

PROJECT – DESIGN STRATEGY PROPOSAL

TARIFF STREET

STRUCTURAL WATERPROOFING
& GAS PROTECTION

TARIFF STREET



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EXECUTIVE SUMMARY

Executive Summary

Introduction

Premcrete have been invited to review details for this residential development consisting of two blocks, both containing basements. Originally, this site was classified as a Characteristic Situation 1 however, a more recent Soil Investigation Report mentions that gas protection measures are recommended. Therefore, our proposal is based on this site being Characteristic Situation 2 providing protection against Ground Gasses and Water Ingress. We assume that this building is classed as a Type B Building requiring 3.5 Gas Protection Points in accordance with BS 8485:2015.

Our design strategy for each area of the site is shown within the below table including a summary of how the Gas Protection Points are achieved.

Zones	Primary Gas Protection / Waterproofing	Secondary Gas Protection / Waterproofing / Damp-Proofing	Total Gas Protection Points
Ground Level Slab Zone	Hydroprufe 9000 Gas Resistant Damp-Proof Membrane 2 Gas Protection Points	Cast In Situ Monolithic Reinforced Ground Bearing Slab 1.5 Gas Protection Points	3.5 Total Gas Protection Points
Lift Core & Other Substructure Zones – Grade 3	Combi-Seal Pre-Applied Gas and Waterproof Membrane 2 Gas Protection Points	Hydrocrete Combined Crystalline and Pore-Blocking Watertight Concrete 1.5 Gas Protection Points	3.5 Total Gas Protection Points
Pile Cap Detailing	Hydroprufe LG Liquid Gas Membrane	HCR Butyl Tape Double Sided gas-resistant tape for bonding membrane to pile cap perimeter	
Pile Head Detailing	Hydroprufe LG Liquid Gas Membrane	Twinseal Compound GR Sealing compound for use to perimeter of pile heads	
Slab Edge Detailing	Hydroprufe 8000 Gas and Waterproof Self-Adhesive Membrane		

Key Considerations

- Hydroprufe LG proposal for the pile cap detailing will negate the requirement of wrapping pile caps and ground beams with a pre-applied membrane. Hydroprufe LG is fully certified for Gas, Water and VOC-resistance as well as Co-Efficient of Friction Testing to determine suitability for use within this critical shear connection zone.
- Hydrocrete Watertight Concrete should be cast at a minimum of 200mm thickness, and allowance for the top 300mm within the deep monolithic concrete pours of the lift core bases.

Premcrete Advantages

- Single point 25 Year Performance Warranty for all items within the substructure waterproofing design.
- Full design responsibility for entire project covered under the one manufacturer with our £5M PI insurance.
- BBA Certified Type A, B & C waterproofing systems.
- Access to Premtrac – Online Quality Control Portal.



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PROJECT DETAIL DRAWINGS

REFER TO L&W DRAWINGS FOR THE RED LINE BOUNDARY

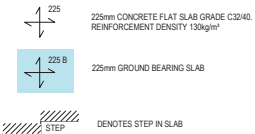
STAIRS NOTE: RETAINING WALL ARRANGEMENT TO BE CO-ORDINATED WITH STAIRS, CORRIDOR WIDENINGS ETC. AT DETAILED DESIGN STAGE TO ENSURE ADEQUATE SUPPORT TO GROUND FLOOR SLAB AND AVOID OBSTRUCTING PROPOSED LAYOUT

CLADDING NOTE: PERIMETER CLADDING BETWEEN GROUND FLOOR AND UNDERSIDE OF SECOND FLOOR (SUPPORTED ON GROUND BEAMS OR RETAINING WALL) NOT SHOWN. REFER TO ARCHITECTS ELEVATIONS

COLUMNS		
REF.	TYPE	DESCRIPTION
B1	CONCRETE COLUMN: 1125 x 350mm	GRADE C40/50 CONCRETE COLUMN. ALLOW 275kg/m ³ OF REINFORCEMENT
B2	CONCRETE COLUMN: 1000 x 350mm	GRADE C40/50 CONCRETE COLUMN. ALLOW 275kg/m ³ OF REINFORCEMENT
B3	CONCRETE COLUMN: 850 x 350mm	GRADE C40/50 CONCRETE COLUMN. ALLOW 275kg/m ³ OF REINFORCEMENT
B4	CONCRETE COLUMN: 850 x 350mm	GRADE C40/50 CONCRETE COLUMN. ALLOW 275kg/m ³ OF REINFORCEMENT
B5	CONCRETE COLUMN: 550 x 550mm	GRADE C40/50 CONCRETE COLUMN. ALLOW 275kg/m ³ OF REINFORCEMENT
B6	CONCRETE COLUMN: 550 x 550mm	GRADE C40/50 CONCRETE COLUMN. ALLOW 275kg/m ³ OF REINFORCEMENT
B7	CONCRETE COLUMN: 550 x 550mm	GRADE C40/50 CONCRETE COLUMN. ALLOW 275kg/m ³ OF REINFORCEMENT
B8	CONCRETE COLUMN: 350 x 350mm	GRADE C40/50 CONCRETE COLUMN. ALLOW 275kg/m ³ OF REINFORCEMENT

WALLS		
REF.	TYPE	DESCRIPTION
W1	250mm CONCRETE WALL	GRADE C32/40 CONCRETE WALL. ALLOW 150kg/m ³ OF REINFORCEMENT
WP	200mm CONCRETE PARAPET WALL	GRADE C32/40 CONCRETE WALL. ALLOW 150kg/m ³ OF REINFORCEMENT
WP - UPSTAND	200mm CONCRETE UPSTAND WALL	GRADE C32/40 CONCRETE WALL. ALLOW 150kg/m ³ OF REINFORCEMENT

NOTE: PENETRATIONS FOR FOUL AND RAINWATER TO BE CO-ORDINATED AND ADDED

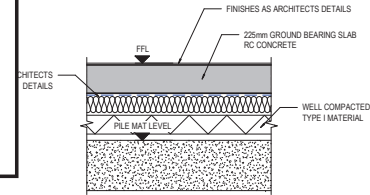


Key

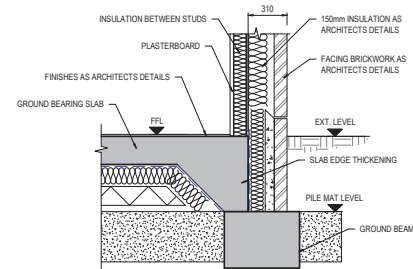
Basement / Lift Core Zones - Grade 3:
Combi-Seal Pre-Applied Waterproof and Gas Resistant Membrane and Hydrocrete Watertight Concrete.

Ground Floor Slab Zone: Hydroprufe 9000 Gas Resistant Damp-Proof Membrane.

Perimeter Detailing: Hydroprufe 8000 Self-Adhesive Membrane.



TYPICAL GROUND BEARING SLAB DETAIL
1:20



TYPICAL GROUND BEARING SLAB EDGE DETAIL
1:20

GROUND FLOOR
1:150

DO NOT SCALE FROM THIS DRAWING

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARD/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION:

RISK LISTED HERE ARE NOT EXHAUSTIVE. REFER TO DESIGN ASSESSMENT FORM NO.

CONSTRUCTION

PROXIMITY TO ADJACENT BOUNDARIES AND EXISTING STRUCTURES. RETENTION CONSTRUCTION CLOSE TO FOOTPATH/CHANGING SERVICES

DEMOLITION

DEMOLITION OF EXISTING DETACHED BUILDING REQUIRING REMOVAL SUPPORT FROM SAME YARD

FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE.

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.

NOTES:

- FOR SETTING OUT INFORMATION, REFER TO THE RELEVANT ARCHITECTS DRAWINGS
- ALL DIMENSIONS IN MM UNO
- SLAB, COLUMN AND WALL DIMENSIONS HAVE BEEN SIZED TO PROVIDE 120mins FIRE RESISTANCE
- NOTES RELATING TO CONSTRUCTION TO BE ADDED IN LATER REVISIONS
- ALLOW FOR HIGH YIELD STEEL REINFORCEMENT (fy=500N/mm²)
- SECONDARY STRUCTURE NOT SHOWN ON THIS REVISION. ELEMENTS SUCH AS UNITS IN MASONRY CLADDING, LIFT ITEMS SUCH AS CAPPING SLAB TO BE IDENTIFIED AT LATER STAGE IN THE DESIGN PROCESS
- CORE WALLS DRAWN AS SOLID WALLS ON PLANS. OPENINGS FOR DOORS, LIFT ENTRANCES ETC. TO BE SHOWN AT LATER STAGE
- REFER TO 143405 FOR RETAINED BLOCK DETAILS

C	13.05.22	WORKS UPDATES	JM	JT
B	15.05.22	COLUMNS MOVED	JM	JT
A	13.05.22	STRUCTURE UPDATED	JM	JT
Rev	Date	Description	Drawn	Checked

Drawn: JT

Checked: JM

Approved: JT

Drawn Date: 09.11.2022

Checked Date: 09.11.2022

Approved Date: 09.11.2022

Drawing Number: 143404 - 4000

Rev: C

FAIRHURST Client

AXIS-RE

51a St. Pauls Street
LEEDS
LS1 2TE

Tel: 0113 243 4671
Fax: 0844 381 4412

Project Title

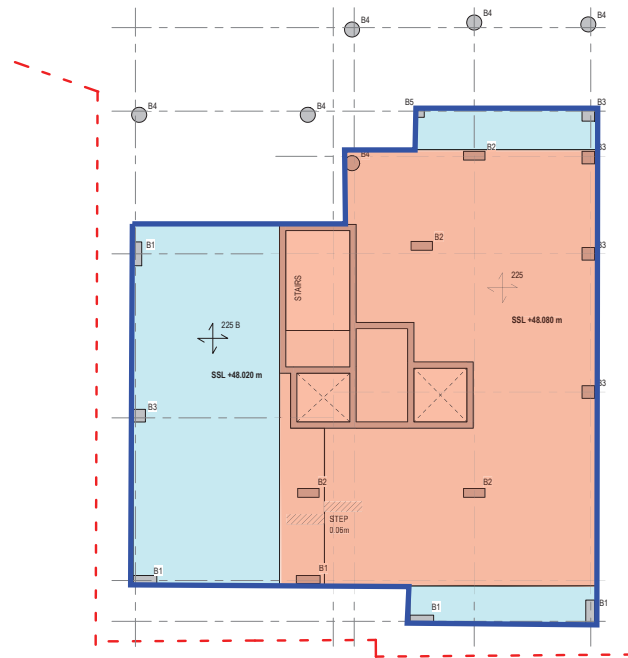
**1NO BLOCK 1
TARIFF STREET
MANCHESTER**

Drawing Title

GROUND FLOOR PLAN G.A.

COLUMNS		
REF.	TYPE	DESCRIPTION
B1	CONCRETE COLUMN: 900 x 350mm	GRADE C40/50 CONCRETE COLUMN, ALLOW 275kg/m3 OF REINFORCEMENT
B2	CONCRETE COLUMN: 850 x 350mm	GRADE C40/50 CONCRETE COLUMN, ALLOW 275kg/m3 OF REINFORCEMENT
B3	CONCRETE COLUMN: 800 x 500mm	GRADE C40/50 CONCRETE COLUMN, ALLOW 275kg/m3 OF REINFORCEMENT
B4	CONCRETE COLUMN: 800 x 600mm	GRADE C40/50 CONCRETE COLUMN, ALLOW 275kg/m3 OF REINFORCEMENT
B5	CONCRETE COLUMN: 350 x 350mm	GRADE C40/50 CONCRETE COLUMN, ALLOW 275kg/m3 OF REINFORCEMENT

WALLS		
REF.	TYPE	DESCRIPTION
W1	250mm CONCRETE WALL	GRADE C32/40 CONCRETE WALL, ALLOW 150kg/m3 OF REINFORCEMENT
WP	250mm CONCRETE PARAPET WALL	GRADE C32/40 CONCRETE WALL, ALLOW 150kg/m3 OF REINFORCEMENT



GROUND FLOOR
1:100

REFER TO LRW DRAWINGS FOR THE RED LINE BOUNDARY



225mm CONCRETE FLAT SLAB GRADE C32/40.
REINFORCEMENT DENSITY 130kg/m³



225mm GROUND BEARING SLAB

Key

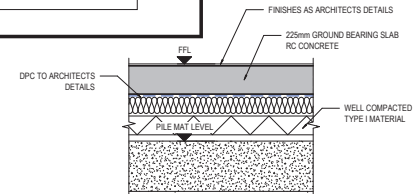
Basement / Lift Core Zones - Grade 3:
Combi-Seal Pre-Applied Waterproof and Gas Resistant Membrane and Hydrocrete Watertight Concrete.

Ground Floor Slab Zone: Hydroprufe 9000 Gas Resistant Damp-Proof Membrane.

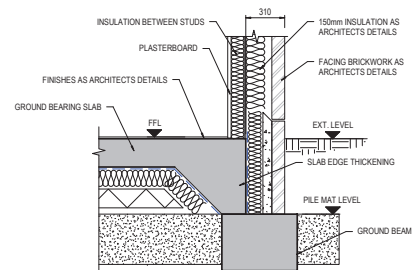
Perimeter Detailing: Hydroprufe 8000 Self-Adhesive Membrane.

