Jeffrey Bell Architects
3 Cobourg Street
Off Fairfield Street
Manchester
M1 3GY

t +44 (0)161 228 0651
e studio@jeffreybellarchitects.co.uk
w jeffreybellarchitects.co.uk

project : 1526 – Rylands Building, Manchester.

date : 11.07.2025

our ref : 1526-01Bb20250711_INTERNAL WALL LININGS REMOVAL NOTE_rev2

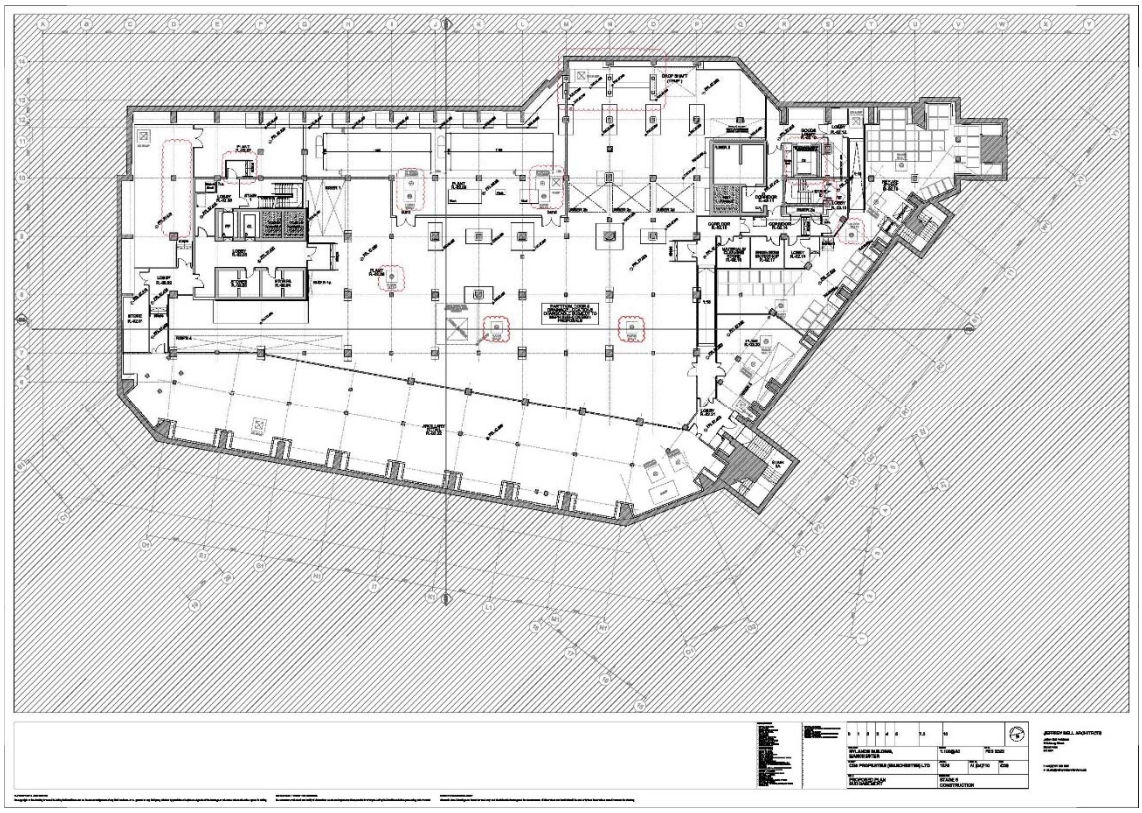
INTERNAL WALL LININGS REMOVAL NOTE.

1.0 Introduction

The purpose of this file note is to summarise the factors which influence the removal of internal linings to areas of external wall and basement walls within the existing building. This note identities the locations, rationale for removal, options investigated, and proposed lining details. The note also includes commentary from Stephen Levrant Heritage Architecture (SLHA) and basement tanking information from SWC (specialist subcontractor).

2.0 Building Context

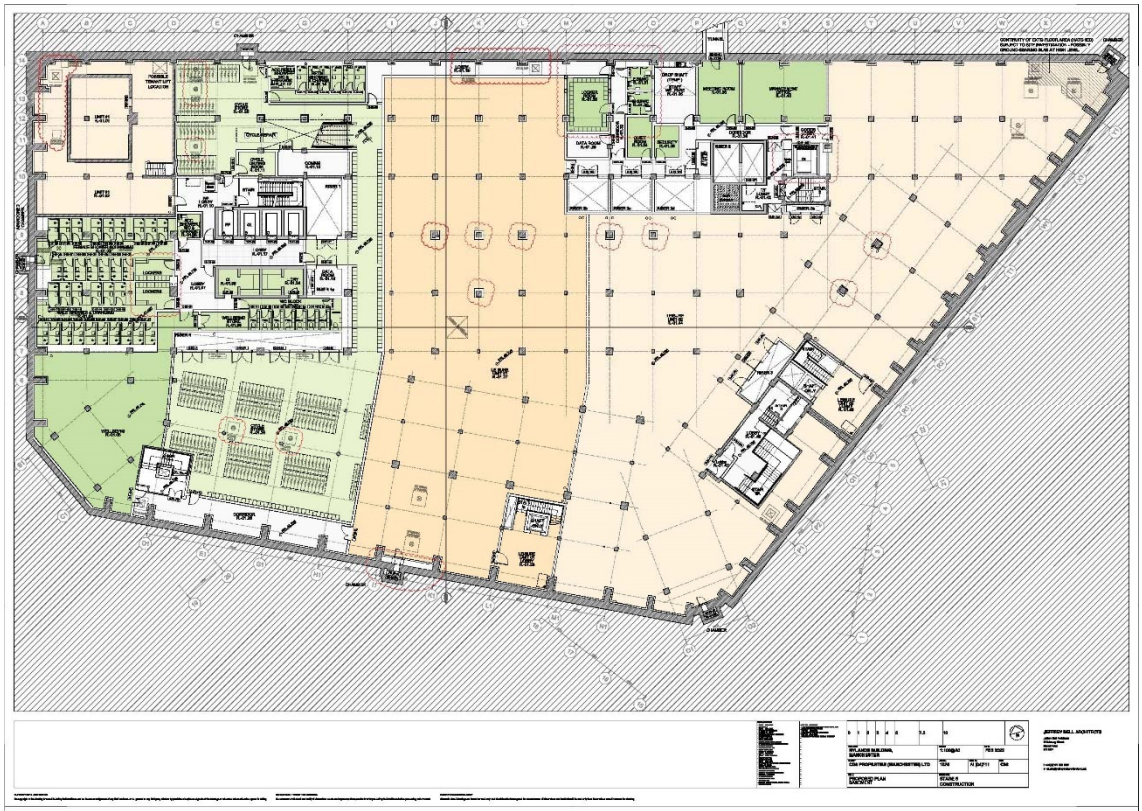
The floor plans below identify where original linings are maintained or removed. Areas highlighted in red are retained. Building plans start from basement level 02 through to level 07. Floor levels beyond this level are new build extension and therefore not applicable.

