



GEOSHIELD Verification Report



PROJECT REFERENCE: GEO102491

REPORT NUMBER: 004

PROJECT: Blocks D3 & D4. Clarendon Road.

PROJECT ADDRESS: Clarendon Road Phase 3

Hornsey,

North London.

MEMBRANE SPECIFICATION: Verified in accordance CIRIA 735.

Design in accordance with BS8485 2015 + 2019 for Methane and Carbon Dioxide.

Substrate prepared in-accordance with manufactures instructions and BS8485

Pudlo GP ultra plus.

Pudlo ultra EXT tape.

Pudlo liquid GB.

Pudlo Ultra Tape and Pudlo Ultra Seal.

PUDLO GB DPC and Pudlo self seal primer.



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MEMBRANE SPECIFICATION:

DESIGN DETAILS:

Material specification technical data sheets

BKH-CLR-007e - Ground Beam Perimeter Detail

BKH-CLRD3D4-006 - Pile Head Detail

BKH-CLR-001a - Slab Joint Detail

BKH-CLR-002 - Kicker Joint Detail

BKH-CLR-003 - Wall Head Joint Detail

BKH-CLR-005 - Pile Cap Detail

BKH-CLR-007b - Ground Beam Perimeter Detail

BKH-CLR-012 - Slab Pipe Penetration (Cast-in) Detail

BKH-CLR-014 - Slab Pipe Penetration (Box-out) Detail

BKH-CLR-018 - GP Ultra+ Overlapping Detail (Plan View)

BKH-CLR-020c - GF Substation Service Trench Entry Detail

BKH-CLR-023a- Lift Pit Detail 2

BKH-CLR-GA-100b



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MEMBRANE SPECIFICATION:

DESIGN DETAILS:

Material specification technical data sheets

BKH-CLR-GA-101b

BKH-CLR-GA-103c

BKH-CLR-GA-105b

BKH-CLR-008c - Lift Pit Detail

BKH-CLR-E-001a - Typical Block E Liner Wall Detail

BKH-CLR-E-002a - Typical Block E Sheet Pile Retaining Wall Detail

BKH-CLR-E-004a - Pile Head to Pile Cap Detail

BKH-CLR-E-005c - Grade 3 Capping Beam Detail

BKH-CLR-E-006a - Grade 3 Slab to Liner Wall Kicker Detail

BKH-CLR-E-011a - Grade 2 Wall Pipe Pen.Cast-in Detail

BKH-CLR-E-012a - Grade 2 Slab Pipe Pen.Hi-Flow Grout Box-out Detail

BKH-CLR-E-019- Capping Beam Infill Detail

Material Specification Technical Data Sheets

Radon Maps UK - (Map 1) Site Location & (Map 2) Nearby Location



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VERIFICATION OFFICER: Kavanagh Palmer-Fletcher

VERIFICATION COMPANY: GeoShield Limited

Icon Business Park, 4100 Park Approach

Thorpe Park, LEEDS

West Yorkshire

LS15 8GB

CONTACT NUMBER: 07470012812

EMAIL ADDRESS: Kpalmer-fletcher@geoshield.co.uk

ORDER NUMBER:

PER VISIT: YES:

☐

NO:



PROJECT: YES:



NO:

☐



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CLIENT DETAILS

CLIENT CONTACT: Brian Grant

CONTACTS ROLE:

MOBILE PHONE: 07956 342 201

EMAIL ADDRESS: bgrant@foundation-dev.com

CLIENT CONTACT:

CONTACTS ROLE:

MOBILE PHONE:

EMAIL ADDRESS

NOTES:

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APPLICATION TEAM LEADERS

APPLICATOR NAME: Robin

COMPANY: SWC

APPLICATOR TEL:

APPLICATOR EMAIL:

APPLICATOR NAME: Mick

COMPANY: SWC

APPLICATOR TEL:

APPLICATOR EMAIL:

NOTES: The installers from SWC are specialists in the installation of ground gas

NOTES: and waterproofing systems. They hold NVQ level 2 qualifications in the

NOTES: installation of gas membranes and weld all lap joints, which is required

NOTES: for this project.



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AREA SURVEYED: Retaining wall.

