Date: 14th July 2025
Reference: 17-974-V1-2

GAS MEMBRANE VALIDATION – SITE NAME

Project Name:	Manchester Grammar School
Project Number:	17-974
Client:	Lainton Services
Date:	30th September 2024 11th November 2024 4th December 2024
Project Manager:	Andrew Garrity
E3P Engineer:	Jordan James Joe Newall
Plots:	Pavillion

The gas mitigation measures validation site inspection record and associated photographs are enclosed within this letter as a Controlled Quality Assurance (CQA) site data capture record.

FINAL QUALITY ASSURANCE

E3P SITE VALIDATION CQA	QUALIFICATIONS	POSITION
Jordan James Joe Newall	CL:AIRE Course – Verification of Gas Protection Measures	Technician

PREPARED BY	QUALIFICATIONS	POSITION
Andrew Garrity	BSc, MSc, FGS, MIEnvSc, CSci	Principal Consultant

AUTHORISED BY	QUALIFICATIONS	POSITION
Andrew Garrity	Bsc, MSc, FGS, MIEnvSc, CSci	Principal Consultant

E3P Engineer's Site Check Sheet

The engineer check sheet completed whilst on-site during the validation on a plot-by-plot basis is attached, and a complete set of images is presented as evidence. Larger images are presented at the rear of this section.

All information provided within this validation letter report was accurate at the time of construction. E3P operates under the assumption that all data provided by installers is reliable.

TAPED GAS MEMBRANE VALIDATION

Complete

Score	16 / 16 (100%)	**Flagged items**	0	**Actions**	0

Site Name	Manchester Grammar School
Location	Manchester Grammar School, Old Hall Lane Manchester England M13 0XT United Kingdom (53.4486611990019, -2.211802150876988)
Project Manager	Andy Garrity
Project number	17974
Developer	Lainton Services
[redacted]	
Conducted on	30 Sep 2024 8:02 AM BST
Prepared by	Jordan James
Have you got the correct Gas Membrane detail (attached to the job in synergist)?	Yes

Gas Membrane Inspection	15 / 15 (100%)
Plot Inspection	15 / 15 (100%)
Plot Inspection 1	15 / 15 (100%)
Plot Number	Pavilion
Type of Development: if other add Note	Other
Floor Slab Type	Cast in-situ
Are telescopic vents present?	N/A
Gas Membrane Type: Manufacturer, gauge, and colour. (Take photos were possible showing Label)	Sikador 32
Installer's name, company and qualification	Lainton
Gas Membrane Condition: Open punctures, tears, rips, stretching, Presence of debris, Repairs, Signs of weakness such as raised or sunken indentations, Protection plan in place to restrict access to lain gas membrane? IF FAIL DESCRIPTION IN ACTIONS AND PHOTOS REQUIRED	Pass
Laps and joints seals: Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Folds running in line with joints? (no joints cutting across folds)	Pass
Are all joints taped?	Yes

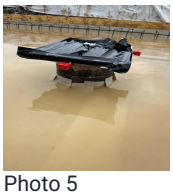

Photo 1

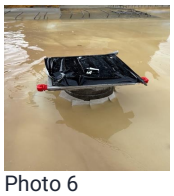

Photo 2


Photo 3

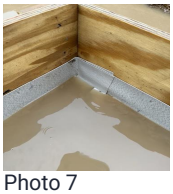

Photo 4

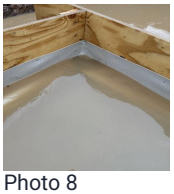
Is appropriate joining/double-sided tape used?	Yes
Are Sections taped twice?	Yes
Service entries seals: Top hats seal arrangements fixed around service entries? Use of Jubilee clips or Bitumastic Sealant	Pass

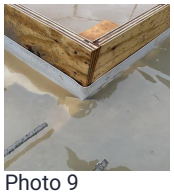

Photo 5

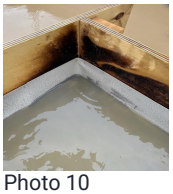

Photo 6

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


Photo 7


Photo 8


Photo 9


Photo 10

Are folds running in line with joints? (no joints cutting across folds)	Pass
Extent of Coverage: Is the membrane covering the entire plot? Does membrane span over outside walls?	Yes


Photo 11


Photo 12


Photo 13


Photo 14

Condition of sub-grade and underside of gas membrane: Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria. (Lift back the membrane and photo the subfloor)	Pass
Slab / membrane condition (is membrane clear of snow, standing water, debris or insulation): Can membrane be fully seen and photographed – ask contractor to remove an debris so membrane can be fully seen an inspected – this is a requirement of NHBC and local authorities.	Pass
External Wall Air bricks: Numbers, size. positions as design drawing? (Minimum of 3 walls)	Pass
Passive Venting	
Sub-floor Void: Is a check possible on future plots (insert Plot number or NO in text box)	N/a

