



# GEOSHIELD

## Verification Report



PROJECT REFERENCE:

GEO101021

REPORT NUMBER:

004

REPORT DATE:

01/05/20

PROJECT:

McAlear & Rushe

PROJECT ADDRESS:

101 Charles Street

Manchester

M1 6DD

MEMBRANE SPECIFICATION:

Gas membrane to specification BS8485 2015

Installed to CIRIA 735

Visqueen Geoseal Ultimate

Visqueen GR SAM

Visqueen HP Tanking Primer

Visqueen Retaining Discs

Visqueen Protect and Drain



# GEOSHIELD Verification PLAN



SPECIFICATION:

DRAWINGS ISSUED

S1010\_Foundation GA\_S5-4

Section 32 - Service Trench

TR-10227-A-G251-DE-E1-001

TR-10227-A-G251-DE-E1-002

TR-10227-A-G251-DE-E1-003

TR-10227-A-G251-DE-E1-007\_P2

TR-10227-A-G251-DE-N1-001

TR-10227-A-G251-DE-S1-001

TR-10227-A-G251-DE-W1-001

TR-10227-A-G251-DE-W2-001

TR- Central Core V2

Information presented to at the pre-verification stage assumed correct

Any change client will let GeoShield know or this Pre-verification Plan will be void.





# GEOSHIELD Verification Report



VERIFICATION OFFICER: Chris Ingham

VERIFICATION COMPANY: GeoShield Limited

Icon Business Park, 4100 Park Approach

Thorpe Park, LEEDS

West Yorkshire

LS15 8GB

CONTACT NUMBER: 07555214679

EMAIL ADDRESS: CIngham@geoshield.co.uk

ORDER NUMBER:

PER VISIT: YES:



NO:



PROJECT: YES:



NO:





# GEOSHIELD

## Verification Report



### CLIENT DETAILS

|                 |                      |
|-----------------|----------------------|
| CLIENT CONTACT: | Andy Collins         |
| CONTACTS ROLE:  | Prestige Air         |
| MOBILE PHONE:   | 07789223116          |
| EMAIL ADDRESS:  | Andy@prestigeair.com |



|                 |  |
|-----------------|--|
| CLIENT CONTACT: |  |
| CONTACTS ROLE:  |  |
| MOBILE PHONE:   |  |
| EMAIL ADDRESS   |  |
| NOTES:          |  |
| NOTES:          |  |
| NOTES:          |  |



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## APPLICATION TEAM LEADERS

APPLICATOR NAME: Phil Simmons, Dave Bennett, Kristoph

COMPANY: Prestige Air

APPLICATOR TEL:

APPLICATOR EMAIL:

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APPLICATOR NAME:

COMPANY:

APPLICATOR TEL:

APPLICATOR EMAIL:

NOTES:

NOTES:

NOTES:

NOTES:



# GEOSHIELD Verification Report



AREA SURVEYED:

Gridlines 10.5-11 & A-C

Gridlines 7.5-9 & A-D

SITE CONDITIONS:

# WEATHER:

Overcast

# TEMPERATURE:

8C

# MEMBRANE TEMPERATURE:

N/A

# RELATIVE HUMIDITY:

65

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TIME:

12:30 - 14:30

REPORT NUMBER:

004

DATE:

