Stantec UK Limited
Third Floor, White Building
1-4 Cumberland Place
Southampton SO15 2NP
UNITED KINGDOM

14 November 2025

Project/File: Land South of Bursledon Road - Kestrel Park

Taylor Wimpey Southern Counties
Stuart Benfield
Colvedene Court,
Wessex Business Park,
Colden Common,
Winchester,
SO21 1WP

Dear Stuart Benfield,

Reference: 1197233

1.1 Introduction

Stantec Hydrock (Stantec), formerly Hydrock, undertook geo-environmental services between 2018 and 2023 relating to the above site. Our services principally comprised production of a Construction Environmental Management Plan (CEMP), Material management Plan (MMP), Remediation method Statement (RMS), verification site visits and verification reporting. The reports were based on existing ground investigation undertaken by GES between 2014 and 2018.

Over the period of construction between 2018 and 2021 we undertook approximately 30 site visits. The final verification report, after collation of data from the Client, was submitted to the Council on 27th April 2023.

In August 2024, we were made aware of comments regarding our verification report received by the Client from Eastleigh Borough Council (EBC). At this time, Stantec reviewed available data, and confirmed what additional information was required from our Client and their respective contractors to address the comments. Due primarily to staffing changes, this request was not progressed at that time.

In November 2025, Taylor Wimpey Southern Counties re-engaged Stantec seeking to respond to the comments raised by Yacklin Panza (EBC) on 13th August 2024. This letter has been produced to provide detailed responses to the comments raised regarding the verification report reference: 08162-HYD-XX-XX-RP-GE-5001_VR.

1.2 Verification Report Queries

The comments received from Eastleigh Borough Council are included in full, enclosed as Appendix A. For the purposes of this letter, the comments have been summarised to only include those queries requiring a response.

Part-time watching brief for excavation, segregation, screening made ground and re-use of soils:

> *"South bund: Hydrock undertook a site visit and sample collection exercise on 09/10/2019 revealed that 4 out of 21 samples collected contain loose asbestos (SSV03, SSV04 and SSV08). Hydrock concluded that this subsoil stockpile is not suitable for re-use and should be disposed off-site to a suitable facility. However, the Verification Report lacks waste transfer tickets for the removal of this material. Can the applicant provide evidence of its removal?"*

Response: We have not been made aware of any tickets to evidence the removal of this stockpile material; and it is not conclusive that it was removed from the site. There are a number of mitigating factors which demonstrate that the risk from this stockpile has been adequately mitigated.

1. We consider our initial recommendation that the material is unsuitable and should be removed from site a conservative recommendation. The laboratory test results of these four samples tested were between 0.001% and 0.002%, with 0.001% being the limit of detection. It is generally considered that values below 0.001% rarely require consideration and, for example, would not fall within the remit of CAR Soils. At these very low concentrations, the risk to human health can be generally dismissed and our current import criteria typically states: "*Imported soils should be free of visible asbestos and asbestos fibres (confirmed by laboratory testing as <0.001%w/w), metal, plastic, wood, glass, tarmac, brick, paper, concrete or other potentially hazardous foreign material which could cause injury."*
2. During our site visit on 08/01/2020, taking the previous comment into consideration, we provided the groundworker with an alternative solution to encapsulate the material beneath the clean cover capping system in the country park area. We believe this approach was progressed.
3. Later visits confirm that the stockpile is no longer present (after being recorded throughout our visits). Its absence was noted prior to the final clean cover system being placed.
4. Our verification of the country park clean cover systems has confirmed that the appropriate thicknesses of capping is present including the required high visibility warning membrane in place.

On the basis of the above, it is believed that the stockpile was incorporated beneath the clean capping system prior to placement. If it was removed from site, no tickets exist to evidence this.

It is in our opinion that the above provides conclusion that this stockpile, with very low levels of asbestos contamination, no longer poses an ongoing risk to the site or its users.

Japanese knotweed remediation:

> *"Previous remediation works for JK7 area were undertaken by Greenspan Projects Ltd in July 2017, comprising the removal of 950kg of Japanese Knotweed to a disposal facility (Greenspan Projects Ltd after dig report dated 11 for area JK7 presented in Appendix F). Further works to remove Japanese knotweed from the remaining areas were undertaken in accordance with the Knotweed Management Plan produced by Japanese Knotweed Ltd. (reference JKLE14863.1 dated 10/08/2018 - presented in Appendix F). Section 6.1 indicates that all knotweed impacted arisings were placed within the burial cells, with exception of asbestos contaminated soils from area JK4, which was stockpiled and fenced off for disposal off-site. Last bullet point indicates that asbestos contaminated waste remains on site. This asbestos stockpile was observed during several Hydrock site visits until 2019.04.29, when it was noted that the stockpile was no longer present. I couldn't locate waste transfer notes indicating removal of asbestos from site. Can the applicant provide evidence supporting this?"*

Response: Japanese Knotweed Ltd have provided a "Knotweed Management Plan" (Ref:JKLE14863.1/2265) which discusses the remediation / removal of the asbestos impacted soils. An extract of this report is included below for reference

"SUMMARY OF WORKS COMPLETED

Reference: **1197233**

We are pleased to confirm that we have now completed, to the best of our knowledge, the Japanese knotweed remedial works to the above site, as per our quotation JKLE 14863 dated 01/10/2018 and our subsequent method statement. Please note we completed the following planned/quoted works:

Full excavation of JK1, JK2, JK3, JK4, JK5 and JK6. Asbestos was discovered and stockpiled separately. All knotweed contaminated waste that did not include asbestos was relocated to a cell burial pit. No waste was removed from site.

Remedial works were undertaken from 10/10/2018 and completed 14/11/2018.

We returned to site and handpicked the asbestos pieces from the remaining knotweed contaminated stockpile. This was under the supervision of ABP asbestos specialists. The asbestos pieces where then removed to appropriate landfill and the remaining knotweed contaminated soil was removed to landfill

All waste was taken to the following licensed landfill site 'Norris Greenwich – Site License No. EAWML83511'. All weighbridge tickets are located in this report.

Remedial works were undertaken from 07/05/2019 and completed 16/05/2019."

It is considered that the above adequately addressed this query. For completeness, a copy of the weighbridge ticket referenced above is enclosed as Appendix B.

Installation and validation of gas protection measures for all plots were required, based on CS2 scenario (minimum of 3.5 points achieved by passively ventilated sub floor voids with a clear void acting as the dispersal layer (2.5 points) and incorporation of a suitable gas resistant membrane (2 points)):

"The report indicates that gas protection measures were installed by NEA Contractors and installation completion certificates presented in Appendix G, as well as gas membrane technical datasheets. Section 7.2 of the report indicates that Hydrock undertook visual inspection of gas protection measures on 132 out of 200 plots. However, visual inspection sheets are only available for plots 60-62, 65-66, and 136-138 in Appendix J. Can the applicant provide supporting information for the remaining inspected plots?"

Response: For the avoidance of doubt, the table provided below provides a summary of the highlighted plots which were visually inspected by Stantec.

1	11	21	31	41	51	61	71	81	91	101	111	121	131	141	151	161	171	181	191
2	12	22	32	42	52	62	72	82	92	102	112	122	132	142	152	162	172	182	192
3	13	23	33	43	53	63	73	83	93	103	113	123	133	143	153	163	173	183	193
4	14	24	34	44	54	64	74	84	94	104	114	124	134	144	154	164	174	184	194
5	15	25	35	45	55	65	75	85	95	105	115	125	135	145	155	165	175	185	195
6	16	26	36	46	56	66	76	86	96	106	116	126	136	146	156	166	176	186	196
7	17	27	37	47	57	67	77	87	97	107	117	127	137	147	157	167	177	187	197
8	18	28	38	48	58	68	78	88	98	108	118	128	138	148	158	168	178	188	198
9	19	29	39	49	59	69	79	89	99	109	119	129	139	149	159	169	179	189	199
10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
10	**7**	**5**	**3**	**4**	**7**	**9**	**7**	**0**	**5**	**8**	**8**	**6**	**6**	**7**	**6**	**9**	**5**	**10**	**10**
Total: 132																			

This is in alignment with the comments in the verification report stating that 132 out of 200 plots were inspected. A full record of the plot verification sheets is enclosed as Appendix C to provide the necessary evidence to close out this query.

Installation and validation of engineered cover system in POS country park area (hi-vis geomembrane under 300mm clean subsoil under 150mm clean topsoil – sample ratio 1 in 500m3 in POS compared against import and re-use soil criteria, haul road with minimum of 150mm topsoil over hi-vis geomembrane):

"The RMS recommended the installation of gas vents within the infill area; however, the Verification Report does not mention this. Can the applicant clarify whether these vents were installed?"

