



GeoShield Verification Plan



PROJECT DESCRIPTION

GEO105283
Andrew Scott Ltd
Nant Y Cafn Business Park,
Seven Sisters,
Neath,
SA10 9ES

The proposed development for which gas protection measures are required involves the construction of 6 industrial workshop units.

In accordance with BS8485:2015 + A1 2019, the Type D which must conform to a Characteristic Specification (CS) rating of 2, so mitigation will need to be 1.5 points.

Geoshield have adopted the highest design and verification principles associated with BS8485:2015 + A1 2019, BR 211, Public Health England, NHBC Technical Extra April 2016 and CIRIA 735.

This pre-verification plan reviews the design to ensure it is compliant with the developer and planning authority requirements and in conjunction with the relevant investigation report in accordance with BS8485:2015 +A1 2019.

In summary, the design does achieve a required level of attention to detail with its robust specific gas membrane design (2 points), 175mm reinforced concrete slab (1 point).

The pre-verification plan confirms how the installation will be tested in accordance with CIRIA735. The verification visits will be documented in verification reports during the project that are suitable for submission to the local planning authority in order to satisfy and discharge planning consent.

All faults identified during inspection and the verification site visit of the ground gas system will be itemised as remediations which will need to be signed off in the remediation log for the proposed building.



GeoShield Verification Plan



PROJECT DESCRIPTION

Pre-Verification Plan

GeoShield are appointed by the Client to carry out independent validation, verification and integrity testing of the ground gas protection system on site. The Pre-Verification plan sets out the requirements and procedures that GeoShield will adopt to ensure that the installation is in line with the proposed design, relevant UK standards and guidance.

GeoShield take no responsibility for any warranties to third parties for the design of the system or the installation.

Limitations

The Pre-Verification plan prepared by GeoShield Limited is limited to the proposed ground gas protection measures installed. The Pre-Verification plan has been prepared in line with the relevance UK Standards and Guidance (BS8485:2015+A1:2019 & CIRIA 735) alongside the information made available to GeoShield by the Client. The conclusions made in the report are considered to be correct at the time of writing, but additional information provided/discovered may require amendments to the Plan. GeoShield recognises that changes to relevant standard and guidance may occur at any time which may cause the conclusions made to be incorrect - GeoShield do not accept any responsibility or liability for the implications of such changes.

The Pre-Verification plan does not in itself constitute verification that the membrane has been installed in accordance with this document. Validation and verification of the installed membrane will be covered in separate verification reports following physical inspection of the gas barrier and will include photographic evidence of the installation.

Waterproofing elements (where applicable) do not fall into the remit of this Pre-Verification plan or future inspections. GeoShield will provide the opinion on membrane's suitability for ground gas protection purposes – no liability is offered or implied for the waterproofing element which should be checked by others.



GeoShield Verification Plan



CONTENTS

Section 1	Project description
Section 2	Project material specification
Section 3	Project information
Section 4	GeoShield surveyor information
Section 5	Project information: Drawings, S.I, MSDS, Radon Maps
Section 6	Client Details
Section 7	Application team leaders
Section 8	Health and safety
Section 9	Applicator competence
Section 10	Gas regime
Section 11	Testing
Section 12	Risk assessment
Section 13	GeoShield competence
Section 14	Method Statement
Section 15	Project technical assessments
Section 16	Pre-Contract Meeting Checklist
Section 17	Pre-Contract Meeting Summary



GeoShield Verification Plan



PROJECT REFERENCE:

GEO105283

PROJECT:

Nant Y Cafn Business Park

PROJECT ADDRESS:

Seven Sisters,

Neath,

SA10 9ES

SPECIFICATION:

Verified in accordance CIRIA 735.

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

Substrate prepared in accordance with manufacturers instructions.

Fosroc Proofex Total Membrane

Fosroc Proofex 3000MR Self Adhesive



GeoShield Verification Plan



NAME OF SURVEYOR:

Paul Colbeck

VERIFICATION COMPANY:

GeoShield Limited

Icon Business Centre

4100 Park Approach

Thorpe Park

Leeds

CONTACT NUMBER:



EMAIL ADDRESS:



ORDER NUMBER:

To be confirmed

PER VISIT:

YES:

☐

NO:

☐

PROJECT:

YES:

☐

NO:

☐



GeoShield Verification Plan



INFORMATION INCLUDED

Technical Note for Ground Gas Preventative Measures

Engineers drawings

Ground Gas Design

Material Specification Technical Data Sheets

Radon Maps UK - (Map 1) Site Location

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 Plan



SPECIFICATION

Civil & Structural Engineering

TECHNICAL NOTE

Rev B – 26.02.25

Bingham Hall
PARTNERSHIP LTD
Consulting Civil & Structural Engineers

Project No: 6807

Project Ref: Proposed Industrial unit at Nant-y-cafn, Seven Sisters.

Technical Note for proposed below ground gas preventative measures.

Introduction

Bingham Hall Partnership Limited (BHPL) have been commissioned by Andrew Scott Construction Ltd in respect of civil & structural engineering aspects for the above proposed development. We have been asked by our client to provide this technical note which is in support of discharge of Planning Condition 4, in particular with reference to ground gases precautionary measures to be employed at the above site, on which we would provide the following comments.

Ground gas risk is covered by geotechnical engineers Socotec UK Ltd within their site investigation report ref H3091-23/N2. Section 8.10 of their report refers, an extract of which is given below. The commentary given in Section 8.0 clearly explains the ground investigation works undertaken and the approach taken to gas preventative measures, given the difficulties encountered during testing, in that shallow ground water prevented monitoring. The report does however indicate that further supplementary monitoring should be carried out, but to do so would require an extended period of prolonged dry weather, which given the proposed construction programme and the location of the site was considered unlikely to be achieved. Given this, and from the initial results obtained, it was decided by the design team to take a conservative approach to gas preventative measures in complying as a minimum, to characteristic gas situation 2 (CS2) to BS8485 and provide appropriate gas protection/preventative measures to achieve a minimum score of 1.5 for such a low-risk building Type D, "Industrial" nature and consideration also given to a minimum score of 2.5 for a building Type C, "Commercial" use, i.e. small to large size rooms with active ventilation or good passive ventilation.

Socotec UK Ltd have since provided an updated supplementary technical note (see Appendix A) which further discusses the approach to gas preventative measures. The report clearly explains the reasoning behind adopting a conservative approach in complying with CS2.

To that end the ground floor slab has been designed and detailed to include a methane & CO₂ gas resistant membrane plus a well-constructed reinforced concrete ground bearing floor slab, with limited joints, and all service penetrations to be adequately sealed to prevent passage of ground gases seeping into the building. The below slab membrane is to be continuous, lapped and sealed to the wall DPC and be continuous across the cavity. In accordance with BS8485 such an approach achieves a combined score of 2.5, therefore the proposed floor construction scores the minimum required, as noted above.

We therefore feel the design team has taken a conservative approach to gas preventive measures on this site, all of which will be incorporated in the design, being adequate for the industrial nature of the development.

Construction details/specification for the proposed methane & CO₂ gas resistant membrane, its interface details to the perimeter walling, around columns & service entries, are as shown by EPT Architects drawing ref ISU-EPT-ZZ-XX-DR-A-3450-P01, a copy of which is appended in Appendix C for reference, which is issued in support of discharge of the condition and will be issued to Building Control for approval.

Title Reference & Description:

Technical Note for Ground Gas Preventative Measures

Front page



GeoShield Verification Plan



SPECIFICATION

are therefore not represented. The shallow Alluvium strata retain the potential to generate ground gases such as methane but may be removed prior to construction as not a suitable founding material. This would limit the gas generation potential but not remove it entirely from the site. The Till shows higher gas readings, which may be due to dissolved gases within the groundwater. Carbon dioxide in natural soils such as Glacial Deposits can often be recorded up to 15 % in monitoring wells (RB17) but does not pose a potential risk to development. The underlying Coal Measures shows higher methane results, although the overlying impermeable Till will limit the pathway.

It is recommended that further remedial measures are required to reduce the potentially unacceptable risk presented by ground gases. Where there is incomplete monitoring data available or no monitoring, the approach for common scenario taken in RB17 for organic soils such as alluvium (and <1m of Made Ground) over natural soils such as Till i.e. the same scenario which we have on site, is to install gas protection measures.

Based on the gas regime and slightly elevated concentrations above 1 % v/v of methane from the Coal Measures, given the lack of ground gas data available to support otherwise, gas protection measures are recommend being installed in the proposed commercial development in accordance with Characteristic Situation 2 for a Type D building with a minimum gas protection score of 1.5 points.

BHPL conclusion

In consideration of the above findings and proposals, we feel adequate gas preventative measures for CS2, in accordance with the requirements of BS8485, will be achieved on site using the proposed form of construction described above as shown by BHPL ground floor slab drawing given in Appendix B, plus details contained within EPT Architects Drawing for the proposed under slab "Visqueen" Gas membrane/DPM construction details, given in Appendix C.

It is acknowledged that an Independent Gas Membrane Integrity Testing and Verification program is required, with back-up documentation in place and a hand-over package included in the final documents. To this end a verification and validation process of the proposed installation will be undertaken in accordance with "CIRIA 735 - Good practice on the testing and verification of protection systems for buildings against hazardous ground gases". Andrew Scott Construction Ltd will appoint a suitably qualified independent consultant to undertake the validation & verification process. In-situ verification of the structural barrier and membrane will be required in accordance with CIRIA 735, and adequate allocation of time and resources are to be made available for the verification process to be undertaken on site.

