E3P
Taylor Road
Trafford Park
Urmston
Manchester
M41 7JQ

info@E3P.co.uk
www.E3P.co.uk

GAS MEMBRANE VALIDATION

Site Name: Belle Vue	**Project Number:** 12-123
Company Name: Countryside Properties	**Date**: 23-11-2022
Project Manager: S. Ellis	**E3P Engineer:** R. Webster
PM Qualifications: BSc (Hons), FGS, Cenv	**Engineer Qualifications**: Ground Gas Training Dec 2018
Ground Gas Risk Assessment: **Amber 1**	

Overview:

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.

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 **Plot 173** has been installed with gas protection measures in accordance with Amber 1 to an acceptable level of workmanship.

GAS MEMBRANE VALIDATION

Complete

Score	**100%**
Site Name	Belle Vue
Location	178 Kirkmanshulme Lane, Longsight Manchester England M18 United Kingdom (53.461005048046715, -2.184787694193363)
Project Manager	G. Calvert
Project number	12123
Developer	Countryside
Site representative Signature	Lewis 23 Nov 2022 2:19 PM GMT
Conducted on	23 Nov 2022 2:10 PM GMT
Prepared by	Richard Webster

Inspection Gas Membrane - 100%

100%

Plot Inspection - 100%

100%

Plot Inspection 1 - 100%

100%

Plot Number	173
Type of Development: Other add note	House
Gas Characteristic Situation	CS2
Foundation Type: Other add note	Other

Beam and block

Gas Membrane Type: Manufacturer, gauge, and colour.	Visqueen yellow
Gas Membrane Condition: Open punctures, tears, rips, stretching, Presence of debris, Repairs, Signs of weakness such as raised or sunken indentations, Protection plan in place to restrict access to lain gas membrane? IF FAIL DESCRIPTION IN ACTIONS AND PHOTOS REQUIRED	Pass
Laps, welds, and joints seals: Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice? Are welds complete? Appropriate joining/double-sided tape used, Folds running in line with joints? (no joints cutting across folds)	Pass

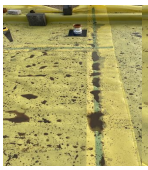

Photo 1 Photo 2

Service entries seals: Top hats seal arrangements fixed around service entries? Use of Jubilee clips?	Yes

Photo 3 Photo 4 Photo 5

Type of joints/ Lapping	Taped

Corners / Internal joints: Check all corners are correctly formed or contractor has used performed corners.

Pass

Photo 6

Photo 7

Photo 8

Photo 9

Photo 10

Photo 11

Photo 12

Photo 13

Photo 14

Photo 15

Extent of Coverage: Is the membrane covering the entire plot? Does membrane span over outside walls?

Yes

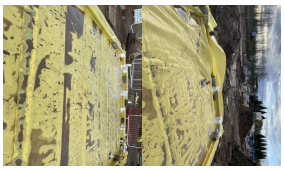
Photo 16 Photo 17

Condition of sub-grade and underside of gas membrane: Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria.

Pass

Slab / membrane condition (is membrane clear of debris or insulation): Can membrane be fully seen and photographed – ask contractor to remove an debris so membrane can be fully seen an inspected – this is a requirement of NHBC and local authorities.

Pass

External Wall Air bricks: Numbers, size. positions as design drawing? (Minimum of 3 walls)

Pass

Photo 18 Photo 19 Photo 20

Passive Venting

Sub-floor Void: Is a check possible on future plots (insert Plot number or NO in text box)	No

Appendix

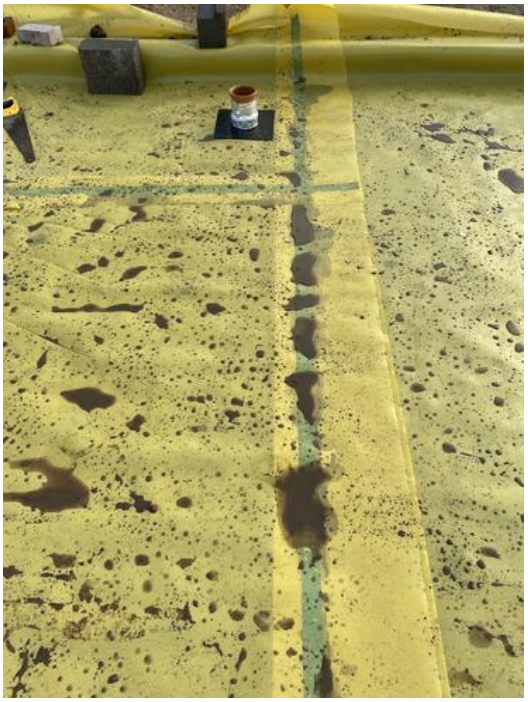

Photo 1

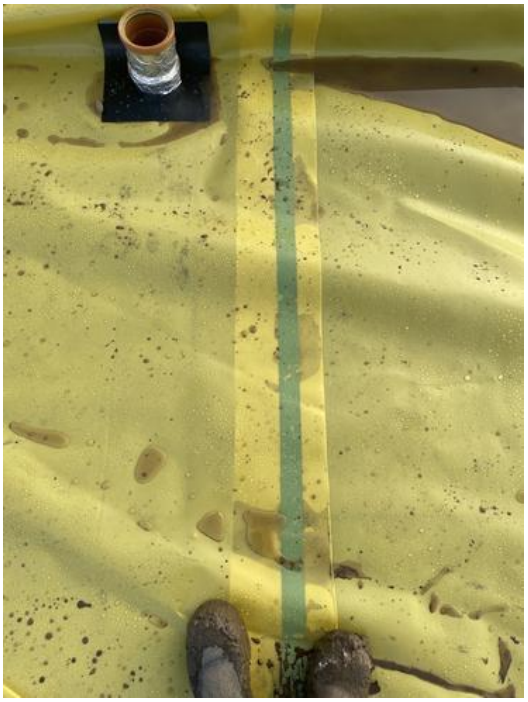

Photo 2

Photo 3

Photo 4

Photo 5

Photo 6

Photo 7

Photo 8

Photo 9

Photo 10

Photo 11

Photo 12

Photo 13

Photo 14

Photo 15

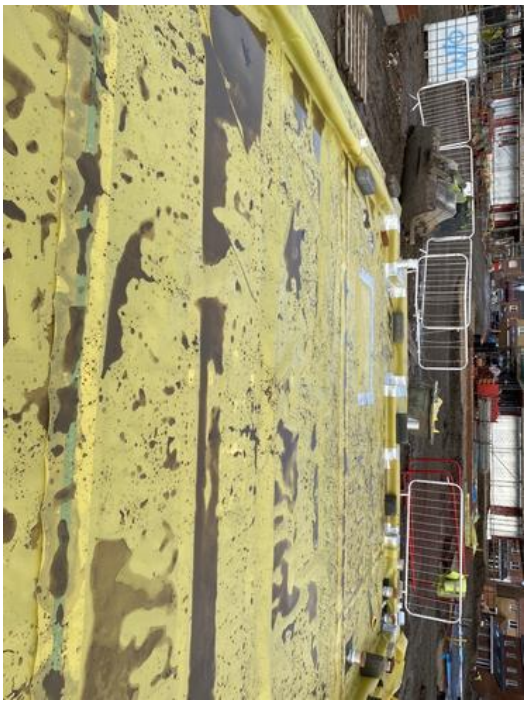

Photo 16

Photo 17

Photo 18

Photo 19

Photo 20