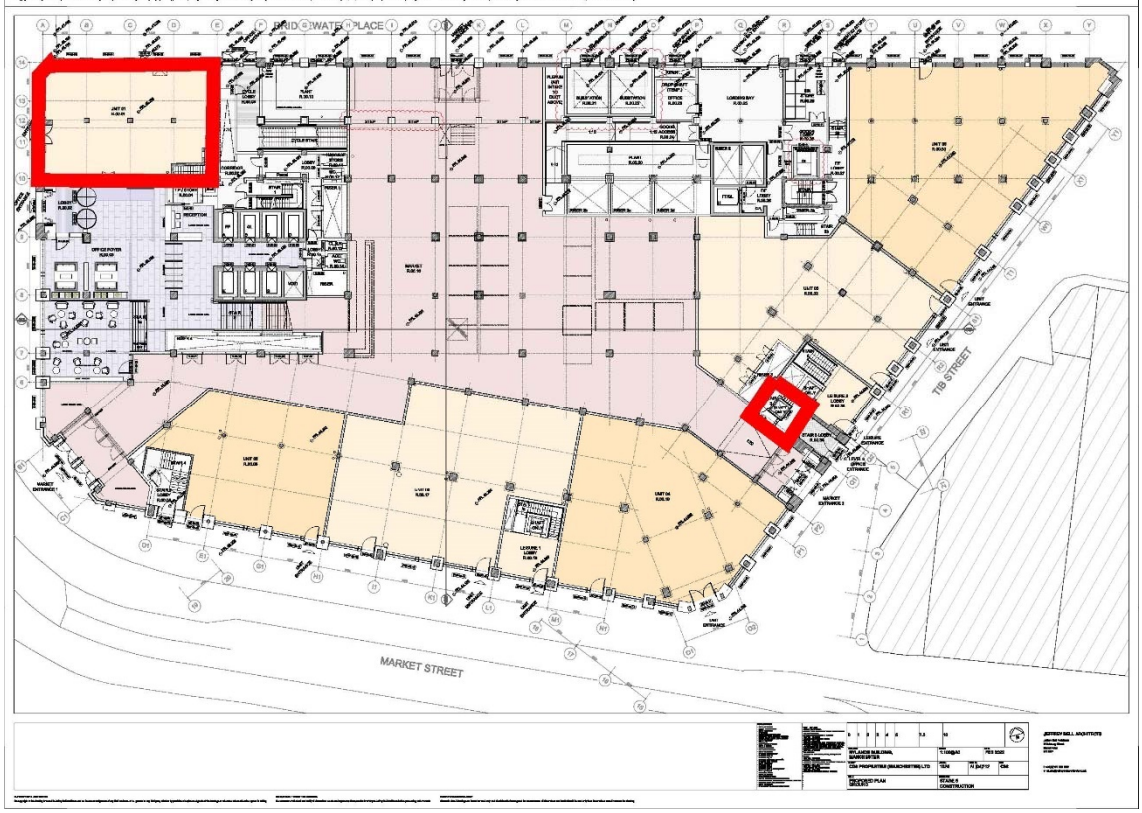


Jeffrey Bell Architects Limited

Jeffrey Bell Ba(Hons) GradDipArch ARB RIBA
Director

Registered in England
No. 7519600

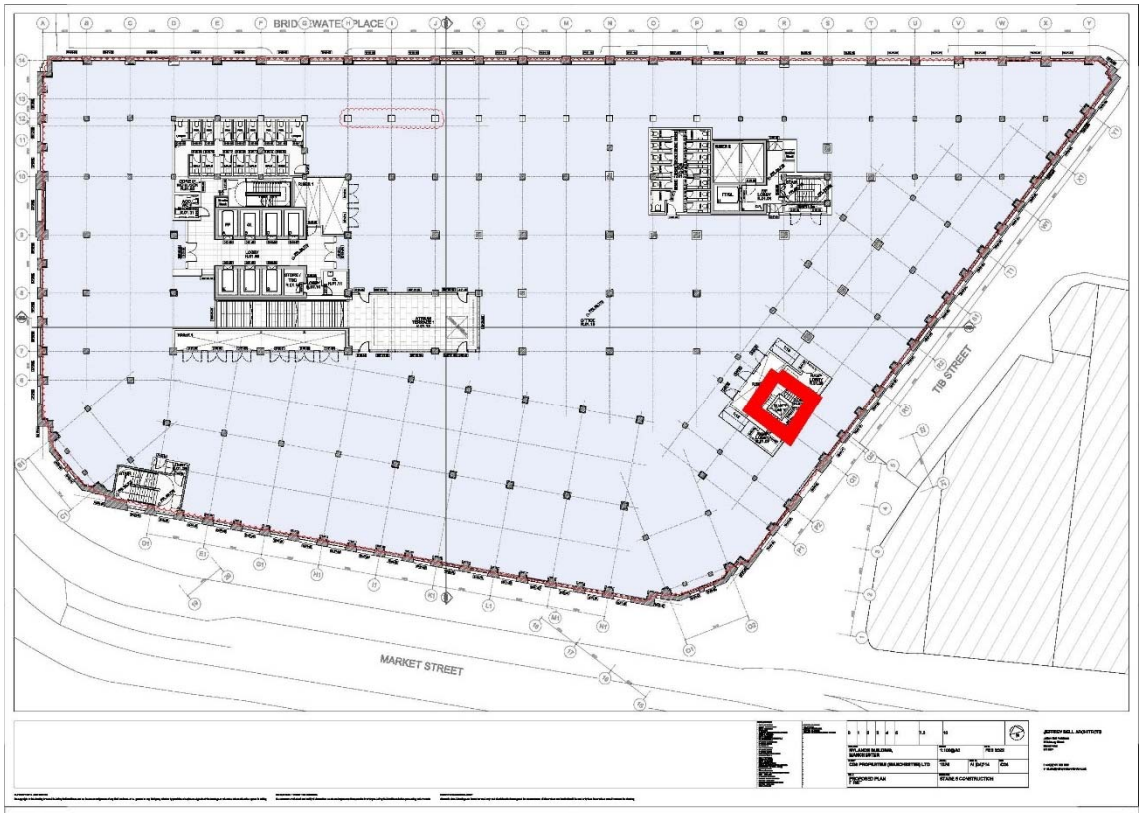


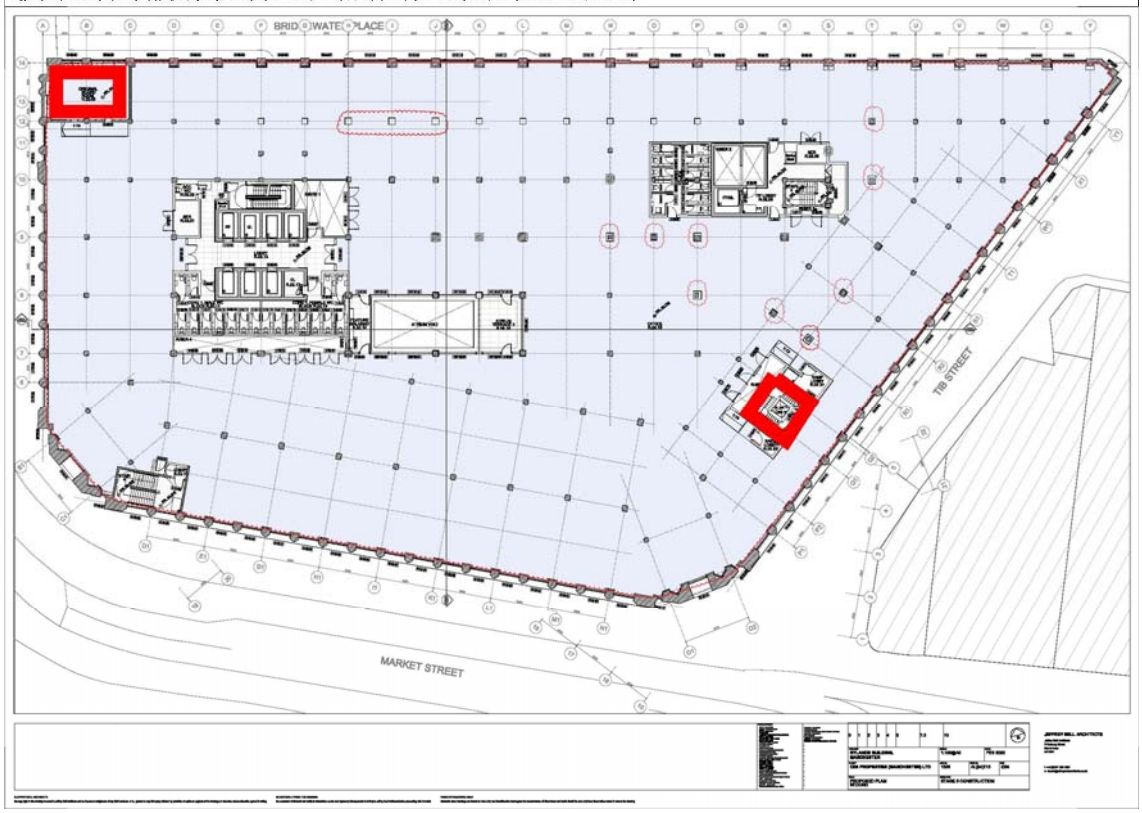


Jeffrey Bell Architects Limited

Jeffrey Bell Ba(Hons) GradDipArch ARB RIBA
Director

Registered in England
No. 7519600

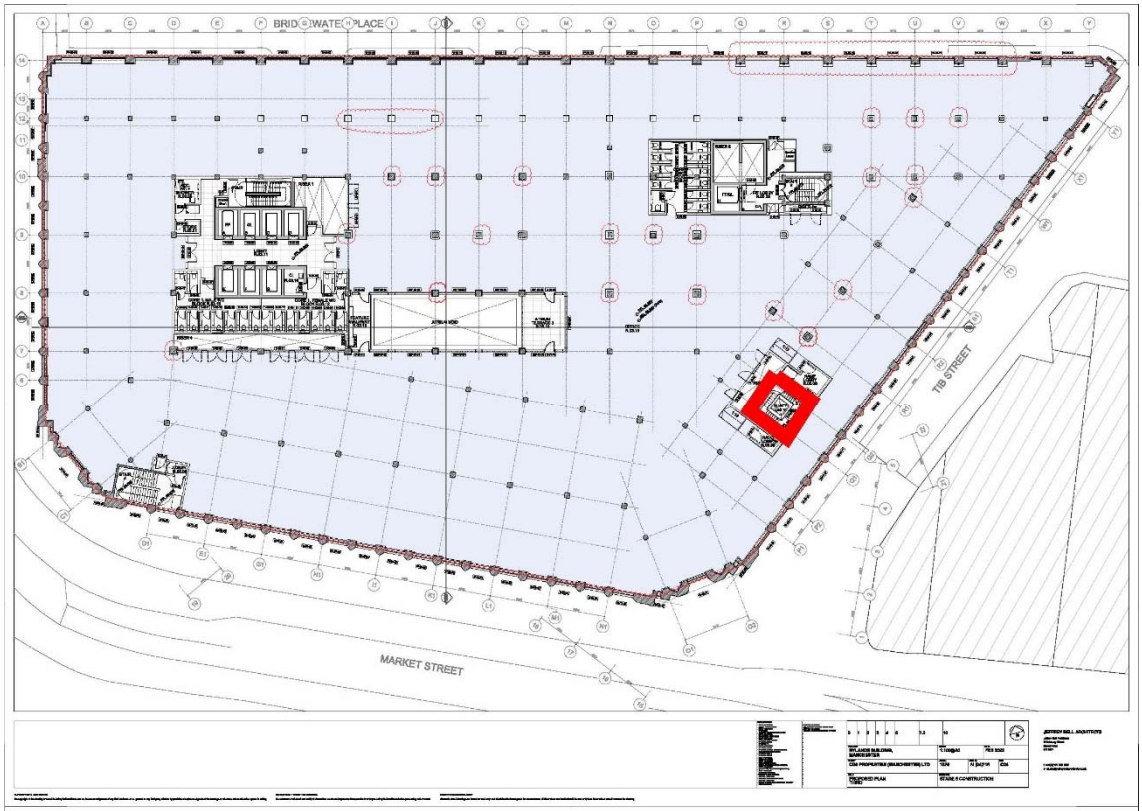


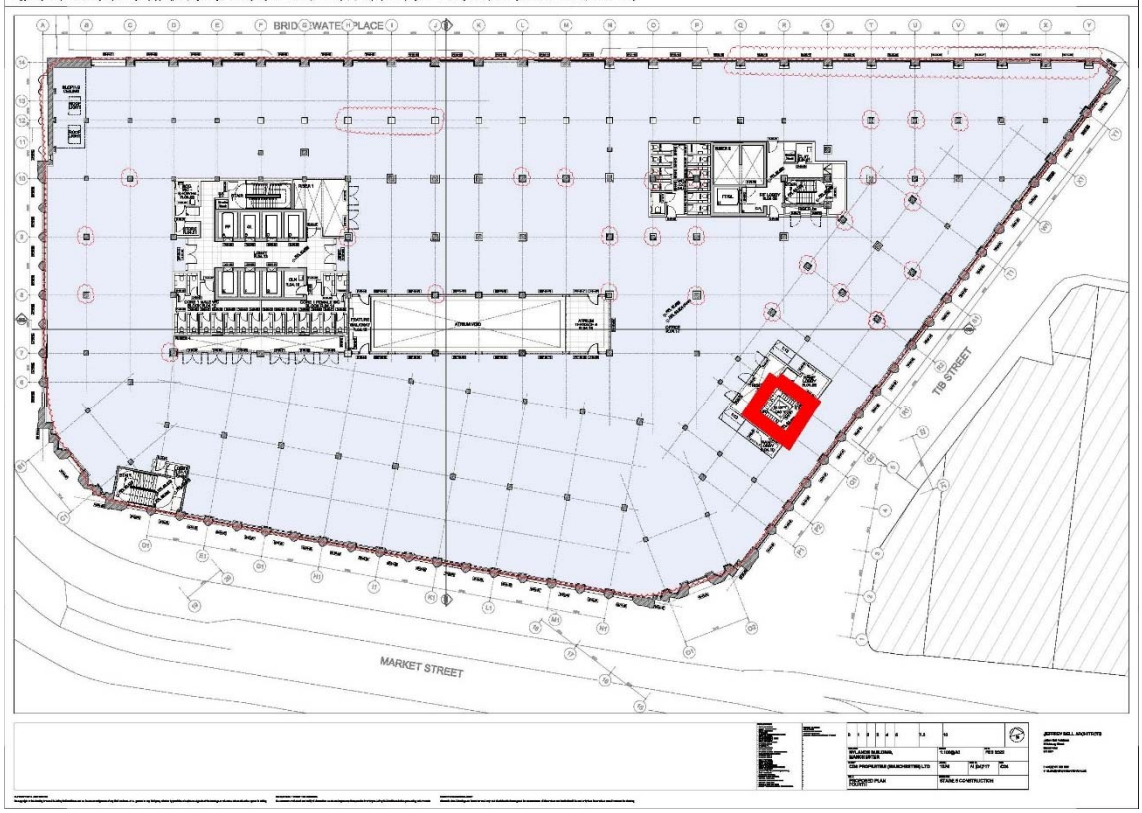


Jeffrey Bell Architects Limited

Jeffrey Bell Ba(Hons) GradDipArch ARB RIBA
Director

Registered in England
No. 7519600

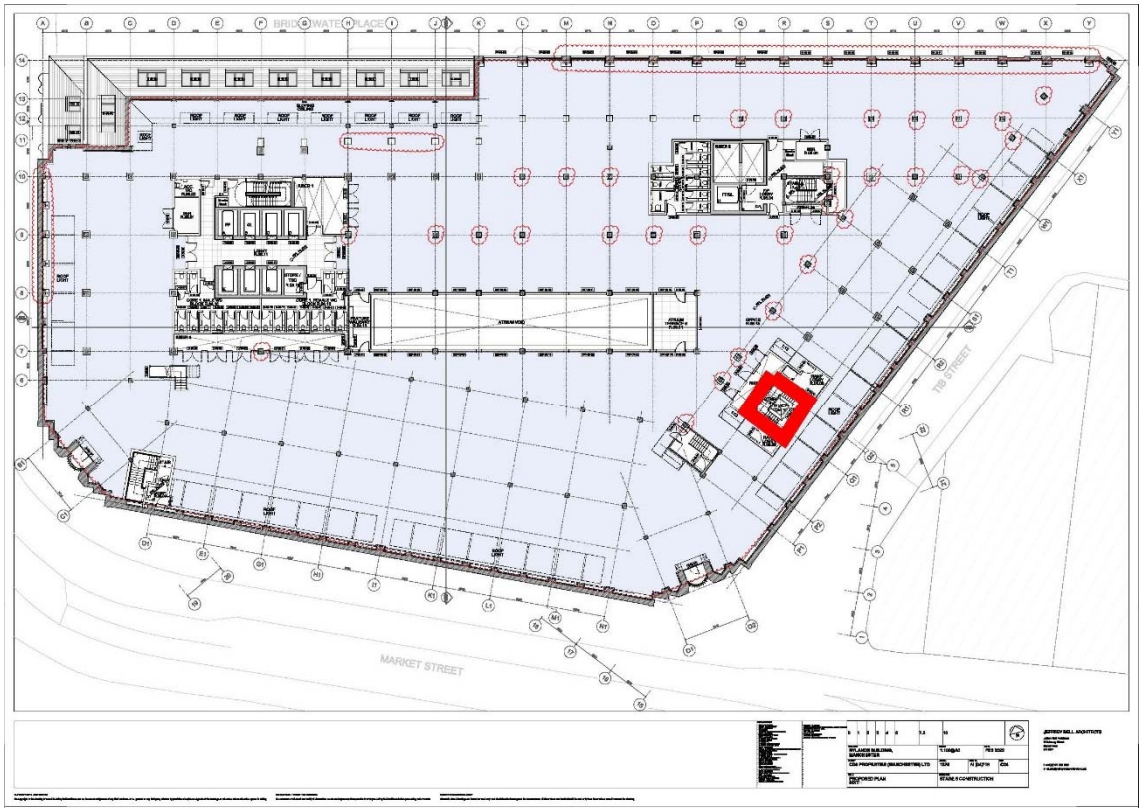


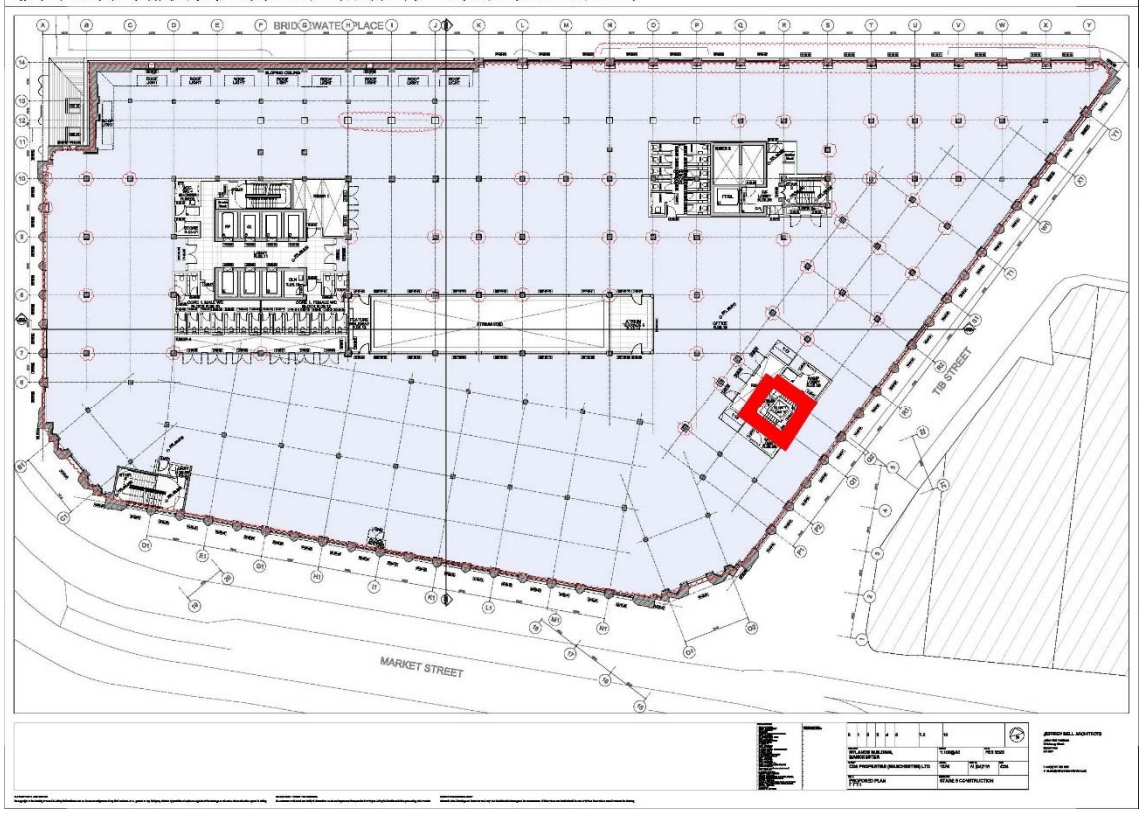


Jeffrey Bell Architects Limited

Jeffrey Bell Ba(Hons) GradDipArch ARB RIBA
Director

Registered in England
No. 7519600

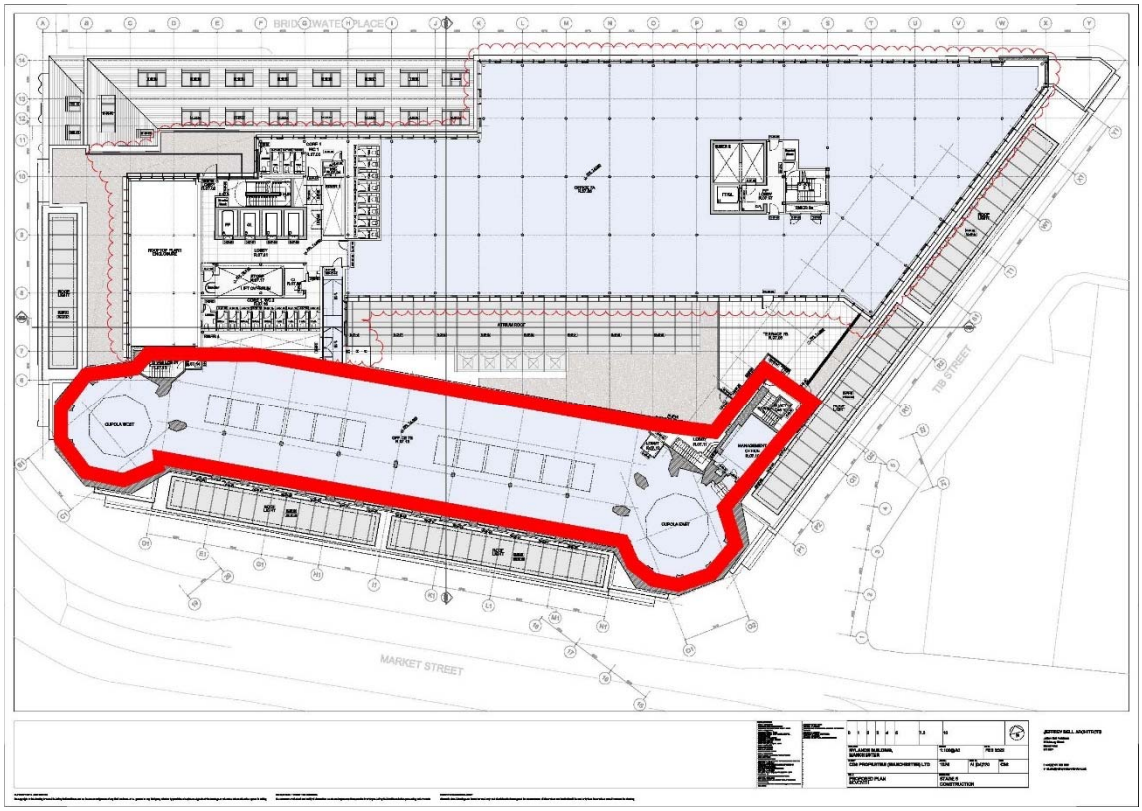




Jeffrey Bell Architects Limited

Jeffrey Bell Ba(Hons) GradDipArch ARB RIBA
Director

Registered in England
No. 7519600



Jeffrey Bell Architects Limited

Jeffrey Bell Ba(Hons) GradDipArch ARB RIBA
Director

Registered in England
No. 7519600

Heritage Spaces