Media summary



Photo 1



Photo 2



Photo 3



Photo 4

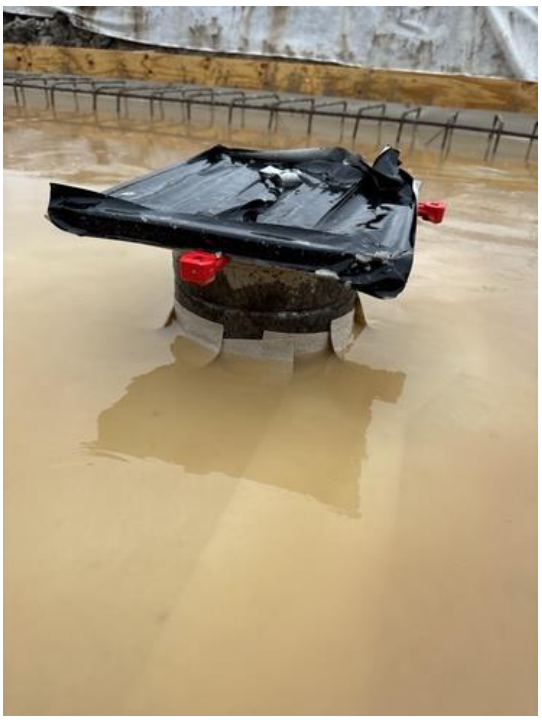


Photo 5



Photo 6



Photo 7



Photo 8



Photo 9



Photo 10



Photo 11



Photo 12



Photo 13



Photo 14

TAPED GAS MEMBRANE VALIDATION

Complete

Score	16 / 16 (100%)	**Flagged items**	0	**Actions**	0

Site Name	Manchester Grammar school
Location	180–298 Old Hall Lane, Rusholme Manchester England M14 United Kingdom (53.447808418211906, -2.2126302906023936)
Project Manager	Andy Garrity
Project number	17974
Developer	Lainton services
Site representative Signature	[redacted] Ian -Lainton Services 11 Nov 2024 10:06 AM GMT
Conducted on	11 Nov 2024 9:52 AM GMT
Prepared by	Jordan James
Have you got the correct Gas Membrane detail (attached to the job in synergist)?	Yes

Gas Membrane Inspection	15 / 15 (100%)
Plot Inspection	15 / 15 (100%)
Plot Inspection 1	15 / 15 (100%)
Plot Number	Pavilion
Type of Development: if other add Note	Other
Floor Slab Type	Cast in-situ
Are telescopic vents present?	N/A
Gas Membrane Type: Manufacturer, gauge, and colour. (Take photos were possible showing Label)	Sikaproof A+ 08 primer ad
Installer's name, company and qualification	Lainton Services
Gas Membrane Condition: Open punctures, tears, rips, stretching, Presence of debris, Repairs, Signs of weakness such as raised or sunken indentations, Protection plan in place to restrict access to lain gas membrane? IF FAIL DESCRIPTION IN ACTIONS AND PHOTOS REQUIRED	Pass
Laps and joints seals: Joints lapped and sealed in accordance with manufacturer's requirements/ specification? Minimum overlap insured? Folds running in line with joints? (no joints cutting across folds)	Pass
Are all joints taped?	Yes


Photo 1


Photo 2


Photo 3

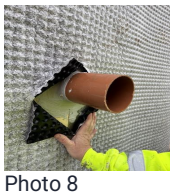

Photo 4

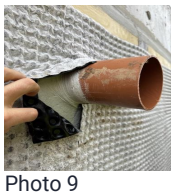

Photo 5

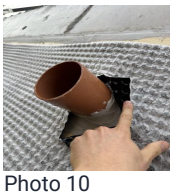

Photo 6

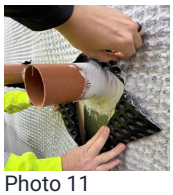
Is appropriate joining/double-sided tape used?	Yes
Are Sections taped twice?	Yes
Service entries seals: Top hats seal arrangements fixed around service entries? Use of Jubilee clips or Bitumastic Sealant	Pass

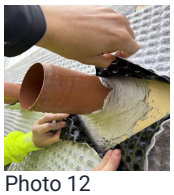

Photo 7


Photo 8


Photo 9


Photo 10


Photo 11


Photo 12

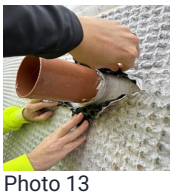
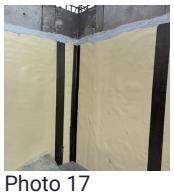

