



GEOSHIELD Verification Report



PROJECT REFERENCE:

GEO101021

REPORT NUMBER:

003

REPORT DATE:

09/03/20

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



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MEMBRANE SPECIFICATION:

DESIGN DETAILS:

No details issued before verification visit



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VERIFICATION OFFICER: Finlay Todd

VERIFICATION COMPANY: GeoShield Limited

Icon Business Park, 4100 Park Approach

Thorpe Park, LEEDS

West Yorkshire

LS15 8GB

CONTACT NUMBER: 07502343063

EMAIL ADDRESS: Ftodd@geoshield.co.uk

ORDER NUMBER:

PER VISIT: YES:



NO:



PROJECT: YES:



NO:





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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:	
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APPLICATION TEAM LEADERS

APPLICATOR NAME: Phil Simmons, Dave Bennett, Kristoph

COMPANY: Prestige Air

APPLICATOR TEL:

APPLICATOR EMAIL:

APPLICATOR NAME:

COMPANY:

APPLICATOR TEL:

APPLICATOR EMAIL:

NOTES:

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AREA SURVEYED: Grid lines 5-10

SITE CONDITIONS:

WEATHER: Overcast

TEMPERATURE: 4c

MEMBRANE TEMPERATURE: N/A

RELATIVE HUMIDITY: 71

TIME: 11:00 - 12:45 REPORT NUMBER: 003

DATE: 9/03/2020

ACCOMPANIED Chris

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VERIFICATION LAYOUT



Overview of site. The four piles are labelled in blue.

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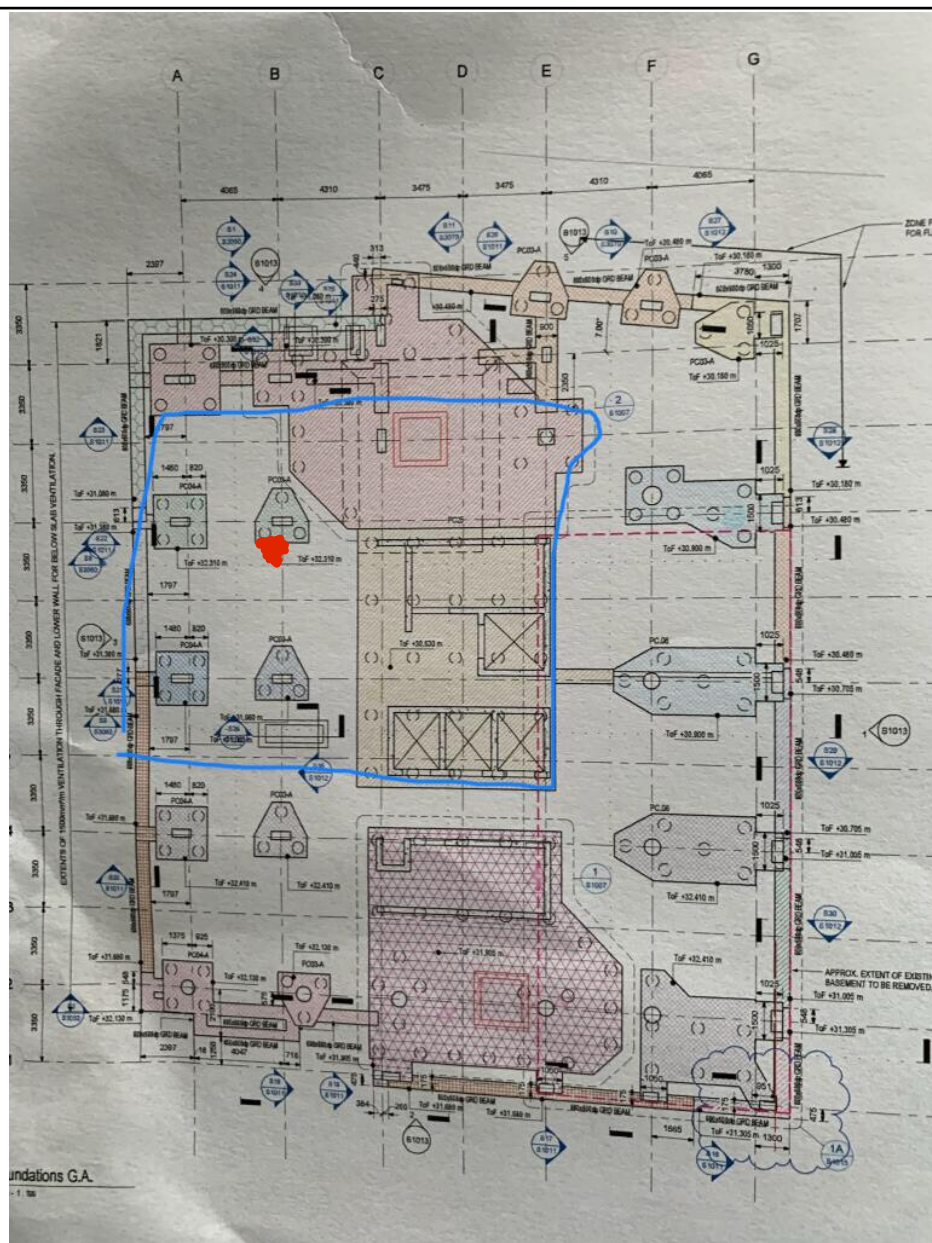
OVERVIEW PHOTOGRAPHS