01/05/2020

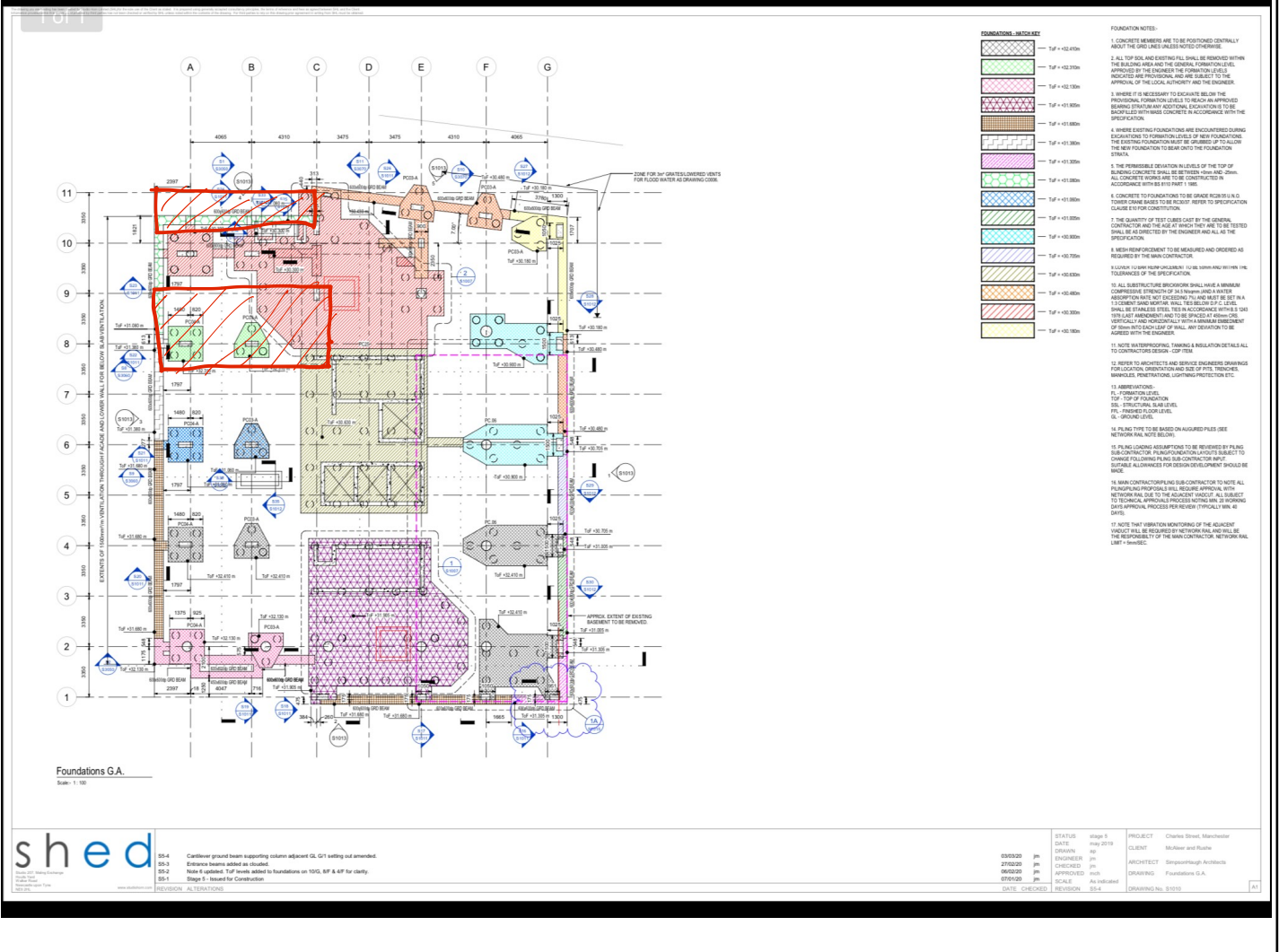
ACCOMPANIED

# GEOSHIELD Verification Report

## VERIFICATION LAYOUT

08:52 Fri 15 May

73%



Gridlines 10.5-11 & A-C and Gridlines 7.5-9 & A-D

Verified in this report as highlighted above



# GEOSHIELD Verification Report

## OVERVIEW PHOTOGRAPHS



Overview of Gridlines 10.5-11 & A-C and Gridlines 7.5-9 & A-D





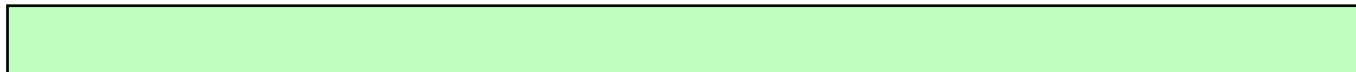
# GEOSHIELD Verification Report



## OVERVIEW PHOTOGRAPHS



Overview of Gridlines 7.5-9 and A-D





# GEOSHIELD Verification Report



## OVERVIEW PHOTOGRAPHS



Gridlines 10.5-11 and A-C



# GEOSHIELD Verification Report

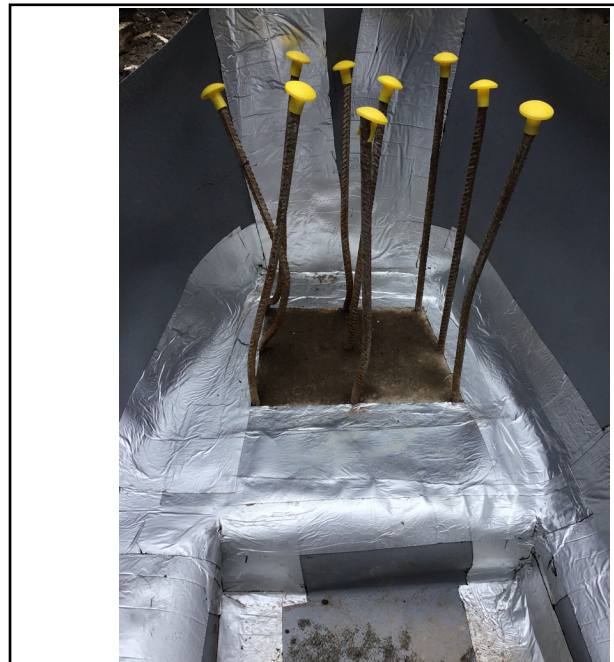
BGA  
British Geomembrane Association



## VERIFICATION ITEM ONE

LOCATION/GRID LINE: Gridlines 10.5-11 and A-C

NOTES: Visqueen Ultimate Geoseal installed beneath ring beam  
