

### GAS MEMBRANE VALIDATION – BELLE VUE

**Project Name:** Belle Vue Stadium

**Project Number:** 12-123

**Client:** Countryside Properties

**Date:** 21-06-2023

**Project Manager:** S. Ellis – FGS, CEnv

**E3P Engineer:** P. Lavelle

**Gas Membrane Installers** Chandos Civils

**Ground Gas Risk Assessment:** Amber 1 / Vapour Proof

**Plots:** 232-233

### OVERVIEW

The membrane comprised a Visqueen HC BLOK (Gold) resistant to radon, carbon dioxide, vapours and low methane levels. E3P can confirm there were no holes or rips at the inspection time. 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.

E3P inspected all external joints, and E3P can confirm that the membrane was overlapped and double-taped. The membrane was taped using double-sided jointing tape. All the overlaps were then additionally taped using foil-backed girth tape.

Each unit has a service duct located at 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 232-233 have been installed with gas protection measures to an acceptable level of workmanship.

**A list of plots requiring validation and their associated validation letters is presented in Table 1.**



Geo-Environmental



Acoustics



Remediation and  
Enabling Earthworks  
Design



Arboriculture



Compliance  
& Due Diligence



Ecology



Industrial Permitting



Geotechnical

## MEMBRANE SPECIFICATION: VISQUEEN HC BLOK (GOLD)

### Technical Datasheet - Product Overview



Technical support: +44 (0) 333 202 6800

Date Published: 05/06/2023

### Visqueen Ultimate HC BLOK

#### Features and benefits

- Agreement certified - third party accreditation
- Complies with CIRIA C748:2014 - Industry standard for volatile organic compounds (VOC) protection
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019 - Industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - lap joints can be taped or heat welded

#### Product description

Visqueen Ultimate HC Blok is a 0.5mm thick, chemically resistant co-extruded volatile organic compound barrier and gas barrier. It is coloured gold on the upper surface and white on the reverse. The product is supplied in single wound rolls (not folded), 2.44m x 41m.

#### Approvals and standards

- Third party accreditation (BDA certificate BAF-18-051-P-A-UK)
- Complies with CIRIA C748:2014
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2012
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

#### Usage

Visqueen Ultimate HC Blok is suitable for use in all types of buildings to prevent the ingress of harmful levels of volatile organic compounds (VOCs). The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used in all types of buildings to prevent the ingress of harmful levels of ground gases e.g. methane, carbon dioxide and radon. The barrier also acts as a damp proof membrane. In this application, the barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The product is not intended for use where there is a risk of hydrostatic pressure.

#### System components

- Visqueen Ultimate Double Sided Jointing Tape, 100mm x 15m
- Visqueen GR Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m