Areas where internal linings are maintained are of high heritage value (identified in the SLHA Heritage Report and highlighted red on plans within this note). These spaces are the main Mangers Office, Dining Room and Cupolas on Level 07 (see below imagines). Level 02 Managers Office and the 'Bet Fred' unit located at Ground Level. These are high value heritage spaces and will be refurbished to their original condition.

Original linings are restored or replaced without thermally upgrading the external building fabric. This approach maintains the original look and feel of the spaces. The building energy model accounts for these low performing areas by offsetting against the thermally upgraded building fabric elsewhere.





Jeffrey Bell Architects Limited

Jeffrey Bell Ba(Hons) GradDipArch ARB RIBA
Director

Registered in England
No. 7519600

3.0 Rationale for Removal

Beyond the main heritage spaces there are a series of factors which influence the removal of original internal plaster linings. Refer to the below;

Hygrothermal Risk Assessment

A Hygrothermal Risk Assessment (*06679-MXF-XX-XX-RP-Y-60000 – Max Fordham 11/03/2024*) was undertaken to assess the risk of interstitial condensation to the thermally upgraded building fabric.

The analysis identified a number of recommendations to minimise condensation risk;

- Existing gypsum plaster to be removed
- Existing damaged and delaminated cement or lime plaster to be removed
- Existing paint (unless the paint properties are understood) to be removed

Energy

Within the 2021 planning consent the building needs to achieve a series of agreed energy standards. The finished scheme aims to achieve Net Zero Carbon Status and meet the following energy targets;

- Whole life embodied carbon targets under 600 kgCO2e/m2
- Operational Energy circa 206 kWh/m2.yr
- BREEAM Excellent
- NABERS 5+

A key component to achieving these targets is replacing old windows with new complementary double-glazed systems and internally insulating the existing building fabric; upgrading its thermal performance. Without these fabric upgrades the proposal would not meet these consented energy targets.

Cathodic Protection

