



GeoShield Verification Plan



PROJECT DESCRIPTION

GEO106151

The Trustees of the Alitex DBSSAS
2-6 Seagull Lane,
Emsworth,
PO10 7QH

The proposed development for which gas protection measures are required involves the construction of 8 new commercial units.

In accordance with BS8485:2015 + A1 2019, the Type C buildings must conform to a Characteristic Specification (CS) rating of 2, so mitigation will need to be 2.5 points for the site.

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.

In summary, the design does achieve a required level of attention to detail with its robust specific gas membrane design (2 points), & reinforced concrete slab (1.5 points).

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: GEO106151

PROJECT: 2-6 Seagull Lane

PROJECT ADDRESS: 2-6 Seagull Lane,

Emsworth,

PO10 7QH

SPECIFICATION: Verified in accordance with CIRIA 735.

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

Substrate prepared in accordance with manufacturer's instructions.

Visqueen NF-400 Membrane

Visqueen NF Detailing Tape

VisqueenPro double sided jointing tape

Visqueen NF 150 Lap Tape

Visqueen NF-60 Lap Tape



GeoShield Verification Plan



NAME OF SURVEYOR:

Paul Colbeck

VERIFICATION COMPANY:

GeoShield Limited

Icon Business Centre

4100 Park Approach

Thorpe Park

Leeds

CONTACT NUMBER:

07462 546 926

EMAIL ADDRESS:

pcolbeck@geoshield.co.uk

ORDER NUMBER:

To be confirmed

PER VISIT:

YES:

☐

NO:

☐

PROJECT:

YES:

☐

NO:

☐



GeoShield Verification Plan



INFORMATION INCLUDED

Ground & Water Remediation Strategy and Verification Plan

Site Drawings

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

geotechnical and environmental consultants



Remediation Strategy and Verification Plan

2 - 6 Seagull Lane, Emsworth, Hampshire PO10 7QH

The Trustees of the Alitex DBSSAS

Report Reference: GWPR6838/RS&VP/May 2026		Status: DRAFT
Issue	Prepared By	Checked and Verified By
v.1.2		
	Natasha Kearl BSc (Hons) AMIEnvSc Lead Geoenvironmental Engineer	Francis Williams MGeol (Hons) FGS CEnv AGS CGeol Director

Site Investigations | Environmental Consultants | Geotechnical Engineers

2 The Long Barn, Norton Farm, Selborne Road, Alton, Hampshire GU34 3NB
0333 600 1221 enquiries@groundandwater.co.uk groundandwater.co.uk

Registered Office: Kineton House, 51 Horse Fair, Banbury, Oxfordshire OX16 0AE. Registered in England No. 07032001

Title Reference & Description:

Ground & Water Remediation Strategy and Verification Plan

Front Cover

SPECIFICATION



Therefore, based on the above, the following two options are present:

Due to the proposed development not worsening the situation regarding groundwater contamination on-site, the “do nothing” approach should be considered as an option. Whilst this does not actively better the situation through remediation, the natural attenuation of the contamination within the groundwater will continue. There would also be no financial cost, programming implications or carbon footprint relating to this option. It should also be noted that due to there being a significant source of contamination being off-site, the chance of re-contamination cannot be discounted. There is also a significant amount of soils being removed as part of the development which will remove any gross contamination found during the construction phase.

3.4. Remediation Strategy Relating to Ground-Gas, Vapours and Radon

Based on risk assessment undertaken, the site warrants classification as Characteristic Situation CS2, where precautions to prevent the ingress of ground-gas are necessary. Type C buildings on CS2 classified sites require 2.5 points worth of protection, in accordance with BS8485:2015+A1:2019. Points must be made up through a structural barrier and a membrane, where at least two methods are incorporated. Basic radon protection measures are also required and it should be checked that any membrane installed will protect against both ground-gases and radon.

The type of remedial measures that can be applied are influenced by the foundation design of the properties. A cross section of the slab design within Units 1 – 8 has been provided within Appendix C. The cross section shows that a concrete slab is to be constructed onto rigid insulation before compacted Made Ground. Whilst not documented on the cross section, there are also to be minimal service entries through the slab, with some noted to be within pits and some not. The slab was also to be reinforced and a minimum thickness of 200mm. A multi-purpose ground-gas, radon and waterproofing protection membrane was to be installed below the RC slab.

Based on the above, the following remedial measures are required to ensure suitable ground-gas protection in alignment with CS2 conditions. It should be noted that BS8485 should not be used as a points system.

Required Gas Protection Measures				
Block	Required Points	Foundation Design	Further Remedial Measures	Total Score
Units 1 – 8 (Type C Building)	2.5 (CS2 classification)	- Reinforced concrete slab cast directly onto insulation and hardcore. Floor slab a minimum thickness of 200mm, with reinforcement. (1.5 points) - Minimal service entries through the slab with some noted in pits	A multi-purpose membrane protecting against ground-gas, water ingress, vapours and radon below the slab (2 points)	3.5

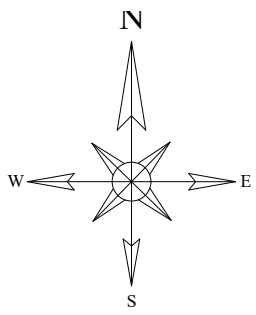
3.4.1. Cast In-Situ Reinforced Concrete Slab

In accordance with BS8485: Any floor slab would need to ensure it is suitably reinforced to minimise potential cracking and must have limited penetrations caused by services. This reinforcement should be in accordance with Annex A, Section 2.2.2.

Title Reference & Description:

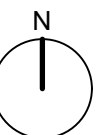
Ground & Water Remediation Strategy and Verification Plan

Characteristic Situation 2 Rating



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notes:



NOTE: The contractor is responsible for checking all site dimensions and levels. These should be checked prior to the ordering of any components and before the commencement of the works. All discrepancies should be brought to the attention of the Contract Administrator

revisions:	A		10.02.2022		PT		Issued for Planning
	B		09.08.2022		PT		Unit 8 parking amended
	C		30.01.2025		PT		Updated for building control
	D		16.04.2025		PT		New substation positioned, bin store relocated
	E		30.04.2025		PT		Proposed substation repositioned
	F		30.04.2025		PT		Issued for tender

revisions:

Trustees of The Alitex DBSSASS
Seagull Lane
Emsworth, Hampshire, PO10 7QH
drawing information title : **Proposed Site Plan**