STAIRS NOTE: RETAINING WALL ARRANGEMENT TO BE CO-ORDINATED WITH STAIRS, CORRIDOR WIDENINGS ETC. AT DETAILED DESIGN STAGE TO ENSURE ADEQUATE SUPPORT TO GROUND FLOOR SLAB AND AVOID OBSTRUCTING PROPOSED LAYOUT

CLADDING NOTE: PERIMETER CLADDING BETWEEN GROUND FLOOR AND UNDERSIDE OF SECOND FLOOR SUPPORTED ON GROUND BEAMS OR RETAINING WALLS NOT SHOWN. REFER TO ARCHITECTS ELEVATIONS



TYPICAL GROUND BEARING SLAB DETAIL
1:20



TYPICAL GROUND BEARING SLAB EDGE DETAIL
1:20

DO NOT SCALE FROM THIS DRAWING

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION	
IN ADDITION TO THE HAZARD/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION:	
RISK LISTED HERE ARE NOT EXHAUSTIVE. REFER TO DESIGN ASSESSMENT FORM NO.	
CONSTRUCTION	
PROXIMITY TO ADJACENT BOUNDARIES AND EXISTING STRUCTURES REQUIRING PROTECTIVE AND RETENTION	
DEMOLITION	
NONE A COMPETENT CONTRACTOR WOULD NOT BE AWARE OF	
FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE.	
IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.	

- NOTES:**
- FOR SETTING OUT INFORMATION, REFER TO THE RELEVANT ARCHITECTS DRAWINGS
 - ALL DIMENSIONS IN MM UNO
 - SLAB, COLUMN AND WALL DIMENSIONS HAVE BEEN SIZED TO PROVIDE 120mins FIRE RESISTANCE
 - NOTES RELATING TO CONSTRUCTION TO BE ADDED IN LATER REVISIONS
 - ALLOW FOR HIGH YIELD STEEL REINFORCEMENT (fy=500N/mm²)
 - SECONDARY STRUCTURE NOT SHOWN ON THIS REVISION. ELEMENTS SUCH AS UNITS IN MASONRY CLADDING, LIFT ITEMS SUCH AS CAPPING SLAB TO BE IDENTIFIED AT LATER STAGE IN THE DESIGN PROCESS
 - CORE WALLS DRAWN AS SOLID WALLS ON PLANS. OPENINGS FOR DOORS, LIFT ENTRANCES ETC. TO BE SHOWN AT LATER STAGE
 - REFER TO 143404 FOR 1NO BTR BLOCK

B	16.06.22	UPDATED FOR TENDER	JRM/JT
A	20.06.22	STRUCTURE UPDATED	JRM/JT
Rev	Issue	Description	Drawn/Checked

FAIRHURST Client	
AXIS-RE	
51a St. Pauls Street LEEDS LS1 2TE	
Tel: 0113 243 4671 Fax: 0844 381 4412	

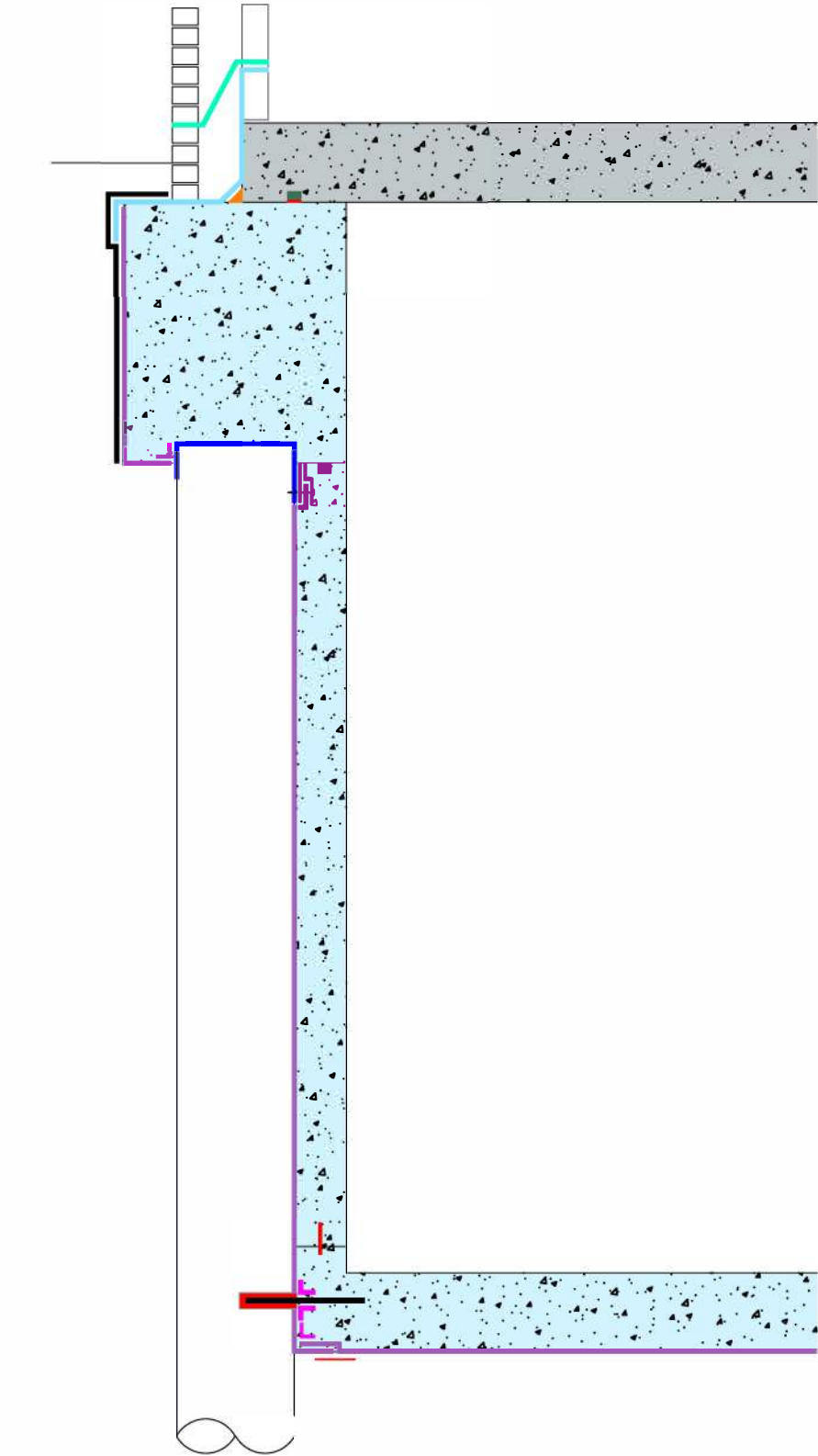
Project Title
**1NO BLOCK 2
TARIFF STREET
MANCHESTER**

Drawing Title
GROUND FLOOR PLAN G.A.

Scale @ A1	Purpose of Issue	As indicated
Drawn	Checked	Approved
JRM	JM	JT
Draw Date	Checked Date	Approved Date
09.11.2022	09.11.2022	09.11.2022

Drawing Number:	Rev
143405 - 4000	B

Important design notes:
• Grade 3 Environments also require ventilation appropriate to intended use of environment (BS 8102:2022 Table 2)



KEY

Click on product names to access technical information

- Hydroprufe DPC
- Combi-Seal
- Protection Board 600
- Hydroprufe 8000
- Hydroprufe LG
- 0.7-1.2mm quartz aggregate to be broadcast into coating where concrete connection is required (0.5kg per 1m²)
- Combi-Seal Tape
- Twinseal GR
- 3mm Application
- Teknocem HBR
- 50 x 50mm Fillet
- Termination Bar
- Standard Concrete to Structural Liner Wall / Slab
- Hydrocrete
- Hydrocrete Concrete
- Hydrostop BR on Hydrostop WSM
- Cemflex VB
- Epodure EP600
- Hydrostop WSM
- 15mm Bead

Conditions

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This drawing must be read in conjunction with the relevant datasheets, BS 8102:2022 and BS 8485:2015+A1:2019 if appropriate.
This drawing has been prepared as a guide to assist with the installation of the products.
This drawing requires the approval of the designer of the structure.
It is the responsibility of the designer to ensure that any design decisions, made by others that have an impact on the waterproofing design are brought to the attention of the waterproof designer.
It is the responsibility of the designer of the structure to ensure that the details shown on this drawing match the construction drawings.

Important Notes

The waterproofing design is designed to the Grades of Environment described below:
Grade 1A - Seepage and dampness from internal and external sources tolerable
Grade 1B - No seepage, however damp areas from internal and external sources tolerable
Grade 2 - No seepage through structure is acceptable however condensation and dampness are tolerable as a result of internal air moisture
Grade 3 - Ventilation, dehumidification or air conditioning are required appropriate to intended use in accord with BS 8102:2022 Table 2 to achieve a dry, habitable environment which is outside the scope of this design

Construction joints are required to be scabbled or retarded to ensure good concrete connection.
An approved curing agent is to be applied to concrete immediately after pouring.
Laps between dissimilar waterproofing products to be 100mm unless otherwise annotated.
All substructure construction joints must have waterbar installed with a minimum of 75mm concrete cover. (Internal, non-retaining construction joints do not require waterbars).
A maximum ratio of 3:1 is required for any liner wall pours. Liner wall pours should be cast 'hit and miss' to ensure that shrinkage of concrete is compensated.
It is the responsibility of the installing contractor to ensure that good concrete practice is maintained at all times when pouring concrete.
If the design incorporates any of the following products:
• Hydrocrete should be a minimum of 200mm thick or 300mm if poured monolithically in conjunction with standard concrete.
• Hydroprufe Primer to be applied to concrete/masonry substrate prior to the application of Hydroflow Corner Tape or Hydroprufe Detail Tape.
• Hydroseal Sealer to be applied to all surfaces prior to installing Hydroflow HP.
• High density insulation under Hydroflow HP20 should be fixed to substrate at a minimum of 5 fixings per sheet.

Rev	Date	Description	Dwn	Chk
P01	01/02/21	Issued for Information	DM	JM



44 Macadam Way | West Portway Industrial Park
Andover | Hampshire | SP10 3XW
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fisproducts.co.uk

DRAFT

Not for Construction,
for discussion only

Date
01/01/2022

Premcrete Drawing No
TD-002 (1)

This drawing is designed to
achieve the following environment
in accordance with BS 8102:2022

GRADE 3

Scale
Not to Scale

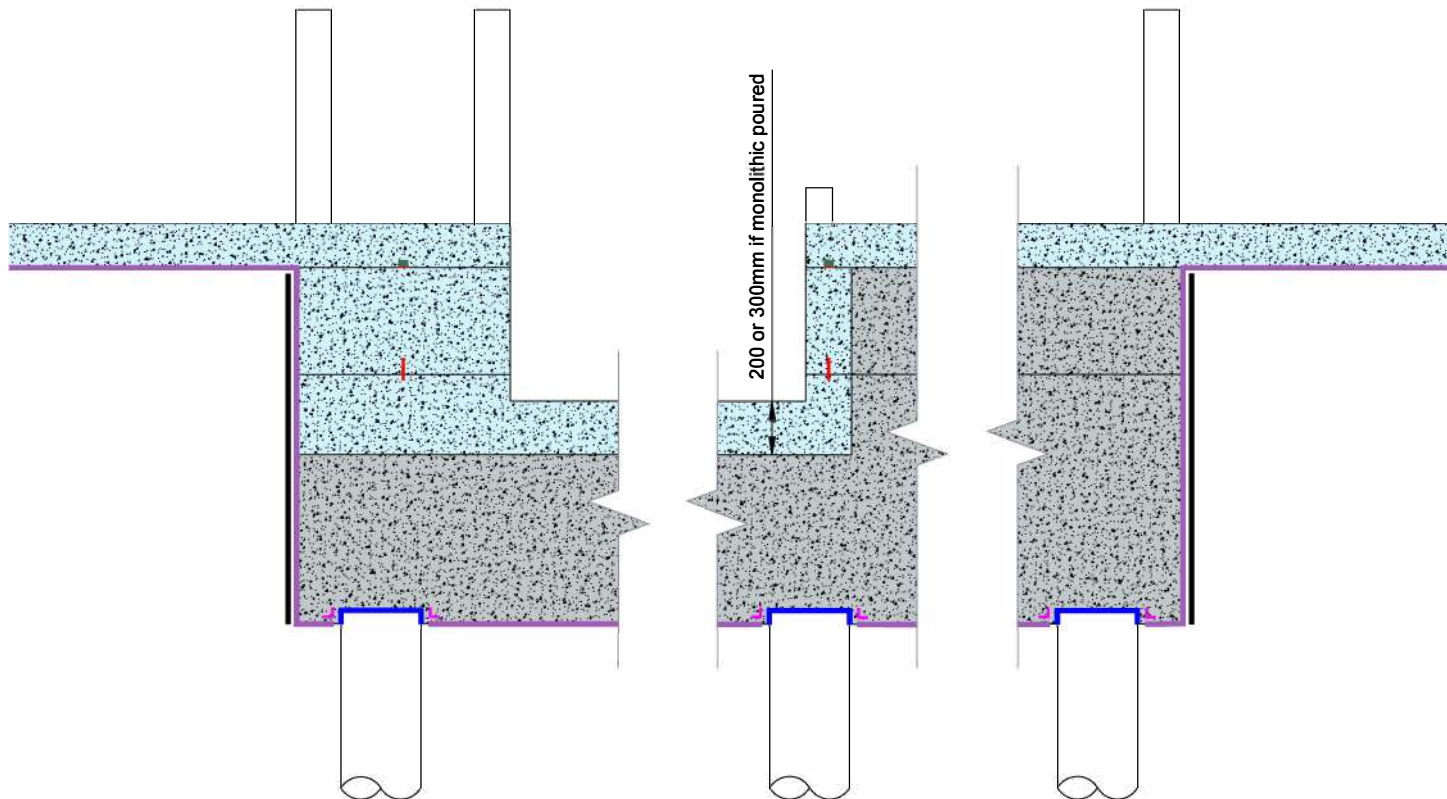
Client
TENDER

Project
GENERIC

Title
TYPICAL SECTION THROUGH BASEMENT

Important design notes:

- Grade 3 Environments also require ventilation appropriate to intended use of environment (BS 8102:2022 Table 2).