#### Find your local stockist





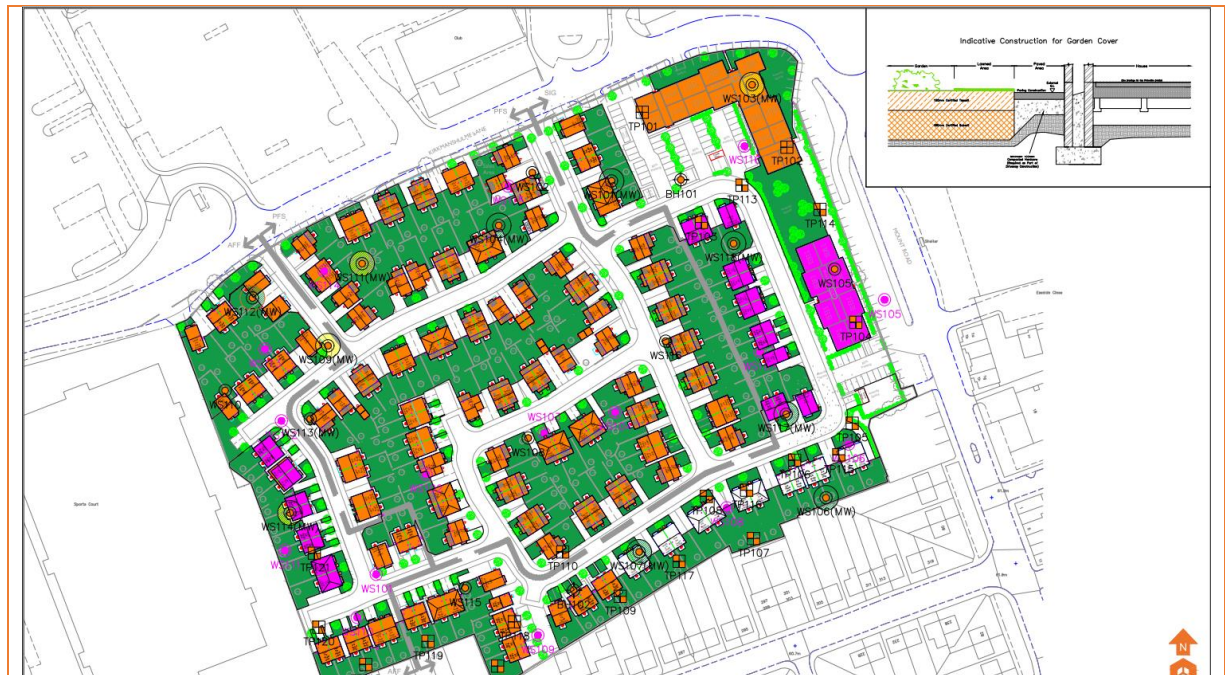
NEW VISQUEEN CLASS B FR VAPOUR CHECK

- Visqueen Class B FR Vapour Check is a fire resistant AVCL (air and vapour control layer)
- Surpasses all national Building Regulations and Standards for air and vapour control layers
- Fire classification B - s1, d0
- Competitive, efficient and fully tested system (including tapes) for fire resistance

NEW ANOTHER FIRE PROTECTION PRODUCT FROM VISQUEEN

To discover the Visqueen difference visit [www.visqueen.com](http://www.visqueen.com) or call us on +44 (0) 333 202 6800





The gas membrane validation photographs are enclosed within this letter. For information, Table 1 includes references and validation dates of previously validated plots.

TABLE 1 – VALIDATION LETTER REFERENCE

| PLOT NUMBER | DATE                        | REPORT NUMBER |
|-------------|-----------------------------|---------------|
| 1           | 3 <sup>rd</sup> March 2022  | V4            |
| 2           | 3 <sup>rd</sup> March 2022  | V4            |
| 3           | 3 <sup>rd</sup> March 2022  | V4            |
| 4           | 29 <sup>th</sup> March 2022 | V5            |
| 5           | 29 <sup>th</sup> March 2022 | V5            |
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| 86 | 27 <sup>th</sup> May 2022 | V9 |
| 87 | 27 <sup>th</sup> May 2022 | V9 |
| 88 | 27 <sup>th</sup> May 2022 | V9 |
| 89 | 25 <sup>th</sup> May 2022 | V8 |

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| <b>90</b>  | 25 <sup>th</sup> May 2022  | V8  |
| <b>91</b>  | 25 <sup>th</sup> May 2022  | V8  |
| <b>92</b>  | 8 <sup>th</sup> June 2022  | V12 |
| <b>93</b>  | 8 <sup>th</sup> June 2022  | V12 |
| <b>94</b>  | 28 <sup>th</sup> June 2022 | V15 |
| <b>95</b>  | 28 <sup>th</sup> June 2022 | V15 |
| <b>96</b>  |                            |     |
| <b>97</b>  |                            |     |
| <b>98</b>  |                            |     |
| <b>99</b>  | 30 <sup>th</sup> May 2022  | V10 |
| <b>100</b> | 31 <sup>st</sup> May 2022  | V11 |
| <b>101</b> | 31 <sup>st</sup> May 2022  | V11 |
| <b>102</b> | 15 <sup>th</sup> June 2022 | V13 |
| <b>103</b> | 15 <sup>th</sup> June 2022 | V13 |
| <b>104</b> | 22 <sup>nd</sup> June 2022 | V14 |
| <b>105</b> | 22 <sup>nd</sup> June 2022 | V14 |
| <b>106</b> |                            |     |
| <b>107</b> |                            |     |
| <b>108</b> | 4 <sup>th</sup> July 2022  | V15 |
| <b>109</b> | 4 <sup>th</sup> July 2022  | V15 |
| <b>110</b> | 19 <sup>th</sup> July 2022 | V18 |
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| <b>125</b> | 8 <sup>th</sup> September 2022  | V23 |
| <b>126</b> | 8 <sup>th</sup> September 2022  | V23 |
| <b>127</b> | 8 <sup>th</sup> September 2022  | V23 |
| <b>128</b> | 8 <sup>th</sup> September 2022  | V23 |
| <b>129</b> | 8 <sup>th</sup> September 2022  | V23 |
| <b>130</b> | 23 <sup>rd</sup> August 2022    | V20 |
| <b>131</b> | 23 <sup>rd</sup> August 2022    | V20 |
| <b>132</b> | 23 <sup>rd</sup> August 2022    | V20 |
| <b>133</b> | 23 <sup>rd</sup> August 2022    | V20 |
| <b>134</b> | 5 <sup>th</sup> September 2022  | V21 |
| <b>135</b> | 15 <sup>th</sup> September 2022 | V25 |