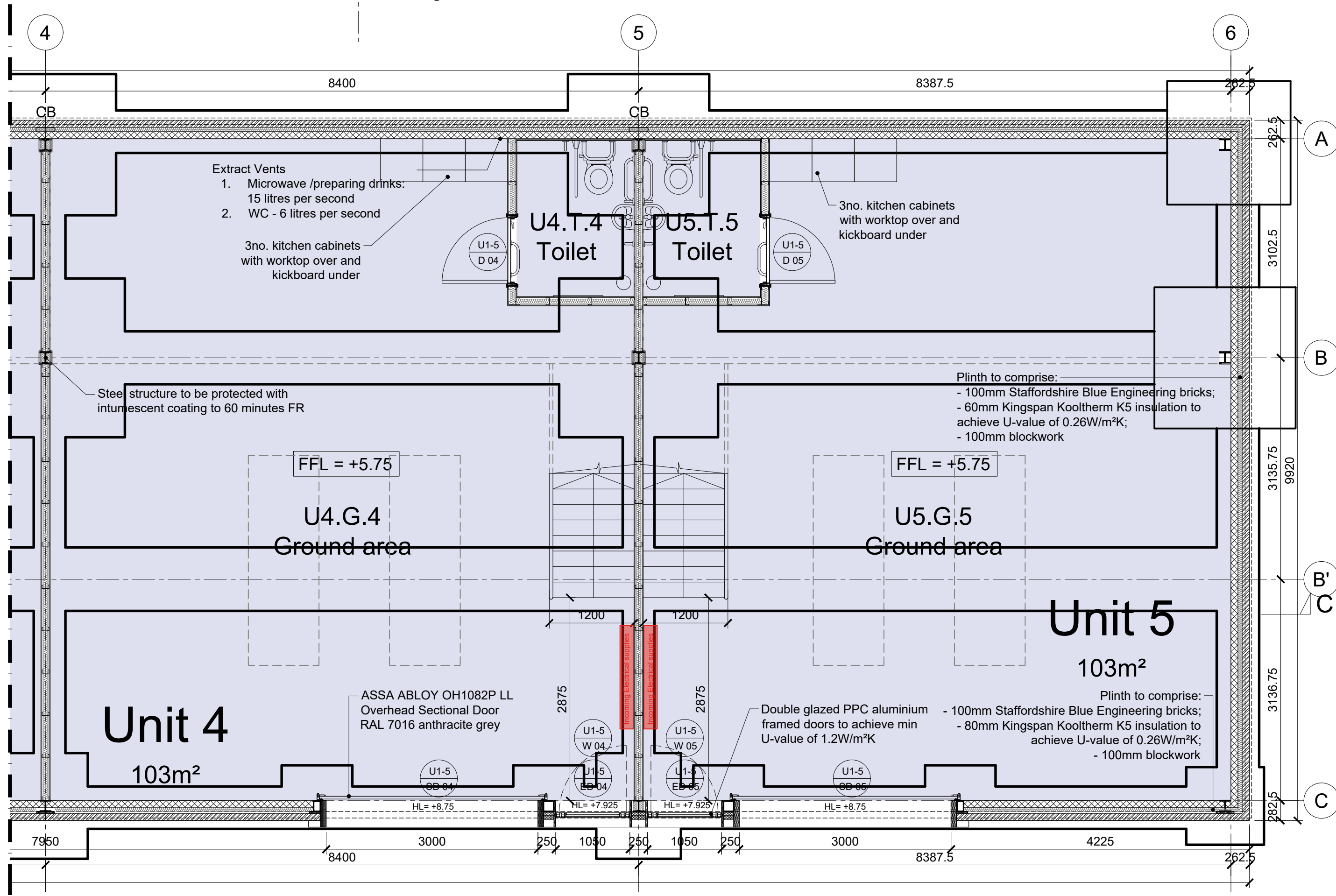
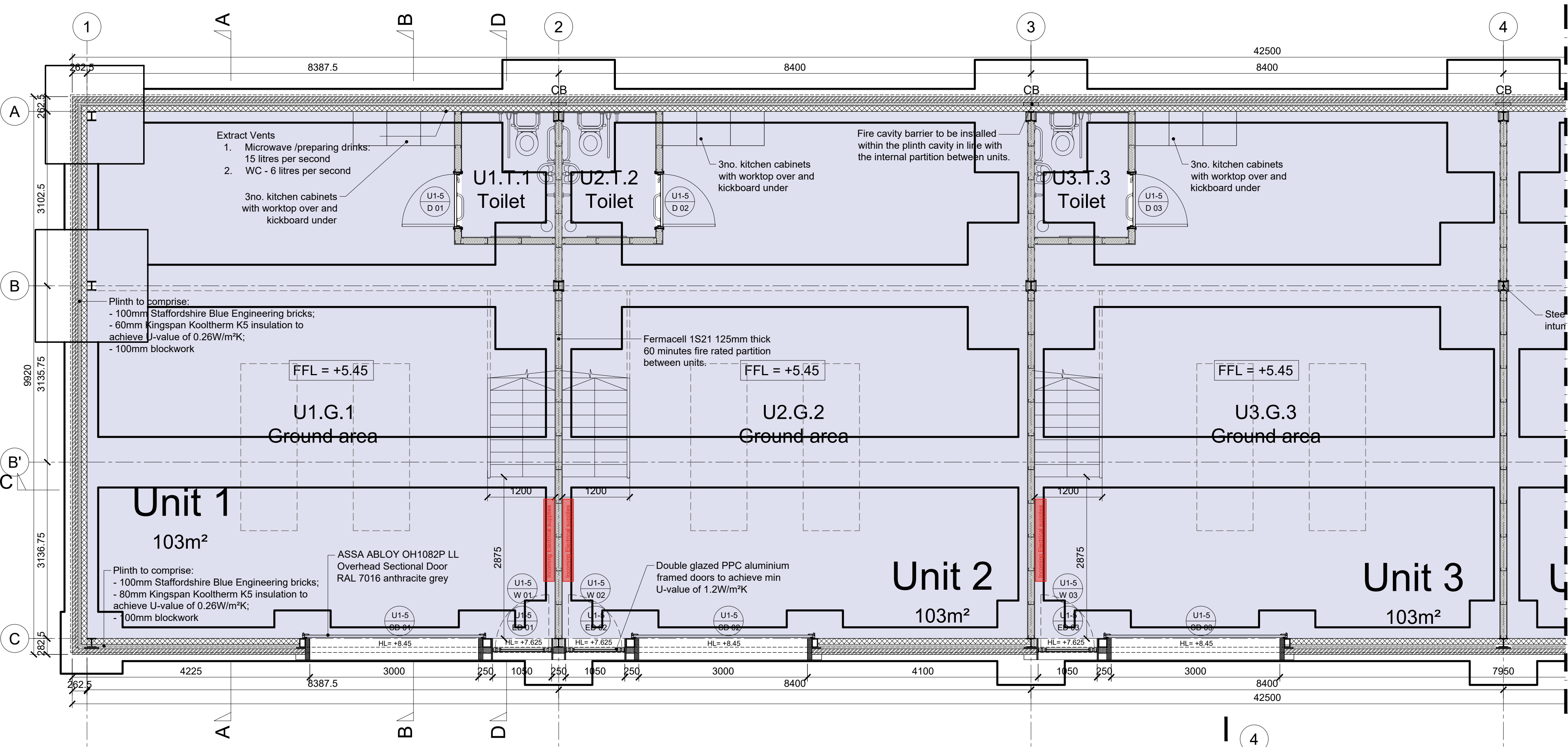


PWP Architects Ltd 61 South Street, Havant, Hampshire PO9 1BZ
t: 02392 482494 f: 02392 481152
e: design@pwp-architects.com
w: www.pwp-architects.com

status :
date :
scale :
drawn :
checked :

Tender
November 21
1:200 @ A1
PT
IV

job: 5807 dwg: 1010 rev: F



notes:

revisions:

A | 30.01.2025 | PT | Issued to building control
B | 06.02.2025 | AG | Front of units plinth and cladding amended to SE detail.
C | 13.02.2025 | AG | General amendments.
D | 19.03.2025 | AG | Steel structure coordinated with Bubeare and Jones latest design.
E | 19.08.2025 | PT | Issued for tender

revisions:

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Seagull Lane
Emsworth, Hampshire, PO10 7QH

drawing information title : Proposed Plans
Units 1-5, Ground Floor

status :
date :
scale :
drawn :
checked :

Tender
January 25
1:50 @ A1
AG
IV

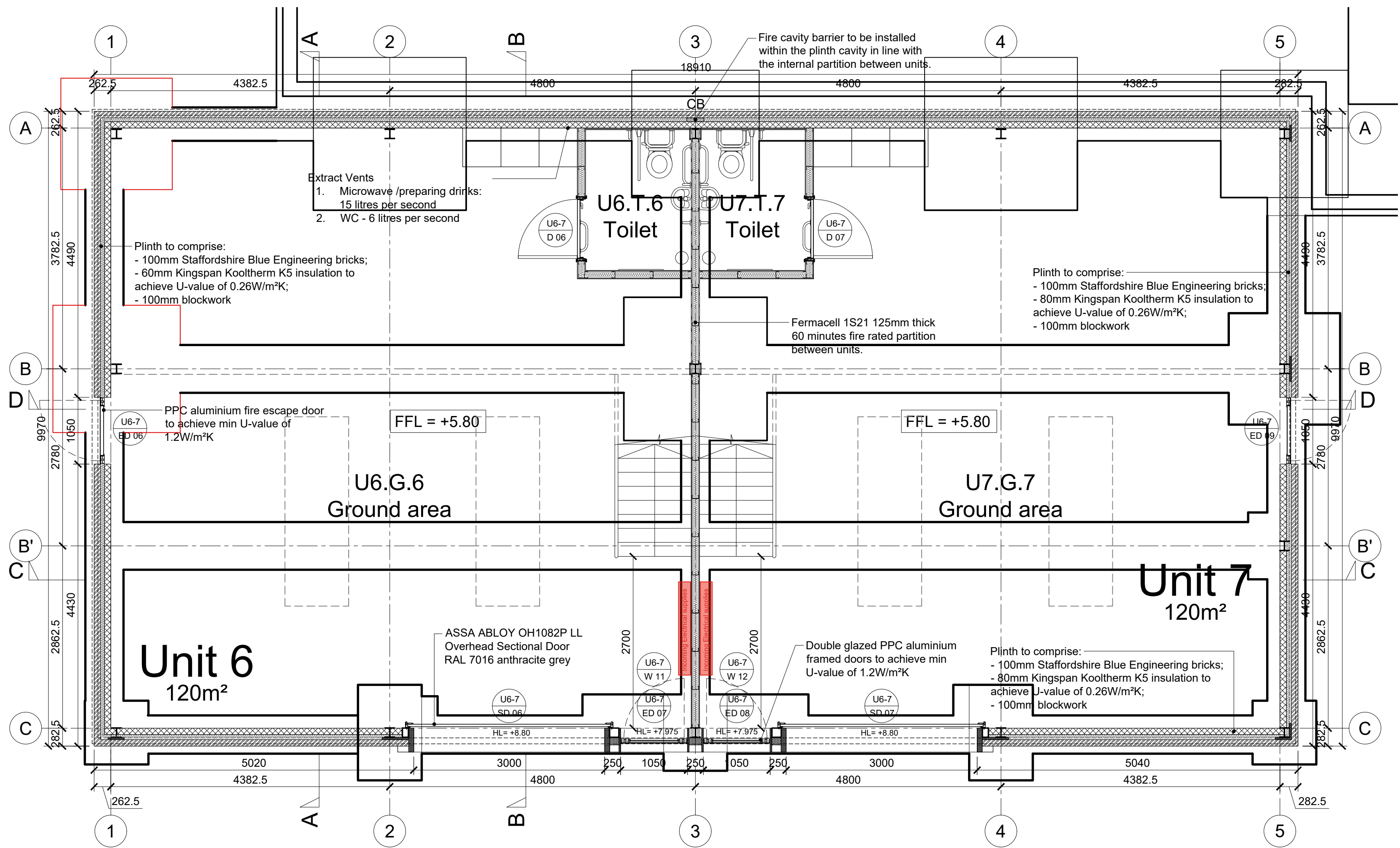
pwparchitects

PWP Architects Ltd 61 South Street, Havant, Hampshire PO9 1BZ
t: 02392 482494 f: 02392 481152

