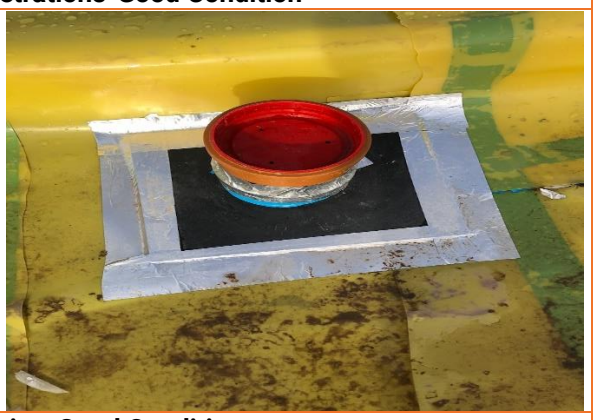
Plot - 243

General Condition of Membrane-Good Condition



Verification of Joints and Seals- Overlapped and sealed incorrectly

Verification of Service Penetrations-Good Condition

Verification of Ventilation-Good Condition

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Gas Protection Validation Site Record

Inspection date/time:	15/2/22	**Inspected by:**	Tom Preston	**Photographed:**	✓/x ✓
Type of development:	Residential	**Plot number:**	[illegible]	**Developer:**	[illegible]

Notes/recommendations	Comments
Membrane Type	Yellow Visqueen
Extent of Coverage	Full Plot
Underside of Membrane	✓
Slab / membrane condition (is membrane clear of debris or insulation)	✓
Type of joints	☑ Tape Joint ☑ Welded Joint ☐ Other (please state)
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?	✓

This Plot has **PASSED/FAILED*** inspection. (Any proposed r[illegible] the "Remarks" column on this form). An additional inspection visit IS/IS NOT* required for this Plot.

Inspection by: Tom Preston Signed: [redacted]

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Gas Protection Validation Site Record

Inspection date/time:	15/2/22	Inspected by:	Tom Preston	Photographed:	✓/x ✓
Type of development:	Residential	Plot number:	243	Developer:	

Notes/recommendations	Comments
Membrane Type	Yellow Visqueen
Extent of Coverage	Full Plot
Underside of Membrane	✓
Slab / membrane condition (is membrane clear of debris or insulation)	✓
Type of joints	☑ Tape Joint ☑ Welded Joint ☐ Other (please state)
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?	✓

This Plot has PASSED/FAILED* inspection. (Any proposed re[redacted]he "Remarks" column on this form). An additional inspection visit IS/IS NOT* required for this Plot.

Inspection by: Tom Preston ..... Signed: [redacted] .....