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| <b>136</b> | 23 <sup>rd</sup> August 2022 | V20 |
| <b>137</b> | 23 <sup>rd</sup> August 2022 | V20 |
| <b>138</b> | 23 <sup>rd</sup> August 2022 | V20 |
| <b>139</b> | 23 <sup>rd</sup> August 2022 | V20 |
| <b>140</b> | 4 <sup>th</sup> August 2022  | V19 |
| <b>141</b> | 15 <sup>th</sup> July 2022   | V17 |
| <b>142</b> | 15 <sup>th</sup> July 2022   | V17 |
| <b>143</b> | 11 <sup>th</sup> July 2022   | V16 |
| <b>144</b> | 11 <sup>th</sup> July 2022   | V16 |
| <b>145</b> | 11 <sup>th</sup> July 2022   | V16 |
| <b>146</b> | 9 <sup>th</sup> May 2022     | V6  |
| <b>147</b> | 9 <sup>th</sup> May 2022     | V6  |
| <b>148</b> | 9 <sup>th</sup> May 2022     | V6  |
| <b>149</b> | 9 <sup>th</sup> May 2022     | V6  |
| <b>150</b> | 13 <sup>th</sup> May 2022    | V7  |
| <b>151</b> |                              |     |
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| <b>163</b> | 7 <sup>th</sup> February 2023                                   | V40        |
| <b>164</b> | 7 <sup>th</sup> February 2023                                   | V40        |
| <b>165</b> | 7 <sup>th</sup> February 2023                                   | V40        |
| <b>166</b> | 7 <sup>th</sup> February 2023                                   | V40        |
| <b>167</b> | 4 <sup>th</sup> November 2022                                   | V31        |
| <b>168</b> | 24 <sup>th</sup> September 2022                                 | V26        |
| <b>168</b> | 24 <sup>th</sup> September 2022                                 | V26        |
| <b>169</b> |                                                                 |            |
| <b>170</b> | 5 <sup>th</sup> October 2022                                    | V27        |
| <b>171</b> | 21 <sup>st</sup> November 2022                                  | V33        |
| <b>172</b> | 21 <sup>st</sup> November 2022                                  | V33        |
| <b>173</b> | 23 <sup>rd</sup> November 2022                                  | V34        |
| <b>174</b> | 12 <sup>th</sup> December 2022                                  | V35        |
| <b>175</b> | 12 <sup>th</sup> December 2022                                  | V35        |
| <b>176</b> | 15 <sup>th</sup> December 2022                                  | V36        |
| <b>177</b> | 15 <sup>th</sup> December 2022                                  | V36        |
| <b>178</b> | 4 <sup>th</sup> November 2022<br>10 <sup>th</sup> November 2022 | V31<br>V32 |
| <b>179</b> | 4 <sup>th</sup> November 2022                                   | V31        |
| <b>180</b> | 4 <sup>th</sup> November 2022                                   | V31        |