Should there be further queries regarding the above please do not hesitate to contact us.

Report prepared by:

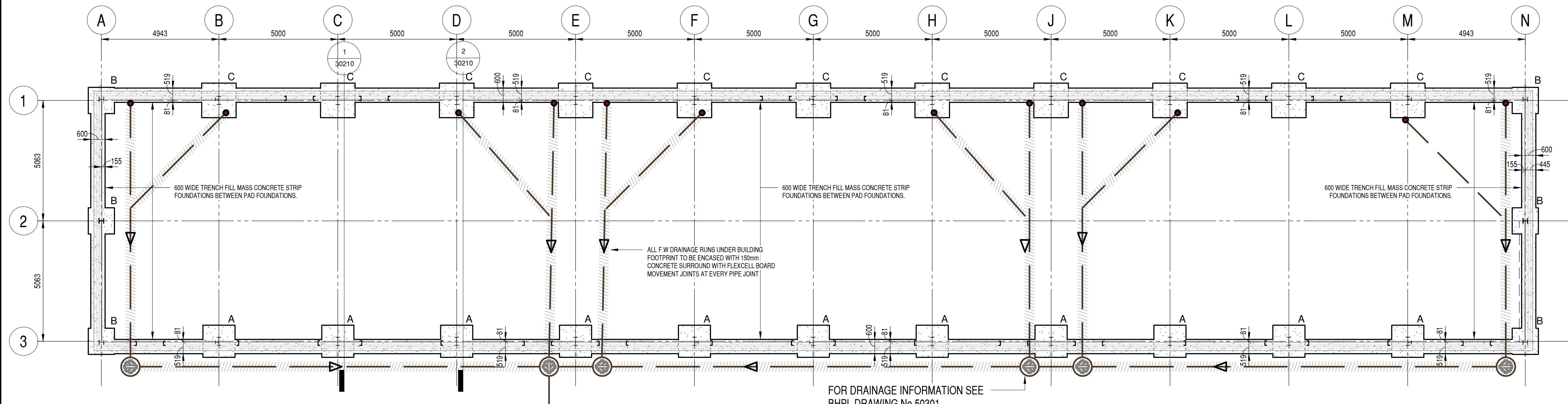
**Mr D T Hopkins BSc., CEng., MStructE.
for
Bingham Hall Partnership Ltd**

Title Reference & Description:

Technical Note for Ground Gas Preventative Measures

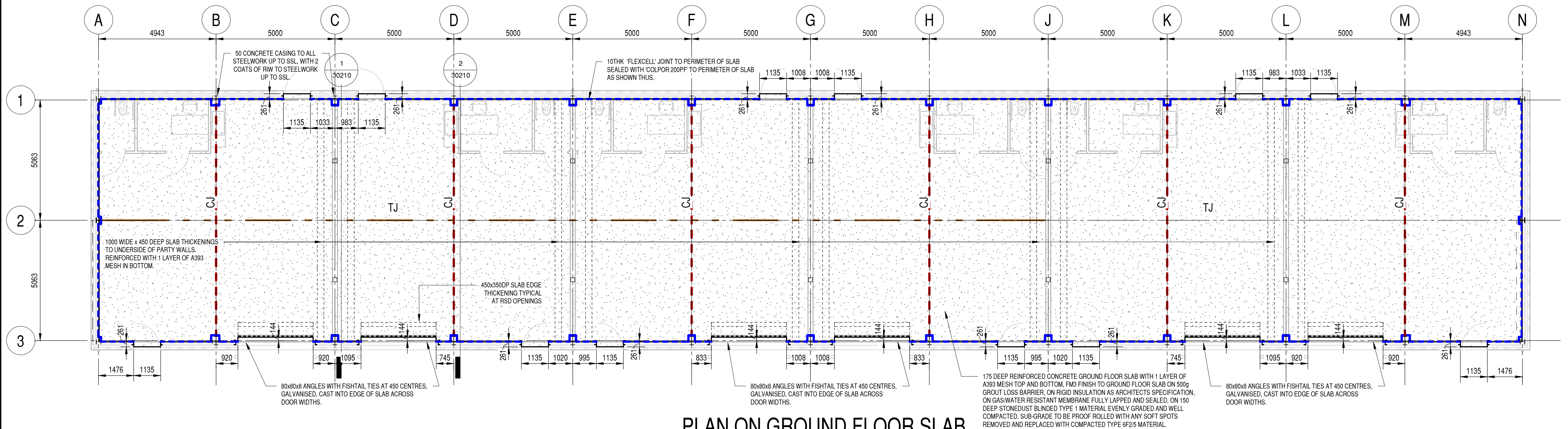
Site being treated as CS2.

NOTE THE PROPERTY OF THIS DRAWING AND DESIGN IS VESTED IN BINGHAM HALL PARTNERSHIP LIMITED AND MUST NOT BE COPIED OR REPRODUCED IN ANY WAY WITHOUT THEIR WRITTEN CONSENT.



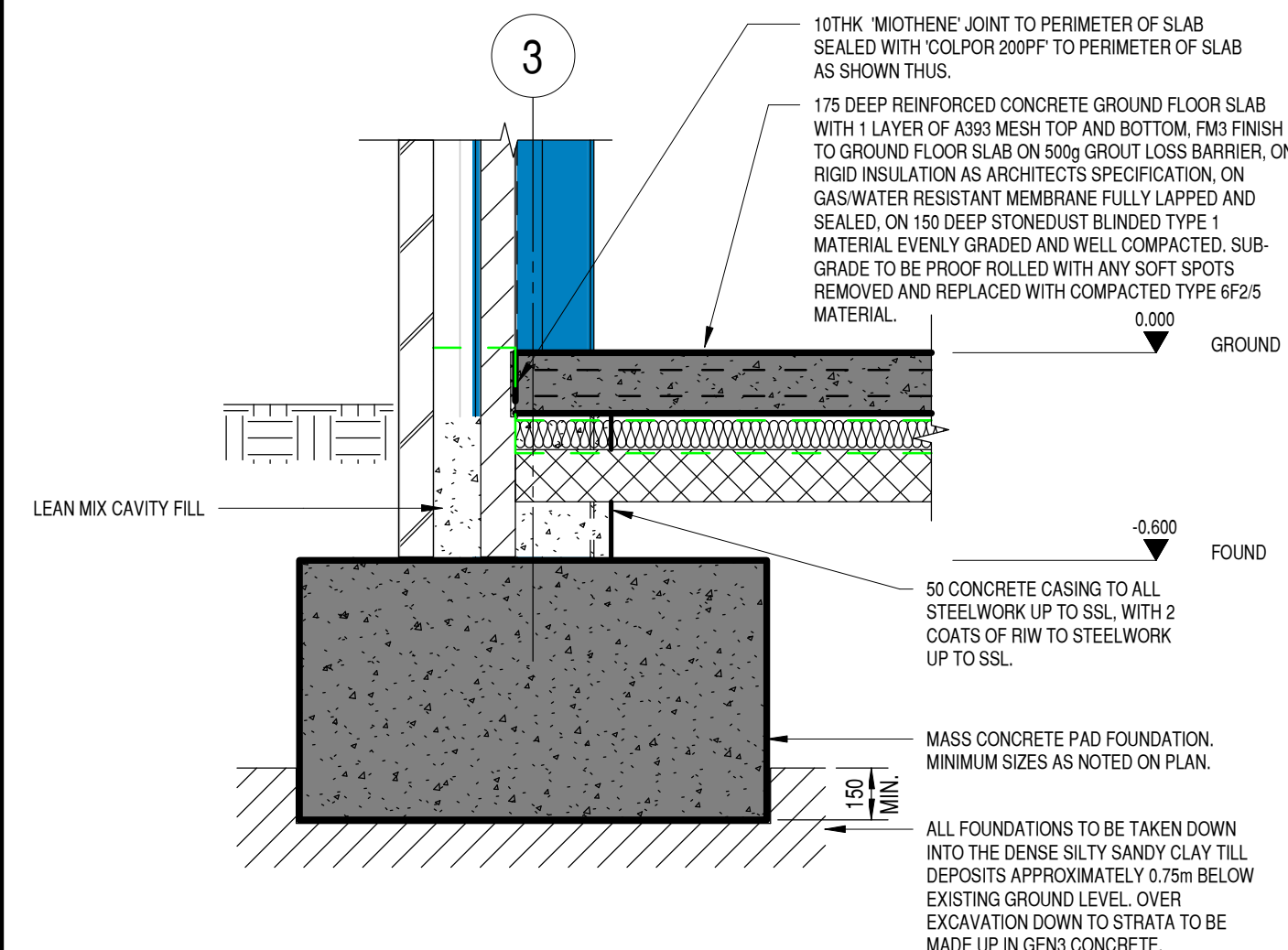
PLAN ON FOUNDATIONS

(1 : 100)