Photo 13


Photo 14

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


Photo 15


Photo 16


Photo 17

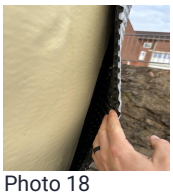

Photo 18

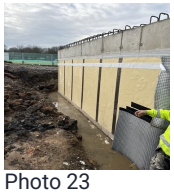

Photo 19

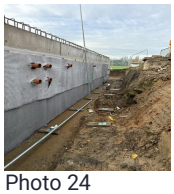

Photo 20

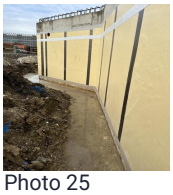
Are folds running in line with joints? (no joints cutting across folds)	Pass
Extent of Coverage: Is the membrane covering the entire plot? Does membrane span over outside walls?	Yes


Photo 21


Photo 22


Photo 23


Photo 24


Photo 25

Condition of sub-grade and underside of gas membrane: Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria. (Lift back the membrane and photo the subfloor)	Pass
Slab / membrane condition (is membrane clear of snow, standing water, debris or insulation): Can membrane be fully seen and photographed – ask contractor to remove an debris so membrane can be fully seen an inspected – this is a requirement of NHBC and local authorities.	Pass
External Wall Air bricks: Numbers, size. positions as design drawing? (Minimum of 3 walls)	Pass

Passive Venting

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

Media summary



Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6



Photo 7



Photo 8



Photo 9



Photo 10



Photo 11



Photo 12



Photo 13



Photo 14



Photo 15



Photo 16



Photo 17



Photo 18



Photo 19



Photo 20



Photo 21



Photo 22



Photo 23



Photo 24



Photo 25

WELDED GAS MEMBRANE VALIDATION

Score	5 / 13 (38.46%)	**Flagged items**	0	**Actions**	0

Site Name	Manchester grammar
Location	122–178 Old Hall Lane, Rusholme Manchester England M14 United Kingdom (53.44732359889341, -2.2092676989854696)
Project Manager	AG
Project number	17974
Developer	Lainton
Site representative Signature	
Conducted on	4 Dec 2024 11:54 AM GMT
Prepared by	Joe Newall
Have you got the correct Gas Membrane detail (attached to the job in synergist)?	Yes

Gas Membrane Inspection	4 / 12 (33.33%)
Plot Inspection	4 / 12 (33.33%)
Plot Inspection 1	4 / 12 (33.33%)
Plot Number	Block -
Type of Development: if other add Note	Commercial
Floor Slab Type	Cast in-situ
Are telescopic vents present?	N/A
Gas Membrane Type: Manufacturer, gauge, and colour. (Take photos were possible showing Label)	Black gas membrane
Installer's name, company and qualification	Laintons
Gas Membrane Condition: Open punctures, tears, rips, stretching, Presence of debris, Repairs, Signs of weakness such as raised or sunken indentations, Protection plan in place to restrict access to lain gas membrane? IF FAIL DESCRIPTION IN ACTIONS AND PHOTOS REQUIRED	Pass


Photo 1


Photo 2


Photo 3


Photo 4


Photo 5


Photo 6


Photo 7


Photo 8


Photo 9


Photo 10


Photo 11


Photo 12


Photo 13


Photo 14


Photo 15


Photo 16


Photo 17


Photo 18


Photo 19


Photo 20


Photo 21

Are welds complete?	Yes
Are Joints lapped and sealed in accordance with manufacturer's requirements/ specification?	Yes
Service entries seals: Top hats seal arrangements fixed around service entries? Use of Jubilee clips or Bitumastic Sealant	Yes
Corners / Internal joints: Check all corners are correctly formed or contractor has used preformed corners.	Yes
Are folds running in line with joints? (no joints cutting across folds)	Yes
Extent of Coverage: Is the membrane covering the entire plot? Does membrane span over outside walls?	Yes
Condition of sub-grade and underside of gas membrane: Check that the subgrade does not contain rough/uneven surfaces, is appropriately clean and that there are no hard/sharp objects. That protective sand blinding or geotextile (if specified) is present and meets the design criteria. (Lift back the membrane and photo the subfloor)	N/A
Slab / membrane condition (is membrane clear of snow, standing water, debris or insulation): Can membrane be fully seen and photographed – ask contractor to remove an debris so membrane can be fully seen an inspected – this is a requirement of NHBC and local authorities.	Yes
External Wall Air bricks: Numbers, size. positions as design drawing? (Minimum of 3 walls)	N/A
Passive Venting	
Sub-floor Void: Is a check possible on future plots (insert Plot number or NO in text box)	N/A

Media summary



Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6



Photo 7



Photo 8



Photo 9



Photo 10



Photo 11



Photo 12



Photo 13



Photo 14



Photo 15



Photo 16



Photo 17



Photo 18



Photo 19



Photo 20



Photo 21