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GAS MEMBRANE VALIDATION

Site: Boothroyden Road, Middleton	
Date: 22-08-2022	Project Number: 13-500
Project Manager: N. Sellars	E3P Engineer: J. Newall
PM Qualifications: MSci (Hons), FGS	Engineer Qualifications: Verification of Gas Protection Systems Dec 17
Ground Gas Risk Assessment: Amber 2	
Overview: The membrane comprised a Visqueen Ultimate HC Blok resistant to radon, carbon dioxide and low levels of methane. E3P can confirm there were no holes or rips at the time of inspection. All external joints were inspected and E3P can confirm that the membrane was welded, with the membrane spanning the floor and cavity. 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 14-15 have been installed with gas protection measures in accordance with Amber 2 to an acceptable level of workmanship.	



Plot – 14

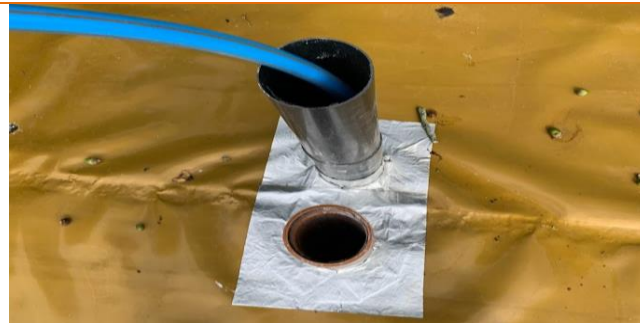
General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Verification of Ventilation-Good Condition



Plot - 15

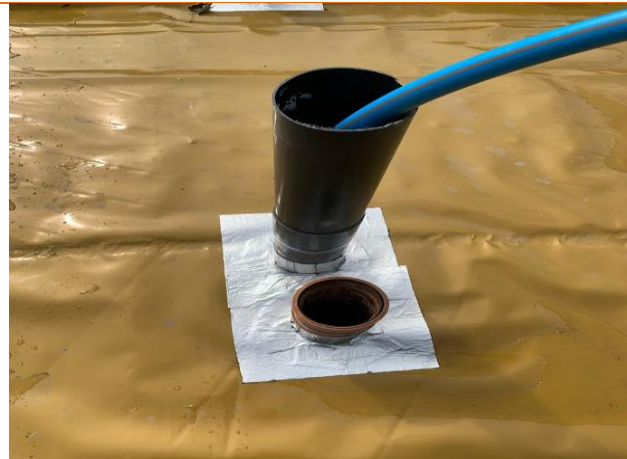
General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Verification of Ventilation-Good Condition





Gas Protection Validation Site Record

Bathoryn

Inspection date/time:	22/10/8	Inspected by:	J Newall	Photographed:	Q1x
Type of development:		Plot number:	14	Developer:	

Notes/recommendations	Comments
Membrane Type	gelsa membrane
Extent of Coverage	full
Underside of Membrane	clear
Slab / membrane condition (is membrane clear of debris or insulation)	yes
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/MAILED 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. J Newall Signed: *[Signature]*

Inspection by:



Gas Protection Validation Site Record

Boothby Rogers

Inspection date/time:	22/10/08	Inspected by:	J Newall	Photographed:	01x
Type of development:		Plot number:	15	Developer:	

Notes/recommendations	Comments
Membrane Type	good membrane
Extent of Coverage	full
Underside of Membrane	clear
Slab / membrane condition (is membrane clear of debris or insulation)	yes
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. J Newall

Inspection by: Signed: [Signature]