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GAS MEMBRANE VALIDATION

Site Name: Belle Vue Stadium	**Project Number: 12-123**
Company Name: Countryside	**Date: 31-05-2022**
Project Manager: O. Jackson	**E3P Engineer: R. Webster**
PM Qualifications : BSc FGS AMIEnvSc	**Engineer Qualifications: Verification of Gas Protection Systems Dec 2017**
Ground Gas Risk Assessment: **Amber 1**	

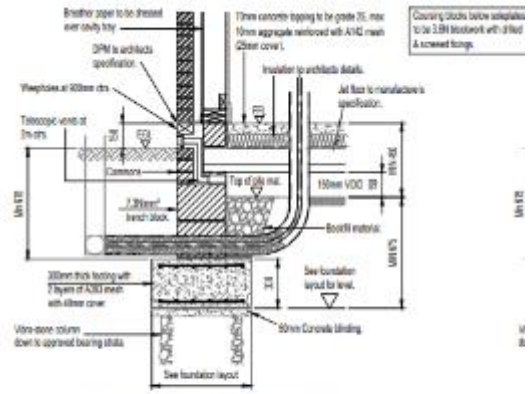
Overview:
The membrane comprised a Visqueen low permeability gas membrane (Yellow) resistant to radon, carbon dioxide and low levels of methane. E3P can confirm there were no holes or rips at the time of inspection. Upon being laid the membrane is to be covered with a Celotex (closed Cell) floor insulation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

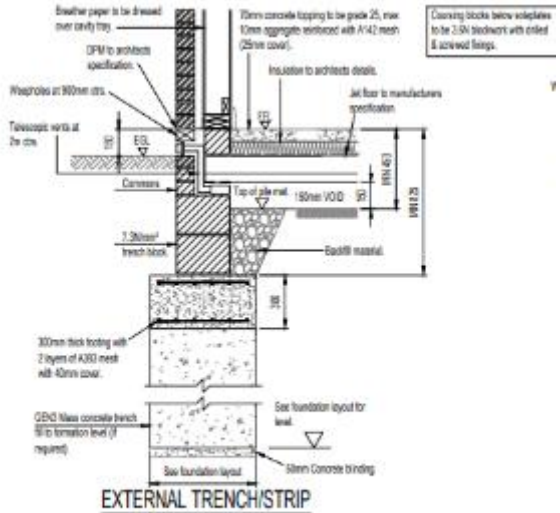
Each unit has a service duct located to the front and outer edge of the property. E3P inspected each one and can confirm that the top-hats have been adequately sealed against the membrane.

Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that **Plot 100-101** have been installed with gas protection measures in accordance with Amber 1 to an acceptable level of workmanship.

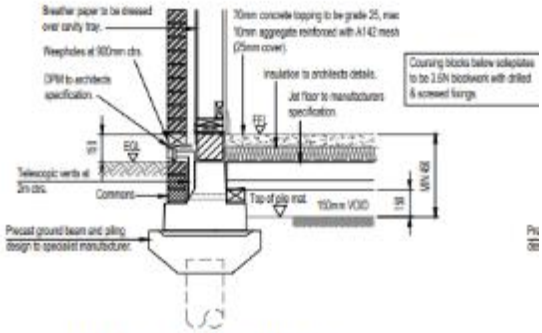
Membrane Specification: Visqueen Gas Membrane (Yellow)



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



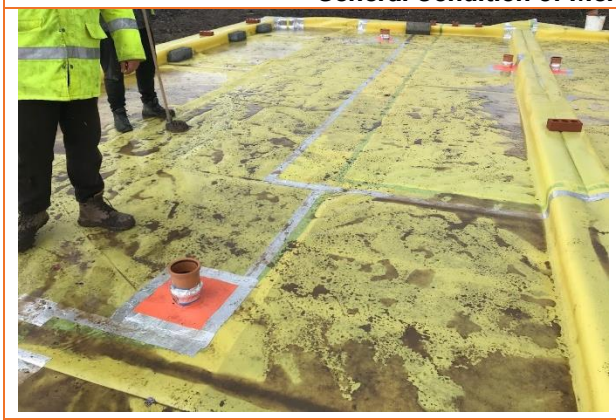
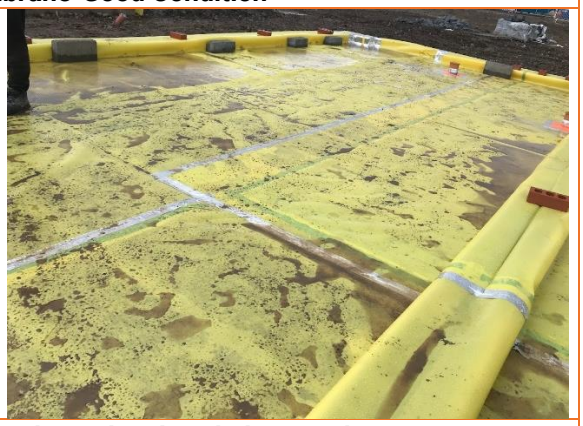
EXTERNAL TRENCH/STRIP
FOOTING DETAIL
(SCALE 1:20)



