

### GAS MEMBRANE VALIDATION – BELLE VUE

**Project Name: Belle Bue Stadium**

**Project Number: 12-123**

**Client: Countryside Properties**

**Date: 07-07-2023**

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

**E3P Engineer: P. Lavelle**

**Gas Membrane Installers Chandos Civils**

**Ground Gas Risk Assessment: Amber 1**

**Plots: 230-231**

### OVERVIEW

The membrane comprised a Visqueen low permeability gas membrane (Yellow) resistant to radon, carbon dioxide 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 230-231 have been installed with gas protection measures following C Amber 1 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 GAS MEMBRANE (YELLOW)

### Technical Datasheet - Product Overview



Technical support: +44 (0) 333 202 6800

Date Published: 18/10/2021

### Visqueen Low Permeability Gas Membrane

#### Features and benefits

- BBA certified - third party accreditation
- Complies with NHBC Amber 1 - suitable for low gas risk NHBC housing sites
- Flexible - easy to detail and install on site
- Supplied centre folded - reduces the risk of cracks in screed and limits creases
- 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 Low Permeability Gas Membrane is a robust co-polymer thermoplastic gas membrane, 0.5mm thick, yellow in colour and supplied 4m x 12.5m in a center folded roll.

#### Approvals and standards

- Third party accreditation (BBA 13/5069)
- Conforms to the specification requirements of NHBC Amber 1 applications
- Conforms to the specification requirements of BR 211:2015
- CE Mark EN 13967:2017
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

#### Usage

Visqueen Low Permeability Gas Membrane is suitable to prevent the ingress of harmful levels of ground gases for housing applications where NHBC are the warranty provider and the site has been classified as Amber 1. In this application, the membrane is used above a precast suspended segmental ground floor system, for example a beam and block floor.

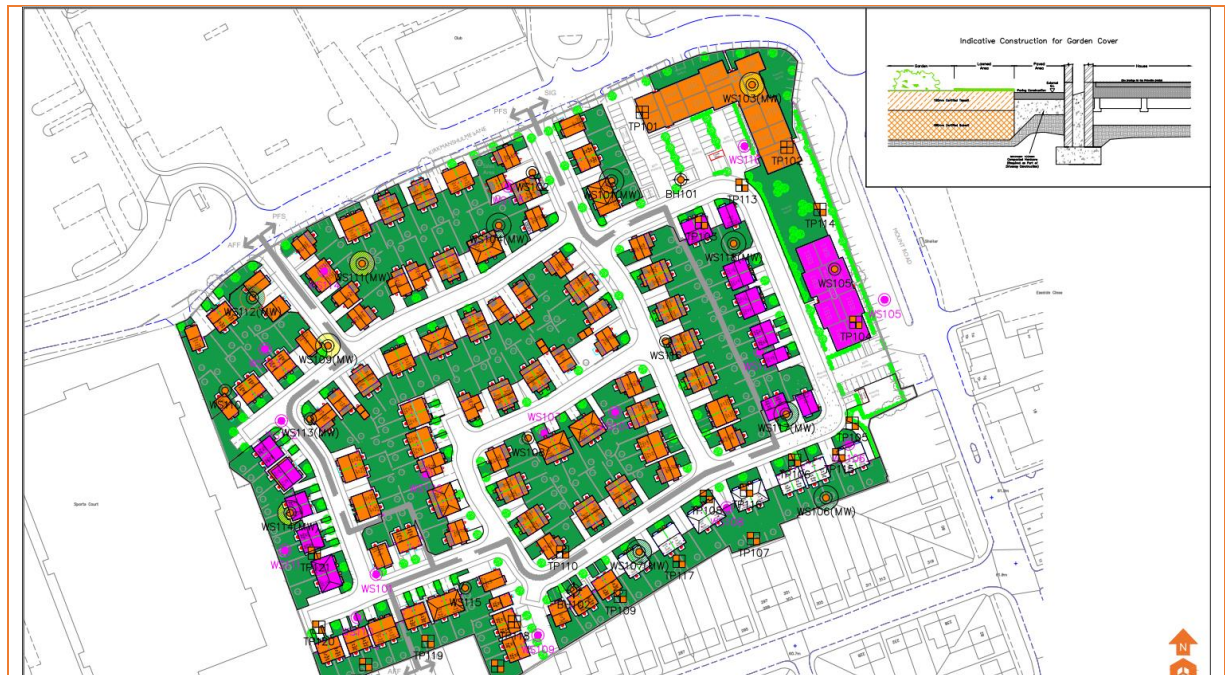
The membrane can also be used as a high performance radon membrane and/or damp proof membrane positioned within the ground floor construction either above or below the structural floor.