The existing steel frame is protected from corrosion via a process called Cathodic Protection. This strategy is agreed and is a common technique used on large existing steel frame structures. The process involves the introduction of a series of physical cuts in the existing internal masonry. External cuts are deemed too harmful. The internal cuts are positioned locally around all structural elements and enable the cathodic wiring anodes to be introduced into the fabric to protect the steel. Inevitably these interventions will damage and delaminate any internal linings.

4.0 Optioneering

The design team have investigated a series of lining options that maintained the existing plaster linings while providing additional thermal performance.

Thermal modelling studies were undertaken on a series of build ups;

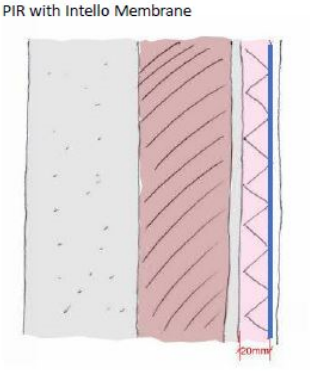
- PIR boards with Intello Membrane
- Gutex Wood-fibre boards with Intello Membrane
- Diathonite and Gutex wood-fibre boards
- Diathonite and Aerogel
- Diathonite and PIR

Jeffrey Bell Architects Limited

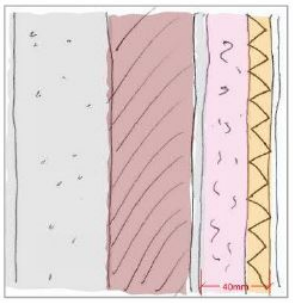
Jeffrey Bell Ba(Hons) GradDipArch ARB RIBA
Director