Response: It is acknowledged that the RMS recommended the installation of gas vents; however, this was based solely on the findings and recommendations of the former GES report. It should be noted that the recommendations were not clearly reproposed in the Stantec RMS as the GES report recommends the following:

> *"At such time re-engineering of the capping system will need to be carefully considered to ensure that the gas migration pathways and current gassing regime are not significantly altered on site. Such measures should account for soft landscaping as well as human health. It is recommended that consideration be given to installing gas vents within the area of proposed open space associated with the infilled area to create preferential low pathways that can be located away from key receptors to include vegetation."*

It is noted that the recommendation is for consideration, which should be based on the proposed capping and this requirement was not reassessed following the final capping solution proposed in the Stantec RMS.

The capping system proposed will have resulted in no significant alternation to the gassing regime of the landfill. The membrane specified and installed is highly permeable, as confirmed by its specification sheet, and so this component will provide no increased restriction to venting gas. Likewise, the materials placed above this membrane comprises uncompacted subsoil and topsoil to a depth of 450mm; which also will not create a restriction to gas migration.

On this basis, the proposed capping system does not significantly alter the site or the existing gas migration pathways, and therefore we do not consider that gas vents are necessary to place in the Country Park area.

A further mitigating factor is that all the plots onsite have been installed with CS-2 gas protection measures as a conservative approach to gas protection. This further minimises / mitigates any residual risk.

Over excavation of service runs and installation of protective pipework in made ground areas (300mm either side and 300mm below edge) in areas where services crossed the former landfill:

"The report lacks information on the remedial works for service runs. Could the applicant provide clarification on this matter?"

Response: Our client and their groundworker have confirmed that no services runs were required to cross the former landfill, and therefore the above is not deemed to have been a requirement during construction. The groundworker (Gracelands) stated the following:

> *"There are no service crossings in the Country Park."*

1.3 Conclusions

We trust the above adequately sets our responses to the points of clarification raised on 13th August 2024. Based on the findings of the original verification report, and the further clarifications provided in this letter, it is considered that the remediation of the site is complete and it is recommended that planning conditions 20 and 21 be discharged.

Best regards,

Stantec UK Limited

Anthony Elkins BSc MSc FGS MSci CEnv MIEnvSc
Associate
Mobile: +44 7442 045682
anthony.elkins@stantec.com

stantec.com/uk

Attachment:

Appendix A: Email from Yacklin Panza to Taylor Wimpey dated: 13 August 2024
Appendix B: Waste disposal tickets provided by Japanese Knotweed Ltd
Appendix C: Hydrock now Stantec, visual ground gas verification records.

Appendix A

Email from Yacklin Panza to Taylor Wimpey dated: 13 August 2024

Huckfield, David

From: Panza, Yacklin
Sent: 13 August 2024 15:31
To: Huckfield, David
Cc: Planning @ Eastleigh Borough Council
Subject: [DC/24/97680] Land south of Bursledon Road, Bursledon Road SO31 8EY - Condition 20

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning David,

Thanks for consulting the Pollution Team on planning application reference DC/24/97680 for the discharge of condition 20 (verification of remediation scheme) of F/18/82322 for the development at Land south of Bursledon Road, Bursledon Road SO31 8EY. Apologies on the delay responding to this consultation.

I have reviewed the following documents:

- Hydrock Consultants Ltd. (April 2023). Final Verification Report, reference 08162-HYD-XX-XX-RP-GE-5001.
- Hydrock Consultants Ltd. (December 2018). Remediation Method Statement (RMS), reference BRL-HYD-XX-REM-RP-GE-3000 P1.4.

Please find my comments below:

The approved RMS (December 2018) indicates that the following remedial works were required for the proposed development:

- Demolition of existing structures;
- Excavation, segregation, screening made ground with part-time watching brief;
- Re-use soils in accordance with the materials management plan/ off-site disposal of material (waste consignment / transfer notes);
- Over excavation of service runs and installation of protective pipework in made ground areas (300mm either side and 300mm below edge) in areas where services crossed the former landfill;
- Japanese knotweed remedial works within identified areas;
- Installation and validation of engineered cover system in areas of Public Open Space (POS), play areas and a Country Park comprising hi-vis geomembrane under 300mm clean subsoil under 150mm clean topsoil – sample ratio 1 in 500m3 in POS compared against import and re-use soil criteria). It was agreed that private gardens don't require cover system;
- Installation and validation of gas protection measures for all plots were required, based on CS2 scenario (3.5 points obtained via passively ventilated sub floor voids (1.5-2.5 score) and incorporation of a suitable gas resistant membrane (2 score);
- Discovery strategy for unexpected contamination.

The Verification Report (April 2023) includes a summary of the site background, conceptual site model, materials management strategy and construction environmental management plan. Details of the remedial works are presented in section 6 and 7 of the report, and discussed as follows:

- **Part-time watching brief for excavation, segregation, screening made ground and re-use of soils:** The report indicated that Hydrock conducted monthly site visits during 2018 and 2021, which included watching briefs, stockpiling inspection, re-use soils and gas membrane inspections. The site visit reports are presented in Appendix I, with a summary in Table 7.1. Based on these reports, it seems that the re-use of soils was undertaken in accordance with the Material Management Plan:

- It is noted that a total of 5,000m3 of imported clean soil from Taylor Wimpey Burridge Green site was used on site and waste transfer notes were presented in Appendix H. Although 372 transfer tickets account for approximately 4,500m3, the evidence is deemed sufficient to verify the quantity of soil received.
- The Northern bund (near JK1 area) required remediation. Hydrock's site visit and sample collection on 07/10/2020 for the northwest bund confirmed the suitability of the imported topsoil, as laboratory results (report number 20-35360) indicated that none of the 15 samples exceeded the imported soil criteria, thus confirming the success of the remedial works.
- South bund: Hydrock undertook a site visit and sample collection exercise on 09/10/2019revealed that 4 out of 21 samples collected contain loose asbestos (SSV03, SSV04 and SSV08). Hydrock concluded that this subsoil stockpile is not suitable for re-use and should be disposed off-site to a suitable facility. However, the Verification Report lacks waste transfer tickets for the removal of this material. Can the applicant provide evidence of its removal?

- **Japanese knotweed remediation:**
  Previous remediation works for JK7 area were undertaken by Greenspan Projects Ltd in July 2017, comprising the removal of 950kg of Japanese Knotweed to a disposal facility (Greenspan Projects Ltd after dig report dated 11 for area JK7 presented in Appendix F). Further works to remove Japanese knotweed from the remaining areas were undertaken in accordance with the Knotweed Management Plan produced by Japanese Knotweed Ltd. (reference JKLE14863.1 dated 10/08/2018 - presented in Appendix F). Section 6.1 indicates that all knotweed impacted arisings were placed within the burial cells, with exception of asbestos contaminated soils from area JK4, which was stockpiled and fenced off for disposal off-site. Last bullet point indicates that asbestos contaminated waste remains on site. This asbestos stockpile was observed during several Hydrock site visits until 2019.04.29, when it was noted that the stockpile was no longer present. I couldn't locate waste transfer notes indicating removal of asbestos from site. Can the applicant provide evidence supporting this?

- **Installation and validation of gas protection measures for all plots were required, based on CS2 scenario (minimum of 3.5 points achieved by passively ventilated sub floor voids with a clear void acting as the dispersal layer (2.5 points) and incorporation of a suitable gas resistant membrane (2 points)):**
  The report indicates that gas protection measures were installed by NEA Contractors and installation completion certificates presented in Appendix G, as well as gas membrane technical datasheets. Section 7.2 of the report indicates that Hydrock undertook visual inspection of gas protection measures on 132 out of 200 plots. However, visual inspection sheets are only available for plots 60-62, 65-66, and 136-138 in Appendix J. Can the applicant provide supporting information for the remaining inspected plots?

- **Installation and validation of engineered cover system in POS country park area (hi-vis geomembrane under 300mm clean subsoil under 150mm clean topsoil – sample ratio 1 in 500m3 in POS compared against import and re-use soil criteria, haul road with minimum of 150mm topsoil oer hi-vis geomembrane):**
  - Validation of the Country Park is discussed in section 7.4 of the report. The geo-membrane technical datasheet is shown in Appendix L (Lotrack Alarm18). Country Park area was validated on 13/10/2021 as detailed in the site visit report. The topsoil, subsoil, and membrane were found to comply with cover system specifications in all trial pits within the Country Park area, except for an isolated fragment of asbestos found in CPV01. As no loose fibres were detected at this location, no further action was deemed necessary. The RMS recommended the installation of gas vents within the infill area; however, the Verification Report does not mention this. Can the applicant clarify whether these vents were installed?
  - The RMS indicates that a minimum of 150mm topsoil and permeable membrane was required along the haul road, inspected on 13/10/2021. Validation samples (CPV-12, 13, 14, 15, 16, 33, 34, 35) confirmed compliance with the specifications, with no exceedances above the GAC criteria. The remedial works on the haul road are considered successfully implemented.

- **Over excavation of service runs and installation of protective pipework in made ground areas (300mm either side and 300mm below edge) in areas where services crossed the former landfill:** The report lacks information on the remedial works for service runs. Could the applicant provide clarification on this matter?

- **Discovery of unexpected contamination:**
  A discovery strategy was included in the remediation strategy to address any unexpected contamination encountered during construction. Hydrock was not notified of any such contamination beyond what is discussed above.