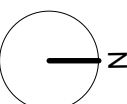
e: design@pwp-architects.com
w: www.pwp-architects.com

job: 5807 dwg: 2400 rev: E

NOTE: The contractor is responsible for checking all site dimensions and levels. These should be checked prior to the ordering of any components and before the commencement of the works. All discrepancies should be brought to the attention of the Contract Administrator.



notes:



NOTE: The contractor is responsible for checking all site dimensions and levels. These should be checked prior to the ordering of any components and before the commencement of the works. All discrepancies should be brought to the attention of the Contract Administrator.

revisions: A | 30.01.2025 | PT | Issued to building control.
B | 13.02.2025 | AG | Front of units and north elevation plinth and cladding amended.
C | 19.03.2025 | AG | Steel structure coordinated with Bubeare and Jones latest design.
D | 24.03.2025 | AG | Column on GL B/5 centred on grid B'.
E | 19.08.2025 | PT | Issued for tender

revisions:

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Seagull Lane
Emsworth, Hampshire, PO10 7QH

drawing information title : **Proposed Plans**
Units 6-7, Ground Floor

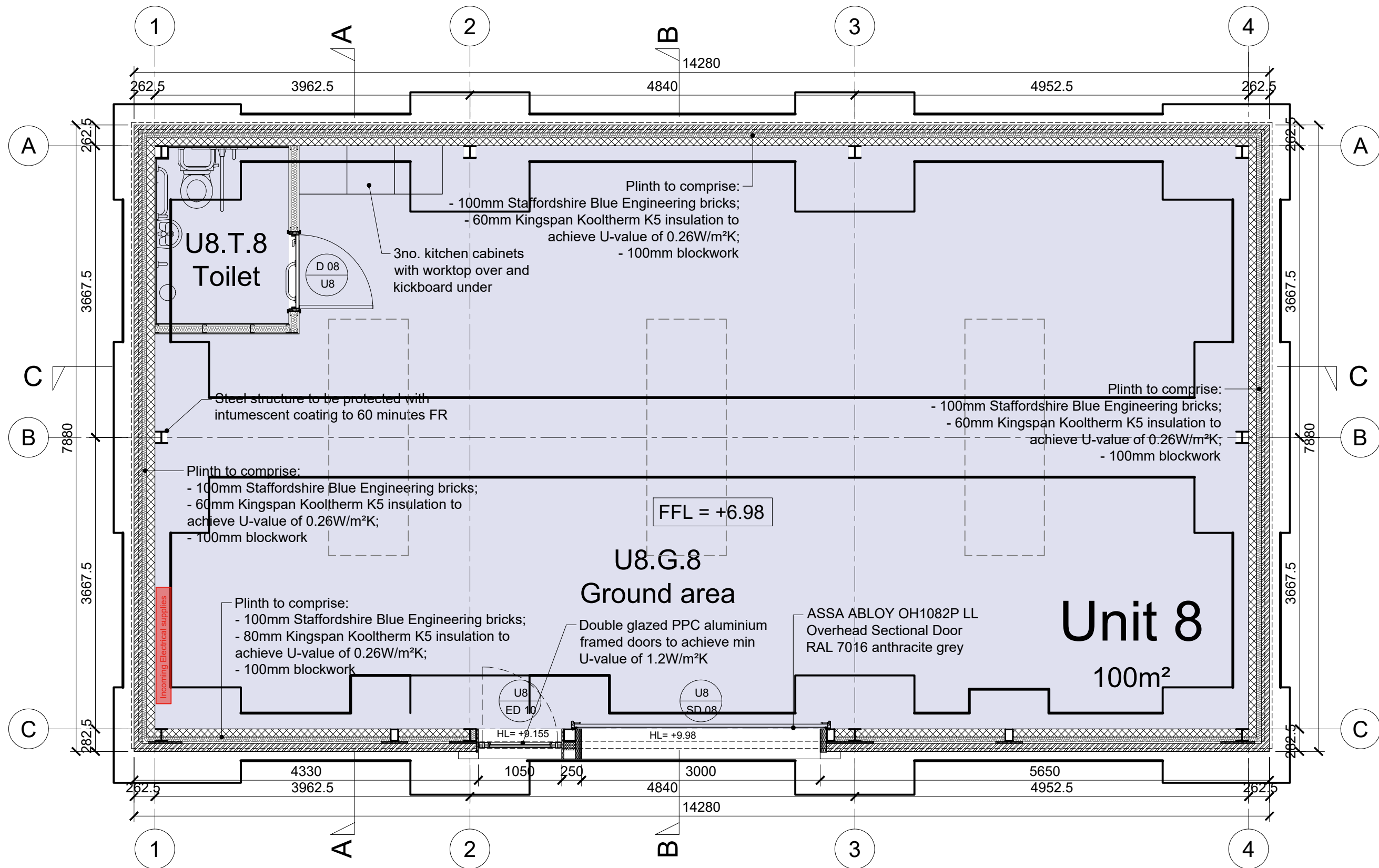
status : Tender
date : January 25
scale : 1:50 @ A1
drawn : AG
checked : IV



PWP Architects Ltd 61 South Street, Havant, Hampshire PO9 1BZ
t: 02392 482494 f: 02392 481152

e: design@pwp-architects.com
w: www.pwp-architects.com

job: 5807 dwg: 2403 rev: E



notes:

revisions: A | 30.01.2025 | PT | Issued to building control
B | 13.02.2025 | AG | Front of unit plinth and cladding amended.
C | 13.03.2025 | AG | Steel updated to Bubeare & Jones updated design. Grid line 2 adjusted.
D | 19.03.2025 | AG | Steel structure coordinated with Bubeare and Jones latest design.
E | 19.08.2025 | PT | Issued for tender

revisions:

Trustees of The Alitex DBSSASS
Seagull Lane
Emsworth, Hampshire, PO10 7QH

drawing information title : **Proposed Plans**
Unit 8 Ground Floor - Plinth Level

status :
date :
scale :
drawn :
checked :