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| <b>181</b> | 27 <sup>th</sup> October 2022   | V30 |
| <b>182</b> | 27 <sup>th</sup> October 2022   | V30 |
| <b>183</b> | 27 <sup>th</sup> October 2022   | V30 |
| <b>184</b> | 24 <sup>th</sup> October 2022   | V29 |
| <b>185</b> | 24 <sup>th</sup> October 2022   | V29 |
| <b>186</b> | 24 <sup>th</sup> October 2022   | V29 |
| <b>187</b> | 24 <sup>th</sup> October 2022   | V29 |
| <b>188</b> |                                 |     |
| <b>189</b> | 21 <sup>st</sup> November 2022  | V33 |
| <b>190</b> | 21 <sup>st</sup> November 2022  | V33 |
| <b>191</b> | 1 <sup>st</sup> September 2022  | V22 |
| <b>192</b> | 1 <sup>st</sup> September 2022  | V22 |
| <b>193</b> | 1 <sup>st</sup> September 2022  | V22 |
| <b>194</b> | 22 <sup>nd</sup> September 2022 | V24 |
| <b>195</b> | 22 <sup>nd</sup> September 2022 | V24 |
| <b>196</b> | 24 <sup>th</sup> September 2022 | V26 |
| <b>197</b> | 24 <sup>th</sup> September 2022 | V26 |
| <b>198</b> | 12 <sup>th</sup> October 2022   | V28 |
| <b>199</b> | 12 <sup>th</sup> October 2022   | V28 |
| <b>200</b> | 24 <sup>th</sup> October 2022   | V29 |
| <b>201</b> | 24 <sup>th</sup> October 2022   | V29 |
| <b>202</b> | 24 <sup>th</sup> October 2022   | V29 |
| <b>203</b> | 24 <sup>th</sup> October 2022   | V29 |

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| <b>204</b> | 23 <sup>rd</sup> February 2023 | V40 |
| <b>205</b> | 23 <sup>rd</sup> February 2023 | V40 |
| <b>206</b> | 23 <sup>rd</sup> February 2023 | V40 |
| <b>207</b> | 23 <sup>rd</sup> February 2023 | V40 |
| <b>208</b> | 1 <sup>st</sup> March 2023     | V41 |
| <b>209</b> | 1 <sup>st</sup> March 2023     | V41 |
| <b>210</b> |                                |     |
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| 232 | 21 <sup>st</sup> June 2023     | V42 |
| 233 | 21 <sup>st</sup> June 2023     | V42 |
| 234 |                                |     |
| 235 |                                |     |
| 236 | 24 <sup>th</sup> Jan 2022      | V1  |
| 237 | 24 <sup>th</sup> Jan 2022      | V1  |
| 238 | 24 <sup>th</sup> Jan 2022      | V1  |
| 239 | 24 <sup>th</sup> Jan 2022      | V1  |
| 240 |                                |     |
| 241 |                                |     |
| 242 | 15 <sup>th</sup> February 2022 | V3  |
| 243 | 15 <sup>th</sup> February 2022 | V3  |
| 244 |                                |     |
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| 246 | 24 <sup>th</sup> January 2022  | V2  |
| 247 | 24 <sup>th</sup> January 2022  | V2  |
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**Belle Vue**  
Gas Validation  
June 2023

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|                                    |                                                                 |            |
|------------------------------------|-----------------------------------------------------------------|------------|
| <b>250</b>                         |                                                                 |            |
| <b>Apartment Block 1</b>           | 15 <sup>th</sup> September 2022<br>5 <sup>th</sup> October 2022 | V25<br>V27 |
| <b>Apartment Block 1 Stairwell</b> | 19 <sup>th</sup> January 2023<br>20 <sup>th</sup> January 2023  | V38<br>V39 |
| <b>Apartment Block 2</b>           | 23 <sup>rd</sup> August 2022                                    | V20        |

## GAS MEMBRANE VALIDATION

Complete

|                               |                                                                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Site Name                     | Belle vue                                                                                                                                |
| Location                      | 180–182 Kirkmanshulme Lane,<br>Longsight<br>Manchester<br>England<br>M18<br>United Kingdom<br>(53.4619359331015, -<br>2.184432412774365) |
| Project Manager               | Stuart ellis                                                                                                                             |
| Project number                | 12123                                                                                                                                    |
| Developer                     | Countryside                                                                                                                              |
| Site representative Signature | Paul<br>21 Jun 2023 12:05 PM BST<br>Lewis                                                                                                |
| Conducted on                  | 21 Jun 2023 11:54 AM BST                                                                                                                 |
| Prepared by                   | Patrick Lavelle                                                                                                                          |

