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GAS MEMBRANE VALIDATION

Site Name: Belle Vue	Project Number: 12-123
Company Name: Countryside Properties	Date: 22-09-2022
Project Manager: S. Ellis	E3P Engineer: J. James
PM Qualifications: BSc (Hons), FGS, Cenv	Engineer Qualifications: GGS Gas Training Feb 22
Ground Gas Risk Assessment: Characteristic Situation 2 / 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. All the overlaps were then additionally taped using foil backed girth 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>E3P can confirm plots have been constructed with a sub-floor void, with example photographs of plots 192-193 & 170 included within this certificate.</p> <p>Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that Plots 194-195 have been installed with gas protection measures in accordance with Characteristic Situation 2 / Amber 1 to an acceptable level of workmanship.</p>	
Membrane Specification: Visqueen Gas Membrane (Yellow)	



Plot - 194

General Condition of Membrane-Good Condition



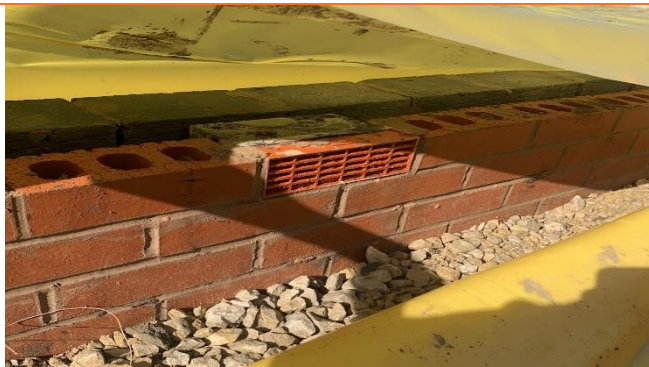
Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition

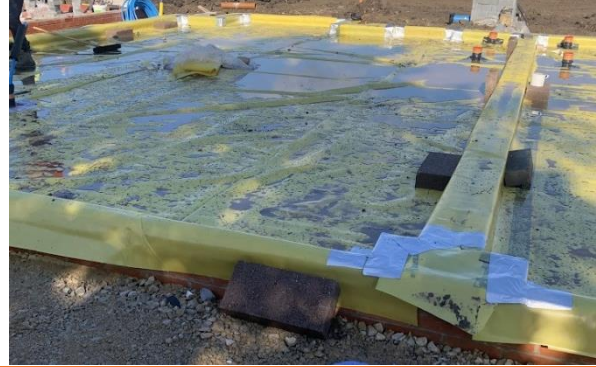


Verification of Ventilation-Good Condition



Plot - 195

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Verification of Ventilation-Good Condition



Picture of Sub Floor Voids

Plot - 192



Plot - 193



Plot - 170





Gas Protection Validation Site Record

Inspection date/time:	23/9/22	Inspected by:	J. JAMES	Photographed:	✓
Type of development:	Housing	Plot number:	194	Developer:	Countryside

Notes/recommendations

Comments

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

Inspected by: J. James Signed: [Redacted]

Inspection date/time:	23/9/22	Inspected by:	J JAMES	Photographed:	✓
Type of development:	Housing	Plot number:	195	Developer:	Countryside

Notes/recommendations	Comments
Membrane Type	Full Vapour
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 re-inspection must 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: [Signature]