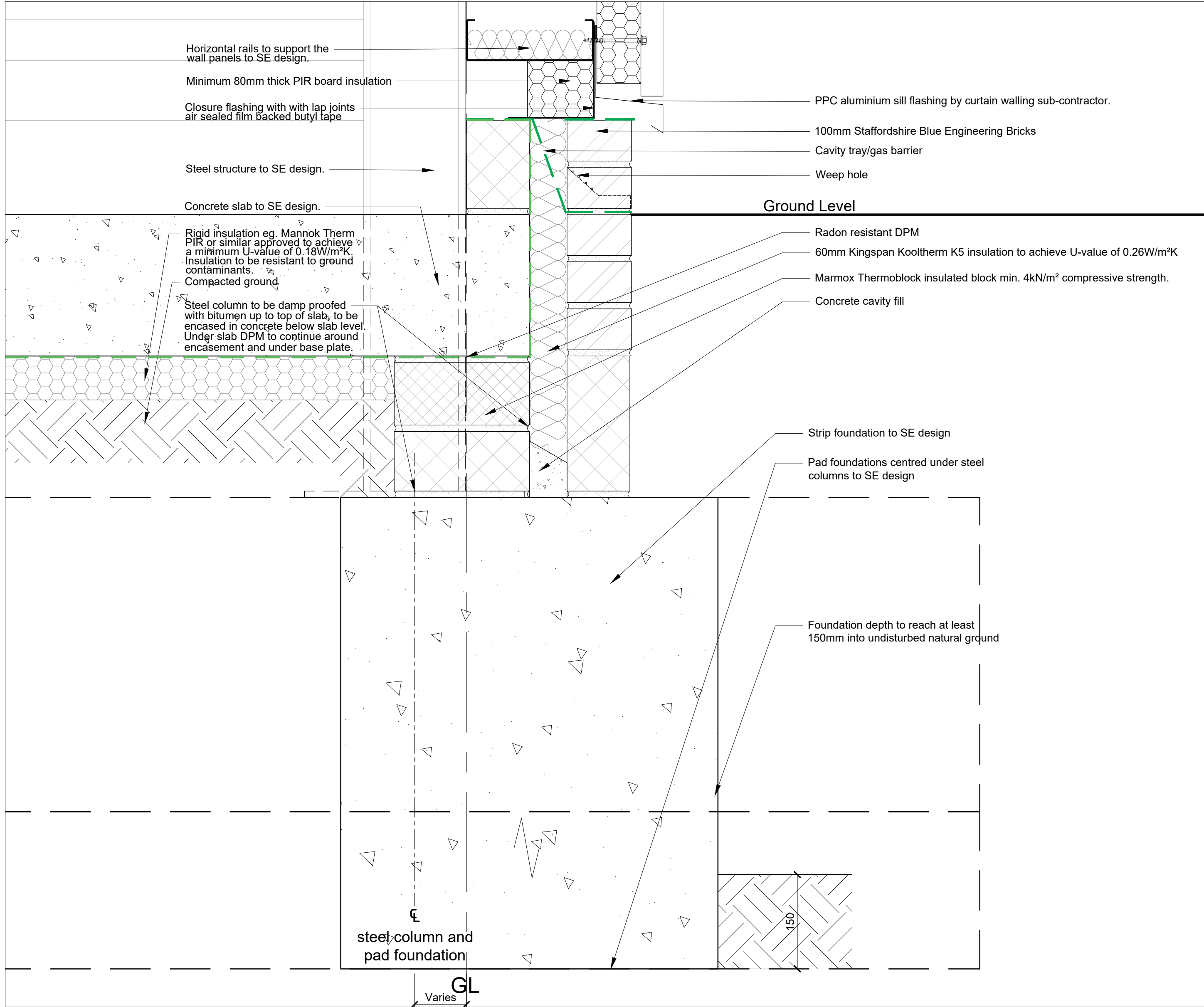
Tender
January 25
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AG
IV

job: 5807 dwg: 2406 rev: E

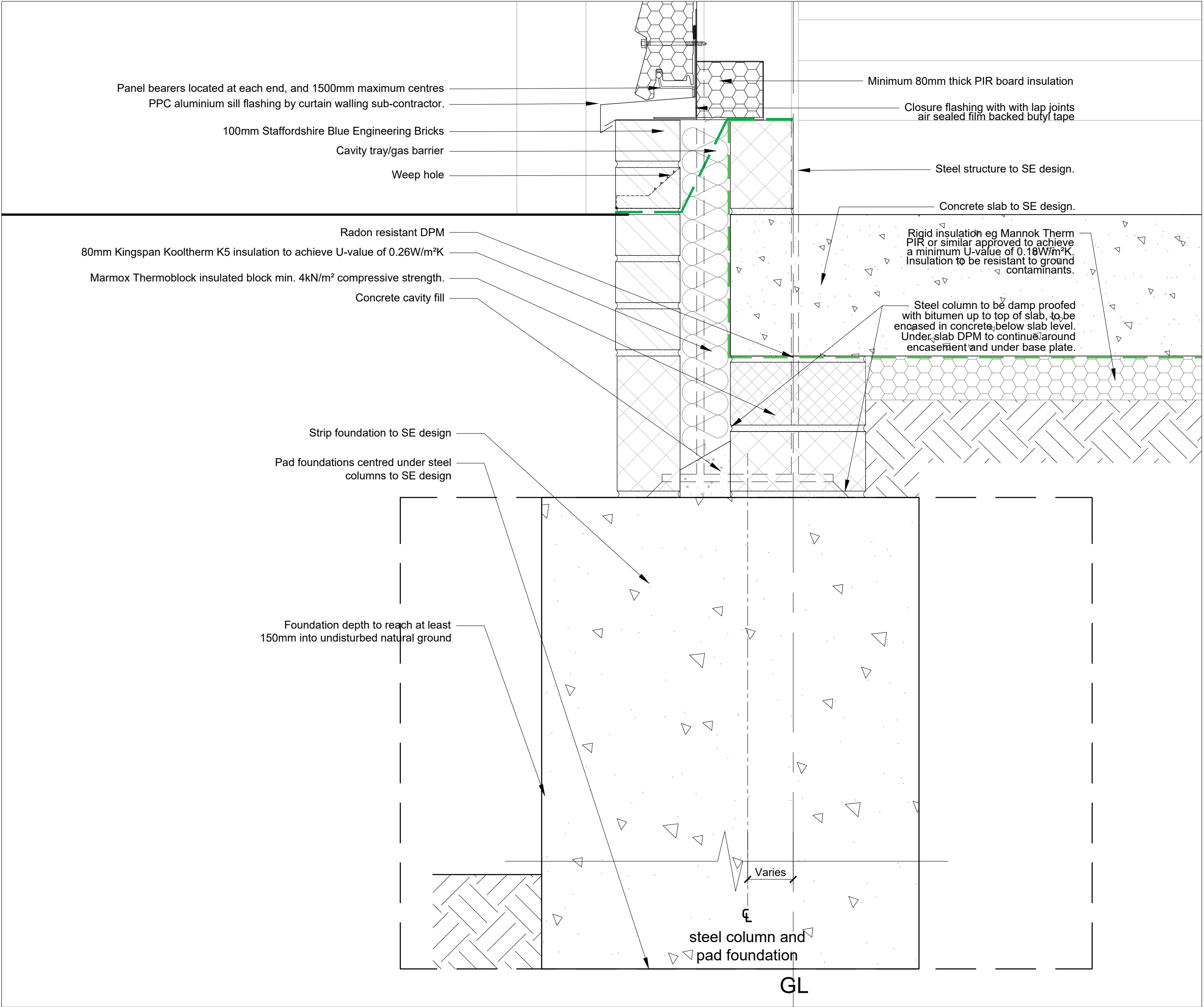
pwparchitects
PWP Architects Ltd 61 South Street, Havant, Hampshire PO9 1BZ
t: 02392 482494 f: 02392 481152
e: design@pwp-architects.com
w: www.pwp-architects.com



NOTE: The contractor is responsible for checking all site dimensions and levels. These should be checked prior to the ordering of any components and before the commencement of the works. All discrepancies should be brought to the attention of the Contract Administrator.



1. Vertical cladding plinth detail Units 1-8 (Plinth Type B)



2. Horizontal cladding plinth detail.
Front of all Units 1-8 and Unit 7 North elevation (Plinth Type A)

notes:

revisions: A | 14.01.2025 | AG | Detail 1 amended to SE slab edge detail.
B | 06.02.2025 | AG | Detail 2 added.
C | 13.02.2025 | AG | Detail titles amended for clarity.
D | 29.04.2025 | AG | Foundations updated to match SE design.
E | 19.08.2025 | PT | Issued for tender

revisions:

Trustees of The Alitex DBSSASS
Seagull Lane
Emsworth, Hampshire, PO10 7QH
drawing information title **Details Sheet 1 - Slab**



PWP Architects Ltd 61 South Street, Havant, Hampshire PO9 1BZ
t: 02392 482494 f: 02392 481152

status :
date : December 24
scale : 1:5 @ A1, 1:10 @ A3
drawn : AG
checked : IV

e: design@pwp-architects.com
w: www.pwp-architects.com

job: 5807 dwg: 6000 rev: E

100mm @A1 / 50mm @A3

NOTE: The contractor is responsible for checking all site dimensions and levels. These should be checked prior to the ordering of any components and before the commencement of the works. All discrepancies should be brought to the attention of the Contract Administrator.

Visqueen Gas Barrier NF-400

Features & benefits

- BDA Agreement Certification - third party accreditation
- Complies with NHBC Foundation NF94 guidance for use in Type A membrane locations - non foil system
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Transparent - allows a clear view of the substrate during and post installation
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - depending upon specification, lap joints can be heat welded or taped

Product description

Visqueen Gas Barrier NF-400 is a co-extruded, multi-layer thermoplastic gas membrane, 0.4mm thick (400 micron). The membrane is transparent with a blue tint and supplied 2.4m x 43.5m in a single wound roll.

Approvals and standards

- Third party accreditation (BDA Agreement Certificate BAB-24-339-P-A-UK)
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Complies with NHBC Foundation NF94 guidance for use in Type A membrane locations (non foil system)
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2023
- UKCA UKNI CE to EN 13967:2012
- Visqueen certified with Quality Management System ISO 9001:2015
- Visqueen certified with Occupational Health and Safety System ISO 45001:2018
- Visqueen certified with Environmental Management System ISO 14001:2015

Usage

Visqueen Gas Barrier NF-400 is suitable for use in all types of buildings to prevent the ingress of harmful levels of methane, carbon dioxide and radon.