SITE CONDITIONS:

WEATHER: Sunny

TEMPERATURE: 16c

MEMBRANE TEMPERATURE: N/a

RELATIVE HUMIDITY: N/a

TIME: 10:00-11:30

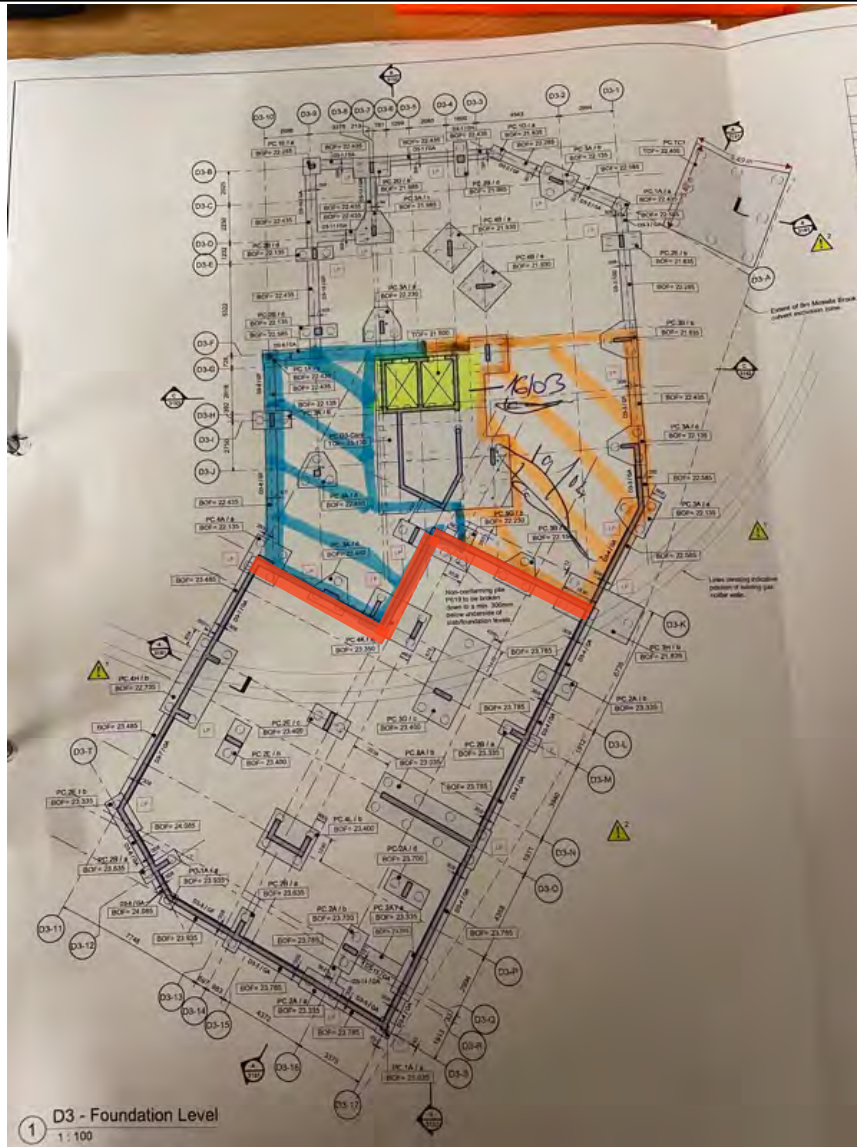
REPORT NUMBER: 004

DATE: 12/05/2022

ACCOMPANIED FDL and SWC.

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VERIFICATION LAYOUT



The above photograph displays a layout plan of block D3.

The area highlighted red above is where verification took place during this visit.

Block D3 - Retaining wall.



