



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: 24-10-2022
Project Manager: S. Ellis	E3P Engineer: J. James
PM Qualifications: BSc (Hons), FGS, Cenv	Engineer Qualifications: Verification of Gas Protection Systems July 18
Ground Gas Risk Assessment: Amber 1	
<p>Overview:</p> <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>All external joints were inspected and E3P can confirm that the membrane was overlapped and double taped to external and internal gas resistant DPM. The membrane was taped to the gas resistant DPM using a double-sided jointing tape. All the overlaps were then additionally taped using foil backed girth tape.</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 184-185 have been installed with gas protection measures in accordance with Amber 1 to an acceptable level of workmanship.</p>	



GAS MEMBRANE VALIDATION

Complete

Score	100%
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Site Name	Belle Vue
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Location	Belle Vue Greyhound Stadium, Kirkmanshulme Lane Manchester England M18 7BD United Kingdom (53.46116981751981, - 2.183850617763708)
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Project Manager	Nicola Sellars
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Project number	12123
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Developer	Countryside
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Site representative Signature



24 Oct 2022 8:46 AM BST

Conducted on	24 Oct 2022 8:33 AM BST
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Prepared by	Jordan james
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Inspection Gas Membrane - 100% 100%

Plot Inspection - 100% 100%

Plot Inspection 1 - 100% 100%

Plot Number 184

Type of Development: Other add note House

Gas Characteristic Situation Amber 1

Foundation Type: Other add note Suspended Floor

Gas Membrane Type: Manufacturer, gauge, and colour. Yellow Visqueen

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

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

Detailing strip instead of jubilee clips



Photo 1

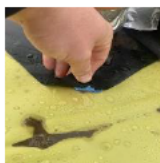


Photo 2



Photo 3



Photo 4

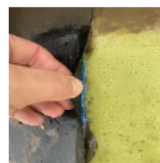


Photo 5



Photo 6

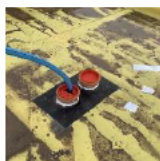


Photo 7

Type of joints/ Lapping Taped



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



Photo 8



Photo 9



Photo 10



Photo 11



Photo 12



Photo 13



Photo 14

Pass

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



Photo 15



Photo 16



Photo 17



Photo 18



Photo 19

Yes

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

Plot Inspection 2 - 100%

100%

Plot Number

185

Type of Development: Other add note

House

Gas Characteristic Situation

Amber 1

Foundation Type: Other add note

Suspended Floor



Gas Membrane Type: Manufacturer, gauge, and colour.

Yellow Visqueen

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 20

Photo 21

Photo 22

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

Yes



Photo 23



Photo 24



Photo 25



Photo 26

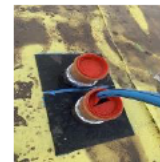


Photo 27

Type of joints/ Lapping

Taped

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

Pass



Photo 28



Photo 29



Photo 30



Photo 31



Photo 32



Photo 33

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

Yes





Photo 34



Photo 35



Photo 36



Photo 37

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

Passive Venting

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

Yes

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

Pass



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

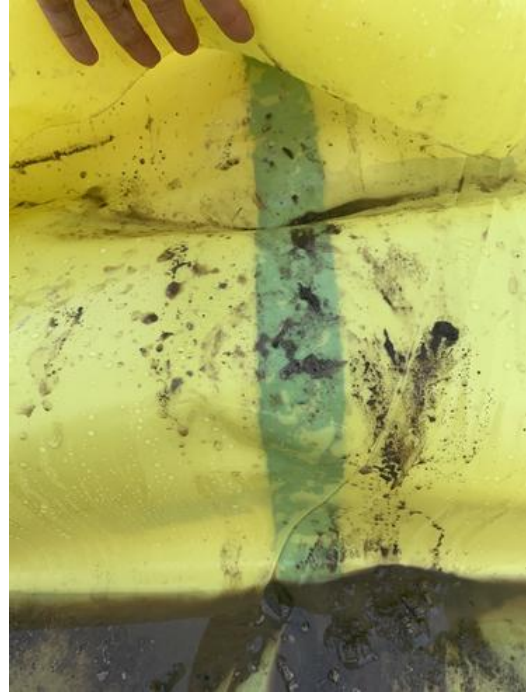


Photo 22



Photo 23



Photo 24





Photo 25



Photo 26



Photo 27



Photo 28





Photo 29



Photo 30



Photo 31



Photo 32





Photo 33



Photo 34



Photo 35



Photo 36





Photo 37



Floor Void Inspection

24 Oct 2022 / Jordan james

Complete

Score	100%	Flagged items	0	Actions	0
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Site Name Belle Vue

Project Number 12123

Conducted on 24 Oct 2022 8:51 AM BST

Prepared by Jordan james

Location 279 Stanley Grove
Manchester
England
M18 7DP
United Kingdom
(53.46090676443219, -
2.183965434345914)

Plot Inspection - 100% 100%

Plot Number 187

Is the void clear? Yes

Depth of Void 500mm



Photo 1

Photo 2



Appendix



Photo 1



Photo 2



Floor Void Inspection

24 Oct 2022 / Jordan james

Complete

Score	100%	Flagged items	0	Actions	0
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Site Name Belle vue

Project Number 186

Conducted on 24 Oct 2022 8:49 AM BST

Prepared by Jordan james

Location Belle Vue Greyhound
Stadium, Kirkmanshulme
Lane
Manchester
England
M18 7BD
United Kingdom
(53.46114184461656, -
2.1836986050398455)

Plot Inspection - 100% 100%

Plot Number 12123

Is the void clear? Yes

Depth of Void 500mm



Photo 1

Photo 2



Appendix



Photo 1



Photo 2