The barrier can be positioned above or below reinforced cast in situ concrete floor slabs e.g. ground bearing, suspended or raft, or above precast suspended segmental subfloors, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

NHBC NF94 guidance: Radon, carbon dioxide, and methane protection

Visqueen Gas Barrier NF-400 when installed with either welded or taped joints complies with NHBC Foundation NF94 publication, Hazardous ground gas - an essential guide for housebuilders, in Type A membrane locations in precast suspended segmental subfloors and reinforced cast in situ concrete floor slabs (ground bearing, suspended or raft).

For site or zone characteristic gas situations of CS4 and above, contact Visqueen Technical Office.

The barrier is not intended for use where there is a risk of hydrostatic pressure.

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- VisqueenPro Detailing Strip, 300mm x 10m
- Visqueen TreadGUARD 1500, 1m x 2m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen Ultimate Top Hat Units
- Visqueen NF-Detailing Strip, 300mm x 10m
- Visqueen NF-60 Lap Tape, 60mm x 45m
- Visqueen NF-150 Lap Tape, 150mm x 10m

Storage and handling

When storing Visqueen Gas Barrier NF-400 care should be taken to:

- store in its original packaging;
- avoid exposure to direct sunlight and high or low temperatures for prolonged periods of time;
- store in a well-ventilated covered area to protect from rain, frost, humidity and mechanical damage;
- store away from possible ignition sources;
- store rolls of the barrier horizontally on a flat surface and not stacked.

Care should be taken to avoid accidental damage to the product when handling on site.

Care should be taken when handling the product in line with current manual handling regulations.

Visqueen Gas Barrier NF-400

Preparation

Visqueen Gas Barrier NF-400 should be installed on a smooth continuous surface e.g. grouted beam and block floor, a compacted blinding layer e.g. 50mm thick sand blinding, or smooth concrete blinding. The substrate should be free from irregularities such as loose aggregates or other sharp protrusions, voids, projections or mortar deposits.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

Hand rollers are required during lap joint formation and sealing membrane detailing. Typical hand rollers include 40mm silicone pressure roller and 6mm brass penny pressure roller.

Consult the project specification to ensure the correct method of lap joint formation for the project is followed (welded or taped).

Rolls of tape should be kept in a warm, dry location prior to use to ensure the tape is workable and can be more easily applied.

Installation

Installation of Visqueen Gas Barrier NF-400 should be carried out by a competent contractor experienced with this type of product e.g. hold an NVQ Level 2 Diploma in substructure work occupations (Installation of Gas Membranes - Construction).

The installation should be subjected to third-party validation in accordance with BS 8485:2015 +A1:2019 and CIRIA C735.

Visqueen Gas Barrier NF-400 should be loose laid on the substrate ensuring that the barrier sheet edges are aligned allowing adequate overlap for jointing between the sheets. The barrier can be laid either side facing upwards.

The barrier lap area should be clean and dry at the time of jointing. The barrier has been designed to exhibit superior welding properties using hot wedge and hot air welding, therefore onsite welding of all lap joints is recommended. When hot air hand welding the lap joints, the joint should be overlapped by approximately 100mm and an approximate 35mm weld is normally achieved. During hand welding, the lap joints should be firmly compressed using a hand roller to ensure an adequate bond is achieved.

When taping the lap joints, the joint should be overlapped by approximately 100mm and bonded with VisqueenPro Double Sided Jointing Tape (positioned approximately 25mm from the edge of the sheet) and sealed with Visqueen NF-60 Lap Tape or Visqueen NF-150 Lap Tape depending on the project specification. The lap joints should be firmly compressed using a hand roller during taping to ensure an adequate bond is achieved.

Creating an effective gas barrier often requires complex three-dimensional detailing, such as around internal and external walls, corners, doorway thresholds, service pipes, party walls, and structural columns. Visqueen Detailing Strip (Pro or NF depending on the project specification) is gas resistant and can be used in place of the gas barrier to maintain continuous protection. The detailing strip lap joints should be firmly compressed using a hand roller to ensure an adequate bond is achieved. Visqueen Ultimate Preformed Units are also available.

If the barrier is punctured or perforated a patch of the same material should be lapped at least 100mm beyond the limits of the puncture and either welded in position, or bonded with VisqueenPro Double Sided Jointing Tape (positioned approximately 25mm from the edge of the sheet) and sealed with Visqueen NF-60 Lap Tape or Visqueen NF-150 Lap Tape depending on the project specification. Alternatively a patch can be formed using Visqueen NF-Detailing Strip lapped at least 150mm beyond the extents of the puncture.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the barrier. The barrier should be covered by a protective layer e.g. Visqueen TreadGuard protection or other approved protection material, immediately after installation to prevent damage from following trades, ultraviolet light, etc. Care should be taken to ensure that the barrier is not punctured, stretched or displaced during or post installation.

VisqueenPro Detailing Strip is also suitable for sealing detailing junctions and patch repairs, however when the gas protection measures are to conform with the requirements of NHBC NF94 guidance, please ensure acceptance by all stakeholders prior to use.

Usable temperature range

When Visqueen Gas Barrier NF-400 is installed with taped lap joints, the air temperature should not be below 5°C or falling to prevent the risk of surface condensation affecting the tape adhesion.

When ambient temperatures are above 25°C or rising, the barrier should be covered immediately after installation.

Additional information

When used in accordance BS8485:2015 + A1:2019 a subfloor ventilation system or pressure relief may also be required.

To assist build sequencing, Visqueen Ultimate Gas DPC is available for gas protection through the wall

Visqueen Gas Barrier NF-400

construction.

For further information contact Visqueen Technical Office on 0333 202 6800.

The information in this datasheet was correct at the time of publication. It is the user's responsibility to obtain the latest version of the datasheet as it is updated on a regular basis. The information contained in the latest datasheet supersedes all previously published editions.

Property	Test method	Units	Compliance criteria	Result
Dimensions	BS EN 1848-2	m	-	2.4 x 43.5
Nominal thickness	BS EN 1849-2	mm	+/-10%	0.4
Mass	BS EN 1849-2	g/m ²	>370	>370
Tensile strength - machine direction	BS EN 12311-2 method B	N/mm ²	MDV	26.3
Tensile strength - cross direction	BS EN 12311-2 method B	N/mm ²	MDV	29.4
Elongation at break - machine direction	BS EN 12311-2 method B	%	MDV	607
Elongation at break - cross direction	BS EN 12311-2 method B	%	MDV	921
Joint strength - taped joint	BS EN 12317-2	N/50mm	MDV	217
Joint strength - welded joint	BS EN 12317-2	N/50mm	MDV	405
Watertightness at 2kPa for 24 hours	BS EN 1928 method A	-	Pass/Fail	Pass
Watertightness at 2kPa for 24 hours after ageing	BS EN 1296 (12 weeks) + BS EN 1928 method A	-	Pass/Fail	Pass
Watertightness at 2kPa for 24 hours after alkali environment	BS EN 1847 (28 days) + BS EN 1928 method A	-	Pass/Fail	Pass
Resistance to impact	BS EN 12691 method A	mm	MDV	400
Low temperature flexibility	BS EN 495-5	°C	MDV	-20
Resistance to tearing (nail shank) - machine direction	BS EN 12310-1	N	MDV	265
Resistance to tearing (nail shank) - cross direction	BS EN 12310-1	N	MDV	240
Water vapour resistance	BS EN 1931 method B	MNs/g	MDV	2,296
Water vapour permeability	BS EN 1931 method B	g/m ² /d	MDV	0.08
Water vapour resistance factor	BS EN 1931 method B	μ	MDV	1,140,000
Water vapour diffusion equivalent air layer thickness	BS EN 1931 method B	SD in m	MDV	459
Methane gas transmission rate - membrane	BS ISO 15105-1	ml/m ² /day/atm	MDV	13.2
Methane gas transmission rate - welded membrane joint	BS ISO 15105-1	ml/m ² /day/atm	MDV	15
Carbon dioxide gas transmission rate	BS ISO 15105-1	ml/m ² /day/atm	MDV	22
Radon gas transmission rate - membrane	SP method	m/s	MDV	<3.0 x 10 ⁻⁹
Puncture CBR	BS EN 12236	N	MDV	1620
Tensile yield strength - machine direction	ASTM D4885-01	kN/m	MDV	8

Visqueen Gas Barrier NF-400

Tensile yield strength - cross direction	ASTM D4885-02	kN/m	MDV	7.3
Resistance to static loading	BS EN 12730 method C	kg	MDV	15
Elongation yield - machine direction	ASTM D4885-01	%	MDV	405.3
Elongation yield - cross direction	ASTM D4885-01	%	MDV	400.2
Tear resistance - trouser method A - machine direction	BS ISO 34-1	kN/m	MDV	128
Tear resistance - trouser method A - cross direction	BS ISO 34-1	kN/m	MDV	109.7
Tear resistance - angle method B - machine direction	BS ISO 34-1	N	MDV	137
Tear resistance - angle method B - cross direction	BS ISO 34-1	N	MDV	139.6

Health and safety information

Refer to the Visqueen Gas Barrier NF-400 safety datasheet (SDS).

