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GAS MEMBRANE VALIDATION

Site: Bowes Street

Date: 07-01-2021

Project Number: 11-813

Project Manager: R. Horseman

E3P Engineer: M. Whittaker

Ground Gas Risk Assessment: **Characteristic Situation 2 / Amber 1**

Overview:

The membrane comprised Visqueen GX DPC wrapped under slab and spanned across internal and external walls which was taped to VOC block with GX jointing tape.

E3P can confirm there were no punctures or tears at the time of inspection. Upon being laid the membrane was 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 GX DPM. The membrane was taped to the gas resistant VOC Block DPM using a double-sided jointing tape. All the overlaps were then additionally taped using foil backed girth 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 Plots 7-8 have been installed with gas protection measures in accordance with Characteristic Situation 2 to an acceptable level of workmanship.

Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that **Plots 14-16** have been installed with gas protection measures in accordance with Characteristic Situation 2 / Amber 1 to an acceptable level of workmanship.

Membrane Specification: Hydrocarbon Resistant Membrane (VOC Blok and Visqueen GX)



Plot – 14

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 – 15

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 – 16

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Verification of Ventilation- Good Condition





Gas Protection Validation Site Record

Inspection date/time:	7.1.21	Inspected by:	M. Haffar	Photographed:	✓/x ✓
Type of development:	Residential	Plot number:	14.15.16	Developer:	Rowlinson.
Notes/recommendations	Comments				
Membrane Type	Gold Voc Hydrocarbon Blak.				
Extent of Coverage	Full internal coverage.				
Underside of Membrane	Blak + Beam.				
Slab / membrane condition (is membrane clear of debris or insulation)	Good Slab condition..				
Type of joints	☒ Tape Joint ☐ Welded Joint ☐ Other (please state)				
Service entries – Jubilee clips, Top hats installed correctly	Service entries fitted with Self Adhesive Tape.				
External Wall Air bricks Present?	Yes..				
Corners inspected?	Corners attached to DPM. Re installed.				
Membrane joints inspected has Double-sided butyl tape been used?	Blak butyl tape 11mm Tanning Membranes.				
Folds in membrane inspected?	No visible folds.				
Has the membrane been installed as per the design detail drawing?	YES				

This Plot has **PASSED** inspection. (Any proposed remedial works will be noted in the "Remarks" column on this form). An additional inspection visit NOT required for this Plot.

Inspection by: M. Haffar Signed:

