

## GAS MEMBRANE VALIDATION

|                                      |                                                  |
|--------------------------------------|--------------------------------------------------|
| Site Name: Belle Vue Stadium         | Project Number: 12-123                           |
| Company Name: Countryside            | Date: 05-09-2022                                 |
| Project Manager: O. Jackson          | E3P Engineer: P. Lavelle                         |
| PM Qualifications : BSc FGS AMIEnvSc | Engineer Qualifications: GGS Gas Training Feb 22 |

### Overview:

The membrane comprised a Visqueen 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.

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.

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





**Plot – 134**

**General Condition of Membrane-Good Condition**



**Verification of Joints and Seals-Overlapped and sealed correctly**

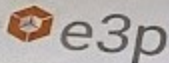


**Verification of Service Penetrations-Good Condition**



**Verification of Ventilation-Good Condition**





## Gas Protection Validation Site Record

|                                                                                                                                                                                                               |                                                                                                                                    |                  |     |               |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------|-----|---------------|----|
| Inspection date/time:                                                                                                                                                                                         | 5/9/2022                                                                                                                           | Inspected by:    | PL  | Photographed: | OK |
| Type of development:                                                                                                                                                                                          | Residential                                                                                                                        | Plot number:     | 134 | Developer:    |    |
| Notes/recommendations                                                                                                                                                                                         | Comments                                                                                                                           |                  |     |               |    |
| Membrane Type                                                                                                                                                                                                 |                                                                                                                                    |                  |     |               |    |
| Extent of Coverage                                                                                                                                                                                            | Gold vision                                                                                                                        |                  |     |               |    |
| Underside of Membrane                                                                                                                                                                                         | Full coverage                                                                                                                      |                  |     |               |    |
| Slab / membrane condition (is membrane clear of debris or insulation)                                                                                                                                         | clear                                                                                                                              |                  |     |               |    |
| Type of joints                                                                                                                                                                                                | clear                                                                                                                              |                  |     |               |    |
| Service entries - Jubilee clips, Top hats installed correctly                                                                                                                                                 | <input checked="" type="checkbox"/> Tape Joint <input type="checkbox"/> Welded Joint <input type="checkbox"/> Other (please state) |                  |     |               |    |
| External Wall Air bricks Present?                                                                                                                                                                             | yes                                                                                                                                |                  |     |               |    |
| Comers inspected?                                                                                                                                                                                             | yes                                                                                                                                |                  |     |               |    |
| Membrane joints inspected has Double -sided butyl tape been used?                                                                                                                                             | yes                                                                                                                                |                  |     |               |    |
| Folds in membrane inspected?                                                                                                                                                                                  | yes                                                                                                                                |                  |     |               |    |
| Has the membrane been installed as per the design detail drawing?                                                                                                                                             | yes                                                                                                                                |                  |     |               |    |
| This Plot has <del>FAILED</del> <b>PASSED</b> inspection. (Any proposed remedial works will be noted in the "Remarks" column on this form). An additional inspection visit IS/IS NOT* required for this Plot. |                                                                                                                                    |                  |     |               |    |
| Inspection by: P. Lough                                                                                                                                                                                       |                                                                                                                                    | Signed: P. Lough |     |               |    |