Registered in England
No. 7519600

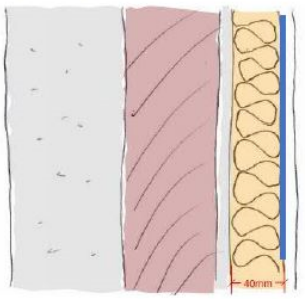
PIR with Intello Membrane



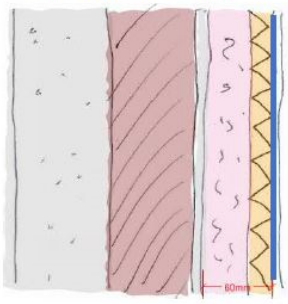
Diathonite & PIR



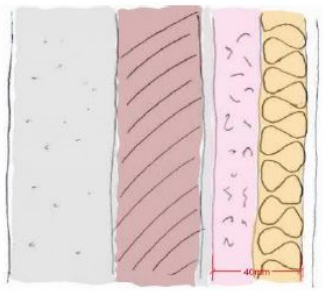
Gutex wood-fibre with Intello membrane



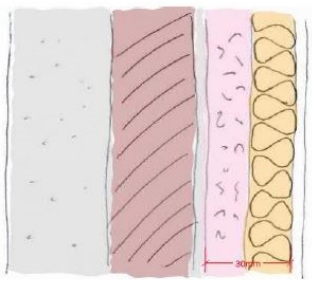
Diathonite & PIR with Intello membrane



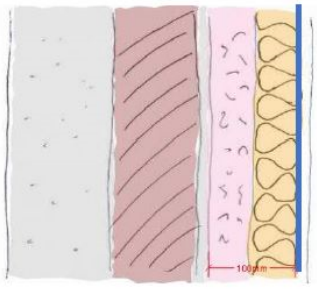
Diathonite & Gutex



Diathonite & Aerogel



Diathonite & Gutex with Intello membrane



Diathonite & Aerogel with Intello Membrane



Jeffrey Bell Architects Limited

Jeffrey Bell Ba(Hons) GradDipArch ARB RIBA
Director

Registered in England
No. 7519600

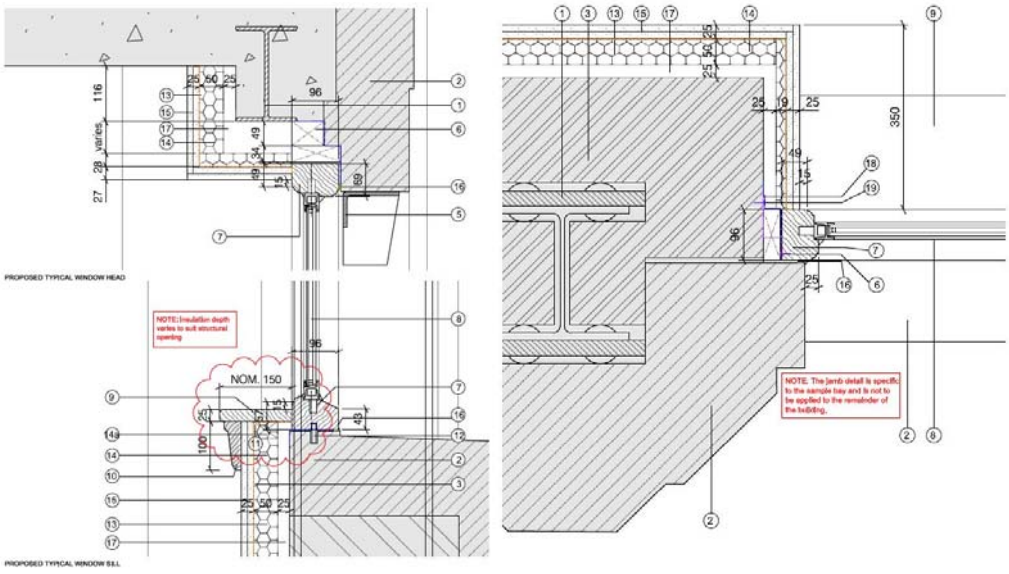
Although these options improved thermal performance while maintaining existing linings with an acceptable level of moisture risk. The proposals did not meet fire safety standards to achieve Building Regulations. Therefore these options where discounted.

5.0 Proposed Linings

Any proposed lining option therefore needs to balance thermal performance demands, moisture risk criteria, accommodate cathodic protection works and fire safety standards.

Following ongoing review with specialist subcontractors and project façade engineers the proposal which balanced these criteria removes the original plaster linings and is described below;

- Existing stone and or masonry façade
- 25mm airgap
- 50mm insulation (0.032W/mK / p=32kg/m3) ***note insulation thickness may rather according the location
- Vapour control layer
- 2 layers of 12.5mm wallboard with 5mm skim (skim continuous to ensure air tightness)



6.0 Basement Linings and Tanking Strategy (refer to SWC Waterproofing Strategy Report)

The consented proposals seek to create habitable space within the existing basement levels at Rylands Building. Basement level 02 continues stores and plant space. Basement Level 01 contains office end of journey spaces, tenant leisure space and building management facilities. All spaces are to be formed to meet modern construction standards.

Basement design and performance is required to meet BS 8102, ensuring the appropriate protection levels for the intended use of each area. At basement level 02 storage and mechanical plant areas are located. This level is designed to achieve basement Grade 2. At basement level 01 habitable space is created which falls within the thermal envelope. Therefore, this level and above is designed to achieve basement Grade 3. To achieve these performance standards within an existing structure new internal linings are needed to manage water ingress from

Jeffrey Bell Architects Limited

Jeffrey Bell Ba(Hons) GradDipArch ARB RIBA
Director

Registered in England
No. 7519600

the existing fabric, providing a dry warm environment appropriate to the associated internal use and protecting the remaining historical fabric.

The existing building did not have a basement tanking system. The existing plaster linings are utilitarian and are in very poor condition. Existing plaster linings are subject to years of water ingress and their condition shows significant water damage and delamination. See below typical examples;





Jeffrey Bell Architects Limited

Jeffrey Bell Ba(Hons) GradDipArch ARB RIBA
Director

Registered in England
No. 7519600





Jeffrey Bell Architects Limited

Jeffrey Bell Ba(Hons) GradDipArch ARB RIBA
Director

Registered in England
No. 7519600



To enable the new tanking system to function correctly existing linings need to be removed for the following reasons;

1. Areas of visible water ingress need to be striped back to the primary masonry to enable the route cause to be treated and managed at source.
2. If retained, existing linings would continue to degrade and debris will enter the water management system damaging and blocking the tanking linings and water pumps designed to take the water and moisture away to the public drainage network.

New internal finishes are painted plasterboard which is complimentary to the historical finish. These finishes will need to be agreed with MCC in due course. Refer to the attached SWC Waterproofing Strategy within the appendix which describes the proposed tanking strategy and associated typical details.

7.0 Stephen Levrant Heritage Architecture (SLHA)

Refer to the attached appendix which contains SLHA commentary.

8.0 Conclusions

The proposals seek to maintain and repair existing linings to all internal high value heritage spaces. These spaces will remain uninsulated and refurbished to their original state. However, to meet the consented contemporary energy targets other areas of the building's fabric require performance upgrades i.e. new double-glazed windows and insulated linings. This upgrade needs to be untaken in a manner that accommodates cathodic protection works, minimises condensation risks and meet statutory fire safety and construction standards.

The review of different lining options which maintained original plaster linings presented an unacceptable fire safety risk and therefore were discounted. Options which removed the existing linings achieved thermally performance standards, minimised condensation risks and meet fire safety standards and therefore need to be

Jeffrey Bell Architects Limited

Jeffrey Bell Ba(Hons) GradDipArch ARB RIBA
Director

Registered in England
No. 7519600

progressed. Existing basement linings need to be removed to enable an appropriate internally lined tanking system to function correctly managing incoming water to adjacent drainage networks.

New linings provide a painted plasterboard finish which is complementary to the historical finish.

End.

Jeffrey Bell Architects Limited

Jeffrey Bell Ba(Hons) GradDipArch ARB RIBA
Director

Registered in England
No. 7519600

19th September 2025

Rylands Building, Manchester – Wall linings & basement tanking

When Planning Permission and Listed Building Consent was granted for the redevelopment of the Rylands Building in 2020 (PP Ref: 127881/FO/2020 & LBC Ref: 127882/LO/2020), the proposals for the internal linings to the external walls of the building comprised the introduction of new insulated linings over the existing plastered surfaces, and refitting original skirtings/dados onto new linings.

Since the commencement of the scheme on site a number of issues have arose regarding the existing plasterwork to the external walls, these primarily being: long-term water ingress that has degraded/delaminated the plaster, the introduction of cathodic protection to the external steel frame of the building that has resulted in the removal and chasing-out of plasterwork in order to fit, and the production of a Hygrothermal Risk Assessment (Max Fordham) that outlined that the retention of the surviving areas of undamaged plaster potentially would create a risk of trapped condensation once insulated.

Upon review of these findings, it has been found necessary that due to the high level of damage to the existing plasterwork (through condition, alterations and cathodic protection), and the risk of condensation through hydroscopic salts, that all existing plasterwork to the external walls should be removed and thermally lined. Removal and thermal lining of the external walls are also required in order to achieve energy targets contained within the extant Planning consent.

Due to the original plasterwork likely being of a cement composition, the finished appearance of the external walls will remain the same as originally intended, with stone/brick substrate, 25mm airgap, aprox 50mm insulation, vapour control layer, finished with 2 layers of 12.5mm wallboard with 5mm skim plaster and decoration.

It should be noted that as consented, all removed original timber skirtings and dado rails will still be refitted to their original locations, whilst all internal columns (not including those that have needed to be structurally enhanced) will retain their original plastered surfaces, which will be repaired and redecorated with original mouldings refitted.

As apposed to the standard, plain plasterwork proposed to be removed to the external elevations as discussed above; all high significance spaces (7th floor level including dining room/tea room, managers' dining room and cupolas, 2nd floor board room, managers' tiled staircase, and the ground floor former bank/Bet Fred unit) will not be internally insulated and plasterwork will be retained, repaired and redecorated.

