

GAS MEMBRANE VALIDATION

Site: Bowes Street	
Date: 02-12-2019	Project Number: 11-813
Project Manager: R. Horseman	E3P Engineer: T. Preston
PM Qualifications: BSC(Hons) FGS Cenv	Engineer Qualifications: Verification of Gas Protection Systems July 18
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 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 47 50-54 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)	





CE **CPD** **msPlus**

- Suitable for use on hydrocarbon contaminated sites
- Tested against harmful gases, chemicals and hydrocarbons
- High puncture & tear resistance
- Independently tested against harmful gases, chemicals and hydrocarbons
- Proven track record on gas and hydrocarbon contaminated sites

Description
Visqueen GX DPC is a blend of ethylene co-polymers suitable for use on brownfield sites that require protection from dangerous contaminants such as hydrocarbons and methane, together with excellent damp proofing properties. GX DPC is available in 30m lengths and in two widths, 600mm or 850mm.

Application
Visqueen GX DPC has a proven track record as a barrier membrane on gas contaminated and hydrocarbon contaminated brownfield sites. Visqueen GX DPC combines high strength with flexibility.

Testing for Chemical Resistance (EN 14414 and EN 14415)
The membrane has been tested against various harmful gases and dangerous contaminants such as hydrocarbons. In addition to this, GX DPC has been subjected to accelerated life immersion tests. EN 14414 and EN 14415 - Chemical resistance to

Technical Product Datasheet
Edition: 10/07/2018
Identification no. VEP008



VISQUEEN ULTIMATE VOC BLOK
The ultimate membrane protection against VOCs and Methane

- Market leading membrane with no protection required
- Conforms in full to CEN EN 12468 and EN 12469-2015
- Excellent VOC & methane barrier resistance
- Utilises Visqueen's unique advanced barrier technology
- Flexible even at low temperatures - limits stress cracking