About Visqueen

Visqueen is a leading provider of construction membrane technologies and design-based solutions for ground gas, structural waterproofing, damp proofing and fire protection.

We offer complete support at every stage of the specification, including the supply chain process. As the UK's principal technical authority, we are best placed to ensure that the principal designer and contractor specify the most technically suited, durable, and competitive solution to guarantee their project is protected for the lifetime of the building.

Visqueen is at the forefront of advanced membrane technology and innovation in the construction industry, earning the trust and loyalty of specifiers throughout the UK and Europe.

For more information, visit visqueen.com or contact our sales office at +44 (0) 333 202 6800 or enquiries@visqueen.com

Complete Range, Complete Solution



Passive Fire Protection



Gas Protection



Damp Proof Membrane



Air and Vapor Control



Stormwater



Damp Proof Course



Temporary Protection

Visqueen Technical Support

Visqueen offer a comprehensive full nationwide technical support. Our team of CSSW qualified technical support managers provide on site design-based solutions for specifiers, contractors and builders merchants, and will ensure that from design stage to installation the project is fully risk assessed and the specification is approved by all stakeholders.

Our Technical Office, can design, prepare and manage CAD detailing, together with assisting in quantity take offs, while offering advice on technical installations and product selection.

Competency & Design

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Visqueen CPD Seminars

Visqueen's CPD Seminars offer insights into Building Regulations, Standards, and industry guidance related to



Visqueen Gas Barrier NF-400

damp proofing, hazardous ground gas protection, and structural waterproofing. These one-hour seminars are tailored for construction design professionals and delivered by our Technical Support Managers. Visit our website to book a free CPD.

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VisqueenPro Double Sided Jointing Tape, 50mm x 10m

Features & benefits

- Part of a Visqueen's DPM and gas protection BBA approved jointing system
- Provides resistance to harmful bulk gases ingress and moisture ingress

Product description

VisqueenPro Double Sided Jointing Tape is a blue, double sided butyl based self adhesive lap bonding tape with an oversize quick release film. It is available in roll format 50mm x 10m.

Approvals and standards

- Visqueen certified with Quality Management System ISO 9001:2015
- Visqueen certified with Occupational Health and Safety System ISO 45001:2018
- Visqueen certified with Environmental Management System ISO 14001:2015

Usage

VisqueenPro Double Sided Jointing Tape is used to bond membranes (gas or damp) together along the lap joints.

To complete the joint, seal with the appropriate Visqueen single sided tape.

System components

- Visqueen Top Hat Units

Storage and handling

Store in a dry and clean environment in its current packaging. The tape should not be exposed to long periods of ultraviolet light. Prior to use, ensure that the tape is stored at temperatures above 5°C.

The tape can be cut with a sharp retractable safety knife.

Care should be taken when handling the product in line with current manual handling regulations.

Preparation

Ensure all lap joint surfaces are clean, dry and free from contamination such as dust or sand. Ensure the surface and working area is not water logged. Avoid areas of unsupported jointing.

Installation

Apply VisqueenPro Double Sided Jointing Tape to the lap area of the laid sheet starting approximately 50mm from the membrane edge. Apply pressure to the tape to ensure the tape has adhered to the membrane. Remove release paper from the tape and overlap the adjoining membrane by minimum 150mm. For Visqueen damp proof membranes and gas protection membranes lap joints should then be sealed using the appropriate Visqueen lap tape. Once the tape is applied, the completed lap should be well rolled with firm pressure to ensure a completely sealed joint has occurred, and continuity with the adjacent sheet has been achieved.

Usable temperature range

It is recommended that VisqueenPro Double Sided Jointing Tape should be installed above 5°C.

Additional information

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VisqueenPro Double Sided Jointing Tape, 50mm x 10m

VisqueenPro Double Sided Jointing Tape data table

Property	Result
Width	50mm
Length	10m
Colour	Blue
Adhesive type	Butyl
Dynamic Shear Adhesion	14 N/cm ²
Dynamic Tensile Adhesion	18 N/cm ²
180° Peel Adhesion	11 N/cm ²
Moisture Vapour Transmission Rate	0.24 g/m ² /d
Service Temperature Range	-40 to 90°C
Application temperature	>5°C

Health and safety information

Refer to VisqueenPro Double Sided Jointing Tape safety datasheet (SDS).

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Gas Protection



Damp Proof Membrane



Air and Vapor Control



Stormwater



Damp Proof Course



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VisqueenPro Double Sided Jointing Tape, 50mm x 10m

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Visqueen NF-150 Lap Tape, 150mm x 10m

Features & benefits

- BDA Agreement Certified jointing system - third party accreditation
- Provides an overlap seal to Visqueen gas protection membranes
- Joint integrity - reduces the risk of poured concrete entering the lap joint

Product description

Visqueen NF-150 Lap Tape is a single sided overlap tape consisting of a white coloured polymer carrier film coated with a grey coloured cold weather butyl adhesive protected with a release film.

The product is supplied in roll form 150mm x 10m.

To be used in conjunction with the appropriate Visqueen double sided tape.

Approvals and standards

- Third party accreditation (BDA Agreement Certificate BAB-24-340-P-A-UK)
- Visqueen certified with Quality Management System ISO 9001:2015
- Visqueen certified with Occupational Health and Safety System ISO 45001:2018
- Visqueen certified with Environmental Management System ISO 14001:2015

Usage

When forming taped lap joints in Visqueen gas resistant membranes, joints should be bonded with the appropriate Visqueen double sided tape and then sealed with the appropriate Visqueen single sided tape.

Visqueen NF-150 Lap Tape is a single sided tape specifically designed for sealing lap joints in the following

Visqueen gas resistant membranes:

- Visqueen Gas Barrier NF-400
- Visqueen Ultimate Gas Barrier NF-500
- Visqueen Ultimate Gas Barrier NF-600

Storage and handling

Store in dry and clean environment in its current packaging. The tape should not be exposed to long periods of ultraviolet light.

Care should be taken when handling the product in line with current manual handling regulations.

For ease of installation, during hot weather conditions (>25°C), it is recommended to store the tape in a cool location prior to use.

Preparation

The gas resistant membrane joint surfaces should be clean, dry and free from contamination such as dust or sand. Ensure the surface is not water logged. Avoid areas of unsupported jointing.

The tape can be cut with a sharp retractable safety knife.

Hand rollers are required during application. Typical hand rollers include 40mm silicone pressure roller and 6mm brass penny pressure roller.

Installation

Apply appropriate Visqueen double sided tape to the gas resistant membrane lap area and remove release paper. Overlap adjoining membrane in accordance with the installation section of the membrane datasheet. Seal the membrane lap edge with Visqueen NF-150 Lap Tape applied equidistant over the lap edge.

Apply pressure to the jointed area using a roller to ensure a full bond is achieved.

Usable temperature range

It is recommended that the tape should be installed above -5°C. Prior to installation, ensure that frost or ice is not present on the substrate.

Additional information

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Visqueen NF-150 Lap Tape, 150mm x 10m

Property	Value
Dimensions	150mm x 10m
Adhesive type	Cold weather butyl
Application temperature range	-5°C to 40°C

Health and safety information

Please refer to Visqueen NF-150 Lap Tape safety datasheet (SDS).

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Visqueen NF-150 Lap Tape, 150mm x 10m

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Visqueen NF-60 Lap Tape, 60mm x 45m

Features & benefits

- Part of a BDA Agreement Certified jointing system - third party accreditation
- Provides an overlap seal to Visqueen gas protection membranes
- Joint integrity - reduces the risk of poured concrete entering the lap joint

Product description

Visqueen NF-60 Lap Tape is a single sided overlap tape consisting of an orange coloured polyethylene carrier film coated with a solvent acrylic adhesive, protected with a release film. The product is supplied in roll form 60mm x 45m.

To be used in conjunction with the appropriate Visqueen double sided tape.

Approvals and standards

- Third party accreditation (BDA Agreement Certificate BAB-24-339-P-A-UK)
- Visqueen certified with Quality Management System ISO 9001:2015
- Visqueen certified with Occupational Health and Safety System ISO 45001:2018
- Visqueen certified with Environmental Management System ISO 14001:2015

Usage

When forming taped lap joints in Visqueen gas resistant membranes, joints should be bonded with the appropriate Visqueen double sided tape and then sealed with the appropriate Visqueen single sided tape.

Visqueen NF-60 Lap Tape is a single sided tape specifically designed for sealing lap joints in the following Visqueen gas resistant membranes:

- Visqueen Gas Barrier NF-400

Storage and handling

Store in warm, dry and clean environment in its current packaging. The tape should not be exposed to long periods of ultraviolet light.