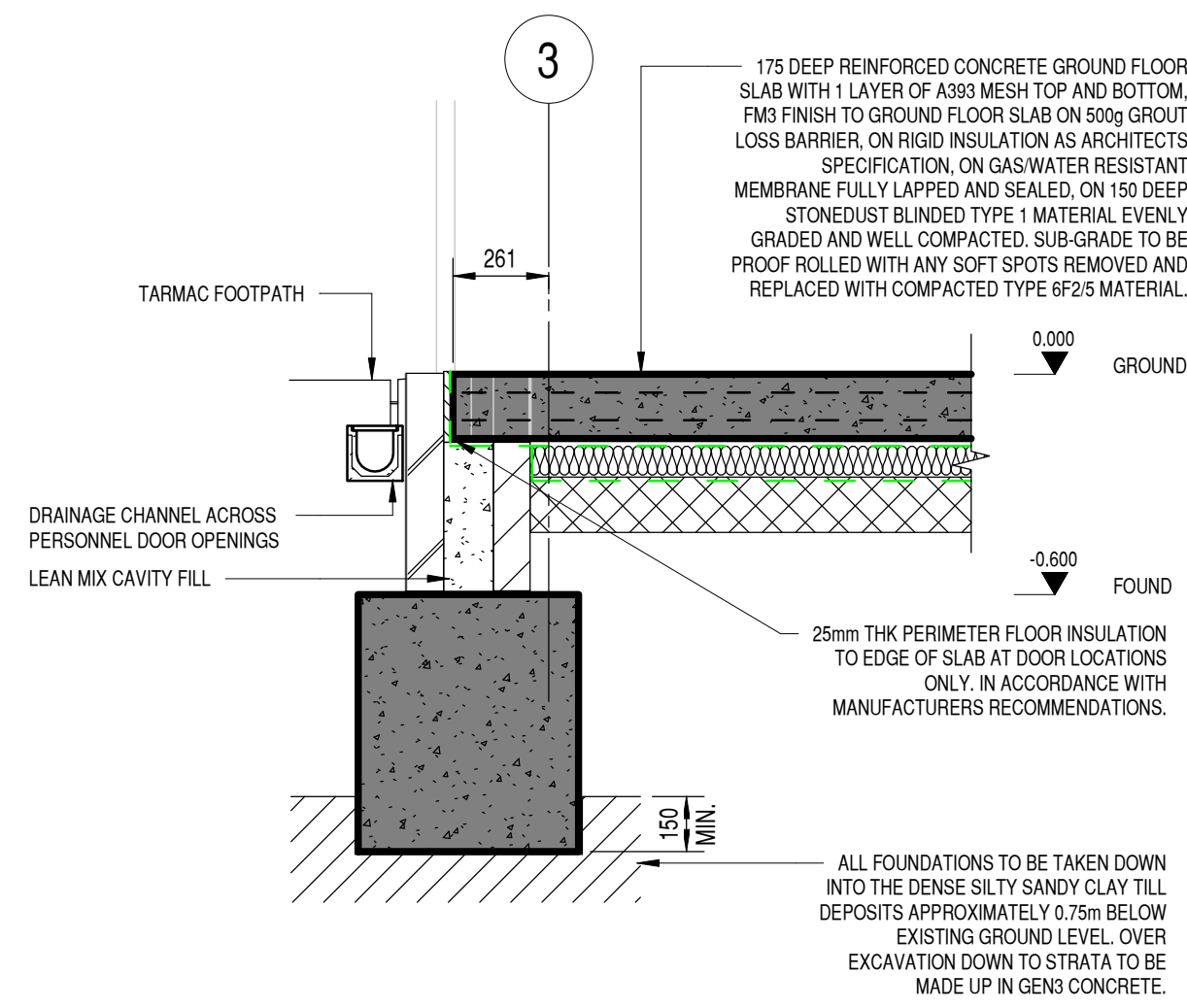
PLAN ON GROUND FLOOR SLAB

(1 : 100)



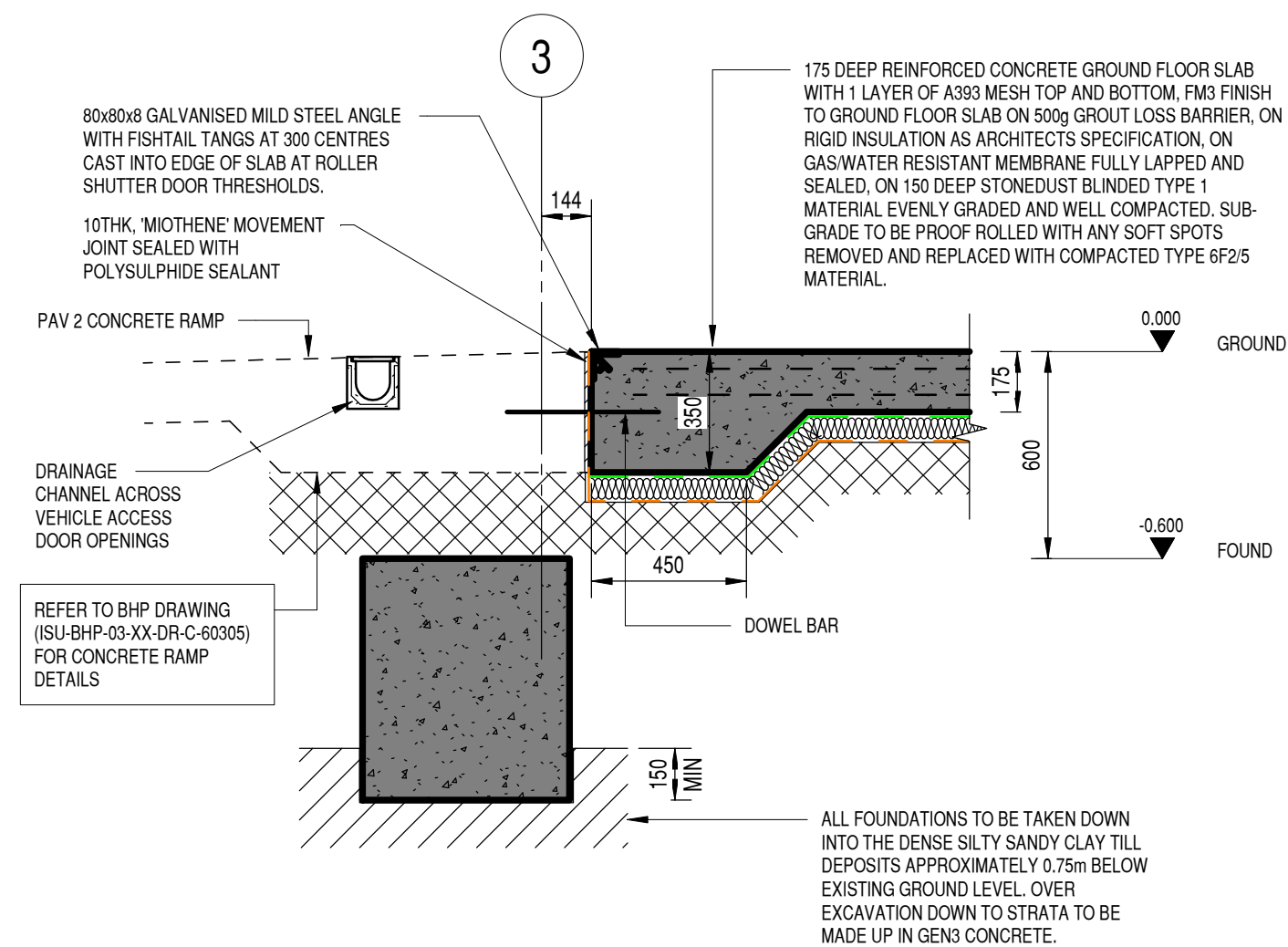
TYPICAL EDGE DETAIL

(1 : 20)



TYPICAL PERSONNEL DOOR EDGE DETAIL

(1 : 20)



TYPICAL VEHICLE ACCESS DOOR EDGE DETAIL

(1 : 20)

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BHPL AND ARCHITECTS DRAWINGS.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SITE INVESTIGATION REPORT.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT SERVICES INFORMATION PRIOR TO ANY WORKS COMMENCING.
4. THE CONTRACTOR IS TO ADHERE TO ALL RELEVANT HEALTH AND SAFETY REQUIREMENTS AND CURRENT REGULATIONS AT ALL TIMES.
5. ANY DISCREPANCIES FOUND TO BE REPORTED TO BHPL IMMEDIATELY.
6. DO NOT SCALE FROM THIS DRAWING, IF ANY DIMENSIONS ARE NOT GIVEN PLEASE ASK.
7. IF IN DOUBT PLEASE ASK.