In conclusion, the Verification Report is very comprehensive and summarise the remedial works undertaken in the mentioned site. However, in order to fully discharge Condition 20 of F/18/82322, the following information is still required:

- Evidence of asbestos removal from the identified JK4 area and south bund.
- Supporting information or inspection sheets for the remaining plots inspected.
- Clarification on Gas Vent Installation in the Country Park Area
- Information on Remedial Works for Service Runs

I trust the above information is of assistance. If you have any further queries, please do not hesitate in contacting us.

Best regards,

Yacklin

Yacklin Panza

Pollution Control Specialist

Planning & Environment - Pollution

Ext.: 8058

Mobile: 07557 327776



Banner EastleighActive

Appendix B

Waste disposal tickets provided by Japanese Knotweed Ltd

COMBINED ADVICE NOTE / WASTE SERVICES AGREEMENT / WASTE TRANSFER NOTE

Ticket No. 173580

Date 17.05.2019

Top Copy - Customer - White

2nd Copy - Disposal Facility - Pink

3rd Copy - Customer / Invoice - Blue

4th Copy - Office - Yellow

Windsor
waste management ltd
The complete waste management and recycling service
Unit 29 Childeritch Industrial Estate, Childeritch Hall Drive,
Little Warley, Brentwood, Essex CM13 3HD
tel: +44 (0) 1708 55 99 66
email: enquiries@winwaste.com
web: www.winwaste.com
Registered Office: Unit 29 Childeritch Industrial Estate, Childeritch Hall Drive,
Little Warley, Brentwood, Essex CM13 3HD
Company Registered in England No. 4081179

A/C No.	CASH INC VAT	CHEQUE INC VAT	CREDIT CARD INC VAT
	£	£	£

Customer/Producer: ABP Associates LLP

Site Address: Kestrel PK Land South of Bursledon Rd, SO31 8EN

Contact: Richard Tel: 07514728951

Vehicle Reg.: GL67 LBG

Drivers Name: Jim O'Neill

O/No.:

Waste Description: Cement Construction Material

Service: Collection 1Kyd enclosed

Bin In: Bin Out: 53

Consignment Note No.:

Disposal Site Advice No.:

Customer Name Print:

Customer Signature:

Comments:

I/WE AGREE TO THE TERMS SET OUT ABOVE AND THE COMPANY'S TERMS AND CONDITIONS WHICH ARE AVAILABLE ON THE COMPANY'S WEBSITE WWW.WINWASTE.COM AND AT ANY TIME UPON REQUEST - AN ABBREVIATED VERSION OF THE COMPANY'S TERMS AND CONDITIONS ARE SET OUT OVERLEAF.

CARRIER LICENCE No. CBDU63545

VAT No. 183 6866 62

Appendix C

Hydrock now Stantec, visual ground gas verification records

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	KESTREL PARK, BURSLEDON
Job number:	C-08162-C
Plot Number(s):	P1 – P5
Date:	23/11/2018
Visit by:	DAVID PETHICA
Checked by:	DAVID PETHICA

Weather at time of inspection:	OVERCAST, COLD
Gas characteristic situation:	CS2
Type of development and building/block checked:	(residential) / commercial / other
Building description:	LOW RISE
Foundation type:	(suspended floor)/ raft / other
Gas protection type:	(passive)/ active

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A – NOT INSPECTED /SEEN
1.2	Gas membrane type	JUTA GP1
1.3	Gas membrane condition	GOOD
1.4	Joining tape product	ALL JOINTS HEAT SEALED. DETAILS WITH PREMSEAL GMA
1.5	Lapping design	100mm MINIMUM
1.6	Laps, welds and joints seals	GOOD – HEAT SEAL / PREMSEAL GMA
1.7	Service entries seals	GOOD – TOPHATS OF PREMSEAL GMA
2	***Passive venting***	
2.1	Sub-floor void	PRESENT BUT NOT INSPECTED
2.2	External wall airbricks	PRESENT 1–3m INTERVALS
2.3	Internal sleeper walls	PLOT 1/2 + PLOT 4/5. GOOD.
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A
3	***Active venting***	
3.1	System details	—

Additional Notes:

P5 – 1 SMALL PREMSEAL GMA PATCH NR. CENTRE. COMPLETE ✓
P4 – NO DEFECTS.
P3 – NO DEFECTS
P2 – 2 SMALL PATCHES PREMSEAL GMA. 1 CENTRE. 1 BY SLEEPER WALL. ✓
P1 – 1 SMALL PATCH PREMSEAL GMA. CENTRE OF PLOT. COMPLETE ✓

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a)	Are acceptable and comply with the specification ✓
	b)	Are acceptable but attention is drawn to issues related to item no. xxx
	c)	Are not acceptable due to the issues related to item no. xxx

Engineer Name:	—	**Signature:**		**Date:**	
Checker Name:	DAVID PETTICA	**Signature:**		**Date:**	23/11/18

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	KESTREL PARK, BURSLEDON
Job number:	C-08162-C
Plot Number(s):	6-7
Date:	20/11/18
Visit by:	DAVID PETHICA
Checked by:	DAVID PETHICA

Weather at time of inspection:	OVERCAST, RAIN
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential / commercial / other
Building description:	LOW RISE
Foundation type:	suspended floor/ raft / other
Gas protection type:	passive / active

No.	Item	Comments (see notes)
1	*Gas membrane*	
1.1	Condition of sub-grade and underside of gas membrane	N/A – NOT SEEN
1.2	Gas membrane type	JUTA GP1
1.3	Gas membrane condition	GOOD
1.4	Joining tape product	N/A ALL JOINTS HEAT SEALED. DETAILS ARE PREMSEAL GMA
1.5	Lapping design	MIN 100MM OVERLAP
1.6	Laps, welds and joints seals	ALL WELDED OR DETAIL SEAL
1.7	Service entries seals	PREMSEAL GMA DETAILS – GOOD
2	*Passive venting*	
2.1	Sub-floor void	N/A – NOT SEEN
2.2	External wall airbricks	PRESENT AT 1-3m INTERVALS. PERISCOPES SEALED
2.3	Internal sleeper walls	GOOD
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A
3	*Active venting*	
3.1	System details	N/A

Additional Notes:

PLOT 7 – 1 SMALL PATCH IN MAIN BUILDING. 1 SMALL IN GARAGE
N.B. VENTING NOT PRESENT IN GARAGE.

PLOT 6 – 1 SMALL PATCH NEXT TO SERVICE DETAIL.
N.B. VENTING NOT PRESENT IN GARAGE

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) - size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel - gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	Description

The gas protection measures inspected:	a) Are acceptable and comply with the specification ✓
	b) Are acceptable but attention is drawn to issues related to item no. xxx
	c) Are not acceptable due to the issues related to item no. xxx

Engineer Name:	—	Signature:		Date:	
Checker Name:	DAVID PETHICA	Signature:		Date:	20/4/18

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	KESTRICL PARK, BURSLEDON	Weather at time of inspection:	OVERCAST, COLD
Job number:	C-06162-C	Gas characteristic situation:	CS2
Plot Number(s):	P8	Type of development and building/block checked:	(residential) / commercial / other
Date:	23/11/2018	Building description:	LOW RISE
Visit by:	DAVID PETHICA	Foundation type:	(suspended floor) / raft / other
Checked by:	DAVID PETHICA	Gas protection type:	(passive) / active

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A - NOT SEEN
1.2	Gas membrane type	JUTA GP1
1.3	Gas membrane condition	GOOD
1.4	Joining tape product	ALL JOINTS HEAT SEALED. PREMSEAL GMA USED FOR DETAILS.
1.5	Lapping design	100mm MINIMUM
1.6	Laps, welds and joints seals	GOOD - PREMSEAL GMA/ HEAT WELD
1.7	Service entries seals	TOPHATS WITH PREMSEAL GMA.
2	***Passive venting***	
2.1	Sub-floor void	PRESENT BUT NOT INSPECTED.
2.2	External wall airbricks	PRESENT 1-3m INTERVALS
2.3	Internal sleeper walls	N/A
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A
3	***Active venting***	
3.1	System details	—
Additional Notes:		
NO DEFECTS NOTED. MEMBRANE + DETAILS IN GOOD CONDITION.		