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OVERVIEW PHOTOGRAPHS

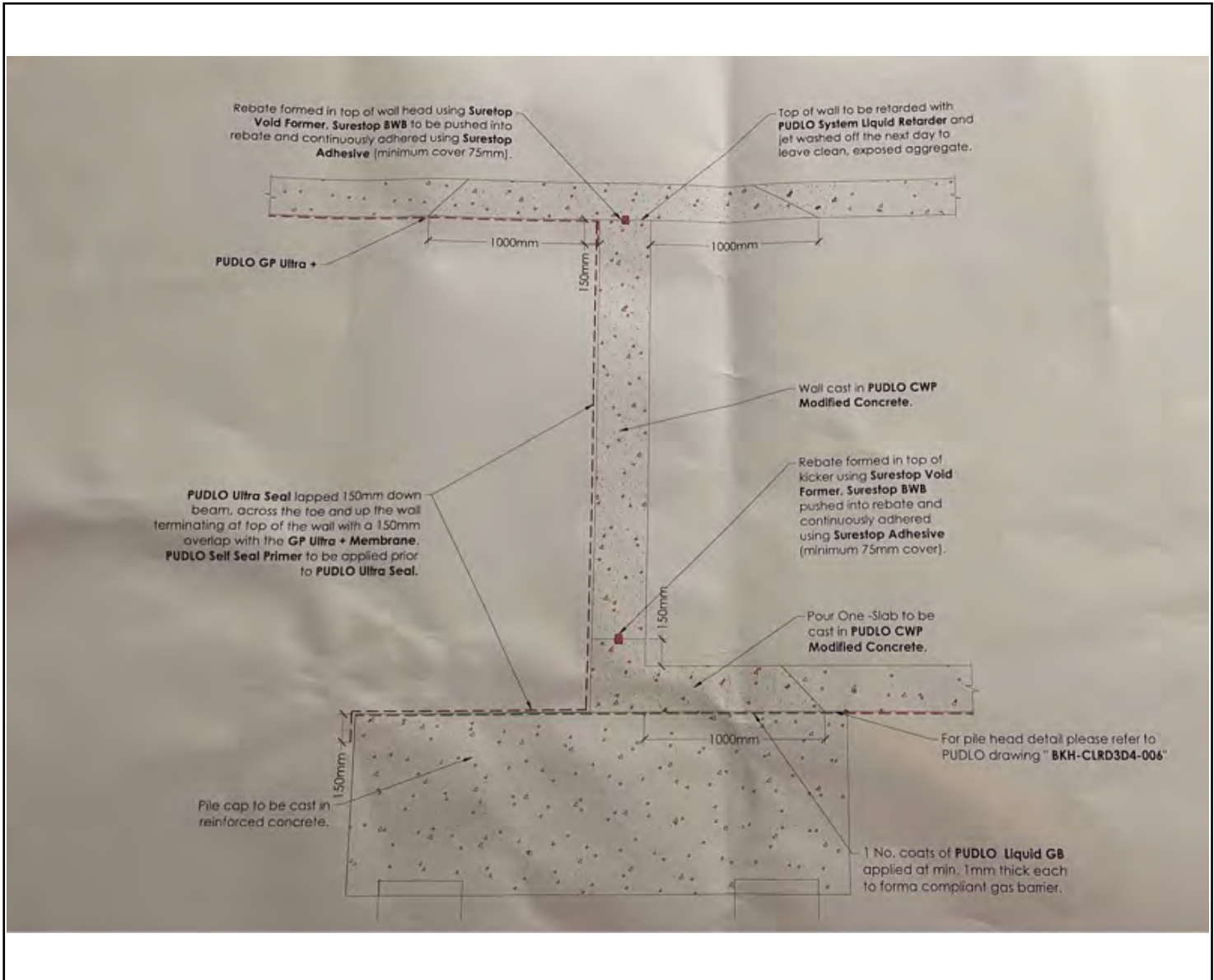


Overview photograph of the area verified during this visit.

Block D3 - Retaining wall.

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VERIFICATION ITEM ONE



The above photograph displays the detail followed throughout this installation to the retaining wall. Due to the detail changing on the adjacent slab area the Pudlo ultra seal has been returned onto the exposed Pudlo ultra + on the toe/ground beam, this is still suffice as continuity has been achieved throughout the ground gas protection.