FOUNDATION CONCRETE

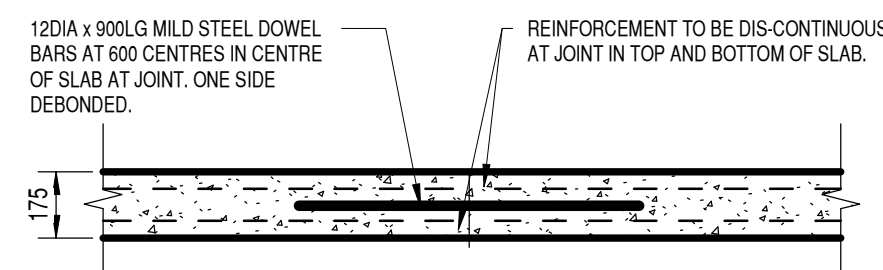
1. ALL WORK IS TO BE IN ACCORDANCE WITH THE NBS SPECIFICATION ISSUED AND THE CURRENT RELEVANT BS CODES OF PRACTICE.
2. IN ACCORDANCE WITH BS 8500 CONCRETE IS SPECIFIED THUS:-
 - 2a. DESIGNATED CONCRETE IS NOTED, FOR EXAMPLE AS GEN3, RC35, ETC.
 - 2b. DESIGNATED CONCRETE IS NOTED, FOR EXAMPLE AS C28/35, C32/40, ETC.
 - 2c. STANDARDIZED PRESCRIBED CONCRETE IS NOTED, FOR EXAMPLE AS ST1, ST2, ETC.
3. ALL STRUCTURAL CONCRETE IS TO BE MECHANICALLY VIBRATED.
4. CONCRETE TO FOUNDATIONS TO BE GRADE RC28/35 USING ANY OF CEM1, IIA, IIB, IIA or IIB WITH A MAXIMUM AGGREGATE SIZE OF 20mm AND A S3 CONSISTENCE.
5. FOR NOTES ON TREATMENT OF CONSTRUCTION JOINTS, TEMPORARY WORKS, STRIPPING TIMES AND ACCURACY OF CONSTRUCTED WORK, SEE SPECIFICATION.
6. QUALITY CONTROL AND TESTING AND THE USE OF ADMIXTURES ARE DESCRIBED IN THE SPECIFICATION.
7. MINIMUM CONCRETE COVER TO MAIN REINFORCEMENT TO BE 40mm (WITH A MAX. DEVIATION OF 10mm)

GROUND FLOOR SLAB

1. ALL WORK IS TO BE IN ACCORDANCE WITH THE NBS SPECIFICATION ISSUED AND THE CURRENT RELEVANT BS CODES OF PRACTICE.
2. IN ACCORDANCE WITH BS 8500 CONCRETE IS SPECIFIED THUS:-
 - 2a. DESIGNATED CONCRETE IS NOTED, FOR EXAMPLE AS GEN3, RC35, ETC.
 - 2b. DESIGNATED CONCRETE IS NOTED, FOR EXAMPLE AS C28/35, C32/40, ETC.
 - 2c. STANDARDIZED PRESCRIBED CONCRETE IS NOTED, FOR EXAMPLE AS ST1, ST2, ETC.
3. ALL STRUCTURAL CONCRETE IS TO BE MECHANICALLY VIBRATED.
4. CONCRETE TO GROUND FLOOR SLAB TO BE GRADE RC28/35 USING ANY OF CEM1, IIA, IIB, IIA or IIB WITH A MAXIMUM AGGREGATE SIZE OF 20mm AND A S2 CONSISTENCE.
5. FOR NOTES ON TREATMENT OF CONSTRUCTION JOINTS, TEMPORARY WORKS, STRIPPING TIMES AND ACCURACY OF CONSTRUCTED WORK, SEE SPECIFICATION.
6. QUALITY CONTROL AND TESTING AND THE USE OF ADMIXTURES ARE DESCRIBED IN THE SPECIFICATION.
7. MINIMUM CONCRETE COVER TO MAIN REINFORCEMENT TO BE 25mm (WITH A MAX. DEVIATION OF 10mm)

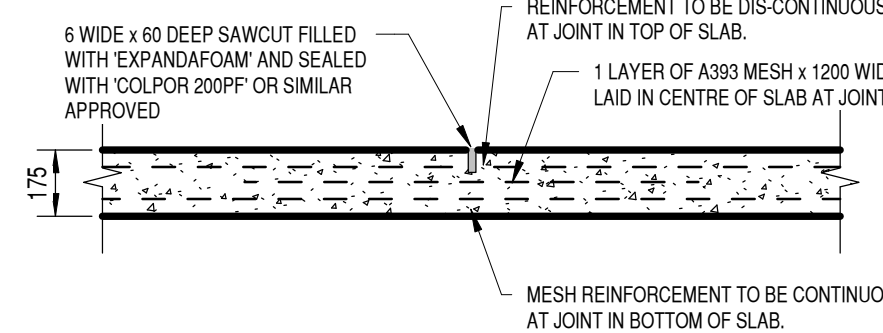
PAD FOUNDATIONS

Type	Length	Width	Foundation Thickness	No Off
A	1350	750	750	11
B	1100	1100	700	6
C	1450	1450	750	11



SLAB CONSTRUCTION JOINT (CJ)

(1 : 20)



SLAB TRANSVERSE JOINT (TJ)

(1 : 20)

C03	AD	31/03/25	SLAB EDGE DETAILS AMENDED, SLAB EDGE THICKENING ADDED TO RSD OPENINGS
C02	AD	14/03/25	SLAB JOINT NOTE AMENDED, GAS MEMBRANE MOVED TO CORRECT POSITION
C01	AD	10/03/25	CONSTRUCTION ISSUE
P03	AD	09/08/24	STAGE 4 - REVISED ISSUE
P02	AD	30/07/24	STAGE 4 ISSUE
P01	LRJ	30/05/24	ISSUE FOR COSTING PURPOSES
Rev	By	Date	Revision

Bingham Hall
PARTNERSHIP LTD

Consulting Civil & Structural Engineers
5 Ty Nant Court,
Morganstown,
Cardiff
CF15 4LW
Telephone (029) 2048 8588

BHPL Project Ref:
6807

Project Title	Nant Y Cafn Industrial Unit				
Drawing Title	FOUNDATION & GROUND FLOOR PLANS				
Architect	EPT ARCHITECTS				
Client	ANDREW SCOTT LIMITED				
Drawing Status	A4 - AUTHORISED & ACCEPTED				
Scale	As indicated	Drawing Size	A1	Drawn	LRJ
Project No.	Originator	Volume	Level	Type	Role
ISU - BHP - 03 - XX - DR - S - 10201					
C03					

ASL
01-04-2025



Andrew Scott Limited

[illegible][illegible]

Figure 1 is a cross-sectional diagram of a typical column encasement detail. The diagram shows a central column (1) surrounded by an encasement (2). The encasement is composed of several layers: a cast-in-place concrete cap (3), a cast-in-place concrete base (4), a cast-in-place concrete base (5), a cast-in-place concrete base (6), a cast-in-place concrete base (7), a cast-in-place concrete base (8), a cast-in-place concrete base (9), and a cast-in-place concrete base (10). The diagram also shows a cast-in-place concrete column (1) and a cast-in-place concrete encasement (2). The diagram is labeled with callouts 1 through 10.

[illegible]

-  FOSROC 3000MR SELF ADHESIVE
-  FOSROC PROOFEX TOTAL
-  GROUT LOSS BARRIER

Fosroc® Proofex Total

High performance, ground gas-resistant, reinforced damp proof membrane

Uses

Suitable for ground level construction applications above and below the main structural element.

Reinforced gas membrane - designed to protect buildings and their occupants from the effects of methane, radon and carbon dioxide. Also protection against hydrocarbon vapours, when not in direct contact with the source.

Damp-proof membrane – protection against ingress of moisture from the ground where not exposed to hydrostatic pressure.

Advantages

- Multi-layer product design for maximum gas protection.
- Polyester reinforcing grid for puncture resistance during application.
- Loose-laid system for ease of application.
- Suitable for installation with taped or welded lap joints.
- Suitable for use with ground-bearing reinforced concrete or precast floor construction methods.
- Can be used within masonry wall construction, eliminating the need for a separate damp-proof course.



Description

Proofex Total is a black/white, multi-layer, low density polyethylene, ground gas resistant based membrane with an integral aluminium foil layer and a polypropylene reinforcing grid.

Properties

Characteristic	Test Method	Unit	Result
Physical Properties			
Thickness	EN 1849-2	mm	0.6
Thickness – Between Scrim	BS EN ISO 9863-1:2016	mm	0.4
Width	EN 1849-2	m	2
Length	EN 1849-2	m	50
Weight	EN 1849-2	g/m ²	370
Hydraulic Properties			
Water Column	EN 20811	m	>300
Resistance to Water Penetration	EN 13967, EN 1928	-	Pass
Water Tightness	EN 1296, EN 1367, EN 1928	-	Pass
Mechanical Properties			
Resistance to Static Load	EN 12730-B	Kg	20
Tensile Strength (MD)	EN 12311-1	N/50mm	600
Tensile Strength (CMD)	EN 12311-1	N/50mm	480
Tensile Elongation (MD)	EN 12310-1	%	20
Tensile Elongation (CMD)	EN 12310-1	%	20
Puncture Resistance	EN 12236	kN	1.25
Resistance to Tearing (Nail Shank) MD	EN 12310-1	N	330
Resistance to Tearing (Nail Shank) CMD	EN 12310-1	N	400
Durability and Chemical Resistance (Transmission Rate of Volatile Liquids)			
Diesel	ISO 6179:2010 (B)	g/m ² /h	0.246
Xylene	ISO 6179:2010 (B)	g/m ² /h	0.571
Toluene	ISO 6179:2010 (B)	g/m ² /h	0.583
Petrol	ISO 6179:2010 (B)	g/m ² /h	0.135
Gas Permeability			
Methane Permeability	BS EN ISO 15105-1	ml/m ² /day/atm	<0.09
Carbon Dioxide Permeability	BS EN ISO 15105-1	ml/m ² /day/atm	<0.09
Radon Permeability	K124/02/95	m ² /s	8.0 x 10 ⁻¹⁵

Standards Compliance

Independently certified performance, BBA certificate (No. 21/5880).