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	(a) Are acceptable and comply with the specification ✓
	b) Are acceptable but attention is drawn to issues related to item no. xxx
	c) Are not acceptable due to the issues related to item no. xxx

Engineer Name:	—	**Signature:**		**Date:**	
Checker Name:	DAVID PETHICA	**Signature:**		**Date:**	23/11/18

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	9-10
Date:	03/12/2018
Checked by:	DAVID PETHICA

Weather at time of inspection:	Showers, Overcast sunny spells
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Low Rise.
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A – NOT SEEN
1.2	Gas membrane type	JUTTA GP1
1.3	Gas membrane condition	GOOD
1.4	Joining tape product	ALL JOINTS HEAT WELDED. DETAILS – PREMSEAL GMA
1.5	Lapping design	100mm MINIMUM
1.6	Laps, welds and joints seals	HEAT SEALED. DETAILS – PREMSEAL GMA
1.7	Service entries seals	TOPHAT WITH PREMSEAL GMA
2	***Passive venting***	
2.1	Sub-floor void	N/A – PRESENT BUT NOT INSPECTED
2.2	External wall airbricks	PRESENT 1-3m INTERVALS
2.3	Internal sleeper walls	GOOD CONDITION
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A – NOT INSPECTED

Additional Notes:

PLOT 9 – 2NO SMALL PATCHES. PREMSEAL GMA.
1NO IN CETRAL SOUTH OF PLOT
1NO BY SLEEPER WALL IN SOUTH OF PLOT.

PLOT 10 – NO DEFECTS NOTED

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	DAVID PETHICA	Signature:		Date:	03/12/18

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	11 – 13
Date:	3/12/18
Checked by:	DAVID PETHICA

Weather at time of inspection:	OVERCAST → PATCHY CLOUD
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	LOW RISE
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A – NOT INSPECTED
1.2	Gas membrane type	JUTA GP1
1.3	Gas membrane condition	GOOD
1.4	Joining tape product	ALL JOINTS HEAT SEALED
1.5	Lapping design	100mm MINIMUM
1.6	Laps, welds and joints seals	HEAT SEALED. DETAILS ARE PRENSEAL GMA
1.7	Service entries seals	TOPHAT DETAIL WITH PRENSEAL GMA.
2	***Passive venting***	
2.1	Sub-floor void	N/A – PRESENT BUT NOT INSPECTED.
2.2	External wall airbricks	PRESENT AT 1-3m INTERVALS
2.3	Internal sleeper walls	GOOD CONDITION
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A – NOT INSPECTED

Additional Notes:

PLOT 11 – NO DEFECTS NOTED

PLOT 12 – ONE SMALL PATCH IN WEST OF PLOT BY SLEEPER WALL.

PLOT 13 – ONE SMALL PATCH IN EAST OF PLOT.

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	DAVID PETTICH	**Signature:**		**Date:**	03/12/18

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	KESTREL PARK, BURSLEDON	Weather at time of inspection:	OVERCAST, COLD
Job number:	C-08162-C	Gas characteristic situation:	CS2
Plot Number(s):	P14 – P17	Type of development and building/block checked:	(residential) / commercial / other
Date:	23 / 11 / 2018	Building description:	LOW RISE
Visit by:	DAVID PETHICA	Foundation type:	(suspended floor) / raft / other
Checked by:	DAVID PETHICA	Gas protection type:	(passive) / active

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A – NOT INSPECTED / SEEN
1.2	Gas membrane type	JUTA GP2
1.3	Gas membrane condition	GOOD
1.4	Joining tape product	ALL JOINTS HEAT SEALED. DETAILS ARE PREMSEAL GMA
1.5	Lapping design	100mm MINIMUM
1.6	Laps, welds and joints seals	HEAT SEALED / PREMSEAL GMA – GOOD
1.7	Service entries seals	PREMSEAL GMA – GOOD. TOPHAT DETAILS.
2	***Passive venting***	
2.1	Sub-floor void	PRESENT – NOT INSPECTED
2.2	External wall airbricks	PRESENT 1-3m INTERVALS
2.3	Internal sleeper walls	PLOTS 15 – 17
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A
3	***Active venting***	
3.1	System details	—

Additional Notes:

P14 – 1 SMALL PATCH BY SLEEPER WALL. COMPLETED ✓
P15 – NO DEFECTS NOTED
P16 – NO DEFECTS NOTED
P14 – NO DEFECTS NOTED

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification ✓
	b) Are acceptable but attention is drawn to issues related to item no. xxx
	c) Are not acceptable due to the issues related to item no. xxx

Engineer Name:	—	**Signature:**		**Date:**	
Checker Name:	DAVID PETHICA	**Signature:**	[signature]	**Date:**	23/11/18

FAIL 25, 26, 28

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	25-28
Date:	10/12/2018
Checked by:	Andrew James

Weather at time of inspection:	Dry, cloudy, cold, standing rainwater
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential / ~~commercial~~ / ~~other~~
Building description:	Semi-detached low rise houses
Foundation type:	suspended floor / ~~raft~~ / ~~other~~
Gas protection type:	passive / ~~active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A Not visible
1.2	Gas membrane type	JuTA GP1
1.3	Gas membrane condition	Good
1.4	Joining tape product	PremSeal GMA self adhesive tape
1.5	Lapping design	Minimum 150mm overlap
1.6	Laps, welds and joints seals	All heat-welded and taped
1.7	Service entries seals	Sealed with tape
2	***Passive venting***	
2.1	Sub-floor void	N/A Not visible - Minimum 225mm design
2.2	External wall airbricks	Generally every 1-2m
2.3	Internal sleeper walls	N/A Not visible
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A

Additional Notes:

25 - Wind lifted membrane at southern end, needs re-doing

26 - Wind damage as 25, gravel spread across north west corner, needs clean up

27 - All fine

28 - Wind damage at southern end

NB pick test not suitable for welded joints

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no. See notes - Plots 25, 26, 28	✓

Engineer Name:	Andrew James	**Signature:**	AJames	**Date:**	10/12/2018

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	25, 26, 28 - reinspection
Date:	14/12/2018
Checked by:	Andrew James

Weather at time of inspection:	Cold, dry, frosty/icy, no wind
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Low-rise Semi-detached houses
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A Not visible
1.2	Gas membrane type	JuTA GP1
1.3	Gas membrane condition	Good - frosty and icy but previously seen
1.4	Joining tape product	PremSeal GMA
1.5	Lapping design	Minimum 100mm overlap
1.6	Laps, welds and joints seals	All heat-welded / sealed with tape
1.7	Service entries seals	Sealed with tape
2	***Passive venting***	
2.1	Sub-floor void	N/A Not visible Minimum 225mm design
2.2	External wall airbricks	Generally 1-2m Spacing
2.3	Internal sleeper walls	N/A Not visible - beneath membrane
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A
Additional Notes:		

Welded joints not suitable for pick test

Plot 27 previously validated.

Inspection today primarily to check repair from previous wind damage.

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	Andrew James	**Signature:**	AJames	**Date:**	14/12/2018

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	30 - 31
Date:	16/01/2019
Checked by:	Andrew James

Weather at time of inspection:	Cold, wet, breezy
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Semi - detached houses
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A Not visible
1.2	Gas membrane type	JuTA GP1
1.3	Gas membrane condition	Good
1.4	Joining tape product	PremSeal GMA Self-adhesive tape
1.5	Lapping design	Minimum 100mm overlap
1.6	Laps, welds and joints seals	All heat-welded and sealed, tape added as needed
1.7	Service entries seals	All taped/sealed
2	***Passive venting***	
2.1	Sub-floor void	N/A Not visible. Minimum 225mm design
2.2	External wall airbricks	Generally 1-2m spacing
2.3	Internal sleeper walls	N/A Not visible - membrane over
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A Not visible
Additional Notes:		

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	Andrew James	**Signature:**	AJames	**Date:**	16/01/2019

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	37-38
Date:	13/02/2019
Checked by:	Andrew James

Weather at time of inspection:	Cold, dry, part cloudy
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Semi - detached houses
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A - Not seen
1.2	Gas membrane type	JuTA GP1
1.3	Gas membrane condition	Good
1.4	Joining tape product	PremSeal GMA self-adhesive tape
1.5	Lapping design	Minimum 100mm overlap
1.6	Laps, welds and joints seals	All suitably lapped, taped/welded + sealed
1.7	Service entries seals	Taped/Sealed
2	***Passive venting***	
2.1	Sub-floor void	N/A - Not seen design minimum 225mm clear void
2.2	External wall airbricks	Generally every 1-2m
2.3	Internal sleeper walls	N/A - Not seen
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A

Additional Notes:

Welded joints not suitable for prick test.

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	Andrew James	**Signature:**	A James	**Date:**	13/02/2019

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	PLOT 43-45
Date:	22/02/19
Checked by:	DAP

Weather at time of inspection:	CLOUDY, DAMP
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	RESIDENTIAL
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A. (Not inspected)
1.2	Gas membrane type	JUTA GP1
1.3	Gas membrane condition	GOOD
1.4	Joining tape product	PREMSEAL GMA
1.5	Lapping design	100mm MINIMUM
1.6	Laps, welds and joints seals	HEAT SEALED. DETAILS ARE PREMSEAL GMA
1.7	Service entries seals	GOOD. PREMSEAL GMA
2	***Passive venting***	
2.1	Sub-floor void	N/A. NOT INSPECTED. DESIGN 225mm CLEAR
2.2	External wall airbricks	1-3m INTERVALS.
2.3	Internal sleeper walls	N/A. NOT SEEN
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A.