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

#### System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen Top Hat Units

## GAS MITIGATION MEASURES PLAN



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>124</b> |                                 |     |
| <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> | 9 <sup>th</sup> May 2023     | V43 |
| <b>152</b> | 9 <sup>th</sup> May 2023     | V43 |
| <b>153</b> | 2 <sup>nd</sup> June 2023    | V44 |
| <b>154</b> | 2 <sup>nd</sup> June 2023    | V44 |
| <b>155</b> | 8 <sup>th</sup> June 2023    | V46 |
| <b>156</b> | 8 <sup>th</sup> June 2023    | V46 |
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| <b>162</b> |                                                                 |            |
| <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 |
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| <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> |                                |     |
| <b>211</b> |                                |     |
| <b>212</b> |                                |     |
| <b>213</b> |                                |     |
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| <b>218</b> |                                |     |
| <b>219</b> |                                |     |
| <b>220</b> | 27 <sup>th</sup> April 2023    | V42 |
| <b>221</b> | 27 <sup>th</sup> April 2023    | V42 |
| <b>222</b> | 27 <sup>th</sup> April 2023    | V42 |
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| <b>230</b> | 7 <sup>th</sup> July 2023      | V47 |
| <b>231</b> | 7 <sup>th</sup> July 2023      | V47 |
| <b>232</b> |                                |     |
| <b>233</b> |                                |     |
| <b>234</b> |                                |     |
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| <b>236</b> | 24 <sup>th</sup> Jan 2022      | V1  |
| <b>237</b> | 24 <sup>th</sup> Jan 2022      | V1  |
| <b>238</b> | 24 <sup>th</sup> Jan 2022      | V1  |
| <b>239</b> | 24 <sup>th</sup> Jan 2022      | V1  |
| <b>240</b> | 18 <sup>th</sup> May 2023      | V44 |
| <b>241</b> | 18 <sup>th</sup> May 2023      | V44 |
| <b>242</b> | 15 <sup>th</sup> February 2022 | V3  |
| <b>243</b> | 15 <sup>th</sup> February 2022 | V3  |
| <b>244</b> |                                |     |
| <b>245</b> |                                |     |
| <b>246</b> | 24 <sup>th</sup> January 2022  | V2  |
| <b>247</b> | 24 <sup>th</sup> January 2022  | V2  |
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**Belle Vue**  
Gas Validation  
July 2023

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|                                    |                                                                 |            |
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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                      | 178 Kirkmanshulme Lane,<br>Longsight<br>Manchester<br>England<br>M18<br>United Kingdom<br>(53.46173245664594, -<br>2.185131528527454) |
| Project Manager               | N/A                                                                                                                                   |
| Project number                | 12123                                                                                                                                 |
| Developer                     | Countryside                                                                                                                           |
| Site representative Signature | Paul<br>7 Jul 2023 9:09 AM BST<br>lewis                                                                                               |
| Conducted on                  | 7 Jul 2023 8:28 AM BST                                                                                                                |
| Prepared by                   | Patrick Lavelle                                                                                                                       |

## Inspection Gas Membrane

### Plot Inspection

#### Plot Inspection 1

Plot Number

230

Type of Development: Other add note

House



Photo 1



Photo 2

Foundation Type: Other add note

Suspended Floor

Gas Membrane Type: Manufacturer, gauge, and colour.

Yellow visqueen

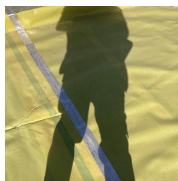


Photo 3



Photo 4

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 5



Photo 6



Photo 7

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

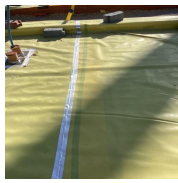


Photo 8

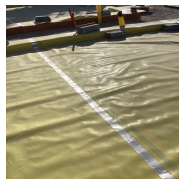


Photo 9

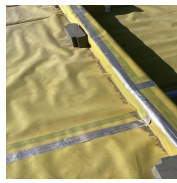


Photo 10

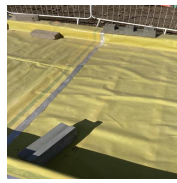


Photo 11

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

Yes



Photo 12



Photo 13

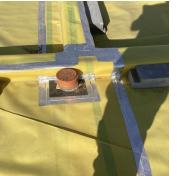


Photo 14

**Type of joints/ Lapping**

Taped

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

Pass



Photo 15



Photo 16

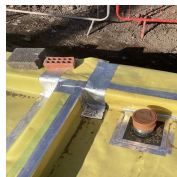


Photo 17

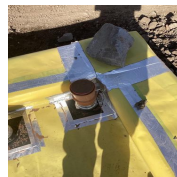


Photo 18



Photo 19

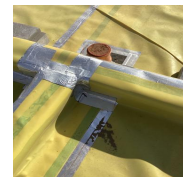


Photo 20



Photo 21



Photo 22



Photo 23



Photo 24



Photo 25

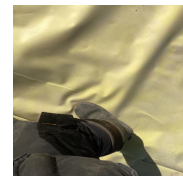


Photo 26

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

Yes



Photo 27



Photo 28



Photo 29

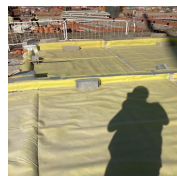


Photo 30



Photo 31



Photo 32

**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 33

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

Pass



Photo 34



Photo 35

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

Pass



Photo 36



Photo 37



Photo 38

## Plot Inspection 2

Plot Number

231

Type of Development: Other add note

House



Photo 39



Photo 40

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 41

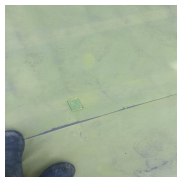


Photo 42



Photo 43

**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

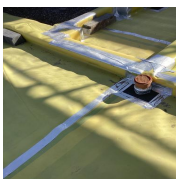


Photo 44

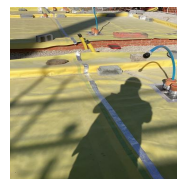


Photo 45

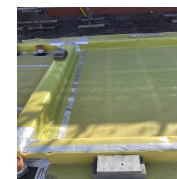


Photo 46

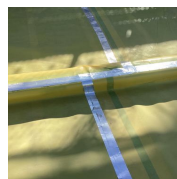


Photo 47

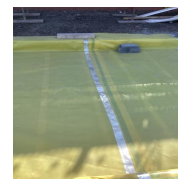


Photo 48

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

Yes



Photo 49

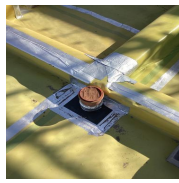


Photo 50