KEY

Click on product names to access technical information

Combi-Seal
Hydroprufe LG
0.7-1.2mm quartz aggregate to be broadcast into coating where concrete connection is required (0.5kg per 1m²)

Protection Board 600

Twinsal GR
3mm Application

Hydrostop BR on Hydrostop WSM

Cemflex VB

Hydrocrete Concrete

Standard Concrete to Structural Liner Wall / Slab

Conditions

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This drawing must be read in conjunction with the relevant datasheets, BS 8102:2022 and BS 8485:2015+A1:2019 if appropriate.
This drawing has been prepared as a guide to assist with the installation of the products. This drawing requires the approval of the designer of the structure.
It is the responsibility of the designer to ensure that any design decisions, made by others that have an impact on the waterproofing design are brought to the attention of the waterproof designer.
It is the responsibility of the designer of the structure to ensure that the details shown on this drawing match the construction drawings.

Important Notes

The waterproofing design is designed to the Grades of Environment described below:
Grade 1A - Seepage and dampness from internal and external sources tolerable
Grade 1B - No seepage, however damp areas from internal and external sources tolerable
Grade 2 - No seepage through structure is acceptable however condensation and dampness are tolerable as a result of internal air moisture
Grade 3 - Ventilation, dehumidification or air conditioning are required appropriate to intended use in accord with BS 8102:2022 Table 2 to achieve a dry, habitable environment which is outside the scope of this design

Construction joints are required to be scabbled or retarded to ensure good concrete connection. An approved curing agent is to be applied to concrete immediately after pouring.
Laps between dissimilar waterproofing products to be 100mm unless otherwise annotated.
All substructure construction joints must have waterbar installed with a minimum of 75mm concrete cover. (Internal, non-retaining construction joints do not require waterbars).
A maximum ratio of 3:1 is required for any liner wall pours. Liner wall pours should be cast 'hit and miss' to ensure that shrinkage of concrete is compensated.
It is the responsibility of the installing contractor to ensure that good concrete practice is maintained at all times when pouring concrete. If the design incorporates any of the following products:

- Hydrocrete should be a minimum of 200mm thick or 300mm if poured monolithically in conjunction with standard concrete.
- Hydroprufe Primer to be applied to concrete/masonry substrate prior to the application of Hydroflow Corner Tape or Hydroprufe Detail Tape.
- Hydroseal Sealer to be applied to all surfaces prior to installing Hydroflow HP.
- High density insulation under Hydroflow HP20 should be fixed to substrate at a minimum of 5 fixings per sheet.

Rev	Date	Description	Dwn	Chk
P01	01/02/21	Issued for Information	DM	JM

DRAFT
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This drawing is designed to achieve the following environment in accordance with BS 8102:2022

GRADE 3

Client
TENDER

Project
GENERIC

Premcrete Drawing No
TD-019(1)

Date
01/01/2022

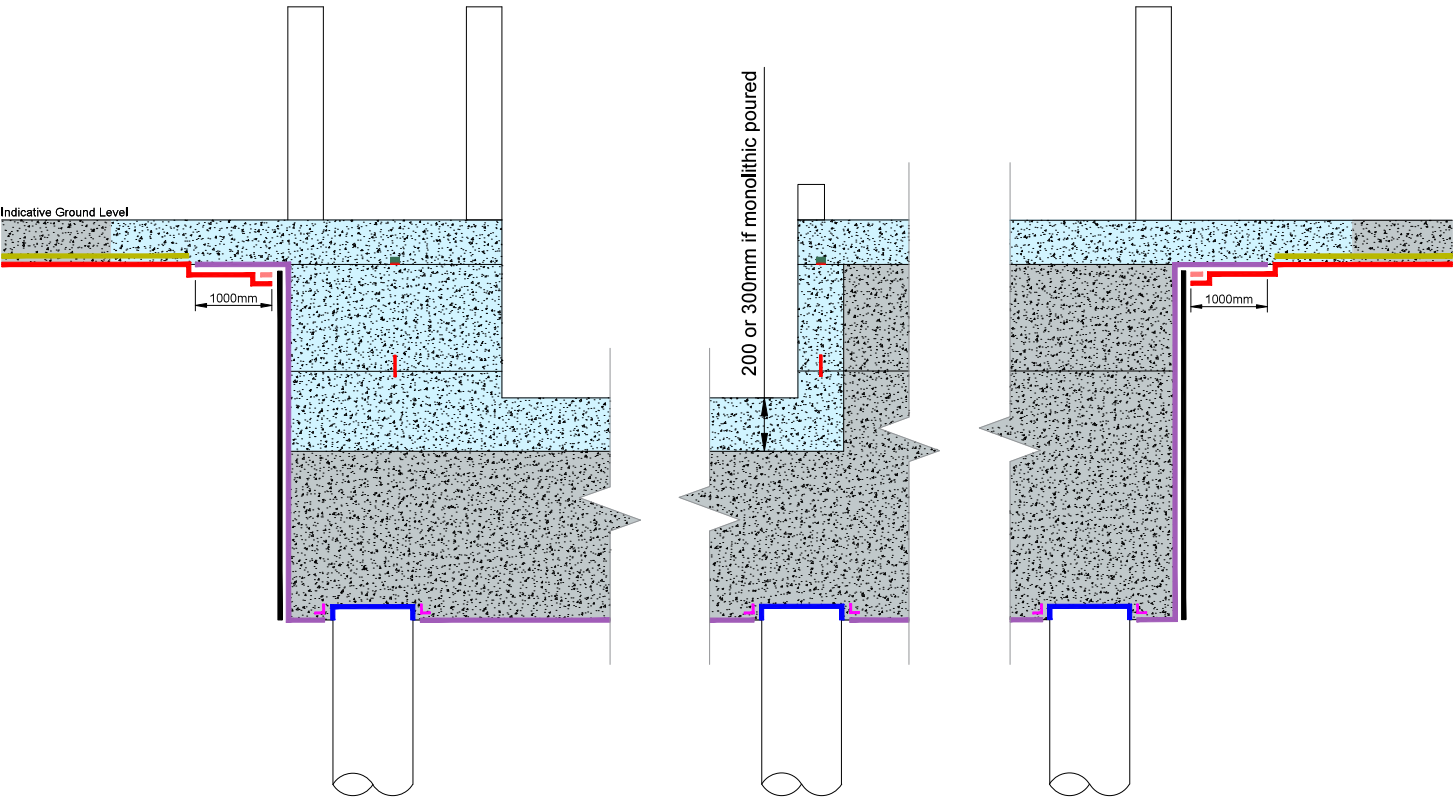
Scale
Not to Scale



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Andover | Hampshire | SP10 3XW
Tel: 02380 276166 | sales@fisproducts.co.uk
fisproducts.co.uk

Important design notes:

- Grade 3 Environments also require ventilation appropriate to intended use of environment (BS 8102:2022 Table 2).



KEY

Click on product names to access technical information

Combi-Seal	
Hydroprufe 9000	
Lap may need to be extended to 300mm if required by building warranty provider	
Hydroprufe LG	
0.7-1.2mm quartz aggregate to be broadcast into coating where concrete connection is required (0.5kg per 1m²)	
Protection Board 300	
Protection Board 600	
Hydroprufe HCR Butyl Tape	
Twinseal GR 3mm Application	

Conditions

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It is the responsibility of the designer of the structure to ensure that the details shown on this drawing match the construction drawings.

Important Notes

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Grade 1B - No seepage, however damp areas from internal and external sources tolerable
Grade 2 - No seepage through structure is acceptable however condensation and dampness are tolerable as a result of internal air moisture
Grade 3 - Ventilation, dehumidification or air conditioning are required appropriate to intended use in accord with BS 8102:2022 Table 2 to achieve a dry, habitable environment which is outside the scope of this design

Construction joints are required to be scabbled or retarded to ensure good concrete connection. An approved curing agent is to be applied to concrete immediately after pouring.
Laps between dissimilar waterproofing products to be 100mm unless otherwise annotated. All substructure construction joints must have waterbar installed with a minimum of 75mm concrete cover. (Internal, non-retaining construction joints do not require waterbars). A maximum ratio of 3:1 is required for any liner wall pours. Liner wall pours should be cast 'hit and miss' to ensure that shrinkage of concrete is compensated.
It is the responsibility of the installing contractor to ensure that good concrete practice is maintained at all times when pouring concrete. If the design incorporates any of the following products:

- Hydrocrete should be a minimum of 200mm thick or 300mm if poured monolithically in conjunction with standard concrete.
- Hydroprufe Primer to be applied to concrete/masonry substrate prior to the application of Hydroflow Corner Tape or Hydroprufe Detail Tape.
- Hydroseal Sealer to be applied to all surfaces prior to installing Hydroflow HP.
- High density insulation under Hydroflow HP20 should be fixed to substrate at a minimum of 5 fixings per sheet.

P01	01/02/21	Issued for Information	DM	JM	
Rev	Date	Description	Dwn	Chk	

Client TENDER	Project GENERIC	Drawing No TD-019(1)	44 Macadam Way West Portway Industrial Park Andover Hampshire SP10 3XW Tel: 02380 276166 sales@fisproducts.co.uk fisproducts.co.uk
		Date 01/01/2022	
		Scale Not to Scale	
		Title TYPICAL SECTION THROUGH LIFT PIT/CORE	

DRAFT

Not for Construction,
for discussion only

This drawing is designed to achieve the following environment in accordance with BS 8102:2022

GRADE 3

Important design notes:

KEY

Click on product names to access technical information

Hydrostop BR on Hydrostop WSM

Combi-Seal

Hydrocrete Concrete

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This drawing must be read in conjunction with the relevant datasheets and BS 8102:2009 and BS 8485:2015 if appropriate.

This drawing has been prepared as a guide to assist with the installation of the products.

This drawing requires the approval of the designer of the structure. It is the responsibility of the designer to ensure that any design decisions, made by others that have an impact on the waterproofing design are brought to the attention of the waterproof designer.

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Important Notes

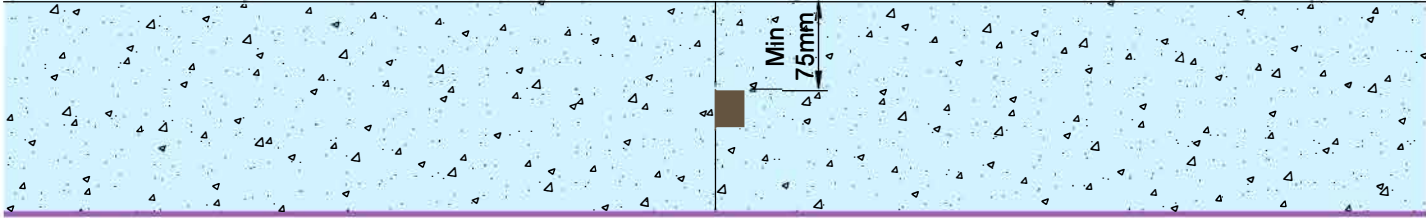
Envirocure 90 Curing Agent to be applied to all concrete surfaces once pour is complete and shuttering removed. Premtard TF to be applied to all kicker joints and Premtard MF to be applied to all other construction joints.

All substructure construction joints must have waterbar installed with a minimum of 75mm concrete cover (internal, non-retaining construction joints do not require waterbar).

Hydroseal Sealer to be applied to all surfaces prior to installing Hydroflow HP. Hydroprufe Primer to be applied to substrate prior to the application of Hydroflow Comer Tape.

If the design incorporates high density insulation under Hydroflow HP20 then it should be fixed to substrate at a minimum of 5 fixings per sheet.