Additional Notes:

PLOT 43 - SMALL PATCH ON SLEEPER WALL WITH P44 ✓

PLOT 44 - SMALL PATCH ON SLEEPER WALL WITH P45 ✓

PLOT 45 - SMALL PATCH ON EASTERN MOST WALL ✓

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	DAVID PETRICA	**Signature:**		**Date:**	

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	PLOT 46
Date:	22/02/19
Checked by:	DAP

Weather at time of inspection:	CLOUDY, DAMP
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	RESIDENTIAL
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A
1.2	Gas membrane type	JUTA 490
1.3	Gas membrane condition	GOOD
1.4	Joining tape product	PREMSEAL GMA
1.5	Lapping design	100mm MIN
1.6	Laps, welds and joints seals	HEAT SEALED. DETAILS ARE PREMSEAL GMA
1.7	Service entries seals	GOOD - PREMSEAL GMA.
2	***Passive venting***	
2.1	Sub-floor void	N/A . DESIGN 225mm
2.2	External wall airbricks	1-3m INTERVALS.
2.3	Internal sleeper walls	N/A
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	NOT INSPECTED.
Additional Notes:		
PLOT 46 - GOOD ✓		

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	DAVID PETTICA	**Signature:**		**Date:**	22/02/19

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	52
Date:	22/02/19
Checked by:	DAP

Weather at time of inspection:	FOGGY, COLD
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	RESIDENTIAL
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A
1.2	Gas membrane type	JUTA GP1
1.3	Gas membrane condition	GOOD
1.4	Joining tape product	PREMSEAL GMA
1.5	Lapping design	100mm MINIMUM
1.6	Laps, welds and joints seals	HEAT SEALED. DETAILS IN PREMSEAL GMA
1.7	Service entries seals	GOOD – PREMSEAL DETAILS
2	***Passive venting***	
2.1	Sub-floor void	NOT INSPECTED. DESIGN 225mm CLEAR
2.2	External wall airbricks	1-3m INTERVALS.
2.3	Internal sleeper walls	~~GOOD~~ – BORDERING PLOT 51
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A
Additional Notes:		

PLOT 52 - GOOD ✓

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	DAVID PETRICA	Signature:		Date:	22/02/19

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	PLOT 55
Date:	22/02/19
Checked by:	DAP

Weather at time of inspection:	CLOUDY, DAMP
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	RESIDENTIAL
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	NOT INSPECTED
1.2	Gas membrane type	JUTA GP1
1.3	Gas membrane condition	GOOD
1.4	Joining tape product	PREMSEAL GMA
1.5	Lapping design	100mm MINIMUM
1.6	Laps, welds and joints seals	HEAT WELDED. DETAILS ARE PREMSEAL GMA
1.7	Service entries seals	GOOD - PREMSEAL GMA DETAIL.
2	***Passive venting***	
2.1	Sub-floor void	NOT INSPECTED. DESIGN 225mm CLEAR.
2.2	External wall airbricks	1-3m INTERVALS.
2.3	Internal sleeper walls	N/A
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	NOT INSPECTED.
Additional Notes:		
PLOT 55 - GOOD ✓		

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	DAVID FETHICK	**Signature:**		**Date:**	22/02/19

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	56 - 59
Date:	1/3/19
Checked by:	Mistanmy Wood

Weather at time of inspection:	Overcast
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Residential
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A Not inspected
1.2	Gas membrane type	Juta GP1
1.3	Gas membrane condition	Good
1.4	Joining tape product	Premseal GMA
1.5	Lapping design	Min 100mm overlap
1.6	Laps, welds and joints seals	Heat sealed
1.7	Service entries seals	Good. Premseal GMA
2	***Passive venting***	
2.1	Sub-floor void	N/A
2.2	External wall airbricks	1-3m intervals
2.3	Internal sleeper walls	N/A
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A

Additional Notes:

59 - Brickwork failing around vent on Southern wall (garden side). Mortar also evading out from brickwork on west wall.

58 - OK. 1 patch

57 - Brickwork failing around vent on South wall. +1 patch

56 - Ok.

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	Llyfarny Wood	**Signature:**		**Date:**	01/03/19

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	60 - 62
Date:	11 / 04 / 19
Checked by:	David Pethica

Weather at time of inspection:	PATCHY CLOUD. COOL
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	LOW RISE
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	NOT SEEN / INSPECTED
1.2	Gas membrane type	JUTA GP1
1.3	Gas membrane condition	GOOD
1.4	Joining tape product	ALL JOINTS HEAT SEALED. DETAILS WITH PREMSEAL GMA
1.5	Lapping design	100mm MINIMUM
1.6	Laps, welds and joints seals	GOOD - HEAT SEALED / PREMSEAL GMA
1.7	Service entries seals	GOOD - TOPHAT DETAILS WITH PREMSEAL GMA
2	***Passive venting***	
2.1	Sub-floor void	NOT INSPECTED BUT PRESENT
2.2	External wall airbricks	PRESENT 1-3m INTERVALS
2.3	Internal sleeper walls	GOOD
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	NOT INSPECTED

Additional Notes:

P60 - MEDIUM SIZED PATCH NEAR NORTHERN EDGE ✓ GOOD
- PORTION OF BRICKWORK MISSING ON WEST ELEVATION

P61 - SMALL PATCH ON EASTERN EDGE ✓ GOOD.

P62 - SMALL PATCH BY SERVICE ENTRY NR. SOUTHERN EDGE ✓ GOOD.

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	DAVID PETTIGA	**Signature:**		**Date:**	11/04/19

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	65 - 66
Date:	11/4/19
Checked by:	David Pethica

Weather at time of inspection:	PATCHY CLOUD. COOL
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	SEMI DET. LOW RISE
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	NOT SEEN / INSPECTED
1.2	Gas membrane type	JUTA GP1
1.3	Gas membrane condition	GOOD.
1.4	Joining tape product	HEAT WELDED / DETAILS WITH PREMSEAL GMA
1.5	Lapping design	100mm MINIMUM
1.6	Laps, welds and joints seals	PREMSEAL GMA / HEAT SEALED. GOOD
1.7	Service entries seals	GOOD - TOPHAT DETAILS WITH PREMSEAL GMA
2	***Passive venting***	
2.1	Sub-floor void	NOT SEEN BUT PRESENT.
2.2	External wall airbricks	PRESENT @ 1 - 3m INTERVALS
2.3	Internal sleeper walls	GOOD.
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	NOT SEEN.

Additional Notes:

P65 - Small patch on NE edge of membrane ✓

P66 - Small patch on SW edge of membrane ✓

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	DAVID PETHICA	**Signature:**		**Date:**	11/04/19

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	67, 69
Date:	23/05/19
Checked by:	Andrew ~~James~~
	Myfanwy Wood

Weather at time of inspection:	Sunny
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Resi
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	~~Good~~ N/A Not inspected
1.2	Gas membrane type	Supa SP1
1.3	Gas membrane condition	Good
1.4	Joining tape product	Premseal GMA
1.5	Lapping design	Min 100mm overlap
1.6	Laps, welds and joints seals	Heat ~~welded~~ sealed
1.7	Service entries seals	Premseal GMA
2	***Passive venting***	
2.1	Sub-floor void	N/A
2.2	External wall airbricks	Spaced 1-3m.
2.3	Internal sleeper walls	N/A
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A

Additional Notes:

67- ~~S~~ wooden beam + nails on surface.
No gaps.
Brickwork look around vent on left of plot

69- No patchs

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	
	b) Are acceptable but attention is drawn to issues related to item no. debris on surface	1.3
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	MYRANN WOOD	**Signature:**		**Date:**	23/8/19

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	71 - 72
Date:	23/05/18
Checked by:	Andrew James M. WOOD

Weather at time of inspection:	Sunny
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Roi
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A Not inspected
1.2	Gas membrane type	Sika GP1
1.3	Gas membrane condition	Good
1.4	Joining tape product	Premseal GMA
1.5	Lapping design	Min 100mm overlap
1.6	Laps, welds and joints seals	Heat sealed
1.7	Service entries seals	Premseal GMA
2	***Passive venting***	
2.1	Sub-floor void	N/A Not inspected
2.2	External wall airbricks	1-3m intervals
2.3	Internal sleeper walls	N/A
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A

Additional Notes:

71 - ~~Rear~~ Tear at rear of plot. Approx 40cm long. Needs repairing.
Membrane seems ill-fitting on left side, possibly due to breeze block + bricks to hold it down + wind.

72 - small patch on rear edge of plot.

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	1.3

Engineer Name:	MYFANWY WOOD	**Signature:**	MWood	**Date:**	23/5/19

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	73
Date:	23/05/19
Checked by:	Andrew James
	M Wood

Weather at time of inspection:	Sunny
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Roof
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	*Gas membrane*	
1.1	Condition of sub-grade and underside of gas membrane	N/A Not inspected
1.2	Gas membrane type	Suta 6P1
1.3	Gas membrane condition	Good
1.4	Joining tape product	Premseal GMA
1.5	Lapping design	Min 100mm overlap
1.6	Laps, welds and joints seals	Heat sealed
1.7	Service entries seals	Premseal GMA
2	*Passive venting*	
2.1	Sub-floor void	N/A Not inspected
2.2	External wall airbricks	1-3m intervals
2.3	Internal sleeper walls	N/A
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A

Additional Notes:

73 - membrane seems relatively taught on left hand side. Possibly due to the presence of ~~under~~ breeze block + bricks to keep down.