## Inspection Gas Membrane

### Plot Inspection

#### Plot Inspection 1

Plot Number

232

Type of Development: Other add note

House



Photo 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

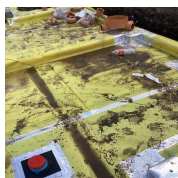


Photo 2



Photo 3



Photo 4



Photo 5



Photo 6

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

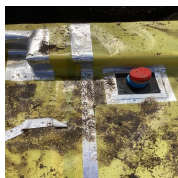


Photo 7

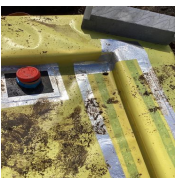


Photo 8



Photo 9

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

Yes



Photo 10



Photo 11

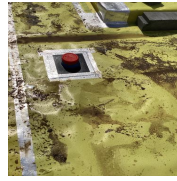


Photo 12



Photo 13

**Type of joints/ Lapping**

Taped

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

Pass

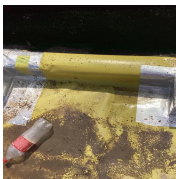


Photo 14



Photo 15



Photo 16



Photo 17



Photo 18



Photo 19

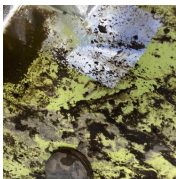


Photo 20

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

Yes



Photo 21



Photo 22



Photo 23

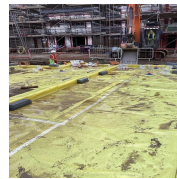


Photo 24

**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



Photo 25

**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 and inspected – this is a requirement of NHBC and local authorities.**

Pass



Photo 26



Photo 27

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

Pass



Photo 28



Photo 29



Photo 30

## Plot Inspection 2

Plot Number

233

Type of Development: Other add note

House



Photo 31

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

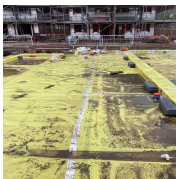


Photo 32

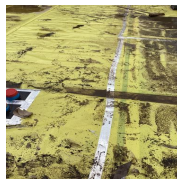


Photo 33

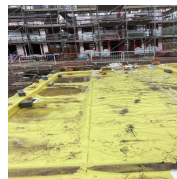


Photo 34



Photo 35



Photo 36



Photo 37



Photo 38

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 39

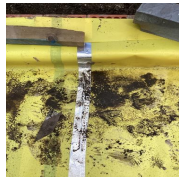


Photo 40

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

Yes



Photo 41



Photo 42

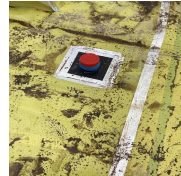


Photo 43

**Type of joints/ Lapping**

Taped

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

Pass

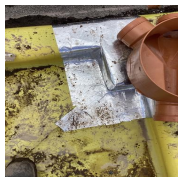


Photo 44

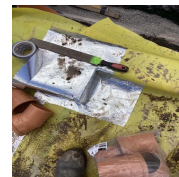


Photo 45



Photo 46



Photo 47

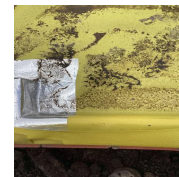


Photo 48



Photo 49



Photo 50

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

Yes

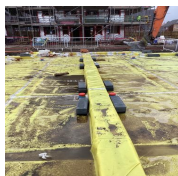


Photo 51



Photo 52

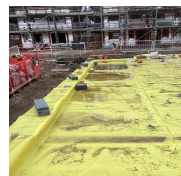


Photo 53

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



Photo 54

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 and inspected – this is a requirement of NHBC and local authorities.

Pass



Photo 55



Photo 56

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

Pass

Site didn't have any more air bricks in stock  
Left holes in the correct location