Care should be taken when handling the product in line with current manual handling regulations.

For ease of installation, during hot weather conditions (>25°C), it is recommended to store the tape in a cool location prior to use.

Preparation

The gas resistant membrane joint surfaces should be clean, dry and free from contamination such as dust or sand. Ensure the surface is not water logged. Avoid areas of unsupported jointing.

The tape can be cut with a sharp retractable safety knife.

Hand rollers are required during application. Typical hand rollers include 40mm silicone pressure roller and 6mm brass penny pressure roller.

Installation

Apply appropriate Visqueen double sided tape to the gas resistant membrane lap area and remove release paper. Overlap adjoining membrane in accordance with the installation section of the membrane datasheet.

Seal the membrane lap edge with Visqueen NF-60 Lap Tape applied equidistant over the lap edge. Apply pressure to the jointed area using a roller to ensure a full bond is achieved.

Usable temperature range

It is recommended that the tape should not be installed below 5°C.

For ease of installation, during hot weather conditions (>25°C), it is recommended to store the tape in a cool location prior to use.

Additional information

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Visqueen NF-60 Lap Tape, 60mm x 45m

Property	Value
Widths	60mm
Length	45m
Application temperature range	5°C to 40°C

Health and safety information

Please refer to Visqueen NF-60 Lap Tape safety datasheet (SDS).

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Visqueen NF-60 Lap Tape, 60mm x 45m

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Visqueen NF-Detailing Strip, 300mm x 10m

Features & benefits

- BDA Agreement Certified detailing material - third party accreditation
- Flexible - can be cut and shaped to various applications
- Multi-use - suitable for complicated junctions, stanchions, patchwork and terminations
- Gas resistant non foil self adhesive detailing membrane

Product description

Visqueen NF-Detailing Strip is a single sided strip, consisting of a white coloured polymer carrier film coated with a grey coloured cold weather butyl adhesive compound protected with a release film. It is available in roll format, 300mm x 10m.

Approvals and standards

- BDA Agreement Certified detailing material - third party accreditation
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019 -
- industry standard for methane and carbon dioxide protection
- Suitable for all Characteristic Gas Situation (CS) ground gas regimes
- Conforms to the specification requirements of NHBC Amber 1 and Amber 2 applications
- Conforms to the specification requirements of BR 211:2023
- Visqueen certified with Quality Management System ISO 9001:2015
- Visqueen certified with Occupational Health and Safety System ISO 45001:2018
- Visqueen certified with Environmental Management System ISO 14001:2015

Usage

Visqueen NF-Detailing Strip is used for sealing junctions and complicated detailing in Visqueen gas protection systems, waterproofing systems, and damp proofing systems. It can be used on concrete, blockwork, brickwork, particle boards, steel work, steel stanchions and wooden substrates for both vertical and horizontal application.

Storage and handling

Store in dry and clean environment in its current packaging. The product should not be exposed to long periods of ultraviolet light.

Care should be taken when handling the product in line with current manual handling regulations.

For ease of installation, during hot weather conditions (>25°C), it is recommended to store the product in a cool location prior to use.

Preparation

Surfaces must be smooth and free from sharp protrusions, ensure the surface and working area is not water logged and is frost free. When applying to blockwork or brickwork the joints must be flush pointed. Prior to bonding, substrates such as masonry, concrete and steel should be primed using Visqueen HP Tanking Primer and allowed to dry thoroughly. Visqueen HP Tanking Primer must not be used on Insulation or ICF systems.

Visqueen NF-Detailing Strip can be cut with a sharp retractable safety knife.

Hand rollers are required during application. Typical hand rollers include 40mm silicone pressure roller and 6mm brass penny pressure roller.

Installation

Position and peel back the Visqueen NF-Detailing Strip release film and apply the pressure sensitive, self adhesive grey face to the prepared substrate. Apply pressure by rolling to ensure a full bond is achieved.

All lap joints should be a minimum of 150mm and must be pressed and rolled to ensure damp, gas or waterproofing continuity.

When used for sealing membranes punctures, Visqueen NF-Detailing Strip should be lapped at least 150mm beyond the extents of the puncture.

Usable temperature range

It is recommended that Visqueen NF-Detailing Strip should be installed above -5°C. Prior to installation, ensure that frost or ice is not present on the substrate.

For ease of installation, during hot weather conditions (>25°C), it is recommended to store the product in a cool location prior to use.

Visqueen NF-Detailing Strip, 300mm x 10m

Additional information

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Property	Value
Widths	300mm
Length	10m
Application temperature range	-5°C to 40°C

Health and safety information

Refer to the Visqueen-NF Detailing Strip safety datasheet (SDS)

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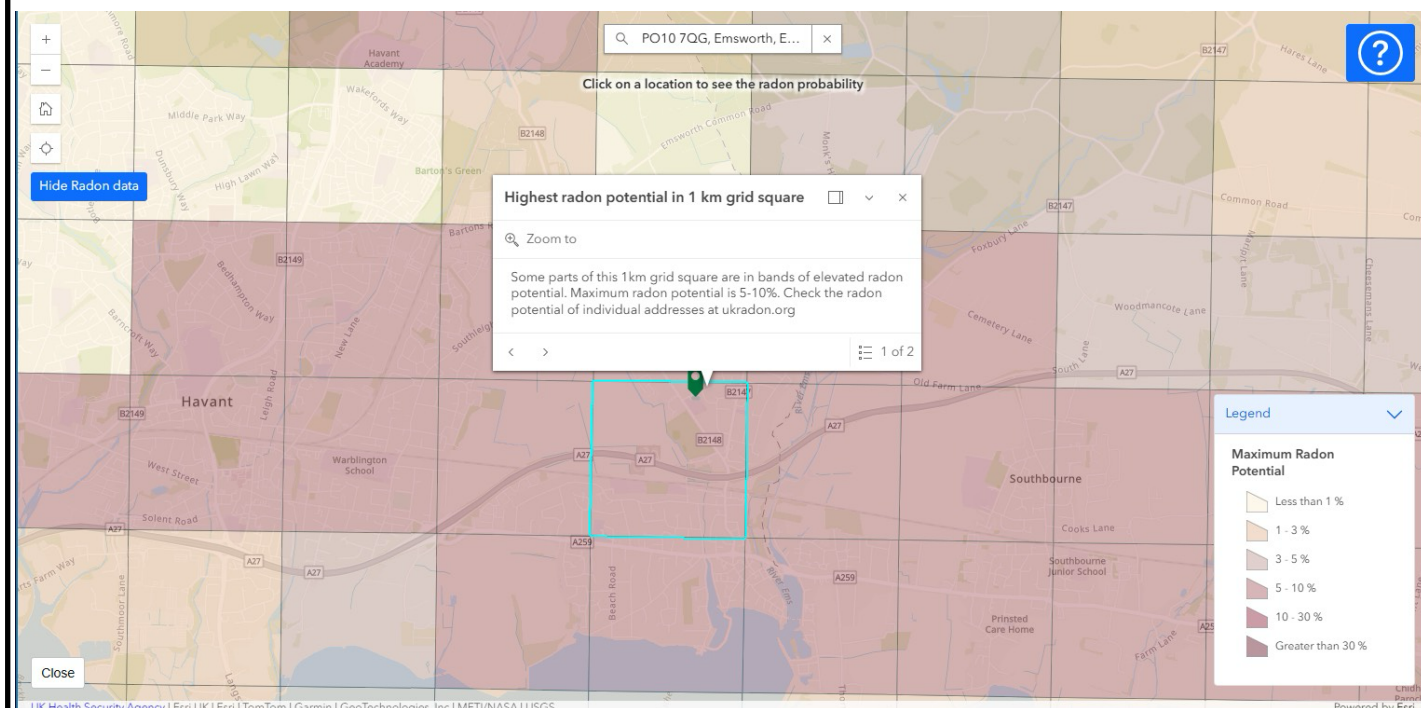
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GeoShield Verification Plan



RADON MAPS UK - (Map 1) Site Location



Maximum Radon Potential:

5-10%

Description:

Full Radon protection measures required.

Postcode:

PO10 7QH



GeoShield Verification Plan



CLIENT DETAILS

CLIENT CONTACT:	Nick Bashford
CONTACTS ROLE:	Project Co-Ordinator
MOBILE PHONE:	07494 210941
EMAIL ADDRESS:	Nick@nyetimbermanagement.co.uk



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



GeoShield Verification Plan



APPLICATOR'S DETAILS

APPLICATOR NAME: TBC

COMPANY: Crouch Construction Ltd

APPLICATOR TEL: (+44) 7138706147

APPLICATOR EMAIL: contact@crouchconstructions.com

APPLICATOR NAME: TBC

COMPANY: Crouch Construction Ltd

APPLICATOR TEL:

APPLICATOR EMAIL:

NOTES: The name of the installers are unknown at this point so the installers will
either be identified at the pre-verification meeting or the first site visit.



