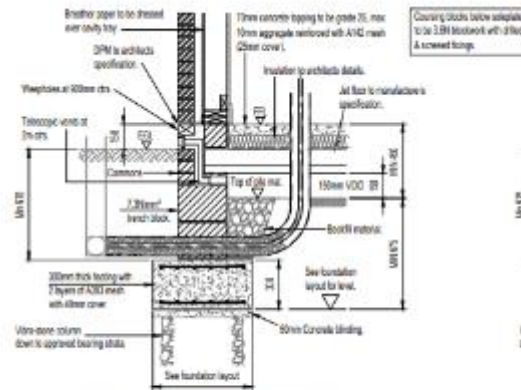


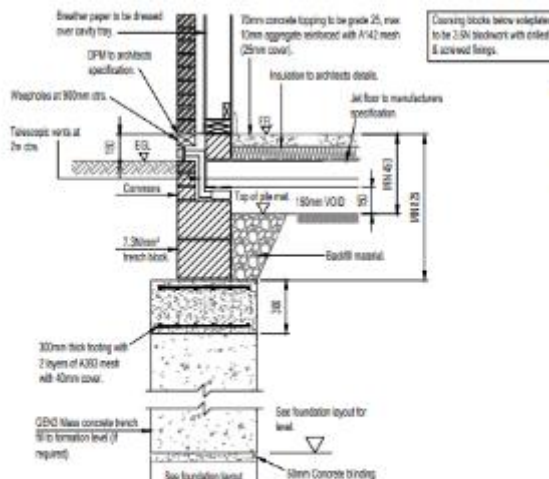
GAS MEMBRANE VALIDATION

Site Name: Belle Vue Stadium	Project Number: 12-123
Company Name: Countryside	Date: 24-01-2022
Project Manager: O. Jackson	E3P Engineer: J. James
PM Qualifications: BSc FGS AMIEnvSc	Engineer Qualifications: Verification of Gas Protection Systems Dec 2017
Ground Gas Risk Assessment: Amber 1	
<p>Overview:</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that Plots 246-247 have been installed with gas protection measures in accordance with Amber 1 to an acceptable level of workmanship.</p>	
Membrane Specification: Visqueen Gas Membrane (Yellow)	
	

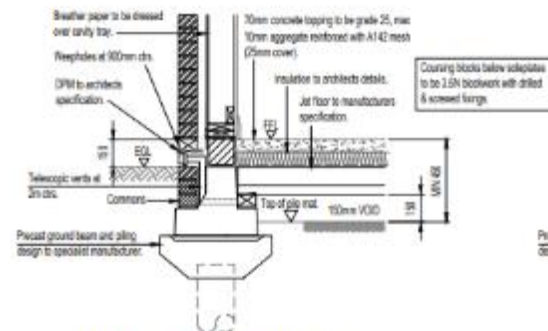




EXTERNAL FOOTING VIBRO DETAIL
(PERPENDICULAR FLOOR)
 (SCALE 1:20)



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



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



Plot - 246

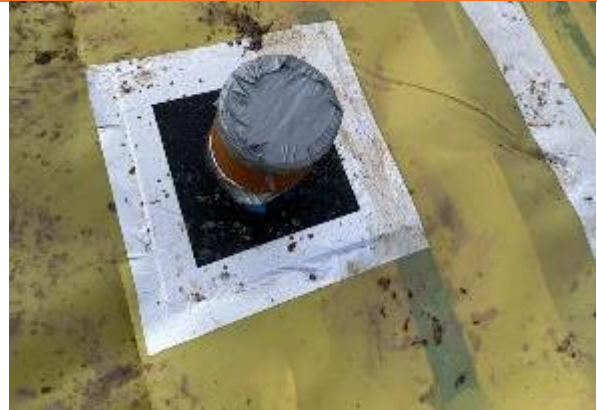
General Condition of Membrane-Good Condition



Verification of Joints and Seals-Overlapped and sealed correctly



Verification of Service Penetrations-Good Condition



Verification of Ventilation-Good Condition



Plot - 247

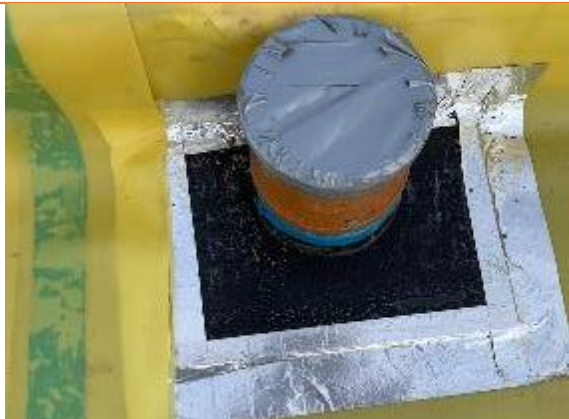
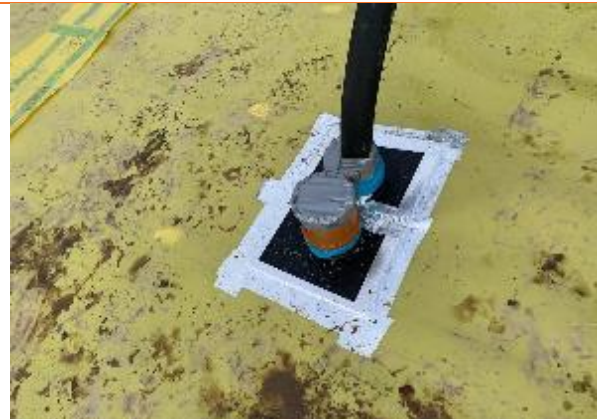
General Condition of Membrane-Good Condition



Verification of Joints and Seals- Overlapped and sealed correctly



Verification of Service Penetrations-Good Condition



Verification of Ventilation-Good Condition





Gas Protection Validation Site Record

Inspection date/time:	22/2/22	Inspected by:	SSAMES	Photographed:	✓
Type of development:	Houses	Plot number:	246	Developer:	Counterside

Notes/recommendations	Comments
Membrane Type	Yellow Virgin
Extent of Coverage	✓
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 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. S. S. Signed: [Redacted]



Gas Protection Validation Site Record

Inspection date/time:	22/2/22	Inspected by:	J JAMES	Photographed:	✓
Type of development:	Housing	Plot number:	247	Developer:	CountrySide

Notes/recommendations	Comments
Membrane Type	Yellow Virgin
Extent of Coverage	Full ✓
Underside of Membrane	✓
Lab / 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?	✓
Holes in membrane inspected?	✓
Has the membrane been installed as per the design detail drawing?	✓

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 JAMES Signed: [Redacted]