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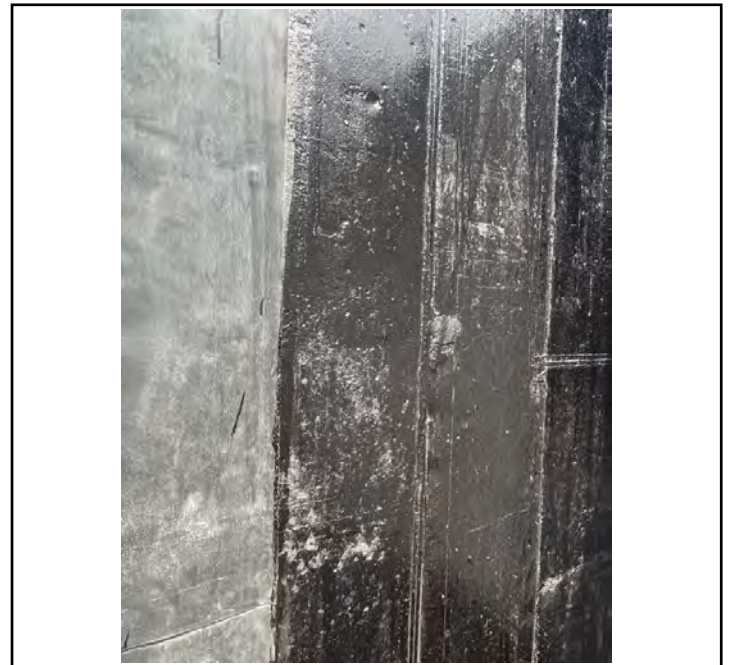


VERIFICATION ITEM ONE

LOCATION/GRID LINE: Block D3 - Retaining wall

NOTES: Installation-

The retaining wall within block D3 has been primed with Pudlo self seal primer and left to cure prior to the Pudlo ultra seal application. The installation has been carried out in accordance to manufactures specification. The photograph below on the left displays...



...a section of the completed retaining wall. The photograph above on the right shows evidence of the Pudlo self seal primer.



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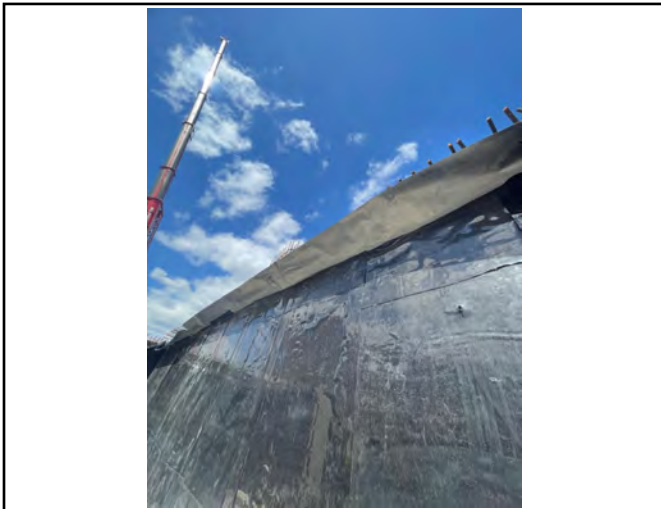


VERIFICATION ITEM TWO

LOCATION/GRID LINE: Block D3 - Retaining wall

NOTES: Installation-

The photograph below on the right shows the installers have carried out the install in close connection to the design detail. A continuous strip of Pudlo ultra plus membrane has been linked to the top of the retaining wall so sufficient overlaps can be achieved...



...within the next slab area in block D3 on the higher level.

The photograph above on the right shows the Pudlo ultra seal has been returned onto the existing Pudlo ultra plus membrane. This has created continuity of ground gas protection throughout the higher and lower levels throughout the block.

A good standard of works carried out by the specialist installers from SWC.

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VERIFICATION ITEM TWO



The above photograph displays further evidence of the Pudlo ultra seal returned onto the exposed Pudlo ultra plus membrane from the adjacent slab which was verified and tested on a previous visit.

Verified in accordance with CIRIA 735.