Regarding the utilitarian basement levels, due to the below ground nature of the two levels, here the existing plasterwork is highly damaged, missing and affected by long term significant water ingress, which as seen above has also resulted in plaster which is highly degraded and delaminated.

Consequently, the proposed tanking system is deemed necessary in order to create thermally insulated habitable spaces. The system will in essence allow water to pass through the external walls, where through the application of plastic profiled sheet will be directed down to a drainage system and sump pump to create thermally insulated habitable spaces.

In conclusion, due to the low significance of the existing plain plasterwork to the external elevations, its widespread damage and condition, and the current proposals that strive to maintain their original apperence, it is considered that overall, the proposals will result in a minor adverse impact.

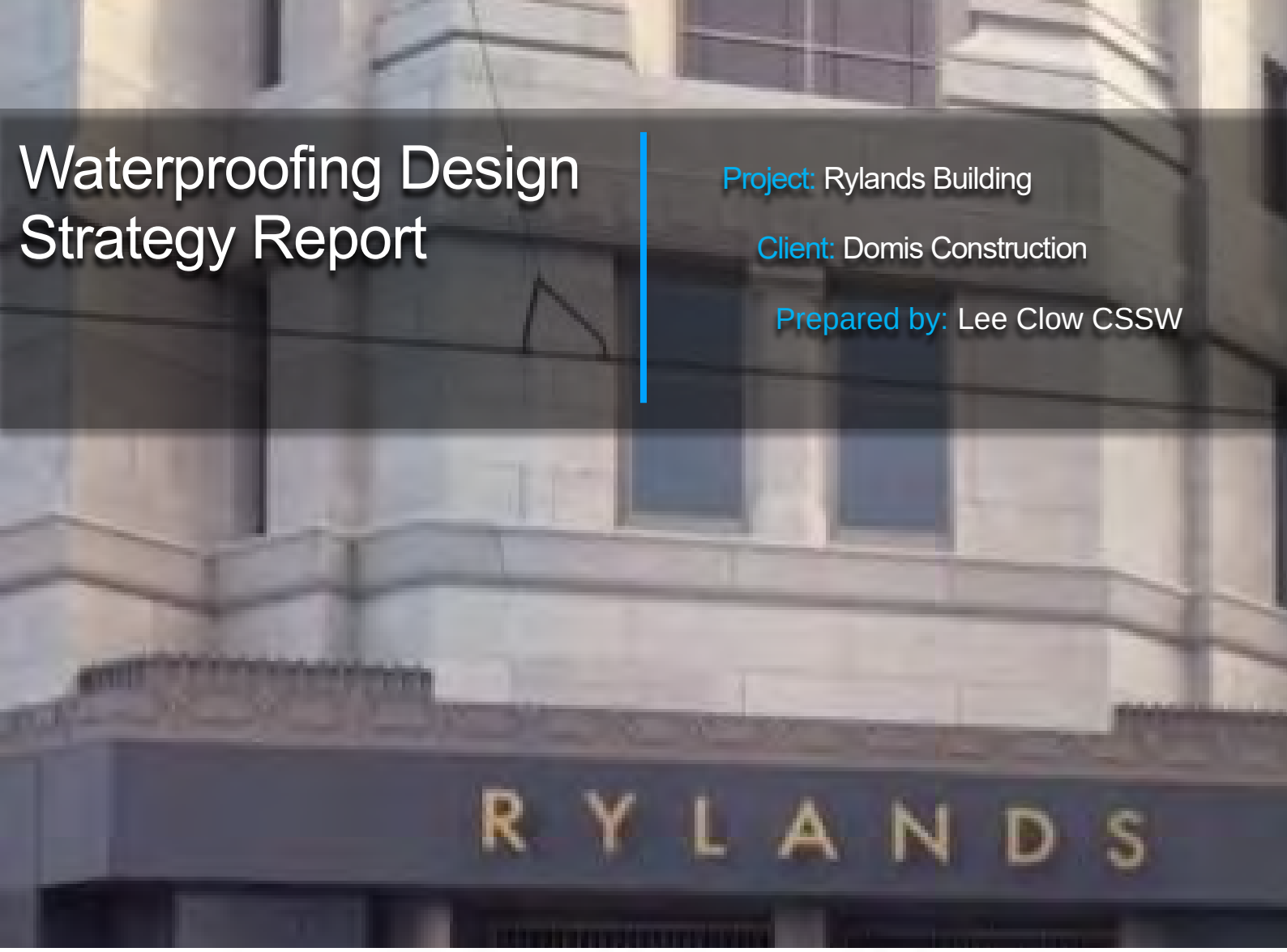
LONDON: 62 British Grove • Chiswick • London • W4 2NL • Tel: 020 8748 5501
MANCHESTER: Canada House • 3 Chepstow Street • Manchester • M1 5FW • Tel: 0161 806 0410
Registered in England 3053944 • VAT GB656883581 Stephen Levrant RIBA, AA Dipl, Dipl Cons (AA), FRSA, IHBC
© S L H A

Waterproofing Design Strategy Report

Project: Rylands Building

Client: Domis Construction

Prepared by: Lee Clow CSSW





STRUCTURAL WATERPROOFING CONTRACTS

To: Domis Construction
FAO: Joel Wildgoose
From: Lee Clow
Date: 28/01/2024
Ref: Rylands Build Structural Waterproofing Design

Scheme:

Construction and refurbishment of a sustainable commercial building offering high-quality office accommodation and active retail on the ground floor.

SWC Scope: To review and design a basement waterproofing strategy to retaining areas of substructure construction

Statement of Compliance with Performance Specifications:

This document confirms that the proposed waterproofing system for the Rylands Building has been designed to meet the performance specifications provided by Jeffrey Bell Architects, Woolgar Hunter, and AM Alpha.
The design incorporates robust and durable waterproofing measures tailored to the specific requirements of the building's use and structure, as follows:

Waterproofing Grades

1. **Grade 2 (B2 Areas)**:
    - These areas have been designed to achieve the required level of water resistance to protect against dampness, ensuring the spaces remain suitable for uses such as back-of-house storage and plant rooms where tolerable moisture ingress is permissible.
    - Systems in these zones will provide adequate resistance to seepage and capillary action while ensuring long-term performance against environmental conditions.
2. **Grade 3 (B1 Areas)**:
    - Areas designated as B1, such as habitable spaces, are designed to achieve Grade 3 waterproofing, providing a dry internal environment suitable for domestic or commercial use.
    - The system ensures full protection against water ingress through structural and movement-resistant solutions while maintaining ventilation or humidity control as required (ventilation and humidity control not in GCP scope).
3. **Cores (Isolated Grade 3 Areas in B2 Zones)**:
    - Cores within B2 areas requiring localised Grade 3 performance have been isolated and detailed accordingly to achieve the necessary dry environment.
    - This ensures that these spaces meet the performance criteria without compromising the overall integrity of adjacent Grade 2 zones.

Design and Performance Criteria

The waterproofing design meets the following essential criteria:

1. **Structural Integration**:
    - All waterproofing components are designed to accommodate building movement, structural tolerances, and settlement as specified by Woolgar Hunter.
    - Special attention has been given to joint detailing, transitions, and interfaces to ensure complete continuity of the waterproofing barrier.
2. **Material Compatibility and Durability**:

- Selected materials are compatible with the surrounding construction elements and meet durability standards to achieve a lifespan in accordance with the project specifications.
- Systems are suitable for long-term exposure to water pressure and environmental conditions without degradation.