Overview of Site with Prestige Air working on H Block wall

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OVERVIEW PHOTOGRAPHS



Overview of areas verified

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British Geomembrane Association



VERIFICATION ITEM ONE

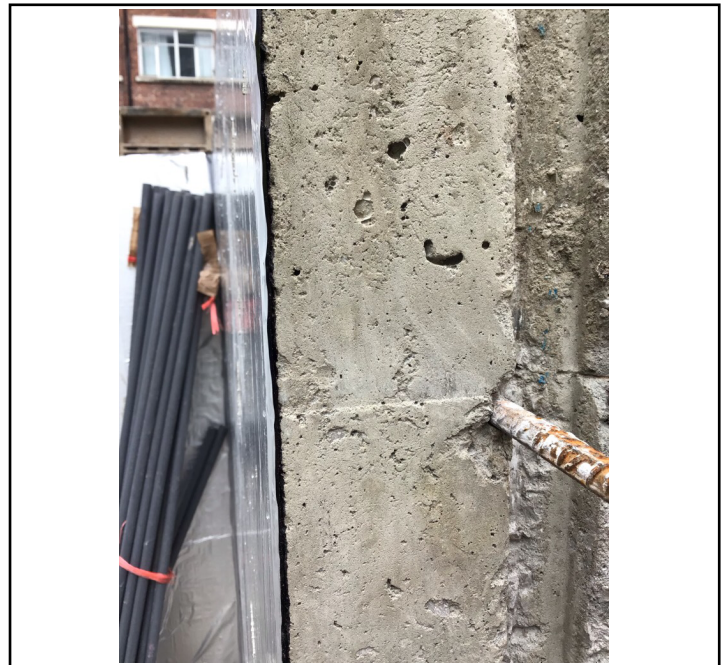
LOCATION/GRID LINE: H Block wall

NOTES: The walls of H Block have been primed with bitumen and

GR SAM has been installed with a 300mm overlapped has been installed onto the
Concrete slab. A pick and probe test was carried out to ensure a good seal.



Left photo) GR SAM installed vertically with 300mm overlap on slab



Right photo) GR SAM sealed to concrete wall

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VERIFICATION ITEM ONE



3. Pick and probe test on GR SAM



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VERIFICATION ITEM TWO

LOCATION/GRID LINE: Pile cap 04-A (Gridline 8)

NOTES: Whilst inspecting the pile caps I noticed a piping had been

Fitted within PC04-A. Due to the steel rebar cage already being fitted, visual inspection

Was limited. The exterior section of piping has been sealed to the Visqueen Geoseal

Ultimate with GR SAM as per specification.



Left photo) section of pipe work within the pile cap

Right photo) overview of pile cap 04-A, showing 150mm overlap under the rebar cage



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VERIFICATION ITEM TWO



Above photo) external pipe work sealed with GR SAM

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VERIFICATION ITEM THREE

LOCATION/GRID LINE: Pile cap 04-A (Gridline 6)

NOTES: 3 piles were wrapped in Visqueen Geoseal Ultimate, they

Have been overlapped and hot welded to form a seal. A pick and probe test was

Carried out on the seal. 150mm overlap of Visqueen Geoseal Ultimate was also

Installed under the bear cage.



Left photo) overview of pile cap, showing Visqueen and protection board

Right photo) closer photo showing the lap under the rebar

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VERIFICATION ITEM THREE



Above photo) pick and prob carried out on the hot welded joint, also

Showing the protection board, to protect against backfill

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ADDITIONAL PHOTOGRAPHS



Gas used to prime bitumen



Primed wall waiting for GR SAM



Primed wall with bucket of primer



Ring beam showing wrapped membrane

And protection board on back filled side

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ADDITIONAL PHOTOGRAPHS



One of the pile caps did not need

Membrane as per design



Internal section of pipe within pile cap



External pipe from above right photo

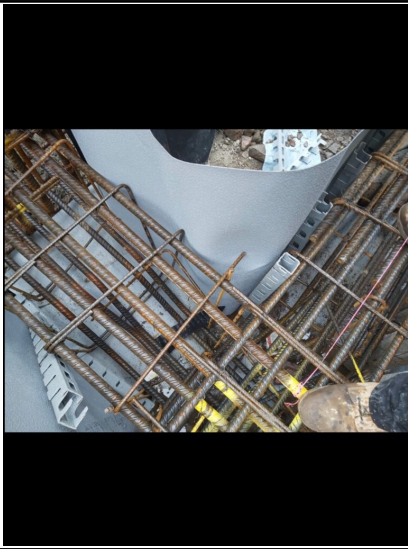


Pile cap with Visqueen Geoseal

Ultimate

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ADDITIONAL PHOTOGRAPHS



Visqueen Geoseal Ultimate wrapped

Under the ring beam, with overlap



Overview of ring beam with visqueen

Overlap



Exterior corner detail of Visqueen

Sealed at the joint with GR SAM



Pile cap and ring beam, both have

Been wrapped with Visqueen Geoseal



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VERIFICATION SUMMARY

Report 003 is for the pile caps with grid lines 5 to 10, a visual inspection was

Carried out of all areas due to limitations. These limitations were caused by

The rebar cage being installed and the pile caps being submerged with back fill.

A pick and probe test was carried on the welded joint of the Visqueen Geoseal

Ultimate. Also inspected was the walls of H Block, which has been primed and

Then had GR SAM applied to them, a pick and probe test was also carried out to

Ensure that a good seal had been created.

Complete works passed and verified in accordance with BS8485:2019

and CIRIA 735.