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GAS MEMBRANE VALIDATION

Site Name: Belle Vue	Project Number: 12-123
Company Name: Countryside Properties	Date: 15-12-2022
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: <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>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>Based on the information provided within this report, the site inspections and validation checklists, E3P can confirm that Plots 176-177 have been installed with gas protection measures in accordance with Amber 1 to an acceptable level of workmanship.</p>	



GAS MEMBRANE VALIDATION

Complete

Site Name	Belle Vue
Location	178 Kirkmanshulme Lane, Longsight Manchester England M18 United Kingdom (53.46122365535849, - 2.184927001299246)
Project Manager	S. Ellis
Project number	12123
Developer	Countryside
Site representative Signature	Paul 15 Dec 2022 3:35 PM GMT
Conducted on	15 Dec 2022 3:28 PM GMT
Prepared by	Richard Webster



Inspection Gas Membrane

Plot Inspection

Plot Inspection 1

Plot Number 177

Type of Development: Other add note

House

Foundation Type: Other add note

Suspended Floor

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

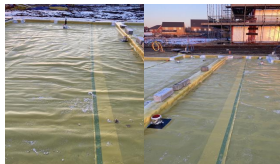


Photo 1

Photo 2

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

Yes



Photo 3

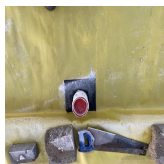


Photo 4



Photo 5



Photo 6

Type of joints/ Lapping

Taped

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

Pass





Photo 7



Photo 8



Photo 9



Photo 10



Photo 11



Photo 12



Photo 13

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

Yes

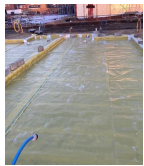


Photo 14

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 15

Photo 16



Plot Inspection 2

Plot Number 176

Type of Development: Other add note

House

Foundation Type: Other add note

Suspended Floor

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 17 Photo 18

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

Yes

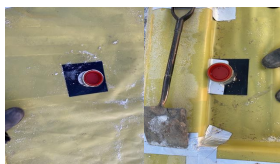


Photo 19 Photo 20

Type of joints/ Lapping

Taped

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

Pass



Photo 21



Photo 22



Photo 23



Photo 24



Photo 25



Photo 26





Photo 27

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

Yes



Photo 28

Photo 29

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 30

Photo 31

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





Photo 21



Photo 22



Photo 23



Photo 24





Photo 25



Photo 26



Photo 27



Photo 28





Photo 29



Photo 30



Photo 31