GeoShield Verification Plan



HEALTH AND SAFETY

INDUCTION: ☒ ☒

INDUCTION TIME:

CSCS CARD: ☒ ☐

CSCS CARD NUMBER:

METHOD STATEMENT: ☒ ☐

RISK ASSESSMENT: ☒ ☐

COSHH: ☒ ☐

SITE SPECIFIC HAZARDS:



GeoShield Verification Plan



APPLICATOR'S DETAILS

TRAINING LEVEL:

SPECIALIST CONTRACTOR:	YES	☐	NO	☒
NVQ LEVEL 2:	YES	☐	NO	☒
COMPETENT APPLICATOR:	YES	☒	NO	☐
TOOLBOX BY GEOSHIELD:	YES	☐	NO	☒

REASON FOR VISIT:

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

NOTIFICATION:

24 HOURS:	YES	☒	48 HOURS:	YES	☒
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NOTES:

It will deemed that these applicators are at an appropriate skill level for

the job of installing the ground gas protection measures.

Toolbox talk training will be provided by Geoshield for the management

team and installers, should it be required.



GeoShield Verification Plan



Industrial Development

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

2

Building Type:

C

POINTS REQUIRED UNDER BS8485:2019

2.5

POINTS GAINED FROM BS8485:2019

Score for Structural Barrier:

1.5 POINTS

Grade 2 Basement:

N/A

Grade 3 Basement:

N/A

Score for Venting:

N/A

Car Park:

N/A

Score for Membrane:

2 POINTS

POINTS ACHIEVED UNDER BS8485 2019:

3.5 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.

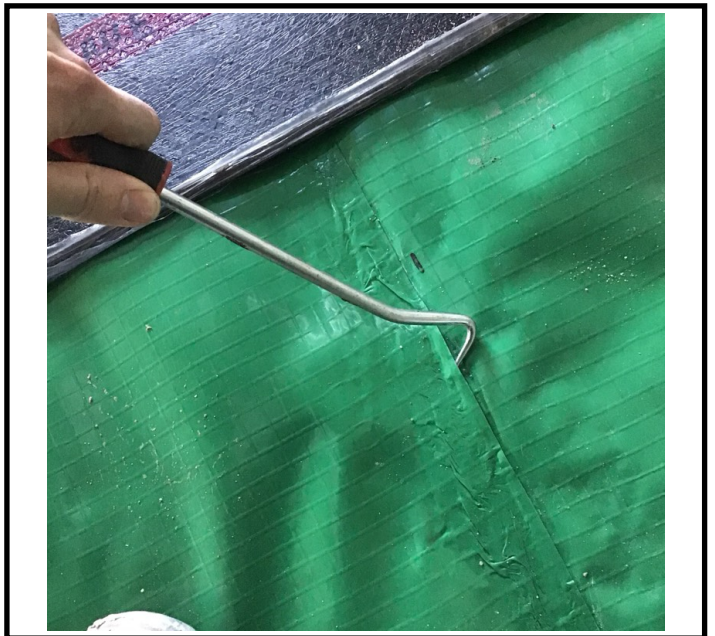
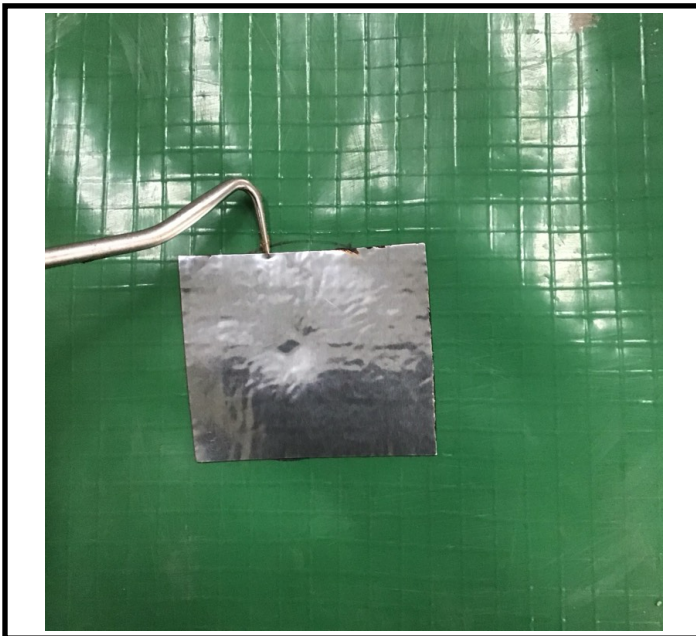
NOTES:

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

NOTES: be used.

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).

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 there 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:- Five site visits 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 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 BR 211.

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 has been completed. This will be fully recorded at all times.



GeoShield Verification Plan



METHOD STATEMENT - Page 2

GROUND GAS RISK:- The Ground & Water Remediation Strategy confirming the buildings in line with CS2 will need to achieve a minimum of 2.5 points for mitigation.

This will be achieved by 3rd party verification of the gas membrane, & reinforced concrete slab.

GAS MEMBRANE PROTECTION:- The gas membrane will be installed on top of insulation.

In addition labels can be issued by GeoShield if needed to restrict access to areas where the gas membrane has been installed to prevent damage 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.



GeoShield Verification Plan



VERIFICATION PLAN

METHOD STATEMENT

VERIFICATION STRATEGY:

Percentage Strategy: 1st 10 Plots (100%), 11-50 Plots (1:5) & 51 or > (1:10) ☐

Percentage Strategy: 100% Verification for VOC/Hydrocarbons ☐

Verification Percentage on site: 100% Not Specified ☐

Remarks:

It is recommended that the installers are present at the time of testing so any

remediations can be rectified. If remediations are not rectified the nature of the fault

found will determine whether or not extra visits are required to test remediations.

Protection Type:- Protection Board ☐ Protection Fleece ☐

Insulation ☒ Remarks: Membrane will be installed on top of insulation.

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 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.

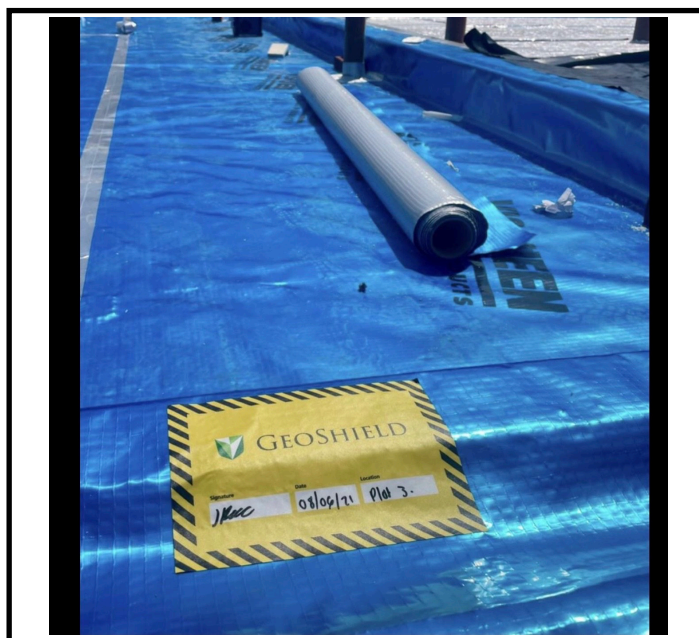


GeoShield Verification Plan



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	☒
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Minimum Preparation	Swept Clear	Yes	☒	No	☐
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Minimum Preparation	Vacuuming	Yes	☐	No	☒
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Minimum Preparation	Compressed air to remove	Yes	☐	No	☒
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Minimum Preparation	Remove Mortar Droppings	Yes	☒	No	☐
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Stone Substrate	Yes	☐	No	☒
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Minimum Preparation	Minimum 25mm Sand Blinding	Yes	☐	No	☒
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Minimum Preparation	Limestone Dust	Yes	☐	No	☒
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Minimum Preparation	Compacted Substrate	Yes	☐	No	☒
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Minimum Preparation	No large stones	Yes	☐	No	☒
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Concrete Substrate	Yes	☐	No	☒
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Minimum Preparation	No Hollows	Yes	☐	No	☒
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Minimum Preparation	Troweled Surface	Yes	☐	No	☒
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Remarks:	Membrane to be installed on top of insulation.
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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



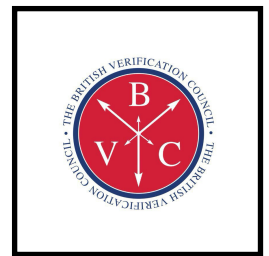
PRE-CONTRACT MEETING SUMMARY

As discussed in this Pre Verification Plan, the installation and verification of the Visqueen products. All details and drawings in this verification plan have been discussed so now the installers must run through how they will install the Visqueen products. The intended 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 Visqueen products such as the gas barrier and tapes 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 is classified as Type C in line with CS2

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.