BRE Digest 211:2015 Radon: Guidance on protective measures for new buildings.

BRE Digest 212: Construction of new buildings on gas contaminated land.

CIRIA 665 - CS 2 to 6

BS8485:2015 + A1:2019: Table 7

NHBC Technical Extra 07 - AMBER 1 & 2

Specification Clause

The gas resistant membrane shall be Proofex Total, laid onto a suitably prepared surface, and jointed using Proofex Total Tape or with specialist welding equipment in accordance with the manufacturer's written instructions. Where the product installation is required to contribute to a BS8485:2015+A1:2019 ground gas protection solution, the product installation shall be assessed by an independent suitably qualified verification specialist.

Application Instructions

For more detailed guidance refer to the Proofex Total Method Statement

Preparation

Under-slab membrane installation

The membrane may be laid onto rigid insulation board, well compacted stone with no sharp projections, smooth, level concrete blinding or geo-composite void formers. The sub-base should be firm and able to support the membrane with no deflection or depressions forming during the subsequent reinforcement and concrete installation. Dry and dusty surfaces should be wetted to increase cohesion. The membrane should be protected from damage from point loads above and/or below the membrane through the use of rigid insulation board, Proofex Protection Board or a protective geotextile (300g/m² minimum weight)

Over-slab / precast floor membrane installation

The top surface of the concrete slab or precast flooring system (plank or beam and block) should be free from ridges, undulations and sharp projections. If this is not the case the membrane should be laid onto a protective layer such as rigid insulation boards or a geotextile (300g/m² minimum weight).

Laying

The membrane should be laid neatly without creases with the black surface facing upwards. Angles and corners should be formed in accordance with Fosroc standard detail drawings with the membrane tucked well into angles and fully supported so that there are no voids underneath. At locations where there is the potential for settlement or movement to occur the membrane should be folded.

Lapping and jointing

Laps and joints may be sealed with a minimum 100mm lap by welding with specialist equipment or by using Proofex Total Tape.

Where Proofex Total Tape is to be used the membrane surfaces to which the tape is to be applied should be clean and dry. The tape should be positioned on the lower sheet 50mm away from the edge of the membrane. Firmly bond to the membrane with a solid wheel roller before removing the protective film from the tape. Position the second upper sheet over the tape to form the 100mm lap with the edge of the membrane flush with the edge of the tape. Ensure that the surface of the membrane that is to bond to the tape is clean and dry before removing the protective film from the tape and firmly bonding the membrane to the tape using a solid wheel roller. N.B. There should be no gaps in the tape installation.

Welded joints should be undertaken by a Construction Skills NVQ Level 2 qualified operative using suitable specialist equipment. The welding temperature for Proofex Total is 180°C - 240°C depending on air temperature, power supply and welding equipment condition and therefore trials should be undertaken prior to start of the welding work. The recommended welding speed is 1.5m/min on low air flow. The welded seam should be 50mm wide and positioned close to the edge of the upper membrane forming the 100mm lap. N.B. There should be no gaps in the welded seams.

All laps whether welded or taped should be integrity tested in accordance with CIRIA C735 as part of the installation assessment by an independent validation specialist in accordance with the validation plan issued for the project.

Protection

Protect the completed membrane installation adequately to prevent damage and puncture using rigid insulation board, a geotextile (300g/m² minimum weight) or Proofex Protection Board prior to continuing with the construction work. Any areas of membrane that are not immediately covered should be clearly excluded from site traffic.

Penetrations

Where possible, services should be routed such that they do not pass through the membrane, thus minimising the number of penetrations where there is greater vulnerability to gas ingress in accordance with BS8485:2015+A1:2019.

Where penetrations are unavoidable, the membrane should be sealed to the pipe or duct using Proofex Top Hats, Proofex Total Flashing Tape or Proofex 3000MR as detailed in Fosroc standard detail drawing GRB03.

Other forms of penetration such as steel stanchions or access chambers should be detailed in accordance with the relevant Fosroc standard or project specific detail drawing.

Inspection and Repair

The membrane should be inspected immediately prior to concealment and, should any holes or tears be found, these should be repaired using patches of Proofex Total taped or welded in place using Proofex Total Tape with at least a 150mm lap beyond the extremity of the puncture using the method detailed above with no gaps in the tape or welded seam. Alternatively patches of Proofex 3000MR or Proofex Flashing Strip may be used.

Installation Assessment

Where the membrane installation is required to contribute to a ground gas protection solution in accordance with BS8485:2015+A1:2019, the membrane installation should be assessed by an independent validation specialist in accordance with the project specific validation plan.

Ancillary products

Proofex Total Tape

50mm wide double-sided butyl tape for sealing lap joints and for use in detailing work.

Proofex Top Hats

Pre-formed pipe collar with a flat base to simplify pipe penetration details. Available in standard diameters 110mm and 160mm. Other sizes available to order.

Proofex Total Flashing Strip

300mm wide gas-resistant self-adhesive tape for detailing around penetrations and columns and for repair of localised damage to the membrane damaged during and after installation.

Estimating

Proofex Total

Roll width:	2m
Roll length:	50m

Proofex Total Tape

Tape width:	50mm
Tape length:	30m
Tape thickness:	1.5mm

Proofex Total Flashing Strip

Length	10m
Width	300mm
Thickness	1.5mm

Storage

Store in original unopened packaging, in cool dry conditions, away from direct sunlight.

Precautions

Health and safety

Rolls of membrane should be handled in accordance with safe working practices. Suitable personal protective equipment should be used during membrane installation in accordance with the method statement issued by the installation contractor.

Fosroc and Proofex are trademarks of Fosroc International Limited



Supports construction of Passivhaus buildings which can achieve net zero carbon emissions over the life of the structure. Energy required for heating can be 90% less than a conventional design.



Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Services, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.

Fosroc International Limited

Drayton Manor Business Park
Coleshill Road, Tamworth,
Staffordshire B78 3XN. UK

www.fosroc.com

Telephone:
+44 (0) 1827 262222

Fax:
+44 (0) 1827 262444

Email:
enquiryuk@fosroc.com



High performance methane, radon and carbon dioxide resisting, self-adhesive waterproof membrane for basements and below ground structures

Uses

A high performance self-adhesive membrane for resisting methane, radon, and carbon dioxide, and preventing water entering buildings. Proofex 3000MR also provides a vapour and waterproof membrane to water excluding structures and protects concrete from attack by aggressive ground salts.

Advantages

- Aluminium film provides methane, radon and carbon dioxide resistance, protection against damage and gives dimensional stability.
- Solar reflective finish reduces heat gain whilst membrane is exposed during construction.
- Combines toughness with flexibility for detailing around corners, pipes, etc.
- Self-adhesive layer system makes installation quick, simple and reliable.
- Resistant to ground water, soluble sulfates, and chlorides.

Description

Proofex 3000MR is a cold applied, flexible, waterproof, ground gas resistant, high performance Type A waterproofing barrier membrane, as defined in BS8102:2022, 'Protection Of Structures Against Water From The Ground'. It incorporates an aluminium layer and a polymer modified bitumen compound on a high strength polymer backing film.

Specification clause

The waterproofing membrane shall be Proofex 3000MR, BBA Certificate 22/6063, bonded to a prepared, smooth, void free substrate, primed with Proofex Primer. Installation shall be in accordance with the manufacturer's published instructions and the installed membrane shall be protected against damage with either Proofex Protection Board or Proofex Sheetdrain 80.



CE 1029 08 1029-CPR-GB19/964288	UK CA 0120 22 1029-CPR-GB08/75673
DOP: UK9-55	
Fosroc International Limited Drayton Manor Business Park, Coleshill Road, Tamworth, B78 3XN, UK	
Proofex 3000MR	
EN 13707:2013 and EN 13969:2004 Flexible sheets for waterproofing	
Thickness (EN 1849-1)	≥ 1.2mm
Tensile Strength (EN 12311-1)	Long. 185 N/50 mm Trans. 200 N/50 mm
Elongation at Break (EN 12311-1)	Long. >10% Trans. >20%
Resistance to impact (EN12691)	Met. A ≥ 1750mm Met. B ≥ 1000mm
Static load resistance (EN 12730)	Met. A ≥ 15 Kg Met. B ≥ 20 Kg
Tear Resistance (EN 12310-1)	Long. ≥ 45 N Trans. ≥ 45 N
Watertightness (EN 1928:2000)	Method A: Pass at 6m head
Water vapour transmission rate after artificial ageing (EN1931)	μ = 3950000 ±30%
Water vapour transmission rate after artificial ageing (EN1931)	μ = 2850000 ±30%
Flexibility at low temperatures (EN 1109)	<-30°C
Peel resistance of joints (EN 12316-1)	>80 N/50mm
Shear resistance of joints (EN 12317-1)	Long. 220N/50mm Trans. 260N/50mm
Resistance to flow at elevated temperature (EN 1110)	>80°C
Resistance to flow at elevated temperature after artificial ageing (EN 1296 / EN 1110)	>85°C

Standard compliance

Compliant with the permeability requirements of:
BS8485:2015+A1:2019 Table 7 (sheet and joints)

Proofex 3000MR complies with EN 13707:2004 and EN 13969:2004.

Radon Permeability Table 3 of Building Regulations September 2004 (Ireland), Technical Guidance Document C.