with hot welded joints. GR SAM used to seal to top of piles. Corner details reinforced  
with GR SAM. Visual inspection and pick and probe carried out. Excellent installation  
throughout.



1. GR SAM used to seal to top of pile

2. GR SAM used to seal to top of pile



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## VERIFICATION ITEM ONE



3. Corner details reinforced with GR SAM. Excellent installation.

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\_\_\_\_\_

\_\_\_\_\_





# GEOSHIELD Verification Report



## VERIFICATION ITEM TWO

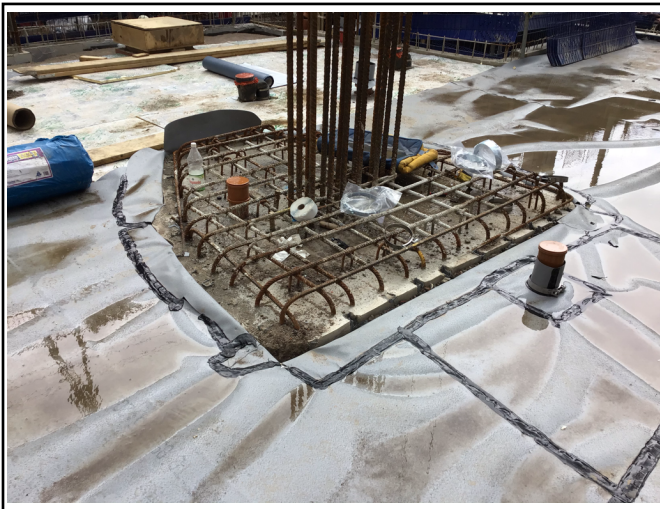
LOCATION/GRID LINE: Gridlines 7.5-9 and A-D

NOTES: Insulation board installed beneath the membrane so soft

substrate prevents punctures. Joints hot welded and then double sealed with

extrusion welded. All works visually inspected and tested with pick and probe.