P01	30/04/20	Issued for Information	DM	JM
Rev	Date	Description	Drawn	Chk



NOTE: All laps between products are 150mm unless otherwise annotated

Client TENDER	Project GENERIC
Title TYPICAL CONSTRUCTION JOINT DETAIL	

Premcrete Drawing No TD-012 (1)		
Date 30/04/2020	Revision P01	
Drawn DM	Checked JM	Scale NTS



Seymour House | Mayflower Close | Chandlers Ford
Eastleigh | Hampshire | SO53 4AR
Tel: 02380 276166 | sales@fisproducts.co.uk

DRAFT

Not for Construction,
for discussion only

This drawing is designed to
achieve the following environment
in accordance with BS 8102: 2009

GRADE 3

Important design notes:

KEY

Click on product names to access technical information

Hydrostop BR on Hydrostop WSM

Hydroprufe 9000

Protection Board 300

Standard Concrete to Structural Liner Wall / Slab

This drawing is copyright of FIS Products. Permission for copying may be obtained from FIS Products.

This drawing must be read in conjunction with the relevant datasheets and BS 8102:2009 and BS 8485:2015 if appropriate.

This drawing has been prepared as a guide to assist with the installation of the products.

This drawing requires the approval of the designer of the structure.

It is the responsibility of the designer to ensure that any design decisions, made by others that have an impact on the waterproofing design are brought to the attention of the waterproof designer.

It is the responsibility of the designer of the structure to ensure that the details shown on this drawing match the construction drawings.

Important Notes

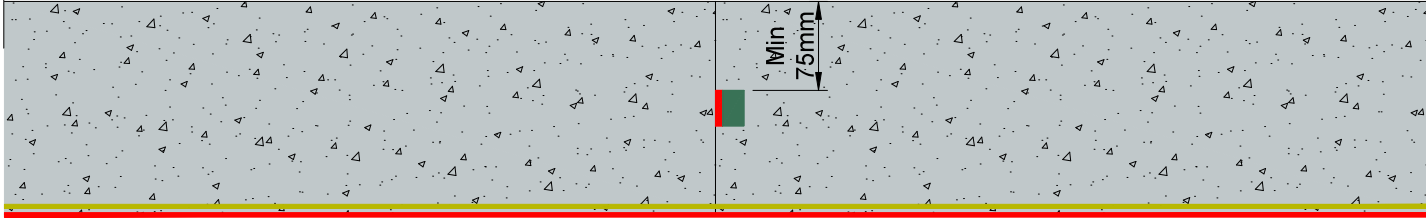
Envirocure 90 Curing Agent to be applied to all concrete surfaces once pour is complete and shuttering removed. Premtard TF to be applied to all kicker joints and Premtard MF to be applied to all other construction joints.

All substructure construction joints must have waterbar installed with a minimum of 75mm concrete cover (internal, non-retaining construction joints do not require waterbar).

Hydroseal Sealer to be applied to all surfaces prior to installing Hydroflow HP. Hydroprufe Primer to be applied to substrate prior to the application of Hydroflow Corner Tape.

If the design incorporates high density insulation under Hydroflow HP20 then it should be fixed to substrate at a minimum of 5 fixings per sheet.

P01	30/04/20	Issued for Information		DM	JM
Rev	Date	Description		Dwn	Chk



NOTE: All laps between products are 150mm unless otherwise annotated

Client TENDER	Project GENERIC
Title TYPICAL CONSTRUCTION JOINT DETAIL	

Drawing No TD-012 (1)		
Date 30/04/2020	Revision P01	
Drawn DM	Checked JM	Scale NTS



Seymour House | Mayflower Close | Chandlers Ford
Eastleigh | Hampshire | SO53 4AR
Tel: 02380 276166 | sales@fisproducts.co.uk

DRAFT

Not for Construction,
for discussion only

This drawing is designed to achieve the following environment in accordance with BS 8102: 2009

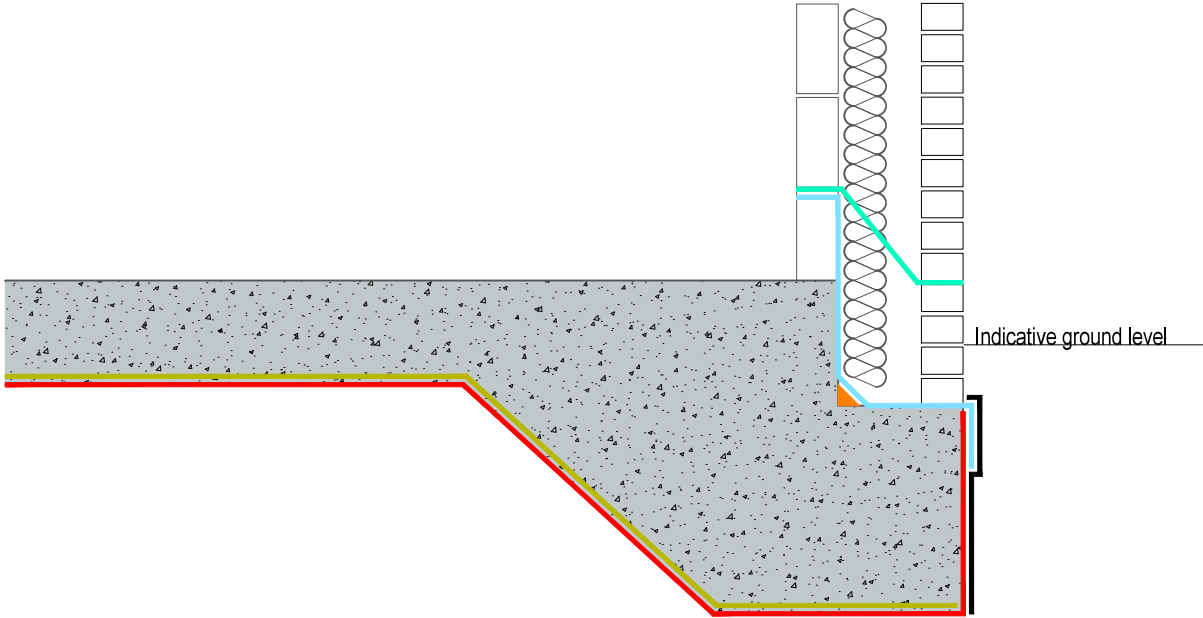
GRADE 3

Important design notes: Grade 3 Environments also require ventilation appropriate to intended use of environment (BS 8102:2022 Table 2).		KEY Click on product names to access technical information Combi-Seal Hydroprufe LG 0.7-1.2mm quartz aggregate to be broadcast into coating where concrete connection is required (0.5kg per 1m²) Hydroprufe HCR Butyl Tape Shot Fired Fixing Hydrocrete Concrete Standard Concrete to Structural Liner Wall / Slab Conditions This drawing is copyright of FIS Products. Permission for copying may be obtained from FIS Products. This drawing must be read in conjunction with the relevant datasheets, BS 8102:2022 and BS 8485:2015+A1:2019 if appropriate. This drawing has been prepared as a guide to assist with the installation of the products. This drawing requires the approval of the designer of the structure. It is the responsibility of the designer to ensure that any design decisions, made by others that have an impact on the waterproofing design are brought to the attention of the waterproof designer. It is the responsibility of the designer of the structure to ensure that the details shown on this drawing match the construction drawings. Important Notes The waterproofing design is designed to the Grades of Environment described below: Grade 1A - Seepage and dampness from internal and external sources tolerable Grade 1B - No seepage, however damp areas from internal and external sources tolerable Grade 2 - No seepage through structure is acceptable however condensation and dampness are tolerable as a result of internal air moisture Grade 3 - Ventilation, dehumidification or air conditioning are required appropriate to intended use in accord with BS 8102:2022 Table 2 to achieve a dry, habitable environment which is outside the scope of this design Construction joints are required to be scabbled or retarded to ensure good concrete connection. An approved curing agent is to be applied to concrete immediately after pouring. Laps between dissimilar waterproofing products to be 100mm unless otherwise annotated. All substructure construction joints must have waterbar installed with a minimum of 75mm concrete cover. (Internal, non-retaining construction joints do not require waterbars). A maximum ratio of 3:1 is required for any liner wall pours. Liner wall pours should be cast 'hit and miss' to ensure that shrinkage of concrete is compensated. It is the responsibility of the installing contractor to ensure that good concrete practice is maintained at all times when pouring concrete. If the design incorporates any of the following products: - Hydrocrete should be a minimum of 200mm thick or 300mm if poured monolithically in conjunction with standard concrete. - Hydroprufe Primer to be applied to concrete/masonry substrate prior to the application of Hydroflow Corner Tape or Hydroprufe Detail Tape. - Hydroseal Sealer to be applied to all surfaces prior to installing Hydroflow HP. - High density insulation under Hydroflow HP20 should be fixed to substrate at a minimum of 5 fixings per sheet.																			
Client TENDER	Project GENERIC	Premcrete Drawing No TD-001(1) Date 01/01/2022 Scale Not to Scale	PREMCRETE 44 Macadam Way West Portway Industrial Park Andover Hampshire SP10 3XW Tel: 02380 276166 sales@fisproducts.co.uk fisproducts.co.uk <table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>PO1</td><td>01/02/21</td><td>Issued for Information</td><td>DM</td><td>JM</td><td></td></tr><tr><td>Rev</td><td>Date</td><td>Description</td><td>Dwn</td><td>Chk</td><td></td></tr></table> DRAFT Not for Construction, for discussion only This drawing is designed to achieve the following environment in accordance with BS 8102:2022 GRADE 3							PO1	01/02/21	Issued for Information	DM	JM		Rev	Date	Description	Dwn	Chk	
PO1	01/02/21	Issued for Information	DM	JM																	
Rev	Date	Description	Dwn	Chk																	
Title TYPICAL SECTION THROUGH PILECAP																					

Important design notes: Grade 3 Environments also require ventilation appropriate to intended use of environment (BS 8102:2022 Table 2).		KEY Click on product names to access technical information Hydroprufe 9000 Lap may need to be extended to 300mm if required by building warranty provider Hydroprufe LG 0.7-1.2mm quartz aggregate to be broadcast into coating where concrete connection is required (0.5kg per 1m²) Protection Board 300 HCR Foil Girth Tape Standard Concrete to Structural Liner Wall / Slab Conditions This drawing is copyright of FIS Products. Permission for copying may be obtained from FIS Products. This drawing must be read in conjunction with the relevant datasheets, BS 8102:2022 and BS 8485:2015+A1:2019 if appropriate. This drawing has been prepared as a guide to assist with the installation of the products. This drawing requires the approval of the designer of the structure. It is the responsibility of the designer to ensure that any design decisions, made by others that have an impact on the waterproofing design are brought to the attention of the waterproof designer. It is the responsibility of the designer of the structure to ensure that the details shown on this drawing match the construction drawings. Important Notes The waterproofing design is designed to the Grades of Environment described below: Grade 1A - Seepage and dampness from internal and external sources tolerable Grade 1B - No seepage, however damp areas from internal and external sources tolerable Grade 2 - No seepage through structure is acceptable however condensation and dampness are tolerable as a result of internal air moisture Grade 3 - Ventilation, dehumidification or air conditioning are required appropriate to intended use in accord with BS 8102:2022 Table 2 to achieve a dry, habitable environment which is outside the scope of this design Construction joints are required to be scabbled or retarded to ensure good concrete connection. An approved curing agent is to be applied to concrete immediately after pouring. Laps between dissimilar waterproofing products to be 100mm unless otherwise annotated. All substructure construction joints must have waterbar installed with a minimum of 75mm concrete cover. (Internal, non-retaining construction joints do not require waterbars). A maximum ratio of 3:1 is required for any liner wall pours. Liner wall pours should be cast 'hit and miss' to ensure that shrinkage of concrete is compensated. It is the responsibility of the installing contractor to ensure that good concrete practice is maintained at all times when pouring concrete. If the design incorporates any of the following products: Hydrocrete should be a minimum of 200mm thick or 300mm if poured monolithically in conjunction with standard concrete. Hydroprufe Primer to be applied to concrete/masonry substrate prior to the application of Hydroflow Corner Tape or Hydroprufe Detail Tape. Hydroseal Sealer to be applied to all surfaces prior to installing Hydroflow HP. High density insulation under Hydroflow HP20 should be fixed to substrate at a minimum of 5 fixings per sheet.																									
Client TENDER		Project GENERIC		Drawing No TD-001(1) Date 01/01/2022 Scale Not to Scale		PREMCRETE 44 Macadam Way West Portway Industrial Park Andover Hampshire SP10 3XW Tel: 02380 276166 sales@fisproducts.co.uk fisproducts.co.uk		<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>P01</td><td>01/02/21</td><td>Issued for Information</td><td>DM</td><td>JM</td><td></td></tr><tr><td>Rev</td><td>Date</td><td>Description</td><td>Dwn</td><td>Chk</td><td></td></tr></table> DRAFT Not for Construction, for discussion only This drawing is designed to achieve the following environment in accordance with BS 8102:2022 GRADE 3								P01	01/02/21	Issued for Information	DM	JM		Rev	Date	Description	Dwn	Chk	
P01	01/02/21	Issued for Information	DM	JM																							
Rev	Date	Description	Dwn	Chk																							
Title TYPICAL SECTION THROUGH PILECAP																											

Important design notes:

- Grade 3 Environments also require ventilation appropriate to intended use of environment (BS 8102:2022 Table 2).