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

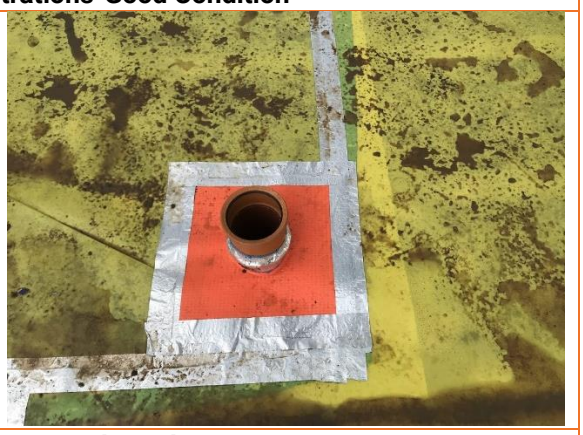
Plot - 100

General Condition of Membrane-Good Condition

Verification of Joints and Seals-Overlapped and sealed correctly

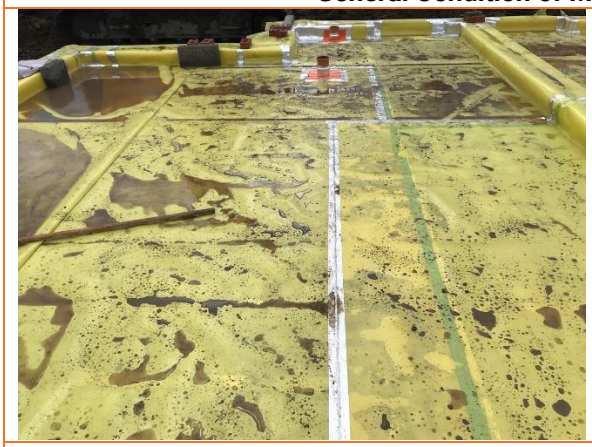
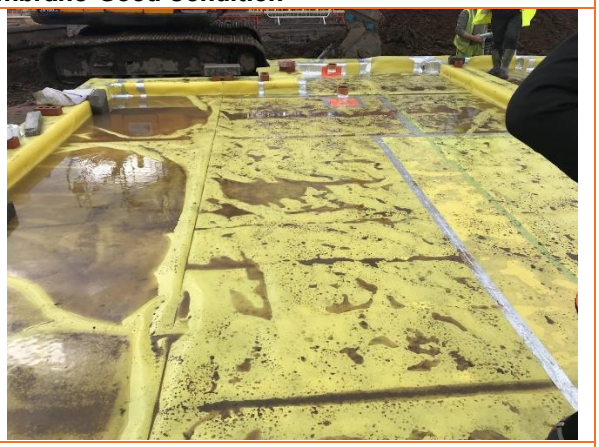
Verification of Service Penetrations-Good Condition



Verification of Ventilation-Good Condition

Plot - 101

General Condition of Membrane-Good Condition

Verification of Joints and Seals-Overlapped and sealed correctly

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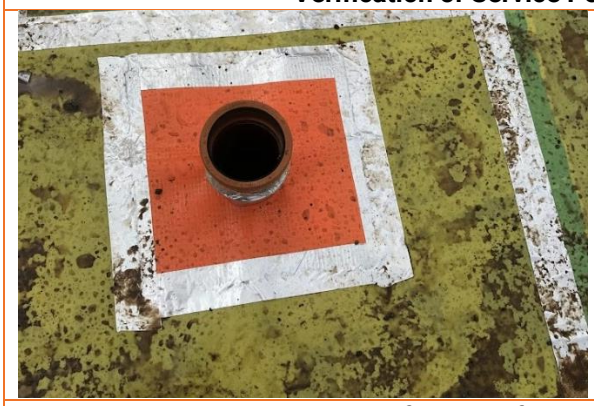

Verification of Ventilation-Good Condition

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Gas Protection Validation Site Record

Inspection date/time:	31st May	Inspected by:	R. Webster	Photographed:	✓/x ✓
Type of development:	Belle vue	Plot number:	100	Developer:	

Notes/recommendations	Comments
Membrane Type	visqueen yellow
Extent of Coverage	fully extends
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?	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: R Webster .....Signed [redacted].....

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Gas Protection Validation Site Record

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