Plot - 47

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



Plot - 50

General Condition of Membrane-Good Condition

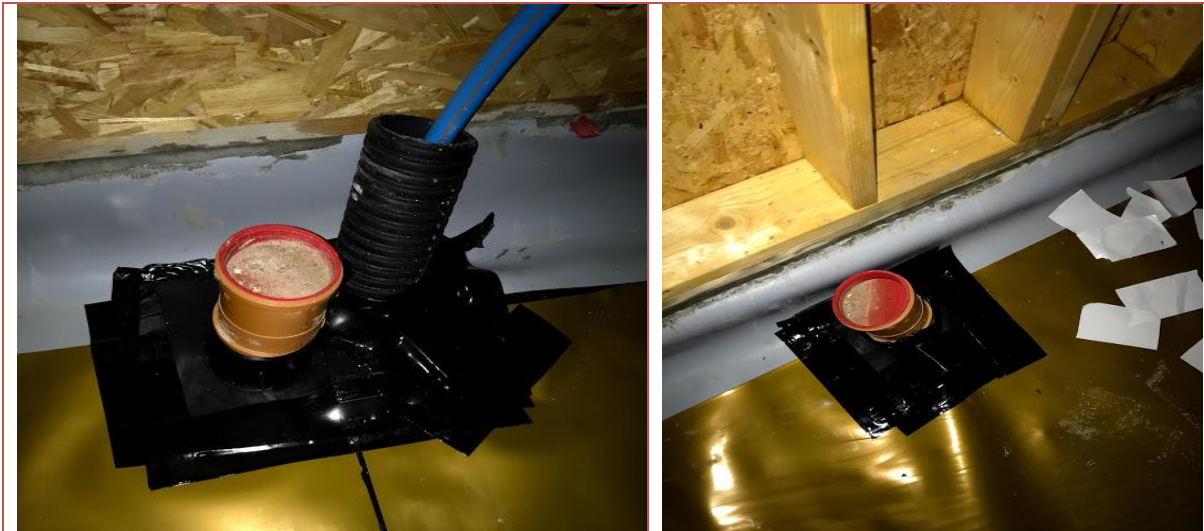


Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition





Plot - 51

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition





Plot - 52

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



Verification of Service Penetrations-Good Condition



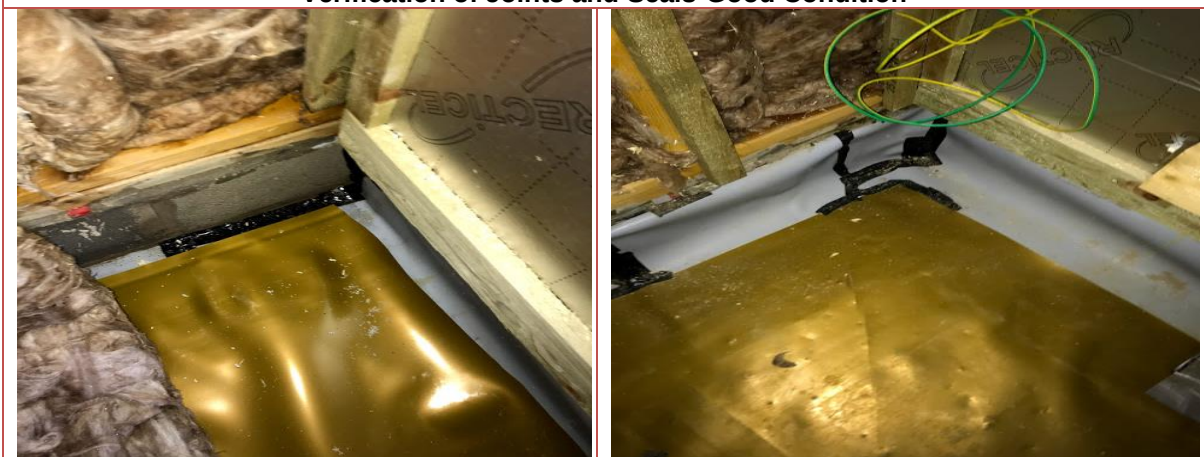


Plot - 53

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition



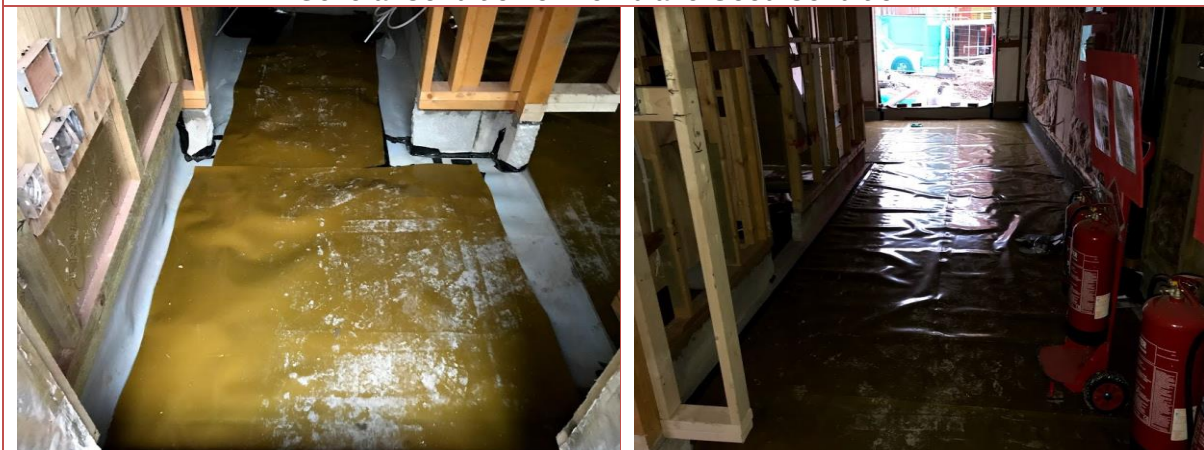
Verification of Service Penetrations-Good Condition





Plot - 54

General Condition of Membrane-Good Condition



Verification of Joints and Seals-Good Condition





Verification of Service Penetrations-Good Condition