KEY

Click on product names to access technical information

Hydroprufe DPC	
Hydroprufe 9000	
Teknocem HBR 50 x 50mm Fillet	
Hydroprufe 8000	
Protection Board 300	
Protection Board 600	
Standard Concrete to Structural Liner Wall / Slab	

Conditions

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This drawing requires the approval of the designer of the structure.
It is the responsibility of the designer to ensure that any design decisions, made by others that have an impact on the waterproofing design are brought to the attention of the waterproof designer.
It is the responsibility of the designer of the structure to ensure that the details shown on this drawing match the construction drawings.

Important Notes

The waterproofing design is designed to the Grades of Environment described below:
Grade 1A - Seepage and dampness from internal and external sources tolerable
Grade 1B - No seepage, however damp areas from internal and external sources tolerable
Grade 2 - No seepage through structure is acceptable however condensation and dampness are tolerable as a result of internal air moisture
Grade 3 - Ventilation, dehumidification or air conditioning are required appropriate to intended use in accord with BS 8102:2022 Table 2 to achieve a dry, habitable environment which is outside the scope of this design

Construction joints are required to be scabbled or retarded to ensure good concrete connection. An approved curing agent is to be applied to concrete immediately after pouring.
Laps between dissimilar waterproofing products to be 100mm unless otherwise annotated.
All substructure construction joints must have waterbar installed with a minimum of 75mm concrete cover. (Internal, non-retaining construction joints do not require waterbars).
A maximum ratio of 3:1 is required for any liner wall pours. Liner wall pours should be cast 'hit and miss' to ensure that shrinkage of concrete is compensated.
It is the responsibility of the installing contractor to ensure that good concrete practice is maintained at all times when pouring concrete. If the design incorporates any of the following products:

- Hydrocrete should be a minimum of 200mm thick or 300mm if poured monolithically in conjunction with standard concrete.
- Hydroprufe Primer to be applied to concrete/masonry substrate prior to the application of Hydroflow Corner Tape or Hydroprufe Detail Tape.
- Hydroseal Sealer to be applied to all surfaces prior to installing Hydroflow HP.
- High density insulation under Hydroflow HP20 should be fixed to substrate at a minimum of 5 fixings per sheet.

Rev	Date	Description	Dwn	UJ	Chk
P01	01/02/21	Issued for Information	DM	JM	

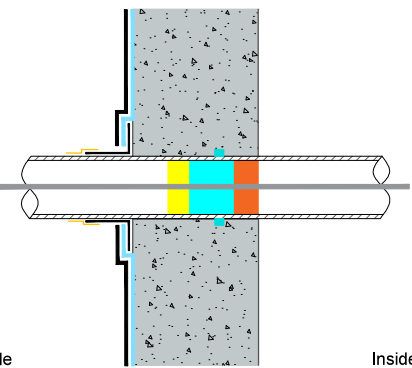
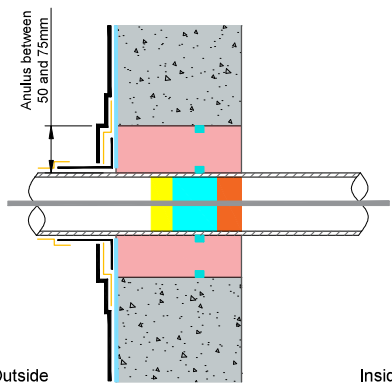
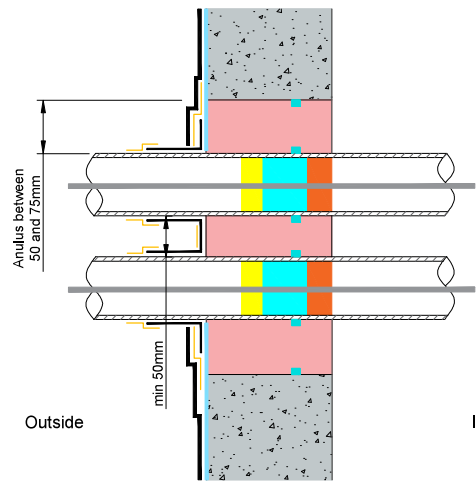
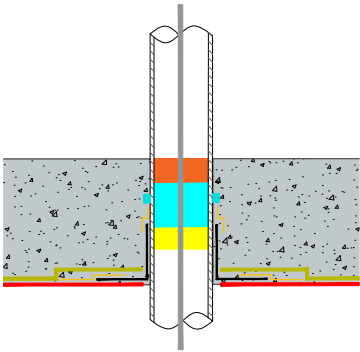
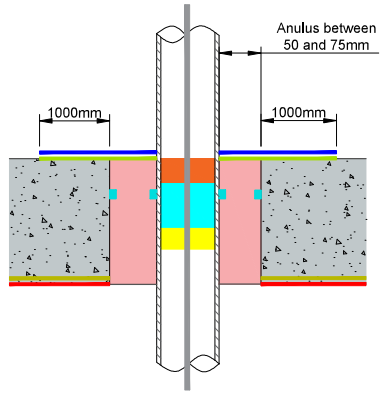
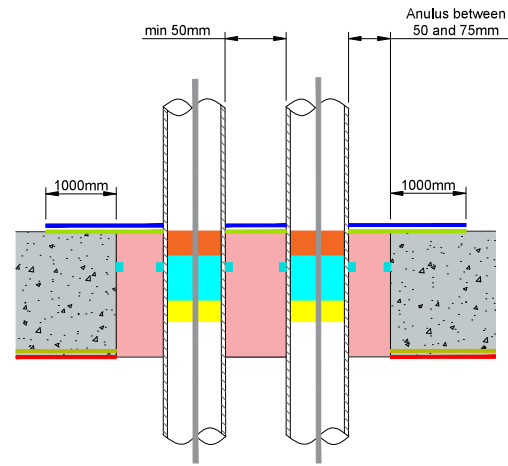
DRAFT

Not for Construction,
for discussion only

This drawing is designed to
achieve the following environment
in accordance with BS 8102:2022

GRADE 3

Client TENDER	Project GENERIC	Drawing No TD-003(2)	 44 Macadam Way West Portway Industrial Park Andover Hampshire SP10 3XW Tel: 02380 276166 sales@fisproducts.co.uk fisproducts.co.uk
Title SLAB EDGE WATERPROOFING DETAIL		Date 11/08/2022	
		Scale Not to Scale	

Important design notes: • Site photographs of all service penetrations to be uploaded to Premtrac prior to pouring concrete. Allow sufficient time for FIS to review and QC check. • If annulus around the penetrations is greater than 75mm Teknocem LA should be used instead of Hydroprufe EP. • Where multiple pipes are cast together, a minimum distance of 50mm should be maintained between pipes. • All laps between products are 150mm unless otherwise annotated. • Hydroplug System is typically installed by follow on contractors, not groundworker, once M&E works are fully installed. • Hydroplug System is not covered under warranty once installed. • Hydroplug Sealing Kit only applicable for service penetrations. • Grade 3 Environments also require ventilation appropriate to intended use of environment (BS 8102:2022 Table 2)			KEY Click on product names to access technical information Hydroplug Foam Hydroplug Paste Hydroplug Mortar Service inside sleeve Hydroprufe EP or Teknocem LA Hydrostop WG10 Hydroprufe 9000 Hydroprufe LG Hydroprufe FX Protection Board 320 Protection Board 600 HCR Foil Girth Tape Hydroprufe Tophat Standard Concrete to Structural Liner Wall / Slab		Conditions This drawing is copyright of FIS Products. Permission for copying may be obtained from FIS Products. This drawing must be read in conjunction with the relevant datasheets, BS 8102:2022 and BS 8485:2015+A1:2019 if appropriate. This drawing has been prepared as a guide to assist with the installation of the products. It is the responsibility of the designer to ensure that any design decisions, made by others that have an impact on the waterproofing design are brought to the attention of the waterproof designer. It is the responsibility of the designer of the structure to ensure that the details shown on this drawing match the construction drawings. Drawing template is A3L. Important Notes The waterproofing design is designed to the Grades of Environment described below: Grade 1A - Seepage and dampness from internal and external sources tolerable Grade 1B - No seepage, however damp areas from internal and external sources tolerable Grade 2 - No seepage through structure is acceptable however condensation and dampness are tolerable as a result of internal air moisture Grade 3 - Ventilation, dehumidification or air conditioning are required appropriate to intended use in accord with BS 8102:2022 Table 2 to achieve a dry, habitable environment which is outside the scope of this design Construction joints are required to be scabbled or retarded to ensure good concrete connection. An approved curing agent is to be applied to concrete immediately after pouring. Laps between dissimilar waterproofing products to be 100mm unless otherwise annotated. All substructure construction joints must have waterbar installed with a minimum of 75mm concrete cover. Internal, non-retaining construction joints do not require waterbars. A maximum ratio of 3:1 is required for any liner wall pours. Liner wall pours should be cast 'hit and miss' to ensure that shrinkage of concrete is compensated. It is the responsibility of the installing contractor to ensure that good concrete practice is maintained at all times when pouring concrete. If the design incorporates any of the following products: • Hydrocrete should be a minimum of 200mm thick or 300mm if poured monolithically in conjunction with standard concrete. • Hydroprufe Primer to be applied to concrete/ masonry substrate prior to the application of Hydroflow Corner Tape or Hydroprufe Detail Tape. • Hydroseal Sealer to be applied to all surfaces prior to installing Hydroflow HP. • High density insulation under Hydroflow HP20 should be fixed to substrate at a minimum of 5 fixings per sheet.
 Outside Inside Annulus between 50 and 75mm			 Outside Inside Annulus between 50 and 75mm		 Outside Inside Annulus between 50 and 75mm min 50mm
TYPICAL CAST IN PENETRATION DETAIL 			TYPICAL BOX OUT PENETRATION DETAIL 		TYPICAL BOX OUT PENETRATION DETAIL FOR MULTIPLE PIPES 
Client TENDER			Project GENERIC		Drawing No TD-005
Title PIPE AND SERVICE PENETRATION DETAILS			Date 01/01/2022		44 Macadam Way West Portway Industrial Park Andover Hampshire SP10 3XW Tel: 02380 276166 sales@fisproducts.co.uk fisproducts.co.uk
					Scale Not to Scale DRAFT Not for Construction, for discussion only This drawing is designed to achieve the following environment in accordance with BS 8102:2022 GRADE 3

3

DESIGN ENGAGEMENT PROPOSAL

DESIGN ENGAGEMENT PROPOSAL

FEE PROPOSAL FOR DESIGN AND WARRANTY OF SUB-STRUCTURE PROTECTION SYSTEM

Premcrete have been established for over 40 years with 40 staff across 4 offices covering the Manufacture, Design and Supply of Construction Chemicals and Structural Waterproofing and Gas-proofing Systems.

We have significant experience operating under a Design & Build arrangement as Contractor's Designer and can provide references that demonstrate our abilities if required. We are renowned for our highly detailed working drawing packages that make the build process effortless together with our ability to collaborate with the other members of the design team.

Premcrete hold £5 million Professional Indemnity Insurance which covers all design work which has made it first choice on a number of high-profile projects.

SCOPE OF SERVICE

We understand that you require us to perform the role of developing the design of the Sub-Structure Protection System based on the drawings and associated information issued to us.

We will produce a fully coordinated working drawing package based on the drawings provided. A full set of drawings developed thus far will be required by the client's appointed team. Our role will extend to attending the scope outlined in the Fee Proposal detailed in this document.

OUR TEAM'S RESPONSIBILITIES

TEAM	Responsibilities
Clive Tuffin CSSW Projects Director	Qualified and Experience Director who is overall responsible for the design of all projects and shall ensure that all schemes are appropriately and adequately resourced in order to deliver a robust strategy which meets the client's requirements for performance and budget.
Jacob Morton CSSW Head of Design (London & Southeast) Andy Martin CSSW Head of Design (Midlands & North)	Senior Technical Managers, will act as CSSW Qualified Design Team Leads for this scheme, responsible for the day-to-day management, liaising with and coordinating the proposed team whilst acting as the point of contact for the client's appointed technical members within our team. With over 20 years' experience in the construction industry, this will bring a wealth of experience and construction knowledge to the project.
Dean Mitchell Lead CAD Technician	With over 5 years of continuous experience within the CAD Design Department, and with an exception focus on attention to detail, this provides meticulous project specific detailing.
Ryan Leary Technical Co-Ordinator	Responsible to Co-Ordinate initial project proposals at tender and pre-construction stages of schemes, as well as providing technical support to clients in conjunction with Key Account Managers.
Roger Mitchell / Jacob Coles Technical Sales	Responsibilities will include managing the bespoke Premtrac QMS which effectively manages the Quality of the installation, management and mitigation of risks during the construction phase, monitoring contractor's proposals to ensure conformity to industry best practice and Employer's Requirements and all other construction phase responsibilities.
Milhail Combei Project Manager	Responsible for managing live site support company wide. With over 20 years of on-site experience, we can be sure to provide practicable solutions to overcoming project challenges.