~~Seems taut not baggy, Pulled either~~ ~~pipe or left slack, Site work...~~

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	MYANNU WOOD	**Signature:**		**Date:**	23/5/19

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	77
Date:	07/06/19
Checked by:	~~Andrew James~~ M.WOOD

Weather at time of inspection:	Overcast (Heavy rain in AM)
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Resi
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A Not inspected
1.2	Gas membrane type	Juta 6P1
1.3	Gas membrane condition	Good
1.4	Joining tape product	Premseal 6MA
1.5	Lapping design	Min 100mm overlap
1.6	Laps, welds and joints seals	Heat sealed
1.7	Service entries seals	Premseal 6MA
2	***Passive venting***	
2.1	Sub-floor void	N/A Not inspected
2.2	External wall airbricks	1-3m internally
2.3	Internal sleeper walls	N/A
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A
Additional Notes:		
1 patch near rear left corner.		

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	M.WOODS	**Signature:**	M Wood	**Date:**	7/6/19

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	74 - 76
Date:	07/06/19
Checked by:	~~Andrew James~~ M. WOOD

Weather at time of inspection:	Overcast (Heavy rain in AM)
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Resi
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A Not inspected
1.2	Gas membrane type	Juta GP1
1.3	Gas membrane condition	Good
1.4	Joining tape product	Premseal GMA
1.5	Lapping design	Min 100mm overlap
1.6	Laps, welds and joints seals	Heat sealed
1.7	Service entries seals	Premseal GMA
2	***Passive venting***	
2.1	Sub-floor void	N/A Not inspected
2.2	External wall airbricks	1-3m1 intervals
2.3	Internal sleeper walls	N/A
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A

Additional Notes:

74 -
75 - } No issues. All quite Plotcem.
76 -

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	M. WOODS	**Signature:**	M Woods	**Date:**	7/6/19

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	94 - 96
Date:	08/01/2019
Checked by:	DAVID PETHICA

Weather at time of inspection:	CLEAR + COOL
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	LOW RISE
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A NOT INSPECTED
1.2	Gas membrane type	JUTA QP1
1.3	Gas membrane condition	GOOD
1.4	Joining tape product	ALL JOINTS HEAT SEALED. DETAILS C. PREMSEAL GMA
1.5	Lapping design	100mm MIN
1.6	Laps, welds and joints seals	HEAT WELDED - GOOD. PREMSEAL GMA
1.7	Service entries seals	GOOD - TOPHATS OF PREMSEAL GMA
2	***Passive venting***	
2.1	Sub-floor void	PRESENT BUT NOT INSPECTED
2.2	External wall airbricks	PRESENT @ 1-3m INTERVALS
2.3	Internal sleeper walls	P94 ONLY. GOOD
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A

Additional Notes:

P94 - 2NO SMALL PATCHES BY SERVICE ENTRY ON SOUTH OF PLOT ✓
1NO SMALL PATCH IN NORTH DUE TO DEBRIS CAUSING DAMAGE

P95 - 1 SMALL PATCH BY SOUTH WEST CORNER. ✓

P96 - NO DEFECTS ✓

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	DAVID PETTICAN	**Signature:**		**Date:**	08/01/19

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	97-98
Date:	08/01/2019
Checked by:	DAVID PETHICA

Weather at time of inspection:	CLEAR + COOL
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	LOW RISE
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A NOT INSPECTED
1.2	Gas membrane type	JUTA GP1
1.3	Gas membrane condition	GOOD
1.4	Joining tape product	ALL JOINTS HEAT SEALED. DETAILS W. PREMSEAL GMA
1.5	Lapping design	100mm MIN
1.6	Laps, welds and joints seals	HEAT WELDED - GOOD. PREMSEAL GMA.
1.7	Service entries seals	GOOD. TOPHATS OF PREMSEAL GMA
2	***Passive venting***	
2.1	Sub-floor void	N/A. NOT INSPECTED, BUT PRESENT
2.2	External wall airbricks	1-3m INTERVALS
2.3	Internal sleeper walls	GOOD. BOTH PLOTS
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A
Additional Notes:		

P97 - No DEFECTS ✓

P98 - One small patch in west of plot. ✓

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	DAVID PETHICA	**Signature:**		**Date:**	08/01/19

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	KESTREL PARK, BURSLEDON	Weather at time of inspection:	OVERCAST, MILD
Job number:	C-08162-C	Gas characteristic situation:	CS2
Plot Number(s):	103 – 105	Type of development and building/block checked:	residential / commercial / other
Date:	15/11/18	Building description:	LOW RISE HOUSES
Visit by:	DAVID PETHICA	Foundation type:	suspended floor/ raft / other
Checked by:	DAVID PETHICA	Gas protection type:	passive / active

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A – NOT SEEN
1.2	Gas membrane type	JUTA GP1
1.3	Gas membrane condition	GOOD
1.4	Joining tape product	N/A. ALL JOINTS HEAT WELDED. DETAILS ARE PREMSEAL GMA
1.5	Lapping design	MIN 100mm OVERLAP
1.6	Laps, welds and joints seals	ALL WELDED OR DETAIL SEAL
1.7	Service entries seals	PREMSEAL GMA DETAILS – GOOD
2	***Passive venting***	
2.1	Sub-floor void	N/A – NOT SEEN
2.2	External wall airbricks	PRESENT EVERY 1-3m INTERVAL
2.3	Internal sleeper walls	N/A
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A
3	***Active venting***	
3.1	System details	—

Additional Notes:

PLOT 103 – NO DEFECTS NOTED

PLOT 104 – NO DEFECTS NOTED

PLOT 105 – 1 SMALL PATCH NOTED ✓

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) - size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel - gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	Description

The gas protection measures inspected:	a)	Are acceptable and comply with the specification ✓
	b)	Are acceptable but attention is drawn to issues related to item no. xxx
	c)	Are not acceptable due to the issues related to item no. xxx

Engineer Name:	—	Signature:		Date:	
Checker Name:	DAVID PETHICA	Signature:		Date:	15/11/18

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	KESTREL PARK, BURSLEDON	Weather at time of inspection:	MILD, OVERCAST
Job number:	C-08162-C	Gas characteristic situation:	CS2
Plot Number(s):	106 - 109	Type of development and building/block checked:	residential / commercial / other
Date:	15/11/18	Building description:	LOW RISE
Visit by:	DAVID PETHICA	Foundation type:	suspended floor/ raft / other
Checked by:	DAVID PETHICA	Gas protection type:	passive / active

No.	Item	Comments (see notes)
1	*Gas membrane*	
1.1	Condition of sub-grade and underside of gas membrane	N/A not seen
1.2	Gas membrane type	JUTA GP1
1.3	Gas membrane condition	GOOD
1.4	Joining tape product	N/A. ALL JOINTS HEAT WELDED. DETAILS WITH PREMSEAL GMA
1.5	Lapping design	MIN 100mm OVERLAP
1.6	Laps, welds and joints seals	ALL WELDED OR DETAIL SEAL
1.7	Service entries seals	PREMSEL GMA DETAILS - GOOD
2	*Passive venting*	
2.1	Sub-floor void	N/A - NOT SEEN
2.2	External wall airbricks	PRESENT EVERY 1-3 m INTERVAL
2.3	Internal sleeper walls	107-108 GOOD
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A
3	*Active venting*	
3.1	System details	—
Additional Notes:		
PLOT 106 - NO DEFECTS NOTED PLOT 107 - NO DEFECTS NOTED PLOT 108 - NO DEFECTS NOTED PLOT 109 - 2NO SMALL PATCH REPAIRED - GOOD SEAL		

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) - size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel - gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	Description

The gas protection measures inspected:	a) (Are acceptable and comply with the specification ✓
	b) Are acceptable but attention is drawn to issues related to item no. xxx
	c) Are not acceptable due to the issues related to item no. xxx

Engineer Name:	—	Signature:		Date:	
Checker Name:	DAVID PETHICK	Signature:		Date:	15/11/18

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	110, 112, 111
Date:	20/03/19
Checked by:	M. Wood

Weather at time of inspection:	Overcast, sl. drizzle
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Resi
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A Not inspected
1.2	Gas membrane type	Juta GP1
1.3	Gas membrane condition	Good.
1.4	Joining tape product	Premseal GMA
1.5	Lapping design	Min. 100mm overlap
1.6	Laps, welds and joints seals	Heat sealed
1.7	Service entries seals	Premseal GMA
2	***Passive venting***	
2.1	Sub-floor void	N/A Not inspected
2.2	External wall airbricks	1-3m intervals
2.3	Internal sleeper walls	N/A Not inspected
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A

Additional Notes:

112: Good

111: Some seals not completely attached at edges. engineer called over, ~~Atta~~ Sealed to mid-point OK.