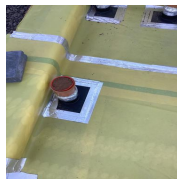


Photo 51



Photo 52



Photo 53

### Type of joints/ Lapping

Taped

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

Pass



Photo 54



Photo 55

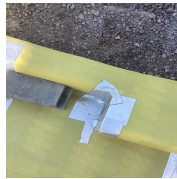


Photo 56

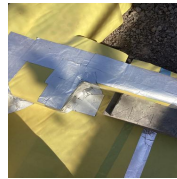


Photo 57

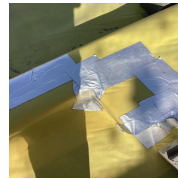


Photo 58

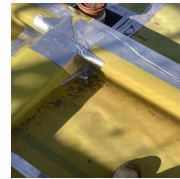


Photo 59



Photo 60



Photo 61



Photo 62



Photo 63



Photo 64

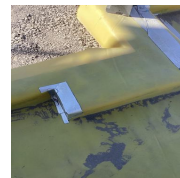


Photo 65



Photo 66

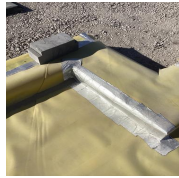


Photo 67

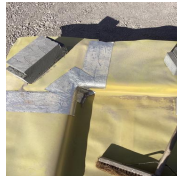


Photo 68

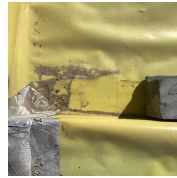


Photo 69

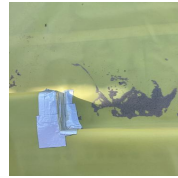


Photo 70



Photo 71

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

Yes



Photo 72



Photo 73



Photo 74



Photo 75

**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 76

**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

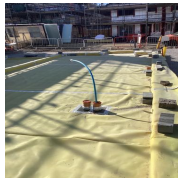


Photo 77