Independently certified performance, BBA certificate (No.22/6063).

Independently certified for solar reflectance index to ASTM E1980.

Properties

Radon Transmission Rate	0.47 x 10 ⁻⁹ m/s
Permeability to Radon Gas	0.56 x 10 ⁻¹² m ² /s
Permeability to Methane Gas (membrane) (BS ISO 15105-1)	< 5 ml/day/m ² /atm
Permeability to Methane Gas (lapped) (BS ISO 15105-1)	< 1 ml/day/m ² /atm
Application temperature	+ 5°C / + 35°C
Service temperature	- 40°C / +80°C
Peel adhesion to primed concrete (ASTM D1000)	2.0 N/mm at 23°C
Solar Reflectance Index (ASTM E1980)	103

Application instructions

Where methane, radon or carbon dioxide is present, a comprehensive site survey must be carried out and the building constructed accordingly. Refer to BS8485:2015+A1:2019 and BR211:2023 for further information.

Proofex 3000MR should be laid in accordance with the provisions of BS 8102:2022.

Surface preparation

All concrete surfaces must be a wood float or shutter finish and free from cavities or projections.

Masonry surfaces must be flush pointed and free of voids.

Steel surfaces to be free of rust and scale and prepared to ST3 standard.

All surfaces must be clean, sufficiently dry to prevent transfer of moisture, free of standing water, contamination, ice, and frost.

Priming

Surfaces shall be primed with Proofex Primer. Ensure complete coverage and allow to dry. Only prime an area to which the Proofex 3000MR can be applied the same day. Very porous surfaces may require more than one coat of primer. For details about Proofex Primer SP supply and application, refer to the separate data sheet.

Angle and corner details

A 40mm fillet should be formed at all internal angles using Proofex LM or Renderoc Plug 20.

Where possible, a 25mm chamfer should be provided to all external angles prior to application of the reinforcing strip.

All internal and external angles should be reinforced with Proofex Detail Strip or a 300 mm wide strip of Proofex 3000MR.

Application

Application temperature range with Proofex Primer: 5°C to 35°C.

Vertical application:

Cut the Proofex 3000MR to length allowing 150 mm for end laps / 75mm for side laps and position by peeling back the release paper and applying the self-adhesive face to the prepared surface.

Start at the top of the wall and work down by progressively removing the release paper in stages. Proofex 3000MR should be applied to ensure that all end laps are weathered.

A temporary batten, or other support of the Proofex 3000MR membrane is required before backfilling.

Horizontal application:

Completely unroll the Proofex 3000MR membrane and place against a chalk line.

One half of the roll should then be rolled up to the mid-point, the release paper carefully cut, without damaging the Proofex 3000MR membrane and progressively removed from the mid-point out to the end of the roll.

This process should be repeated on the other half of the roll. The Proofex 3000MR membrane should be brushed onto the surface to ensure good bonding.

The next roll or length is aligned against the previously applied piece allowing for 75mm minimum edge laps and 150 mm end laps and applied as stated previously. The edge and end laps should be rolled to ensure complete adhesion and continuity between the layers.

For deck waterproofing applications where the lapping arrangement results in a side lap detail / end lap detail interface apply a 10mm diameter bead of Nitoseal MS60 to seal the joint.

Penetrations

Penetrations e.g. pipe entries through the Proofex 3000MR membrane require special attention to detail. Use of Proofex Top Hats is recommended and should be stuck to membrane using Proofex Total Tape and sealed to pipe with Nitoseal MS60. For more information see Fosroc Standard Drawings SAM19, 23 & 24.

Protection

Proofex 3000MR membrane should be protected from physical damage and weathering as soon as possible after application. Surfaces should be protected from damage by Proofex Protection Board.

Proofex 3000MR can also be covered with Proofex Sheetdrain to give both protection and a drainage layer.

Backfilling

Backfill must be free from any sharp objects or debris which could damage the Protection/Proofex 3000MR. It should be a well graded material, not containing any rocks or boulders larger than 50mm. Backfilling should be carried out as soon as possible after application, preferably the same day.

Ancillary products

Proofex Protection Board

Bitumen impregnated board, designed to protect membranes from damage through backfilling and trafficking.

Proofex Sheetdrain 80

Geocomposite HDPE drainage and protection membrane

Proofex LM

A two component trowellable membrane for sealing around intricate details such as pipe entries, penetrations, pile caps etc.

Renderoc Plug 20

Rapid setting, cement-based, water-stopping mortar for forming fillets at internal angles.

Nitoseal MS60

Single component gun-applied sealant.

Proofex Detail Strip

A reinforced, double sided waterproof adhesive tape for use as reinforcing at all floor and wall junctions. It consists of a strong synthetic fibre fabric impregnated and coated both sides with a butyl adhesive, which is protected by a removable siliconised paper.

Proofex Top Hat

Preformed pipe collar for use at service penetrations.

Proofex Angle Fillet

Strips fixed at all floor and wall junctions with a 6mm bead of Nitoseal MS60

Estimating

Proofex 3000MR

Roll size:	1 m x 20 m
Roll area:	20 m ²
Edge laps:	75 mm minimum
End laps:	150 mm minimum
Roll weight:	25 kg

Proofex Primer

(Refer to separate data sheet for Proofex Primer SP)

Coverage:	6 to 8 m ² /litre
Min Application Temp	+5°C & rising
Drying time @ 20°C:	1 to 2 hours
Pack size:	5 ltr and 25 ltr drums

Proofex Detail Strip

Thickness:	1.5 mm
Roll size:	200 mm x 10 m

Proofex Top Hat

Diameter:	110mm	160mm
Flange size:	330mm x 330mm	380mm x 380mm

Proofex Protection Board

3 mm Thickness:	1000 mm x 2000 mm
Coverage:	2.0 m ²

Proofex Sheetdrain 80

Roll size:	2.4 m x 20 m
-------------------	--------------

For estimating guidance for other listed products refer to the relevant product data sheet.

Technical Datasheet

Storage

Proofex 3000MR has a shelf life of 12 months from date of manufacture and must be stored in an upright position at a temperature between 5°C and 35°C.

Proofex Primer has a shelf life of 2 years. The 25 litre tins of Proofex Primer should not be stacked more than 2 high.

Precautions

Health and safety

For information on Proofex Primer refer to Product Safety Data Sheet.

Proofex Primer is flammable. Keep away from sources of ignition. No smoking. In the event of fire, extinguish with CO₂ or foam. Do not use a water jet.

Flash Point

Proofex Primer: >39°C

Fosroc and Proofex are trademarks of Fosroc International Limited

****RR2S** when used with Proofex Primer SP.



Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Services, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given. All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.