110: Good
Only issue of wind pushing up membrane. Seal still good.

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	M.WOOD	**Signature:**	M.WOOD	**Date:**	20/03/19

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	113, 114, 115
Date:	20/03/19
Checked by:	M. WOOD

Weather at time of inspection:	Overcast
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Resi
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/a Not inspection
1.2	Gas membrane type	Juta GP1
1.3	Gas membrane condition	Good
1.4	Joining tape product	Premseal GMT
1.5	Lapping design	Min. 100mm overlap
1.6	Laps, welds and joints seals	Heatsealed
1.7	Service entries seals	Premseal GMA
2	***Passive venting***	
2.1	Sub-floor void	N/A Not inspected
2.2	External wall airbricks	1-3m intervals
2.3	Internal sleeper walls	N/A
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A

Additional Notes:

113 : Good

114 : Good. 1 patch

115 : Good.

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	M Wood	**Signature:**	M Wood	**Date:**	20/03/19

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	116, 117, 118
Date:	20/03/19
Checked by:	M-WOOD

Weather at time of inspection:	Overcast
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Mai
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A
1.2	Gas membrane type	Jute GP1
1.3	Gas membrane condition	Good
1.4	Joining tape product	Premseal GMA
1.5	Lapping design	Min. 100mm overlap
1.6	Laps, welds and joints seals	Heatsealed
1.7	Service entries seals	Premseal GMA
2	***Passive venting***	
2.1	Sub-floor void	N/A
2.2	External wall airbricks	1-3 m spaced
2.3	Internal sleeper walls	N/A
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A

Additional Notes:

116: Good

117: Good

118: Good

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	M.Wood	Signature:	M.Wood	Date:	20/3/19

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	124-125
Date:	14/12/2018
Checked by:	Andrew James

Weather at time of inspection:	Cold, dry, frosty/icy, no wind
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Low-rise, detached houses
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A Not visible
1.2	Gas membrane type	JuTA GP1
1.3	Gas membrane condition	Good
1.4	Joining tape product	PremSeal GMA
1.5	Lapping design	Minimum 100mm overlap
1.6	Laps, welds and joints seals	All heat-welded/taped
1.7	Service entries seals	All taped/sealed
2	***Passive venting***	
2.1	Sub-floor void	N/A Not visible - minimum 225mm design
2.2	External wall airbricks	Generally 1-2m spacing
2.3	Internal sleeper walls	N/A
2.4	External vent trenches/ducts	N/A not visible
2.5	Cavity Inspection	N/A Not visible

Additional Notes:

To be swept before screed, a little sand/gravel in places sporadically

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	Andrew James	**Signature:**	AJames	**Date:**	14/12/2018

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	127-132 Block B flats
Date:	10/12/2018
Checked by:	Andrew James

Weather at time of inspection:	Dry, cloudy, cold, standing rainwater
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Apartments
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A Not visible
1.2	Gas membrane type	JuTA GP1
1.3	Gas membrane condition	Good
1.4	Joining tape product	PremSeal GMA self-adhesive tape
1.5	Lapping design	Minimum 150mm overlap
1.6	Laps, welds and joints seals	All welded / taped
1.7	Service entries seals	Taped + Sealed
2	***Passive venting***	
2.1	Sub-floor void	N/A Not visible - Minimum 225mm design
2.2	External wall airbricks	Generally every 1-2m
2.3	Internal sleeper walls	N/A Not visible
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A Not visible
Additional Notes:		

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	Andrew James	**Signature:**	JJames	**Date:**	10/12/2018

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	136 – 138
Date:	11/04/19
Checked by:	David Pethica

Weather at time of inspection:	PATCHY CLOUD. COOL
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	LOW RISE
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	NOT INSPECTED
1.2	Gas membrane type	JUTA GP1
1.3	Gas membrane condition	GOOD
1.4	Joining tape product	ALL JOINTS HEAT SEALED. DETAILS WITH PREMSEAL GMA
1.5	Lapping design	100mm MINIMUM
1.6	Laps, welds and joints seals	GOOD – HEAT SEALED / PREMSEAL GMA
1.7	Service entries seals	GOOD – TOPHAT DETAILS WITH PREMSEAL GMA
2	***Passive venting***	
2.1	Sub-floor void	PRESENT BUT NOT INSPECTED
2.2	External wall airbricks	PRESENT @ 1–3m INTERVALS
2.3	Internal sleeper walls	GOOD
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	NOT INSPECTED

Additional Notes:

P136 – 1x SMALL PATCH NR SOUTHERN EDGE

P137 – 2x SMALL PATCHES NEAR NORTHERN EDGE

P138 – GOOD ✓

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	DAVID PETHICA	**Signature:**		**Date:**	11/04/19

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	140 - 141
Date:	07/06/19
Checked by:	~~Andrew James~~ M.WOOD

Weather at time of inspection:	overcast (heavy rain in AM)
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential~~/ commercial / other~~
Building description:	Resi
Foundation type:	suspended floor~~/ raft / other~~
Gas protection type:	passive~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A Not inspected
1.2	Gas membrane type	Juta GP1
1.3	Gas membrane condition	Good
1.4	Joining tape product	Premseal GMT
1.5	Lapping design	Min 100mm overlap
1.6	Laps, welds and joints seals	Heat sealed
1.7	Service entries seals	Premseal GMA
2	***Passive venting***	
2.1	Sub-floor void	N/A Not inspected
2.2	External wall airbricks	1-3m intervals
2.3	Internal sleeper walls	N/A
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A

Additional Notes:

140 - No issues

141 - No issues.
Quite flooded.

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	M Wood	**Signature:**	M Wood	**Date:**	7/8/19

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	145-150 Plots Block C
Date:	14/12/2018
Checked by:	Andrew James

Weather at time of inspection:	Cold, dry, frosty/icy, no wind
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Apartment block
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A Not visible
1.2	Gas membrane type	JuTA GP1
1.3	Gas membrane condition	Good
1.4	Joining tape product	PremSeal GMA
1.5	Lapping design	Minimum 100mm overlap
1.6	Laps, welds and joints seals	All heat-welded, taped + sealed
1.7	Service entries seals	All taped/sealed
2	***Passive venting***	
2.1	Sub-floor void	N/A Not visible - minimum 225mm design
2.2	External wall airbricks	Generally 1-2m
2.3	Internal sleeper walls	N/A Not visible
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A Not visible
Additional Notes:		
151 - FOG unit (first floor)		

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	Andrew James	**Signature:**	AJames	**Date:**	14/12/2018

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	152 - 155
Date:	10/12/2018
Checked by:	Andrew James

Weather at time of inspection:	Dry, cloudy, cold, some rainwater left
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Semi detached low-rise houses
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A Not visible
1.2	Gas membrane type	JuTA GP1
1.3	Gas membrane condition	Good
1.4	Joining tape product	PremSeal GMA self adhesive tape
1.5	Lapping design	Minimum 150mm overlap
1.6	Laps, welds and joints seals	All welded + taped
1.7	Service entries seals	Taped/sealed
2	***Passive venting***	
2.1	Sub-floor void	N/A Not visible - Minimum 225mm design
2.2	External wall airbricks	Generally every 1-2m
2.3	Internal sleeper walls	N/A Not visible
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A Not visible
Additional Notes:		
NB - welded membranes not suitable for pick test		

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	Andrew James	**Signature:**		**Date:**	10/12/2018

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	161 - 159
Date:	1/3/19
Checked by:	MW

Weather at time of inspection:	Overcast
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Residential
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A Not inspected
1.2	Gas membrane type	Scuba 6P1
1.3	Gas membrane condition	Good
1.4	Joining tape product	Premseal 5MA
1.5	Lapping design	Min. 100mm overlap
1.6	Laps, welds and joints seals	Heat sealed
1.7	Service entries seals	Good Premseal 5MA
2	***Passive venting***	
2.1	Sub-floor void	N/A Not inspected
2.2	External wall airbricks	1-3m intervals
2.3	Internal sleeper walls	N/A Not inspected
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A

Additional Notes:

Plot 161 - Back wall between 161-160, bricks are unfinished. Seals however, secure.

Plot 160 - One vent missing on back wall. (hole but no vent)

Plot 159 - 1 patch installed prior to arrival.

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	Stefanus Wood	**Signature:**		**Date:**	01/03/19

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	177-179, 163-165
Date:	14/11/2018 14:00
Checked by:	Andrew James

Weather at time of inspection:	Sunny, dry, mild
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	detached low-rise houses
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A - Not seen
1.2	Gas membrane type	JuTA GP1
1.3	Gas membrane condition	Good
1.4	Joining tape product	PremSeal GMA self adhesive type, all joints heat welded
1.5	Lapping design	Minimum 100mm overlap
1.6	Laps, welds and joints seals	All suitably overlapped and sealed
1.7	Service entries seals	Taped/sealed
2	***Passive venting***	
2.1	Sub-floor void	N/A - Not seen Minimum 225mm, clear void
2.2	External wall airbricks	Generally every 1-2m
2.3	Internal sleeper walls	N/A - Not seen
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A
Additional Notes:		
Welded joints not suitable for pick test.		