DESIGN ENGAGEMENT PROPOSAL

PREMCRETE
PROPOSE AN
ENGAGEMENT FEE OF

£2,200

This fee is broken down into the allocations shown in the below schedule of work

All design support will be structured in accordance with established RIBA stages as stated below.

Tender submission support has been given however once the project is secured our indicative numbers of meetings and drawings are stated in the table below.

Stage	Description	Fee Allocation
Strategic Definition RIBA Stage 0	Attend 1 Design Team meeting	0%
Preparation & Briefing RIBA Stage 1	- High level support based on clients requirements - Attend 1 Design Team meeting	0%
Concept Design RIBA Stage 2	Attend 1 Design Team meeting	0%
Spatial Coordination RIBA Stage 3	Attend 1 Design Team Meeting	0%
Technical Design RIBA Stage 4	10 Project specific technical drawings/details - Attend 2 Design Team Meetings	60%
Manufacturing and Construction RIBA Stage 5	- Attend 2 Design Team Meetings - Attend site for 6 Inspections	40%
Handover RIBA Stage 6	Attend 1 Handover/Snagging Meeting	0%
Use RIBA Stage 7	Assist contractors and Facilities Management team with any maintenance obligations	0%

DESIGN ENGAGEMENT PROPOSAL

- Our fees are exclusive of VAT.
- An invoice for the complete nominal fee will be raised at the start of the design process and normal payment terms applied. Signed copy of this document is sufficient to progress with detailed design.
- Number of section details will be as set out in Table 1 above, multiple sections maybe combined onto one page. Additional sections will be charged at £140.00 + VAT per drawing.
- Design fee is inclusive of 4no. revisions including 1 construction issue revision, any additional revisions will be chargeable at £35.00 + VAT each.
- Lead time for new sections/amendments is 6 working days.
- We have made no allowance for a more detailed site investigation
- Additional meetings will be charged at £500.00 + VAT per meeting
- Specialist investigation and surveys are excluded
- Our fee proposal is for design services relating to structural waterproofing/gas proofing and sub-structure protection only
- This proposal has been based on the information provided. Any changes after design freeze could incur additional fees.

ADDITIONAL CHARGEABLE OPTIONS, PLEASE TICK IF REQUIRED:

Document Control support (e.g. Aconex / 4P Drawing uploads) through all approval processes. Charges are over and above amends to sections.
Per sheet and per upload

£30.00

☐

Utilising a client’s title block for drawing format
Per drawing sheet

£30.00

☐

Certificated Surveyor in Structural Waterproofing (CSSW) report

£850.00

☐

SITE INSPECTION TERMS

Number of visits are as set out in the table on previous page including training visits and one final sign off inspection.
Training sessions are for up to 5 personnel.7 working days’ notice is required for visits.
Additional visits will incur a charge per visit of:

£200.00

☐

I hereby confirm acceptance of the above terms:

Order number/ref.			
Print Name		Signature	
Role			
Date			

4

SUSTAINABILITY

SUSTAINABILITY

Premcrete acknowledge the importance of sustainably driven decisions in today's market and indeed with large-scale projects, such as this development, this will be a significant influence in the decision-making process.



Below are some key factors to differentiate our position in the market:

- Carbon Neutral Status
- All Pre-Applied Membranes and Gas DPM systems are manufactured in our Hampshire Manufacturing plant
- Cement-Free Hydrocrete Watertight Concrete
- Large proportion of raw materials sourced from UK production
- VE design options not requiring regulating layers to piled wall construction will reduce materials consumed onsite

5

PREMTRAC PRODUCT TRAINING & QUALITY CONTROL

PRODUCT TRAINING

1

Upon commencement, the Premcrete Project Manager that has been assigned to your project will spend as much time as required to ensure that your operatives are fully conversant with the design produced for the project and how the products are to be installed.

2

The technical data sheets are explained to the operatives and any special characteristics and/or limitations of the product are specifically highlighted.

3

A training register is compiled listing the named people that are trained for the use of the products on your site. This is uploaded onto the Premtrac portal which is used for managing quality on your project.

PREMTRAC - QUALITY CONTROL PORTAL

Premcrete have developed the Premtrac portal for managing quality on projects. The web portal is of a bespoke design, to assist both ourselves and the contractors for the management of quality on any project.

Upon commencement of a project, any relevant party is provided with login details to be able to access information pertaining to their project.



Document Control

All documents relating to the design and installation of the waterproofing are uploaded to the portal and are easily accessed.

Information includes the following:

- technical datasheets
- method statements
- technical drawings
- photographs
- safety datasheets
- training registers

This section of the Premtrac portal serves as a useful central location for the storage of all information relating the project and ensures that all parties are viewing and working from the most up to date information.

As new documents are uploaded all parties receive a notification.

PREMTRAC PRODUCT TRAINING & QUALITY CONTROL

PREMTRAC - QUALITY CONTROL PORTAL

Communications

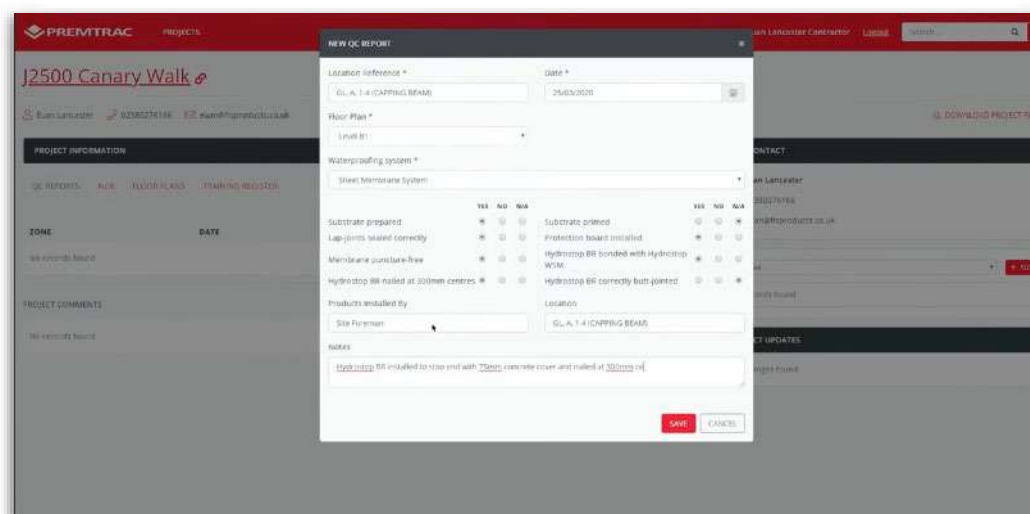
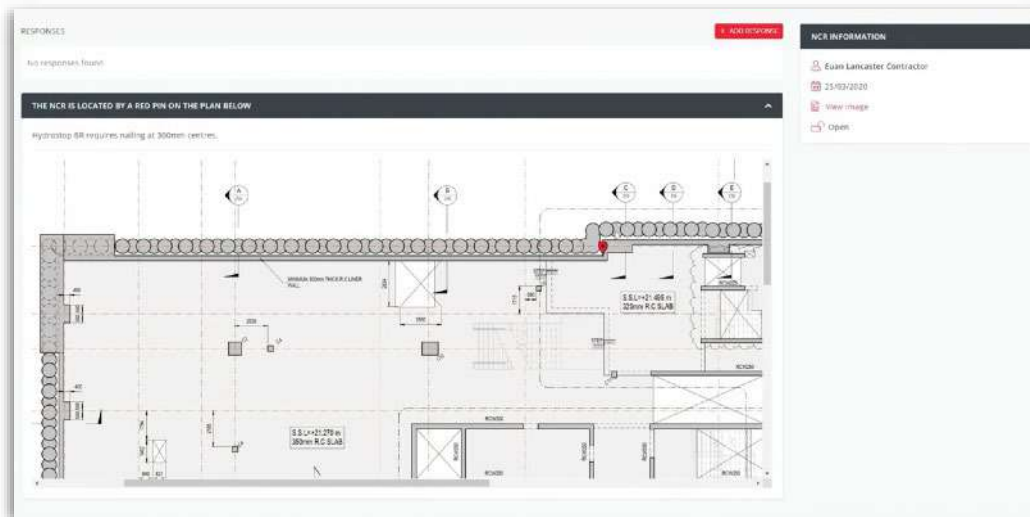
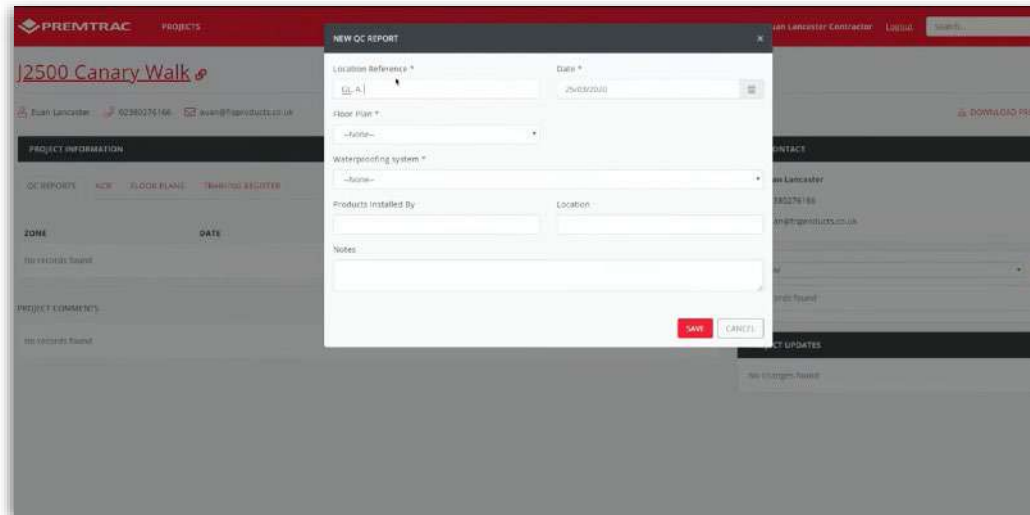
All critical project related communications are uploaded onto the portal for all to view and for an accurate record to be kept of the date etc

Contractor Quality Control

As the installation of the waterproofing system progresses, the contractor should login to the Premtrac portal and notify Premcrete of upcoming concrete pours and the like so as to keep the Premcrete technicians updated as to when site visits are required. Once the waterproofing is completed, in a specific zone then the nominated person on site, responsible for monitoring the quality of the installation, will complete the QC report on the system using the Tablet provided by Premcrete.

The Contractor's Quality Checker is responsible to mark up on the floor plan the zone of work that has been completed, within Premtrac, and then complete the electronic quality report. Photographs are then attached to specific points on the floorplan showing the quality of workmanship. Once completed, it is saved and can then be viewed on the portal as linked to the specific zone. The floorplan can be "drilled into" to access photographs and QC reports for any given zone as the work is completed.

When any report is completed, everyone linked to the project receives a notification email with a link to the report. The Premcrete technician responsible for the project can then monitor the installation as it proceeds.



PREMTRAC PRODUCT TRAINING & QUALITY CONTROL

Premcrete Quality Control

Premcrete technicians visit site frequently (with particular emphasis at the outset of the project) to monitor the installation of the waterproofing system. Premcrete complete a QC report for each visit, in the same way as described above. Again, all reports are fully traceable, and photographs are attached to the floor plan accordingly.