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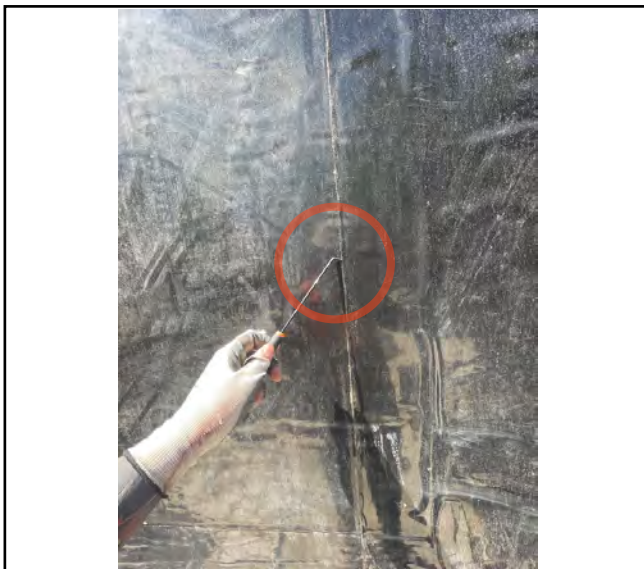


VERIFICATION ITEM THREE

LOCATION/GRID LINE: Block D3 - Retaining wall

NOTES: Testing Procedures-

Throughout this verification visit a thorough visual inspection was carried out aswell as mechanical point stress tests also known as the pick and probe test. This test was conducted upon a number of areas which can be seen within the photos below.



The photograph on the left displays the pick&probe test being conducted on a sealed overlap between sheets of Pudlo ultra seal. No faults were identified.

The photograph on the right displays the pick&probe test being conducted upon the return onto the Pudlo ultra +. No faults identified. Verified in accordance with CIRIA 735



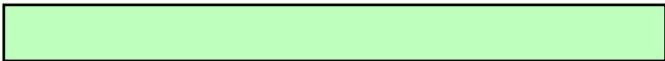
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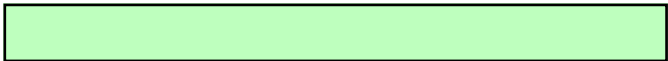
ADDITIONAL PHOTOGRAPHS



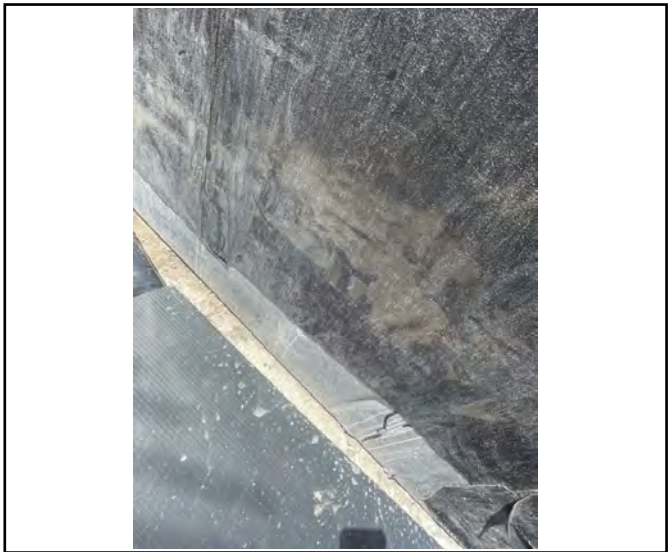
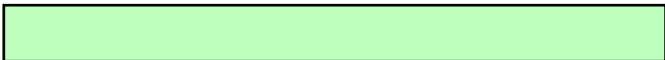
alternate overview photograph.



alternate overview photograph.



alternate overview photograph.



Pudlo ultra seal sealed upon the

existing Pudlo ultra plus membrane.



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VERIFICATION SUMMARY

This was the 4th verification visit required for Block D3 at Clarendon Road.

The specialist installers from SWC have carried out the Pudlo ultra seal installation to the retaining wall between the higher and lower levels of the block.

The installation has been carried out in accordance to manufactures specification.

The retaining wall has been primed using Pudlo self seal primer prior to the

application to help aid in adherence. A strip of Pudlo ultra plus membrane has

been applied and sealed to the top of the resting wall so that continuity of ground

gas protection can be achieved within the higher slab area(s). Visual pick and probe

testing was conducted and identified no faults. Overall a good standard of works.

Verified and tested in accordance with CIRIA 735.

GEOSHIELD SIGNATURE:

DATE: 12/05/2022