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	Andrew James	**Signature:**	AJ James	**Date:**	14/11/2018

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	166-171 (Flats)
Date:	14/11/2018 15:00
Checked by:	Andrew James

Weather at time of inspection:	Sunny, dry, mild
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Apartment block/flats
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A - Not seen
1.2	Gas membrane type	JuTA GP1
1.3	Gas membrane condition	Good
1.4	Joining tape product	PremSeal GMA
1.5	Lapping design	100mm minimum overlap, heat-welded
1.6	Laps, welds and joints seals	All suitably overlapped and sealed
1.7	Service entries seals	Taped + Sealed
2	***Passive venting***	
2.1	Sub-floor void	N/A - Not seen. Minimum 225mm clear void
2.2	External wall airbricks	Generally 1-2 no
2.3	Internal sleeper walls	N/A - Not seen, 2 present
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A
Additional Notes:		
Welded joints not suitable for pick test.		

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	Andrew James	**Signature:**		**Date:**	14/11/2018

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	173-176
Date:	13/11/2018 08:00
Checked by:	Andrew James

Weather at time of inspection:	Sunny, chilly, damp
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	X2 pairs Semi detached low rise
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A - Not seen
1.2	Gas membrane type	JuTA GP1
1.3	Gas membrane condition	Good
1.4	Joining tape product	PremSeal GMA Self adhesive tape, all joins heat-welded
1.5	Lapping design	Minimum 100mm overlap with heat weld
1.6	Laps, welds and joints seals	All suitably overlapped + heat welded
1.7	Service entries seals	Sealed with tape + heat welded
2	***Passive venting***	
2.1	Sub-floor void	N/A - Not seen design 225mm clear void
2.2	External wall airbricks	Generally every 1-2m
2.3	Internal sleeper walls	N/A - Not seen
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A
Additional Notes:		

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Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	Andrew James	**Signature:**	AJames	**Date:**	13/11/2018

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	180, 200, 199, 198
Date:	24/10/2018 08:00
Checked by:	Andrew James

Weather at time of inspection:	Cold, damp, cloudy
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Low rise houses
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A not visible
1.2	Gas membrane type	JuTA GP1
1.3	Gas membrane condition	Good
1.4	Joining tape product	Self adhesive tape – PremSeal GMA
1.5	Lapping design	100mm heat weld
1.6	Laps, welds and joints seals	35-40mm heat weld, tape used in corners and over perimeters
1.7	Service entries seals	Sealed with tape.
2	***Passive venting***	
2.1	Sub-floor void	N/A Not seen
2.2	External wall airbricks	Every 1-2m generally
2.3	Internal sleeper walls	N/A Not seen. Present on Plt 199-198
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A Stepped and sealed

Additional Notes:

Pick test not suitable for welded joints, fully sealed

Plt 180 - one airbrick fallen out } Gilden to repair / Fixed on site 24/10/18

Plt 200 - one airbrick fallen out

- detached garage, no membrane required

Installer - NEA, Adam

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	Andrew James	**Signature:**	A James	**Date:**	24/10/2018

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	181 - 187
Date:	31/10/2018 14:00
Checked by:	Andrew James

Weather at time of inspection:	Dry, mild, part cloud/sunshine
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Low-rise houses
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A - Not seen
1.2	Gas membrane type	JuTA GP1 (black)
1.3	Gas membrane condition	Good
1.4	Joining tape product	N/A - All joints heat welded, PremSeal GMA for detail
1.5	Lapping design	Minimum 100mm overlap
1.6	Laps, welds and joints seals	All welded or sealed with tape
1.7	Service entries seals	Sealed with self adhesive tape - PremSeal GMA
2	***Passive venting***	
2.1	Sub-floor void	N/A - Not seen
2.2	External wall airbricks	Present every 1-3m, periscopes sealed
2.3	Internal sleeper walls	Plots 184-185 + 186-187 - membrane over, not seen
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A

Additional Notes:

181 - 2x patches required ✓ repaired on site
182 - 1x patch ✓ repaired on site
187 - 1x patch required ✓ repaired on site

} Very minor defects - patched for conservatism

Tidy job, minimal foot traffic over membranes.
Pick test not suitable for welded joints.

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	Andrew James	**Signature:**	AJ James	**Date:**	31/10/2018

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	188
Date:	24/10/2018 12:00
Checked by:	Andrew James

Weather at time of inspection:	Sunny, dry, mild, breezey
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	1st floor flat with bin store and access road at ground level
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A - Not visible
1.2	Gas membrane type	JuTA GP1
1.3	Gas membrane condition	Good
1.4	Joining tape product	PremSeal GMA - self adhesive tape
1.5	Lapping design	100mm overlap with heat weld
1.6	Laps, welds and joints seals	35-40mm heat weld, tape used in corners and over perimeter
1.7	Service entries seals	Sealed with tape
2	***Passive venting***	
2.1	Sub-floor void	N/A - Not seen
2.2	External wall airbricks	None present - bin store + road at ground level.
2.3	Internal sleeper walls	N/A - Not seen
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A - Stepped and sealed.

Additional Notes:

Bin store for Plots 189-197 at ground level - membrane installed + service penetrations sealed.
No air bricks installed.

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	Andrew James	**Signature:**	JAMes	**Date:**	24/10/2018

Hydrock

Visual Inspection of Gas Protection Measures

Site name:	Kestrel Park, Bursledon
Job number:	C-08162-C
Plot Number(s):	189 - 197
Date:	24/10/2018 11:00
Checked by:	Andrew James

Weather at time of inspection:	Dry, Sunny, mild, breezy
Gas characteristic situation:	CS2
Type of development and building/block checked:	residential ~~/ commercial / other~~
Building description:	Flats
Foundation type:	suspended floor ~~/ raft / other~~
Gas protection type:	passive ~~/ active~~

No.	Item	Comments (see notes)
1	***Gas membrane***	
1.1	Condition of sub-grade and underside of gas membrane	N/A - Not visible
1.2	Gas membrane type	JUTA GP1
1.3	Gas membrane condition	Good
1.4	Joining tape product	Self adhesive tape - Premseal GMA
1.5	Lapping design	100mm minimum overlap with welded joints
1.6	Laps, welds and joints seals	35-40mm heat weld, tape used in corners and over perimeter
1.7	Service entries seals	Sealed with tape
2	***Passive venting***	
2.1	Sub-floor void	N/A - Not seen
2.2	External wall airbricks	Generally every 1-2m
2.3	Internal sleeper walls	N/A - Not seen
2.4	External vent trenches/ducts	N/A
2.5	Cavity Inspection	N/A - Stepped / sealed
Additional Notes:		

Pick test not suitable for welded joints, fully sealed.

Attached cycle store not complete

NEA installer - Adam

Hydrock

Inspection Checklist		
1.1	Underside of gas membrane	Check that the sub grade 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.
1.2	Gas membrane type	Manufacturer and product specification, gauge, colour, brand/name, material batch/roll numbers, storage arrangements (protected from dirt/damage?)
1.3	Gas membrane condition	Open punctures, tears, rips, stretching? Excessive footprints/evidence of traffic? Presence of debris? Repairs? Signs of weakness such as raised or sunken indentations? Protection plan in place to restrict access to lain gas membrane?
1.4	Joining tape product	Product type, brand, thickness, material, width, colour? Use of double sided tape?
1.5	Lapping design	Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Sections taped twice?
1.6	Laps and joints sealed	Welds complete? Appropriate joining/double sided tape used?
1.7	Service entries sealed	Top hats seal arrangements fixed around service entries? Use of Jubilee clips?
2.1	Sub-floor void	Is a check possible? Void former? Gravel (type/specification)? Height of void space? Is it clear?
2.2	External wall airbricks	Numbers, size, positions as design drawing?
2.3	Internal sleeper walls	Ventilation holes (honeycomb brickwork/pipe crossings?) – size, spacing, location in accordance with design?
2.4	External vent trenches/ducts	Located and constructed in accordance with design drawings? If open-topped gravel – gravel type/presence of fines? If pipe or other vent, check position and construction for functionality and absence of blockages. Ability of void former to withstand bearing of the superstructure?
2.5	Cavity Inspection	Confirm that the cavity is not blocked with debris, check that there are no rips in the membrane across the cavity and the jointing detail (if present) is fully sealed.
3.1	Active venting	Type of air supply: mechanical, natural, combined? Location/condition/number of fans and vents? Location and size of inlets? Provision of air-cleaning devices and air heaters? Supply and exhaust ductwork? Alarm provision/installation? Gas monitoring system in under-floor void?

Photographs	
No.	**Description**

The gas protection measures inspected:	a) Are acceptable and comply with the specification	✓
	b) Are acceptable but attention is drawn to issues related to item no.	
	c) Are not acceptable due to the issues related to item no.	

Engineer Name:	Andrew James	**Signature:**	JJames	**Date:**	24/10/2018

* Cycle store to be addressed separately