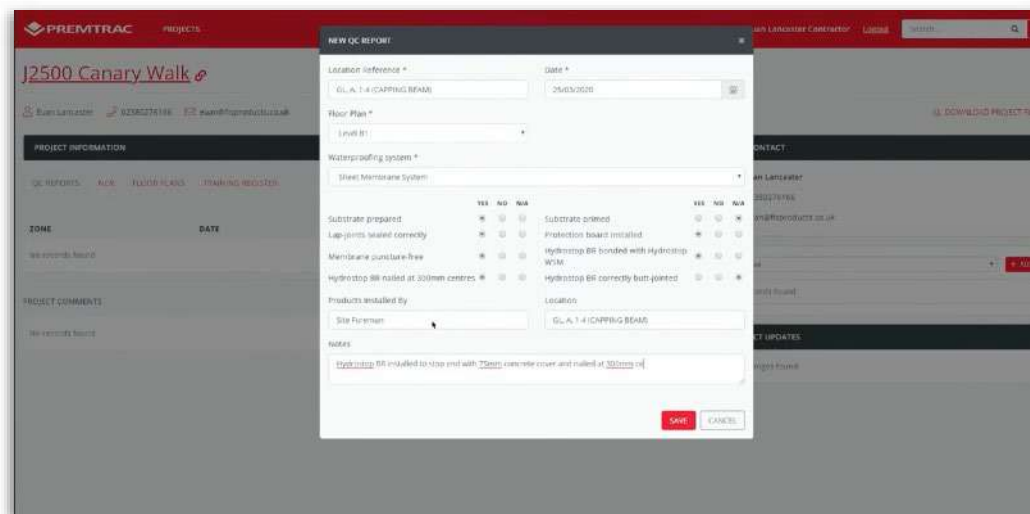
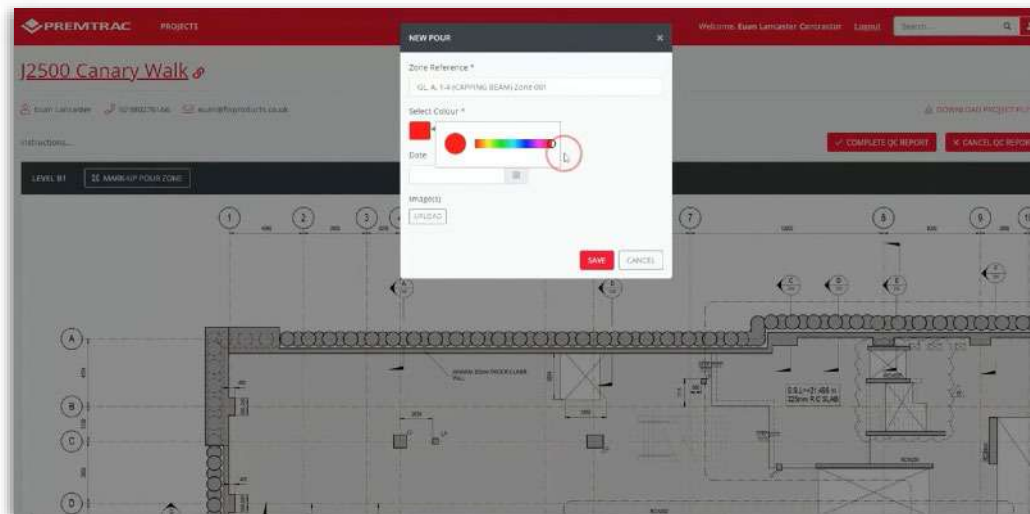
Non-Conformance Reports

Any non-conformances that are found by Premcrete during site visits are recorded using the Premtrac system. An electronic report and photographs of the issue is recorded by Premcrete using the NCR module within Premtrac. This is issued to the contractor who is then responsible to close out the NCR report by correcting the issue and submitting photographic evidence that the issue has been resolved. The Premcrete technician receives an electronic copy of the report and can then close out the NCR once complete. There is a register on Premtrac showing all NCRs and what date they have been closed out.

Project Completion

Once the project has been completed, all information stored on the Premtrac Portal can be downloaded as a single zip-folder for use in compiling the O & M manual. Information included in the final download is as follows:

- Technical datasheets
- Method statements
- Technical drawings
- Photographs
- Safety datasheets
- Training registers
- QC Reports
- Non-Conformance Reports
- Non-Conformance close-out Reports
- Floor plan with cross reference to QC
- Reports and photographs
- All Project Correspondence.



6

25 YEAR PERFORMANCE WARRANTY

WARRANTY

It is anticipated on this project that Structural Waterproofing Contracts will install the Combi-Seal Plus and Keltbray Structures will be responsible for the placement of the Hydrocrete Watertight Concrete and most likely the ancillary waterbars too.

In such instances it is paramount that a single system for managing the Quality Control is maintained across the split Works Packages to have complete traceability of Quality Control Reporting, ensuring the client is not impacted by potential gaps. Premcrete operate the Premtrac Quality Control Portal which provides a robust, single location for all waterproofing installation sign offs.

Whilst all projects will operate their own quality control system, the benefits of having an independent portal for streamlining all communications for quality control are significant.

Examples are list below:



WARRANTY

We hereby confirm to you (as beneficiary) that the installed Premcrete Waterproofing and Gas Protection System, made up of the following listed components will perform in accordance with the appropriate technical datasheets (subject to the terms and conditions):



PREMCRETE SYSTEM COMPONENTS

Project Name

Notes

EXAMPLE

EXAMPLE

Completion Date

Name of beneficiary

For PREMCRETE Ltd:

Name

Job title

Signature

Date

WARRANTY



Terms & Conditions

- I Premcrete (The Company) warrants that if within 25 years of the date of supply (as evidenced by the date of invoice) the Premcrete Waterproofing System allows the migration of visible water beyond that which the system is designed to prevent (as assessed in accordance with the Premcrete technical literature or other written communication relating to the system components or the job in question) and the Grade of Waterproofing Protection (in accordance with BS 8102:2022 Table 2) that was outlined in the Company's waterproofing design, is not achieved then the Company will replace or repair the Product subject to these terms and conditions.
- II The liability of the Company shall be limited to the cost of the defective Product or the cost of carrying out any necessary repairs to the Product supplied, whichever is the smaller.
- III The Company shall have no liability if the Products have not been installed properly, it being damaged during or after installation, not maintained in accordance with the manufacturer's guidelines or as a result of a design failure of the structure to which the Product has been installed. Specifically, the Company shall have no liability if the migration of visible water is due to poor compaction of the concrete or cracks in the structure greater than 0.3mm wide
- IV The Company shall have no liability if the Product has been damaged as a result of fire, explosion, vibration, structural movement, acts of God or any other causes that are not a direct consequence of the failure of the installed Product to perform in accordance with the Product's relevant technical datasheets.
- V This warranty is to be read in conjunction with the Product's technical datasheets of the components that form the Premcrete system.
- VI Remedial work, if deemed necessary, will be carried out by and at the expense of the Company, in the way in which the Company directs. The Company shall not be responsible for securing any necessary approvals from the building occupants who may be affected by the repairs or for removing any obstructions from the affected area to enable the Company to carry out such remedial work.
- VII Where remedial injection works are undertaken on behalf of the Contractor, and subsequent works shall also be their liability.
- VIII The Company shall have no liability in contract or tort for any direct, indirect or consequential loss as a result of the failure of any of the Products or the warranties herein and all liability is hereby expressly excluded. Nothing in this clause shall exclude liability for death or personal injury.
- IX The Company's liability is subject to (a) any failure in any of the Products being notified to the Company within 14 days of discovering the failure and (b) all invoices in respect of the Products having been paid in full.
- X This warranty will become null and void if any repairs to the installed Premcrete waterproofing system are made without prior consent from Premcrete.
- XI The warranty relates to the property and is transferable should the property change ownership.
- XII This warranty shall be construed in accordance with English law and the English courts shall have exclusive jurisdiction.

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COMPANY OVERVIEW

PROJECT TEAM

Your dedicated project team
Structured for your peace of mind



Neil Thomas
Key Account Manager



Ryan Leary
Technical Co-Ordinator



Jacob Morton
Head of Design



Andy Martin
Technical Manager



Kimberley Moore
Customer Service Manager



Mihail Combel
Site Technician

COMPANY OVERVIEW



OUR VISION

To become the most respected in our field

OUR MISSION

To be a trusted partner, that is depended upon to consistently provide outstanding technical and Commercial support

THE SINGLE
SOURCE
PROVIDER

**PREMCRETE**
PLEDGE



OUR VALUES

Integrity

Transparent, reliable, and standing behind our warranty and Premcrete Pledge.

Passion

A team motivated by complex projects and thriving upon exceeding customer expectations.

Innovation

Continuous improvement of our products and services to enhance efficiency.

COMPANY OVERVIEW

ADVANTAGES



DESIGN

Preconstruction design team providing commercially minded solutions



AGILITY

The ability to move fast to accommodate project



COMMERCIAL SUPPORT

Industry leading insights enable us to provide detailed support material



INDEPENDENT

The only British manufacturer of pre-applied Membranes

PREM360

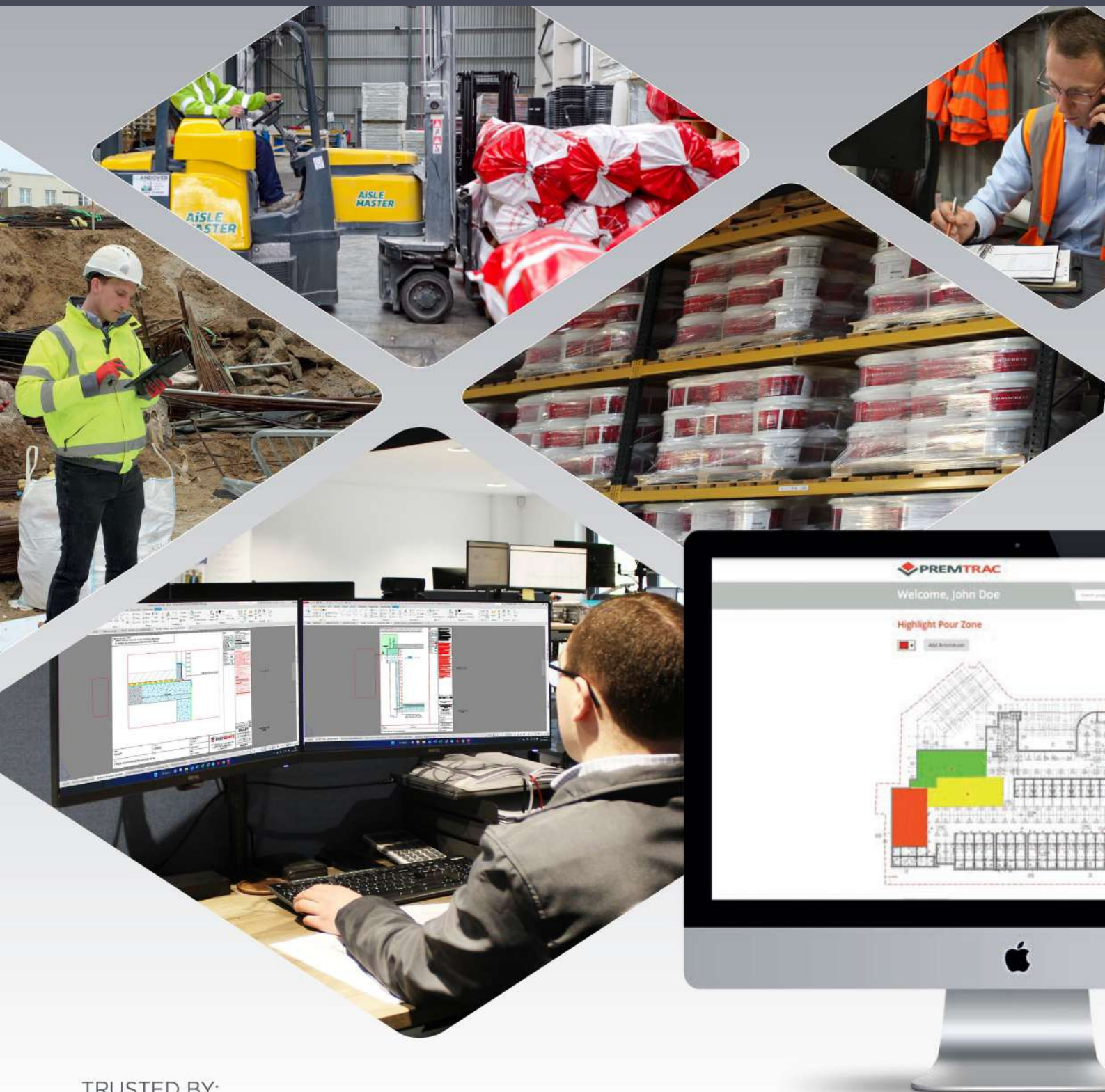
PREMCRETE, POWERED BY PREM360 TO DELIVER UNMATCHED 'WRAP-AROUND' SUPPORT TO STRUCTURAL CONSULTANTS, ARCHITECTS, DEVELOPERS, MAIN CONTRACTORS, GROUNDWORKERS AND RC FRAME CONTRACTORS.

FEASIBILITY STUDY
CONCEPT DESIGN & BUDGET QUOTATIONS
TENDER SUPPORT
VALUE ENGINEERED DESIGN SOLUTIONS
SUSTAINABLE DESIGN SOLUTIONS
DESIGN SUPPORT STRATEGY

THE PREM360 PROJECT CIRCLE EXPLAINED



COMPANY OVERVIEW



TRUSTED BY:



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RELATED CASE STUDIES

AUDLEY SQUARE HOUSE MAYFAIR LONDON

Premcrete was engaged by PJ Careys, following detailed support throughout the tender stage of the project.

Design engagement was made by PJ Careys due to our ability to take on the entire liability for the substructure waterproofing as covered by our £5M Professional Indemnity Insurance.

Throughout the extensive phase of design we have been glad to work closely with not only PJ Careys design team, but directly with Cauldwell Developments, Byrne Looby (structural engineer) and EPR Architects.

When completed in 2025, the development will comprise:

- ▶ 5 townhouses ▶ 3 penthouses
- ▶ mews home ▶ 21 flats

COMPANIES INVOLVED:

Architect:	EPR Architects
Structural Engineer:	Arup
Main Contractor:	Cauldwell Properties
Groundworks Contractor:	PJ Careys



SYSTEM INSTALLED:

Type A	Maxiprufe Plus Hydroseal FX
Type B	Hydrocrete Watertight Concrete
Type C	Hydroflow cavity drain

THE HYDE HENDON LONDON

The Hyde Hendon is a 3.6-acre residential project in Northwest London made up of 10 buildings and providing 386 new apartments, comprising of a 18,000 M2 basement to the footprint of the site.