Photo 78

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

Pass



Photo 79



Photo 80

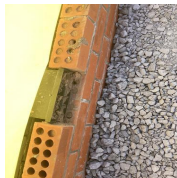


Photo 81

## 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

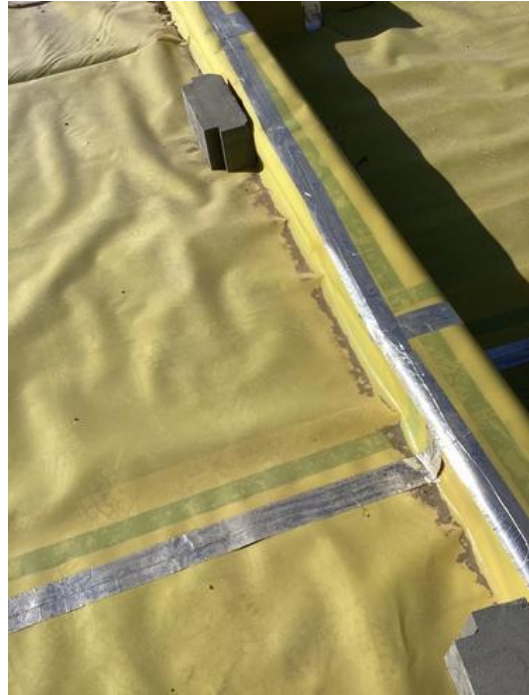


Photo 10

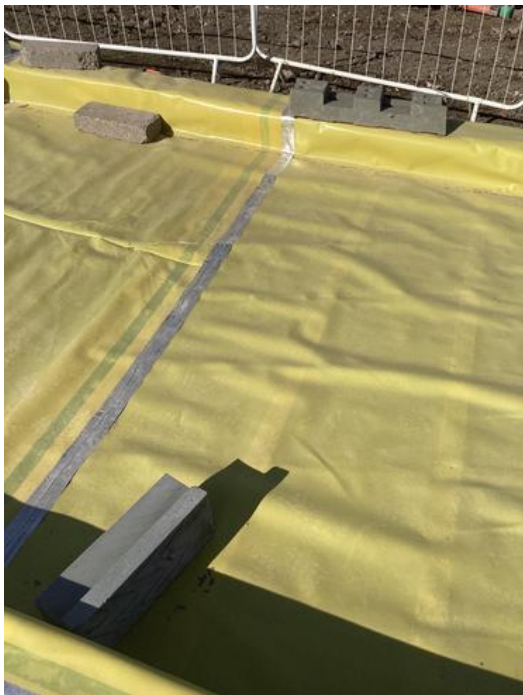


Photo 11



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

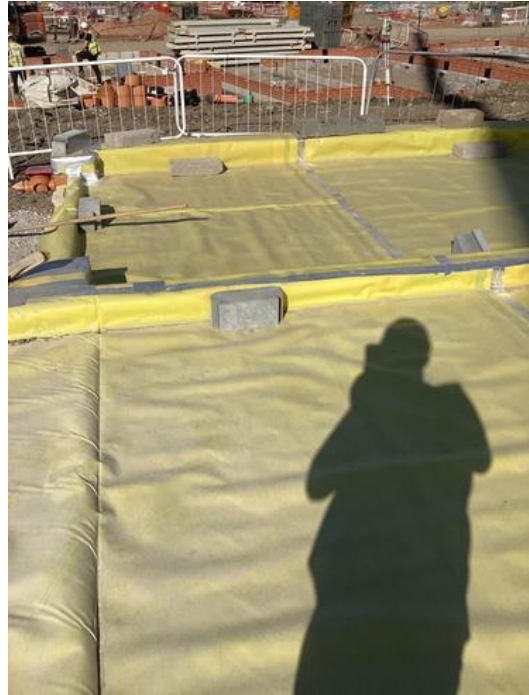


Photo 30



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

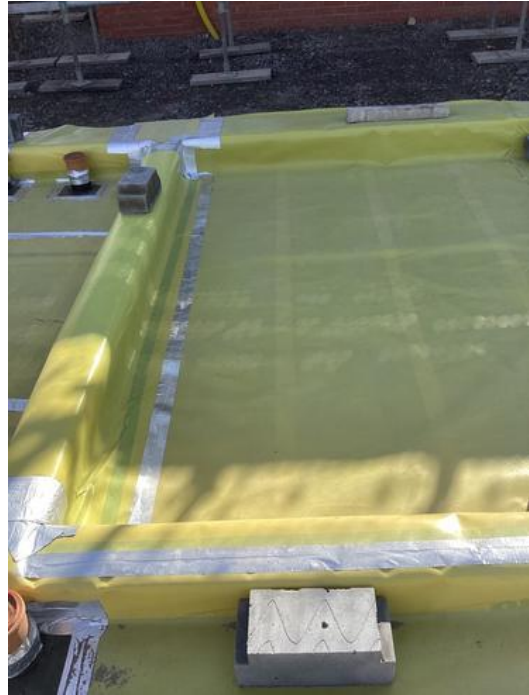


Photo 46

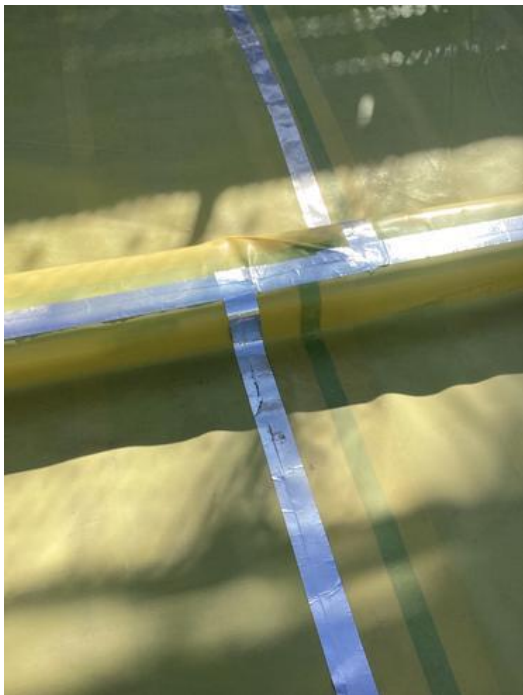


Photo 47

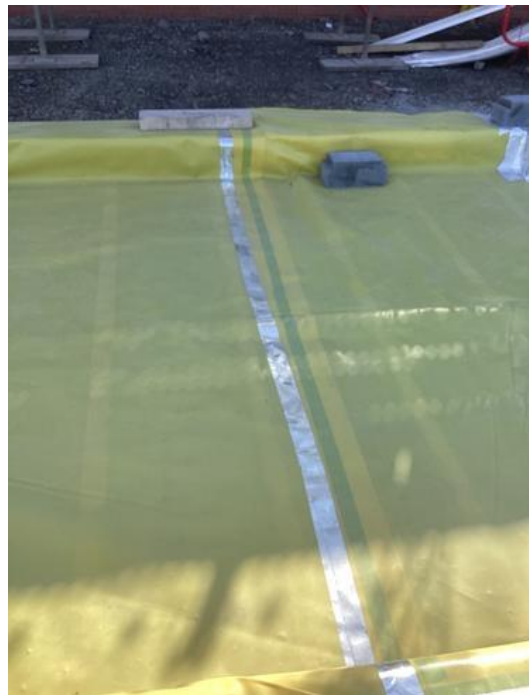


Photo 48



Photo 49

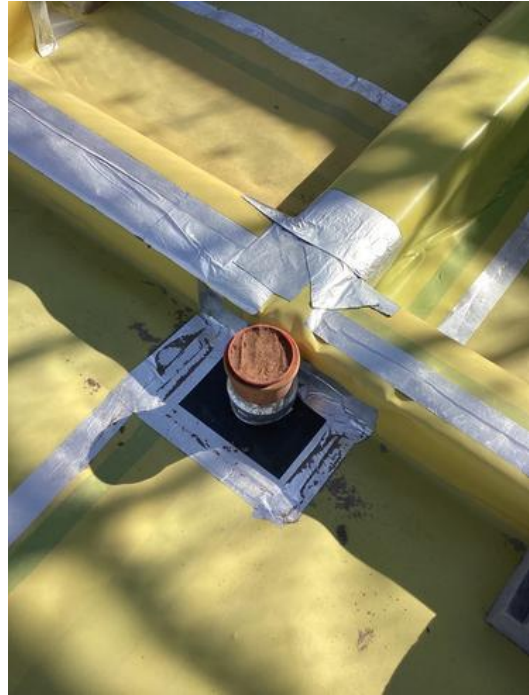


Photo 50



Photo 51



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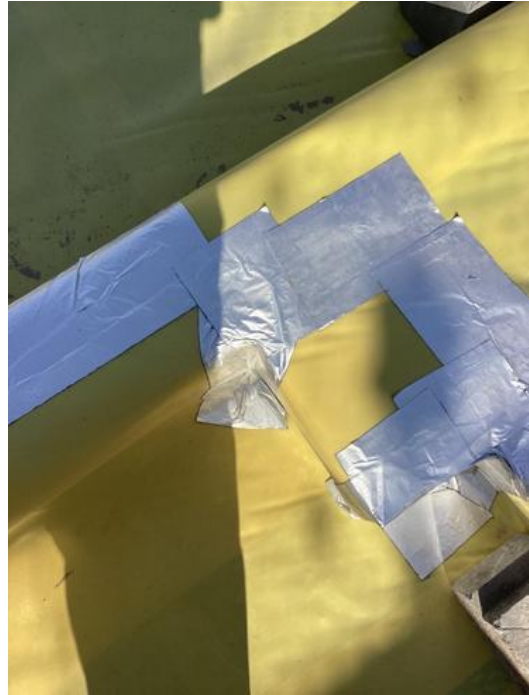


Photo 58



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Photo 72



Photo 73



Photo 74



Photo 75



Photo 76

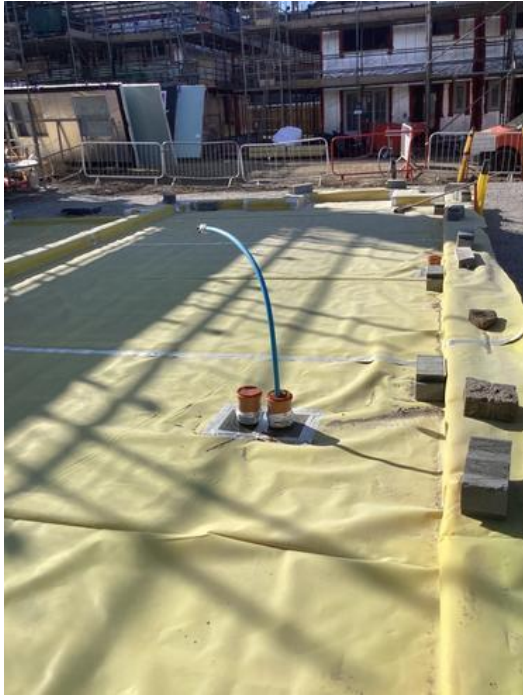


Photo 77



Photo 78



Photo 79



Photo 80



Photo 81