Fosroc International Limited

Drayton Manor Business Park
Coleshill Road, Tamworth,
Staffordshire B78 3XN, UK

www.fosroc.com

telephone:
+44 (0)1827 262222

email:
enquiryuk@fosroc.com

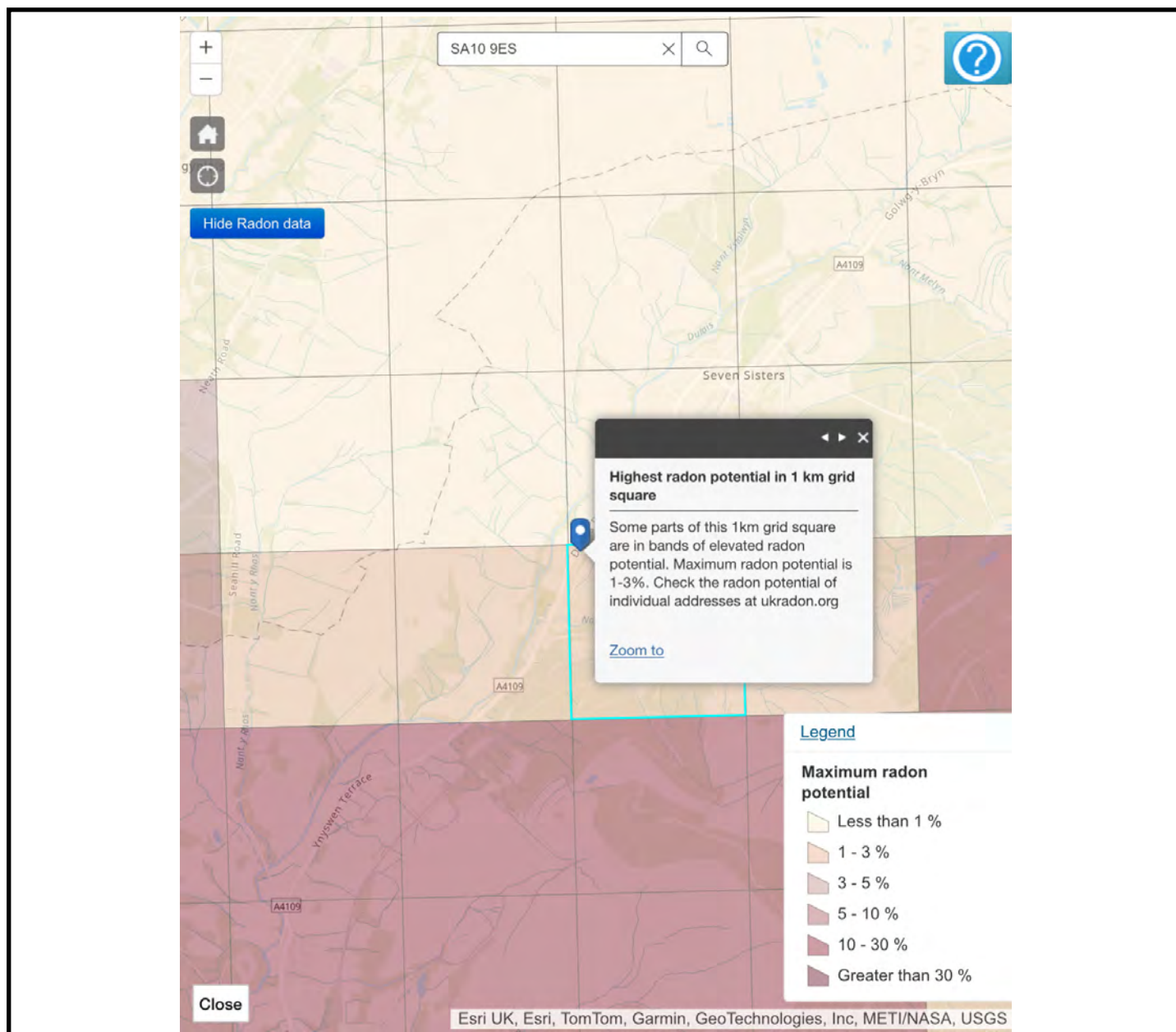




GeoShield Verification Plan



RADON MAPS UK - (Map 1) Site Location



Maximum Radon Potential:

1-3%

Description:

No radon protection measures are required.

Postcode:

SA10 9ES



GeoShield Verification Plan



CLIENT DETAILS

CLIENT CONTACT:	Rhys Costain
CONTACTS ROLE:	
MOBILE PHONE:	
EMAIL ADDRESS:	



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



GeoShield Verification Plan



APPLICATOR'S DETAILS

APPLICATOR NAME:

COMPANY:

APPLICATOR TEL:

APPLICATOR EMAIL:

APPLICATOR NAME:

COMPANY:

APPLICATOR TEL:

APPLICATOR EMAIL:

NOTES:



GeoShield Verification Plan



HEALTH AND SAFETY

INDUCTION:

YES



NO:



INDUCTION TIME:

CSCS CARD:

YES



NO:



CSCS CARD NUMBER:

5369294

METHOD STATEMENT:

YES



NO:



RISK ASSESSMENT:

YES



NO:



COSHH:

YES



NO:



SITE SPECIFIC HAZARDS:

Materials falling from height

Slips, trips and falls

Excavations

Confined spaces

Plant



GeoShield Verification Plan



APPLICATOR'S DETAILS

TRAINING LEVEL:

SPECIALIST CONTRACTOR:	YES	☐	NO	☒
NVQ LEVEL 2:	YES	☐	NO	☒
NVQ LEVEL 4:	YES	☐	NO	☒
COMPETENT APPLICATOR :	YES	☒	NO	☐

REASON FOR VISIT:

DURING INSTALLATION:	☒	UNDERSLAB VENTILATION	☐
PRE - POUR:	☐	DPC MEMBRANE CONNECTION	☐
TESTING:	☒	OTHER (PLEASE SPECIFY):	☐

NOTES: See method statement for breakdown of site visits.

NOTES:



GeoShield Verification Plan



Houses/Apartments/Garages

In accordance with guidance from
CIRIA 735 & CIRIA C748.

Radon gas protection measures
specify to the guidance from the
BR 211 document:

VOC/Hydrocarbons

☐

RADON BASIC

☐

RADON FULL

☐

Characteristic Specification (CS) Rating

CS 2

Building Type:

TYPE D

POINTS REQUIRED UNDER BS8485:2019

1.5 POINTS

POINTS GAINED FROM BS8485:2019

Score for Structural Barrier:

1 POINT

Grade 2 Basement:

N/A

Grade 3 Basement:

N/A

Score for Venting:

N/A

Car Park:

N/A

Score for Membrane:

2.0 POINTS

POINTS ACHIEVED UNDER BS8485 2019:

3 POINTS



GeoShield Verification Plan



TESTING PROCEDURES

VISUAL: PICK & PROBE/MECHANICAL POINT STRESS TEST:



NON-DESTRUCTIVE COMPRESSED AIR LANCE TEST:



NON-DESTRUCTIVE SMOKE TEST:



DESTRUCTIVE JOINT TESTING:



NON-DESTRUCTIVE TRACER GAS TESTING:



DIELECTRIC POROSITY TEST:



PUMP TEST FOR "Twinny" WELD



NOTES: From the risk assessment GeoShield will initially conduct a visual

NOTES: and pick and probe testing regime for this project.

NOTES: Air lance testing will be conducted to test the installed membrane in

NOTES: accordance with CIRIA 735.

NOTES:

NOTES: Only if the application falls below the accepted standard will other testing

NOTES: be used.

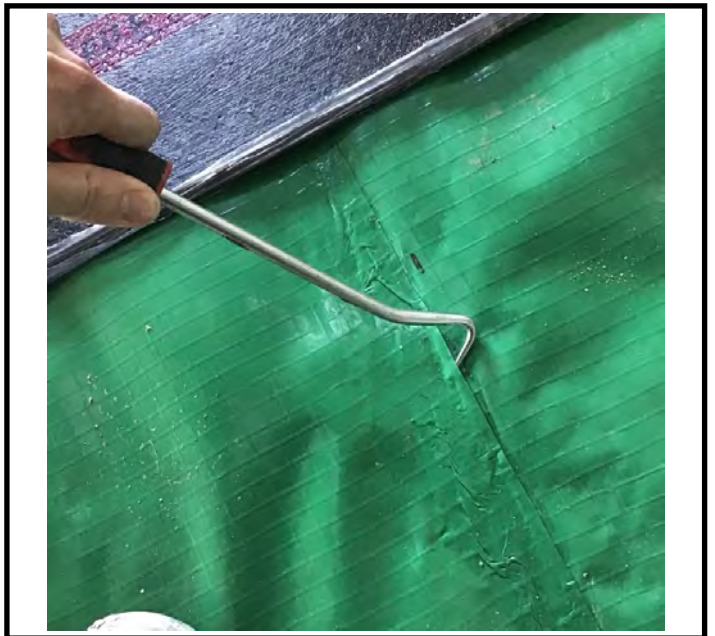
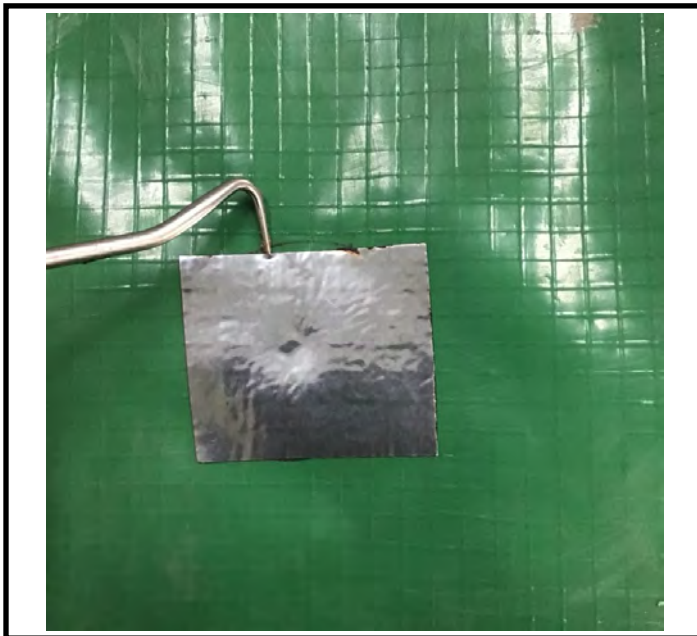


GeoShield Verification Plan



SPECIFICATION

Mechanical Point Stress/ 'Pick and Probe' Testing



CIRIA 735

4.3.2 - Mechanical point stress tests involve running a blunt instrument (e.g. a screwdriver) along the edge of a seam to identify any unbonded seams. This method is not as effective as air lancing but it can be especially useful in hard to reach areas where it is not possible to air lance.

The instrument used should not puncture the gas membrane. This method is less appropriate for materials that are easily punctured where an air lance test is more suitable (although if a gas membrane can be easily punctured its suitability as a membrane is open to question).



GeoShield Verification Plan



SPECIFICATION

Air Lance Testing



CIRIA 735

4.3.3 - Air lance testing identifies unbonded areas of seam by directing a high pressure jet of air at the seam. The air is at a minimum pressure of 345kPa via a 4.8mm nozzle and is located no more than 50mm from the seam being tested.

In order to achieve the requirements of ASTM D4437-08:2013 bespoke specialist equipment is required to maintain the required pressure.



GeoShield Verification Plan



RISK ASSESSMENT

SITE SPECIFIC CIRCUMSTANCES	1	2	3	4	5
Complexity of Design	1	✓ 2	3	4	5
Repetition of design	1	2	✓ 3	4	5
Experience of workforce	1	✓ 2	3	4	5
Gas regime	1	✓ 2	3	4	5
Project management experience	1	✓ 2	3	4	5
Installation conditions (exposed?)	1	2	✓ 3	4	5
Robust Project specific gas design	1	✓ 2	3	4	5

TYPE OF RISK	RANGE	RISK
High Risk	23 - 30	
Medium High Risk	19 - 22	
Medium Risk	15 - 18	16
Medium Low Risk	11 - 14	
Low Risk	0 - 10	

GeoShield have classed this project as a medium risk.