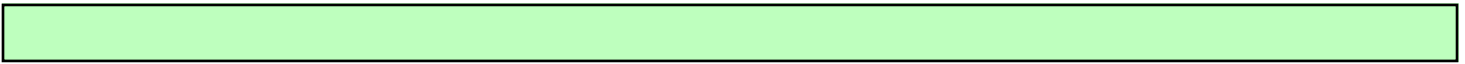
Excellent installation throughout.



1. Visqueen Geoseal linked to previously installed around pile cap.

(Corners to be sealed with GR SAM but works on going)

2. Joints double sealed with hot weld and extrusion welder. Excellent installation.



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## VERIFICATION ITEM TWO



3. Pipe penetrations sealed with pre formed top hats. Again top hats

double sealed with hot weld and extrusion welder. Double sided butyl tape

wrapped around pipe. Excellent installation.





# GEOSHIELD Verification Report

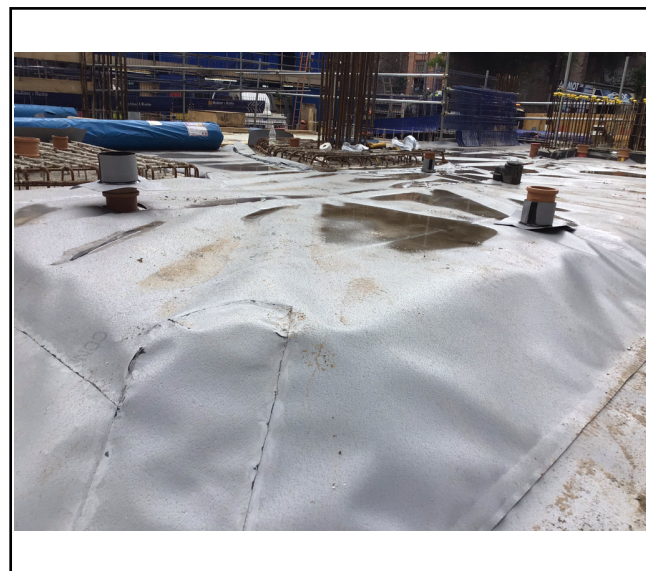


## VERIFICATION ITEM THREE

LOCATION/GRID LINE: Gridlines 7.5-9 and A-D

NOTES: Visqueen Ultimate Geoseal installed with hot welded

joints to meet perimeter seal. Perimeter sealed with GR SAM. Visual inspection and pick and probe test carried out on all joints. Passed and verified.



1. Visqueen Geoseal installed on slope to perimeter

2. Overview of installation.

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## VERIFICATION ITEM THREE



3. Seal to perimeter formed with GR SAM.

Passed and verified.



# GEOSHIELD

## Verification Report



### GAS MEMBRANE TESTING

|                             |                              |                                     |                             |                                     |             |                              |                                     |                             |                                     |
|-----------------------------|------------------------------|-------------------------------------|-----------------------------|-------------------------------------|-------------|------------------------------|-------------------------------------|-----------------------------|-------------------------------------|
| VISUAL:                     | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> | <input type="checkbox"/> NO | <input type="checkbox"/>            | SMOKE TEST: | <input type="checkbox"/> YES | <input type="checkbox"/>            | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| COMPRESSED AIR:             | <input type="checkbox"/> YES | <input type="checkbox"/>            | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> | DILECTIC    | <input type="checkbox"/> YES | <input type="checkbox"/>            | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> |
| DESTRUCTIVE:                | <input type="checkbox"/> YES | <input type="checkbox"/>            | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> | OTHER:      | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> | <input type="checkbox"/> NO | <input type="checkbox"/>            |
| Testing checklist attached: | <input type="checkbox"/> YES | <input type="checkbox"/>            | <input type="checkbox"/> NO | <input type="checkbox"/>            |             |                              |                                     |                             |                                     |