Premcrete worked very closely with both the Structural Engineer (Aecom) and the architect (Rolf Judd) in the early stages of this project to help provide detailed technical support at design stage to ensure that the most efficient system was installed to the highest standard.

Premcrete were glad to work alongside Tamdown Group through the installation process and provide onsite training and quality control management through the duration of the project.

There were challenges along the way, as there is with most projects like this, however the dedicated team at Premcrete are always reactive and on hand to help anyway they can to keep things running as smoothly as possible, whether that being getting deliveries to site on time or providing answers to queries on site. With our ability to adapt very quickly, we were able to provide not only high levels of technical support but an improved level of commercial savings.

COMPANIES INVOLVED:

Structural Engineer:	Aecom
Main Contractor:	L&Q
Groundworks Contractor:	Tamdown Group



SYSTEM INSTALLED:

Type A	Combi-Seal
Type B	Hydrocrete Watertight Concrete
Levels Below Ground	2

POPLAR GASWORKS LONDON

Premcrete were glad to be working directly with the St William division of the Berkeley Group throughout the early stages of the design.

Challenges were faced with an exceptionally level of gas risk combined with the need to protect against contaminated ground conditions. Through detailed engagement Premcrete were glad to introduce industry expertise which helped to rationalise the level of risk across the project, therefore enabling a practicable design solution to be incorporated.

Hydrocrete Watertight Concrete was used throughout the entire substructure, with Combi-Seal Plus being designed to provide combined Gas, VOC and Waterproofing Protection to the Grade 3 zones of environment and was also adopted for use within the Grade 2 carpark to future-proof its use.

This Scheme will deliver 577 new homes and the majority of the commercial space and public amenities. It will help to provide job opportunities for business owners and those seeking employment with the commercial space delivering places to eat and drink, a food store, space for a publicly accessible gym and community space. A new public square will be created which lies in the heart of this part of the new development.

COMPANIES INVOLVED:

Architect:	EPR Architects
Structural Engineer:	Davies Maguire
Main Contractor:	St William
Groundworks Contractor:	AJ Morrisroe



SYSTEM INSTALLED:

Type A	Combi-Seal Plus
Type B	Hydrocrete Watertight Concrete
Levels Below Ground	1

POSTMARK LONDON MOUNT PLEASANT STREET

Bouygues UK has been appointed by Taylor Wimpey Central London to construct the first phase of Postmark, its redevelopment of the old Royal Mail sorting office at Mount Pleasant in Farringdon.

The first phase, on which Bouygues has now started work under a £100m contract, is an 214-apartment complex called West Central 1, or WC1.

The second phase is called EC1, reflecting that the development straddles two London postcodes.

Premcrete supported Bouygues UK with the design and supply of the structural waterproofing to the vast basement using a combination of Maxiprufe 2000, Maxiprufe Plus and Hydrocrete Watertight Concrete.

COMPANIES INVOLVED:

Architect:	Aecom
Main Contractor:	Taylor Wimpey
Groundworks Contractor:	Bouygues UK



SYSTEM INSTALLED:

Type A	Maxiprufe Plus
Type B	Hydrocrete Watertight Concrete
Levels Below Ground	2

UCLH LONDON PROTON BEAM THERAPY BASEMENT

PBT (Proton Beam Therapy) is an advanced form of radiotherapy used for the treatment of complex and hard-to-beat cancers in children and adults. Previously patients had to travel abroad for PBT, but now patients can benefit from local access to this advanced treatment at UCLH with potentially better outcomes and lower risk of long-term side effects. Premcrete supported Bouygues UK to produce a detailed design for the structural waterproofing for this 5-storey basement.

The construction comprised of a 2-metre-thick raft slab and diaphragm walls around the perimeter. At nearly 30 metres deep, the basement required careful detailing and monitoring of workmanship. Maxiprufe Plus was used as a Type A waterproof membrane beneath the raft slab. The diaphragm walls were then protected using a Type C Cavity Drain Membrane system.



COMPANIES INVOLVED:

Architect: Scott Tallon Walker
Main Contractor: Bouygues UK
Structural Engineer: Aecom

SYSTEM INSTALLED:

Type A	Maxiprufe Plus
	Hydrend
	Hydrosel FX
Type B	Hydroflow Cavity Drain
Levels Below Ground	5

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COMPANY ACCREDITATION

INSURANCE COVER



ae insurance brokers limited

To Whom It May Concern

21st September 2023

Dear Sirs,

Premcrete Limited

First Floor, Chancery House
Premier Way, Romsey
Hampshire SO51 9DQ

Tel: 023 805 58200
Fax: 023 805 58400
www.aeinsurancebrokers.co.uk

We are pleased to confirm that our client has the following Insurance cover in force:

Business Combined

Insurer:	Covea Insurance
Policy No.	PC03 021741799
Expiry Date:	22 nd September 2024
Property Owners Liability:	£5,000,000
Employers Liability:	£10,000,000
Public Liability:	£5,000,000
Products Liability:	£5,000,000 (in the aggregate)

Professional Indemnity Insurance

Insurer:	HCC Tokio Marine
Policy No.	PI21E1001940
Expiry Date:	22 nd September 2024
Limit of Indemnity:	£5,000,000 any one claim and in the aggregate including defence costs
Excess:	£10,000 each and every claim including costs and expenses

Insurer:	Prosure via Citynet Insurance Brokers Ltd
Policy No.	TWS04295(184396806)
Expiry Date:	22 nd September 2024
Limit of Indemnity:	£5,000,000 in excess of £5,000,000
Excess:	

Total Professional Indemnity Limit of Indemnity £10,000,000

The information provided is based on the insurance arrangements at the time of writing. Alterations may be made during the period of cover. The expiry date shown represents the normal expiry date of the policy. In some circumstances, cancellation could occur before the normal expiry date.

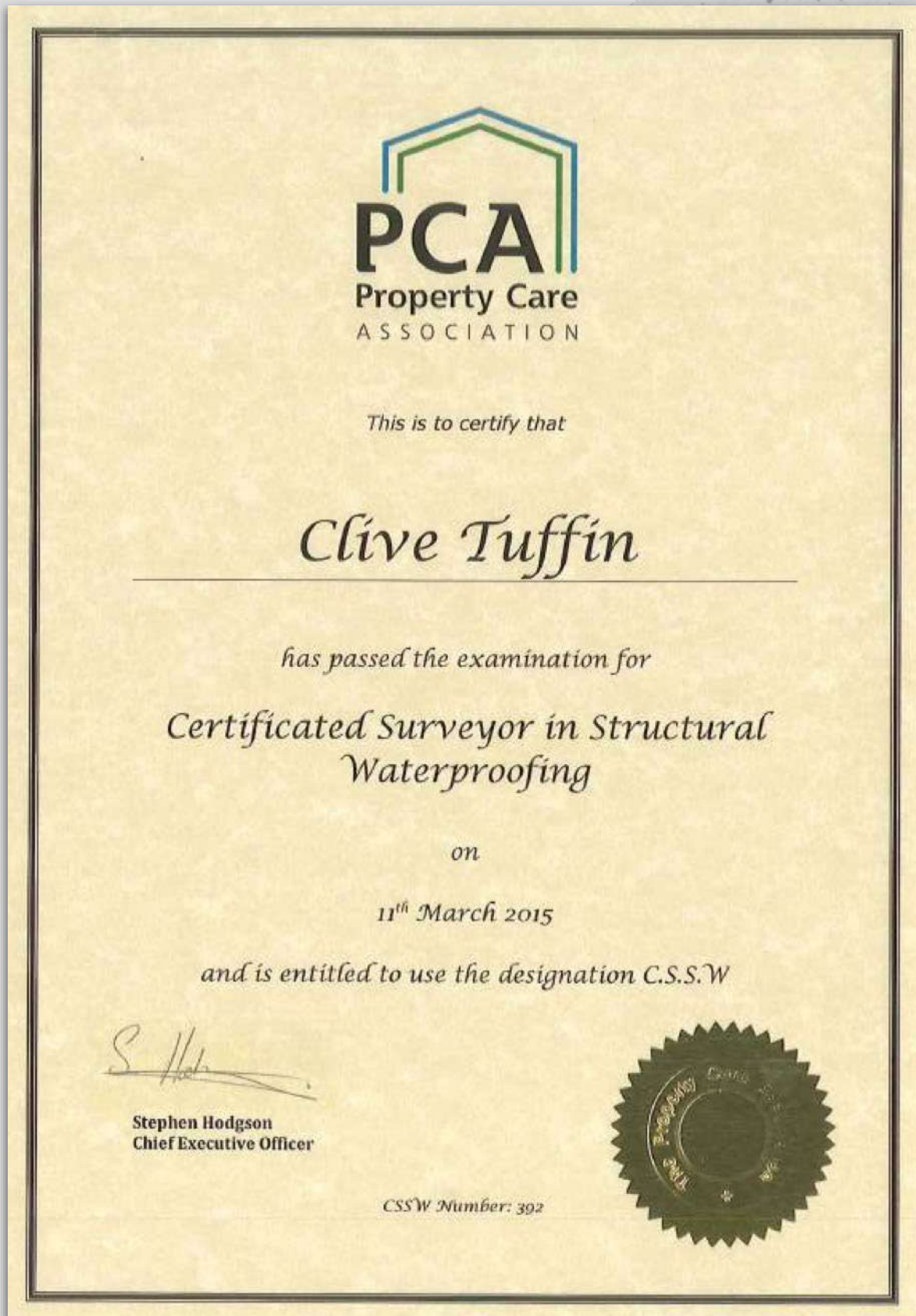
We will be pleased to confirm the current position upon request.

Yours faithfully,

Stella Goulding
stellagoulding@aeins.co.uk

Registered Office: First Floor, Chancery House, Premier Way, Romsey, Hampshire SO51 9DQ
Registered in England No. 1630360
Authorised and regulated by the Financial Conduct Authority

CSSW APPROVAL



CSSW APPROVAL



This is to certify that

Glenn Tuffin

has passed the examination for

*Certificated Surveyor in Structural
Waterproofing*

on

07th July 2015

and is entitled to use the designation C.S.S.W

A handwritten signature in black ink, appearing to read 'S. Hodgson', written over a horizontal line.

Stephen Hodgson
Chief Executive Officer



CSSW Number: 402



Certificate of Achievement

This is to certify that
Jacob Morton

has been assessed as meeting the required level of competence for all the units
necessary to achieve the full award

**ABBE/PCA Level 3 Certificated Surveyor in Structural Waterproofing
(CSSW)**



Signed :

A handwritten signature in black ink, appearing to be "Jul N", written over a faint background watermark of a house.

Professor Julian Beer, Chair of ABBE Board

A handwritten signature in black ink, appearing to be "S.H.", written over a faint background watermark of a house.

Steve Hodgson, Chief Executive Officer of PCA

Date: 28/11/2022

Candidate Registration No : 0000044163

Certificate Issue No : 153341

Scan code on reverse to authenticate that this is a genuine paper



Certificate of Unit Achievement

This is to certify that

Jacob Morton

has been assessed as meeting the following units of competence
which form part of an accredited qualification

Surveyor in Structural Waterproofing - Written Examination

Legal, Health and Safety Aspects for the Investigation and Control of Timber and Dampness in Buildings -
Written Examination

Surveyor in Structural Waterproofing - Interview

Signed :

A handwritten signature in black ink, appearing to read "Jul Beer".

Professor Julian Beer, Chair of ABBE Board

Date:

28/11/2022

Candidate Registration No : 0000044163 Certificate Issue No : 153332

Scan code on reverse to authenticate that this is a genuine paper



Certificate of Achievement

This is to certify that
Andrew Martin

has been assessed as meeting the required level of competence for all the units
necessary to achieve the full award

**ABBE/PCA Level 3 Certificated Surveyor in Structural Waterproofing
(CSSW)**



Signed :

A handwritten signature in black ink, appearing to read "Jul Beer".

Professor Julian Beer, Chair of ABBE Board

A handwritten signature in black ink, appearing to read "S.H.". The signature is positioned above the name "Steve Hodgson".

Steve Hodgson, Chief Executive Officer of PCA

Date: 14/06/2023

Candidate Registration No : 0000042487

Certificate Issue No : 157382

Scan code on reverse to authenticate that this is a genuine paper



Certificate of Unit Achievement

This is to certify that

Andrew Martin

has been assessed as meeting the following units of competence
which form part of an accredited qualification

Surveyor in Structural Waterproofing - Written Examination

Legal, Health and Safety Aspects for the Investigation and Control of Timber and Dampness in Buildings -
Written Examination

Surveyor in Structural Waterproofing - Interview

Signed :

A handwritten signature in black ink, appearing to read "Julian Beer".

Professor Julian Beer, Chair of ABBE Board

Date:

14/06/2023

Candidate Registration No : 0000042487 Certificate Issue No : 157378

Scan code on reverse to authenticate that this is a genuine paper

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02380 276166 | SALES@PREMCRETE.COM

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WEST PORTWAY, ANDOVER
HAMPSHIRE SP10 3XW