GeoShield will lay all parameters down for standards at the pre-verification meeting to assist both the installer and the main contractor.



GeoShield Verification Plan



VERIFICATION REPORT

These items will be included in the report

- NUMBER 1 GAS MEMBRANE SPECIFICATION
- NUMBER 2 ELEMENTS OF THE GAS MEMBRANE
- NUMBER 3 DATE, TIME and WEATHER CONDITIONS
- NUMBER 4 PLANS and DETAILS ISSUED
- NUMBER 5 INSTALLATION PHOTO's RELATING TO GRID LINES
- NUMBER 6 REPORTING DEFECTS AND LOGGING IN REMEDIATION LOG
- NUMBER 7 AREAS OF LIMITATION (areas unable to inspect)
- NUMBER 8 LOGGING AND REPORTING RESULTS OF TESTING

VERIFICATION REPORT ISSUE

HARD COPY: YES ☒ NO ☐

EMAIL: YES ☒ NO ☐

DROP BOX LINK: YES ☒ NO ☐

FLASH DRIVE: YES ☐ NO ☒



GeoShield Verification Plan



GEOSHIELD COMPETENCE

>GeoShield was founded in 2015

>GeoShield solely verifies, they are fully independent of installers, manufacturers and geotechnical companies.

>GeoShield follow guidance in CIRIA 735 (sufficient experience, membership of relevant professional organisations) GeoShield are members of the BVC, BGA, ERA The RADON Council, and UKRA

>Currently GeoShield hold the Chairmanship of the British Verification Council

>Two employees are NSAC Level 3 assessors for the NVQ 2 Gas Membrane install

>GeoShield were key in forming the NVQ 4 Verification qualification in which 2 Verification officers are undertaking this qualification

>GeoShield have the only qualified assessor for the NVQ 4 Verification qualification

>GeoShield Verification officers currently keep up to date CPD's

>All GeoShield Verification Officers have a full understanding of gas membrane install including 3 experienced (NVQ 2) installers in the GeoShield team

>GeoShield Verification Officers are all independent carrying their own air

compressors. Other testing equipment GeoShield have access to are 2 x Buckley

Dielectric Testing machines and also inert gas testing equipment



GeoShield Verification Plan



METHOD STATEMENT - Page 1

EXPECTED VISITS:- 1 site visit is expected in line with the proposed build

programme, additional visits may be considered (if required) to achieve sign off.

TESTING:- Mechanical Point Stress (Pick & Probe) testing on taped/welded

Areas. Air lance testing will be carried out (as per CIRIA C735 Annex 1, Table A3).

Only if the application falls below the accepted standard will other testing be used.

This project will NOT achieve sign off for gas membrane installation unless

independent verification is carried out.

PURPOSE:- Geoshield are 3rd party gas membrane verifiers in accordance with

CIRIA 735 and for this project to be compliant with BS8485:2019, the gas system

must meet certain criteria from Tables 5, 6 & 7 to achieve mitigation of score for

verification. The chosen membrane must be verified by Geoshield to ensure the

materials have been installed in accordance with the manufacturer's specification.

REPORTING:- Each site visit be accompanied with a written and electronic report.

Any remediations either completed on the visit or outstanding will be recorded

and logged, sign off will not be achieved for each section area until all

remediations have been completed. This will be fully recorded at all times.



GeoShield Verification Plan



METHOD STATEMENT - Page 2

GROUND GAS RISK:- From the Ground Gas Design Report this project has been classified as a Type D buildings and a CS rating of 2 in accordance with BS8485:2015+A1 2019, so this project will require a minimum score of 1.5 points for mitigation.

This will be achieved by 3rd party verification of the gas membrane and reinforced concrete slab slab, where applicable to the site specific design.

A combination of which will achieve the necessary requirements.

GAS MEMBRANE PROTECTION:- It is advised that the substrate should be prepared by removal of loose stone and debris. Other forms of protection could be in the form of either a protection board, geotextile fleece and insulation. In addition labels will be issued by Geoshield to restrict access to the installed area by follow on trades and help raise awareness to encourage a better duty of care. This will help to reduce the risk of potential damage caused to the gas membrane system.

FINAL:- Geoshield will liaise with the projects site supervision and all relevant parties prior to the installation start. This plan will be presented and reviewed, all points made clear as previously stated. Any alterations will be listed at the end of this plan as an all party agreed way forward.

BGA
British Geomembrane Association

GeoShield Verification Plan



TESTING PROCEDURE

Method Statement - Pipe Penetrations and Service Entries Notice Signs



Geoshield Notice Signs -

During testing on site, notice signs will be tied to all pipe penetrations and a service entries which have not passed inspection.

Areas cannot be passed unless verification stickers have been applied to the Notice Signs, once remediations have been successfully carried out.



GeoShield Verification Plan



TESTING PROCEDURE

Method Statement - Membrane Sticker Notice Signs



Geoshield Notice Signs -

During testing on site, areas cannot be passed unless verification stickers have been applied, once remediations have been successfully carried out.



GeoShield Verification Plan



SUBSTRATE METHOD STATEMENT

SUBSTRATE TYPE:

Block and Beam Construction	Yes	☐	No	☒
-----------------------------	-----	--------------------------	----	-------------------------------------

Minimum Preparation	Swept Clear	Yes	☐	No	☒
---------------------	-------------	-----	--------------------------	----	-------------------------------------

Minimum Preparation	Vacuuming	Yes	☐	No	☒
---------------------	-----------	-----	--------------------------	----	-------------------------------------

Minimum Preparation	Compressed air to remove	Yes	☐	No	☒
---------------------	--------------------------	-----	--------------------------	----	-------------------------------------

Minimum Preparation	Remove Mortar Droppings	Yes	☐	No	☒
---------------------	-------------------------	-----	--------------------------	----	-------------------------------------

Stone Substrate	Yes	☒	No	☐
-----------------	-----	-------------------------------------	----	--------------------------

Minimum Preparation	Minimum 25mm Sand Blinding	Yes	☐	No	☒
---------------------	----------------------------	-----	--------------------------	----	-------------------------------------

Minimum Preparation	Limestone Dust	Yes	☐	No	☒
---------------------	----------------	-----	--------------------------	----	-------------------------------------

Minimum Preparation	Compacted Substrate	Yes	☒	No	☐
---------------------	---------------------	-----	-------------------------------------	----	--------------------------

Minimum Preparation	No large stones	Yes	☒	No	☐
---------------------	-----------------	-----	-------------------------------------	----	--------------------------

Concrete Substrate	Yes	☒	No	☐
--------------------	-----	-------------------------------------	----	--------------------------

Minimum Preparation	No Hollows	Yes	☒	No	☐
---------------------	------------	-----	-------------------------------------	----	--------------------------

Minimum Preparation	Troweled Surface	Yes	☒	No	☐
---------------------	------------------	-----	-------------------------------------	----	--------------------------

Remarks:	
----------	--

--

--



GeoShield Verification Plan



PRE-CONTRACT MEETING

Items for discussion at the Pre-Contract meeting	☐
>Induction Procedure	☐
>Identification of installation team and point of contact	☐
>Identification of Project management team	☐
>Identification of Sub-Contractors associated with membrane installation	☐
>Validation of Membrane and design specification	☐
>Verification procedure	☐
>Notifications for Verification	☐
>Preparation of substrate	☐
>Program of works	☐
>Utility entry	☐
>Protection of Membrane	☐
>Remediation Procedure	☐
>Testing Procedures	☐
>Sign off Procedure	☐
>Installer PI	☐

All information is assumed correct at time of issue.

DATE:



GeoShield Verification Plan



PRE-CONTRACT MEETING SUMMARY

As discussed in this Pre Verification Plan, the installation and verification of Fosroc products. All details and drawings in this verification plan have been discussed so now the installers must run through how they will install the Fosroc products. The indented method and manufacturers specification have been discussed in relation to the details provided for the project. Methods for preparation before installation have been laid out so the workers are made aware of the standards required to gain consent from the local authorities in order to satisfy and discharge planning consent. In addition to this aftercare of the Fosroc products such as the Fosroc Proofex Total Membrane and Proofex 3000MR self adhesive during, after installation, and after verification.

Finally GeoShield have discussed the site visits that are required and what testing and verification will be carried out to the highest standard and verification principles associated with CIRIA 735 and BS8485:2015 +A1 2019.



GeoShield Verification Plan



PRE-CONTRACT MEETING SUMMARY

A pro-forma quality assurance document will be discussed during the Pre-Verification meeting and training undertaken with the management team for non verified areas.

The Pre-Verification meeting will be led by Geoshield and should include all relevant parties who have an impact on the installation and future protection. Geoshield will provide guidance and strategy for all parties.

The site specific checklist will be covered as well as the risk assessment.

This site has been classified as a CS2 Type D building.

Any design alterations will be discussed and included in a revised Pre-Verification Plan.

Any specification changes must also be included in a revised Pre-Verification Plan.

All items will be minuted by the Geoshield representative.

This Pre-Verification plan follows all current guidance and the aim is to make all parties aware of the ramifications of poor installation and their responsibilities if they damage the membrane.