Photo 57



Photo 58

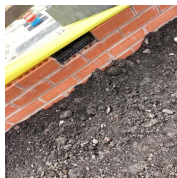


Photo 59

## Passive Venting

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

No

## Media summary



Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6



Photo 7



Photo 8

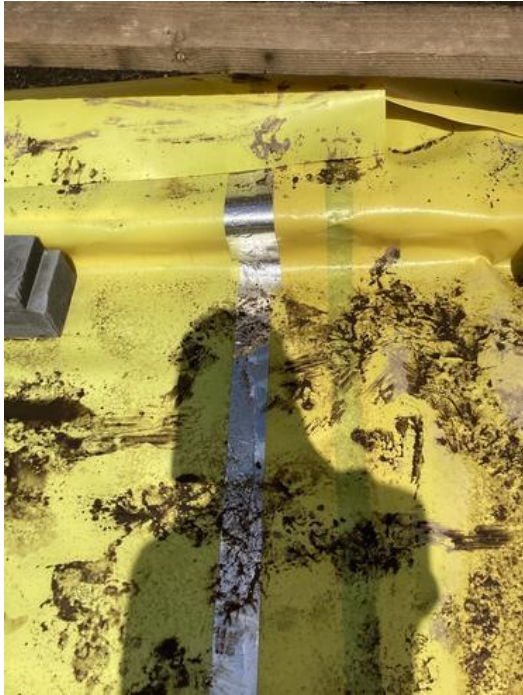


Photo 9



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

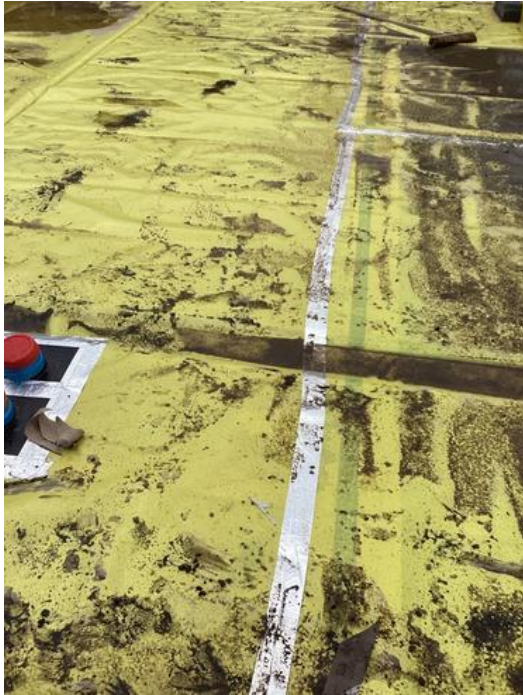


Photo 33



Photo 34



Photo 35



Photo 36

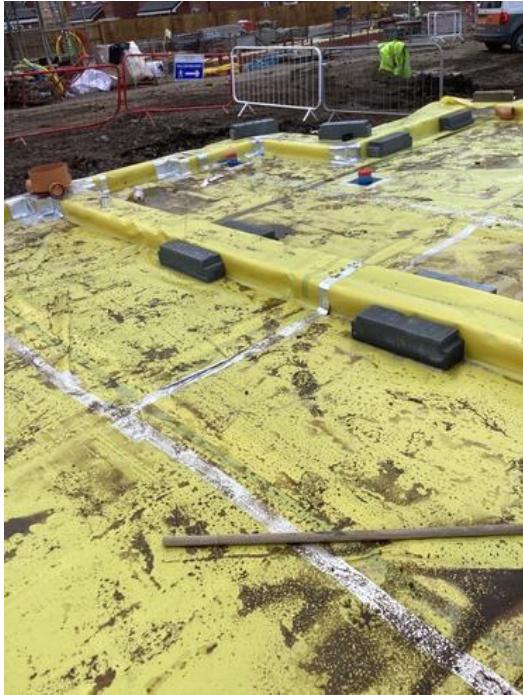


Photo 37



Photo 38

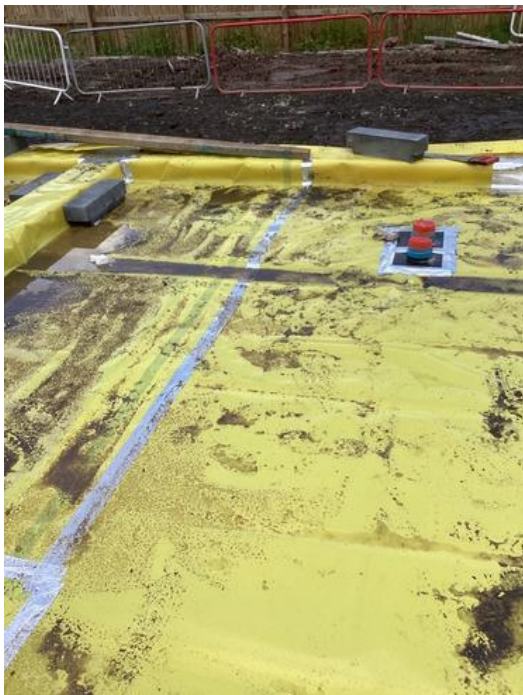


Photo 39



Photo 40



Photo 41



Photo 42



Photo 43



Photo 44



Photo 45



Photo 46



Photo 47



Photo 48



Photo 49



Photo 50



Photo 51



Photo 52



Photo 53



Photo 54



Photo 55



Photo 56



Photo 57



Photo 58



Photo 59