### Gridline/Plot Sign off

|                        |                                |                                     |
|------------------------|--------------------------------|-------------------------------------|
| Gridline/Plot Sign off | Crane Base edges and Core edge | <input checked="" type="checkbox"/> |
| Gridline/Plot Sign off | Pile Cap on A10 and B6         | <input checked="" type="checkbox"/> |
| Gridline/Plot Sign off | Core on D5                     | <input checked="" type="checkbox"/> |
| Gridline/Plot Sign off | Core on D7                     | <input type="checkbox"/>            |
| Gridline/Plot Sign off | Gridline 5-10 A-C              | <input checked="" type="checkbox"/> |
| Gridline/Plot Sign off | Gridlines 7-9.5 and A-D        | <input checked="" type="checkbox"/> |
| Gridline/Plot Sign off | Gridlines 10.5-11 and A-D      | <input checked="" type="checkbox"/> |
| Gridline/Plot Sign off |                                | <input type="checkbox"/>            |
| Gridline/Plot Sign off |                                | <input type="checkbox"/>            |
| Gridline/Plot Sign off |                                | <input type="checkbox"/>            |
| Gridline/Plot Sign off |                                | <input type="checkbox"/>            |
| Gridline/Plot Sign off |                                | <input type="checkbox"/>            |





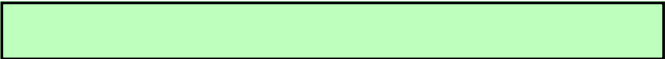
# GEOSHIELD Verification Report



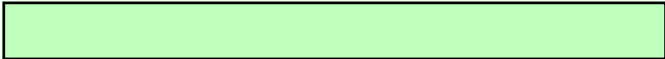
## ADDITIONAL PHOTOGRAPHS



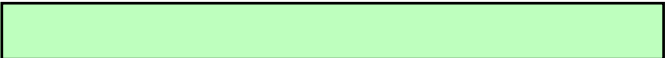
Pick and probe test carried out



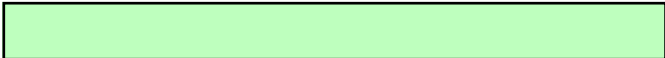
Pick and probe test carried out



Pick and probe test carried out



Pick and probe test carried out



# GEOSHIELD Verification Report

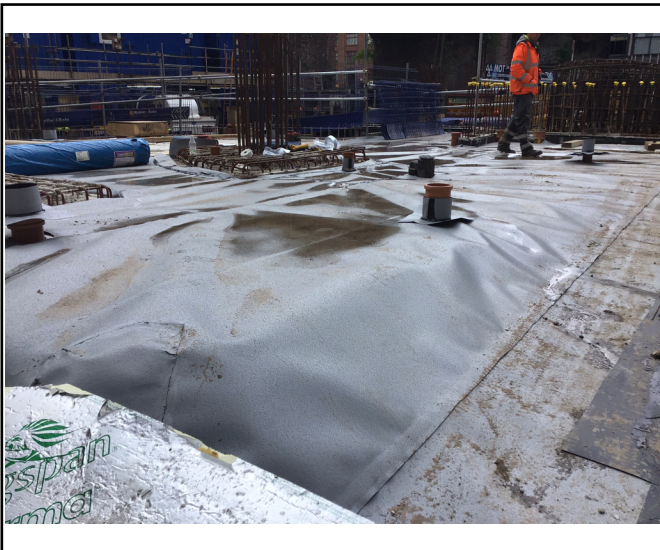
## ADDITIONAL PHOTOGRAPHS



Pick and probe test carried out



Overview of seal to pile cap



Overview of verified installation



Overview of verified installation









# GEOSHIELD Verification Report



## VERIFICATION SUMMARY

Report 004 is for Gridlines 10.5-11 & A-C and Gridlines 7.5-9 & A-D. Visqueen

Ultimate Geoseal installed throughout with Hot Welded joints and double sealed

with extrusion welds. GR SAM used to reinforce corner details and seal to

previously installed GR SAM on R.C. walls. Thorough visual inspection and

pick and probe carried out throughout. Excellent installation.

Passed and verified in accordance with BS8485:2019 and CIRIA 735.

GEOSHIELD SIGNATURE:

DATE: 1st April 2020