3. **Environmental and Sustainability Considerations**:
   - The proposed waterproofing solution aligns with relevant environmental standards and sustainability goals, minimizing the carbon footprint and ensuring compliance with applicable regulations.
4. **Compliance with BS 8102:2022**:
   - The waterproofing strategy is designed to comply with BS 8102:2022, ensuring the appropriate protection levels for the intended use of each area.

Stakeholder Collaboration
The design proposals have been developed in consultation with Jeffrey Bell Architects, Woolgar Hunter, and Domis Construction to ensure compliance with their specifications and alignment with the broader design intent of the Rylands Building project.

Our team remains available to provide further technical details or adjustments as necessary to meet ongoing project requirements.

Waterproofing Protection Assessment

This document provides a basic specification option for the structural waterproofing of the below-ground structures element of this project.

Waterproofing solutions for below-ground structures should be based on an assessment of the intended internal usage and water table classification as recommended in BS8102: 2009, now superseded by the 2022 version. Ground Gas Protection solutions should be based on an assessment of the hazard potential and intended building usage as recommended in BS8485:2015 for methane and carbon Dioxide and in BR211:2015 for radon. The following provides an assessment based on the information provided.

Internal Usage

The grades for internal usage are:

Grade 1a – Seepage and damp areas from internal or external sources are tolerable, where this does not impact on the proposed use of the below-ground structure. Internal drainage might be necessary to deal with seepage
Grade 1b – No seepage. Damp areas from internal and external sources are tolerable
Grade 2 – No seepage is acceptable. Damp areas as a result of internal air moisture/condensation are tolerable. Measures might be required to manage water vapour/condensation
Grade 3 – No water ingress or damp areas tolerable

For this project, we have been advised that the intended usage is for commercial/habitable use and a mixture of Grade 3 & 2 classifications is appropriate for this internal environment.

External Risk Assessment

Gas Assessment

Based on the Geo-Environmental Ground Investigation Report by IGE Consulting (Reference: 3231-02):

1. **Ground Gas Monitoring (Section 4.2.2)**
    - The site is classified as CS1 in accordance with BS8485:2015+A1:2019.
    - Protection from CO2 and Methane is not required.
2. **Radon Assessment (Section 4.2.2)**
    - The Indicative Atlas of Radon in England and Wales indicates the site is in a low probability area (less than 1%of homes are above the action level).
    - Protection from Radon is not required in accordance with BRE211.
3. **VOC Vapours (Section 4.1)**
    - Recorded levels of VOC Vapours are below the Generic Assessment Criteria (GAC).
    - No protection from VOC Vapours is required.
    - Monitoring during construction is recommended to detect any hidden contamination hotspots. If significant contamination is detected, further remediation will be required.
4. **Water Risk Assessment**

Three boreholes were installed in the basement to monitor ground conditions, with key findings as follows:

1. **Water Strikes (Section 3.3)**
    - Water strikes were recorded between 0.30m and 0.40m below ground level (bgl) in every exploratory hole, within the granular stratum.
    - The water strikes are associated with perched water within the granular Made Ground (Sub-base), which may cause hydrostatic pressure against the structure.
2. **Groundwater Monitoring (Section 3.8)**
    - Four visits recorded the following:
        - BH02: Water Level at 11.03m – 11.16m bgl. Water recharged after bailing, indicating the presence of water within the sandstone bedrock.
        - BH03 and BH05: Remained dry.
3. **Dewatering (Section 5.2)**
    - Dewatering may be required during the construction of recessed cores and lift pits.
    - Further on-site assessment is needed to confirm this requirement.
4. **Contaminative Sources (Section 4.1)**
    - No GAC exceedances for the commercial land use scenario were recorded in the solid samples tested (Made Ground and Glacial Till).
    - While the Made Ground cannot be entirely discounted as a contaminative source, the presence of significant contamination is considered highly unlikely based on the chemical testing and the thick concrete floor slab.

Existing Conditions

- SWC has accessed the basement to assess the condition of the existing walls, floors, and ceilings, the walls are to be jet blasted, and a full survey is to be done to highlight and specify any concrete repairs required.

Client Expectations

- Following review of drawing AL (16) 050/210, 211 & 212 The client expects the waterproofing to achieve:
    - Grade 2 to B2
    - Grade 3 to B1
    - Cores are isolated areas to achieve Grade 3 in B2.

Grade Classification Extract from BS8102:2022

Grade 2 (B2):

- No water penetration acceptable. Damp areas are tolerable.

Grade 3 (B1):

- No dampness or water penetration is acceptable. Dry environment is required for sensitive areas such as offices or residential use.

This risk assessment summary will guide the design and implementation of the waterproofing system to meet the required standards and client expectations while addressing identified risks.

Types of Waterproofing Solutions

Basement waterproofing solutions are categorised in BS8102:2022 according to type as summarised below.

- Type A – Barrier Protection. This is protection against water ingress which is dependent on a separate barrier system applied to the structure usually in the form of a membrane. The membrane can be placed externally, sandwiched within the construction, or internally.

- Type B – Structurally Integral Protection. This is protection against water ingress which is provided by the structure usually in the form of a concrete structure with good crack width control measures, incorporating waterstops in the joints and often also a waterproofing admixture. Resistance to vapour ingress is dependent on sectional thickness.

- Type C – Drained Protection. This is protection against water ingress into usable spaces which is provided by the incorporation of an appropriate internal water management system. This is usually in the form of a cavity in the walls and/or the floor through which water ingress is channeled through to a drainage system.

Most manufacturers are able to provide waterproofing solutions for all three types of protection and the proposed solution takes into account the advised construction method, external risk, required internal environment, feasibility of installation, and other related issues such as the need for Combined Protection solutions where possible.

Defects and Remedial Measures

Although an installed waterproofing system would ideally be defect-free, the possibility that defects may be present should be recognised in the waterproofing design. BS8102:2022, Section 4.3.2 states that four types of defects might occur so that the required internal environment is not achieved in the event of the structure being subjected to water pressure. These types of defects are:

a) Defects owing to design
b) Defects owing poor workmanship
c) Inappropriate use of the materials being used and defects owing to the specific properties of the materials being used; and
d) defects caused by follow-on trades and site operations

NOTE 2 Reference to “defects” does not apply to normally designed flexural cracks or surface crazing in concrete elements but only to cracking, which. Might need to be locally sealed.

It is essential that the waterproofing design is such that ingress as a result of any form of defect being present is either avoided, or the potential for remedial work to be carried out following completion is catered for in the design.

Waterproofing Strategy Overview for Rylands Building Protection Strategy: Type C + A in accordance with BS 8102:2022

Objective: To implement a robust waterproofing system that ensures protection against water ingress for the Rylands Building basement levels B1 and B2, achieving Grade 2 to B2 and Grade 3 to B1 as specified.

1. **Soffit Edge at B1 Level**
   - **Material**: Cementitious Slurry (Aquatek Super XA)
   - **Application**: Apply to a minimum of 1 meter from the soffit edge, pending review of the existing substrate.
   - **Purpose:** To create a water-resistant barrier that protects against moisture ingress from the ceiling.
2. **Wall Protection at B1 Level**
   - **Material:** Hydroduct CF08
   - **Installation:** Apply to the walls according to detail D24035-DET-01.
   - **Purpose:** To manage and direct water away from the walls, preventing water ingress and potential damage.
3. **Floor Protection at B1 Level**
   - **Material:** Hydroduct CF20
   - **Installation:** Install on the floor and link to the Hydroduct CF08 and channel as per detail D24035-DET-03.
   - **Purpose:** To ensure a continuous waterproofing layer that channels water away from the floor surface.
4. **Water Management at B1/B2 Interface**
   - **Detail:** Where the wall of basement level B2 meets the underside of B1, install weep holes as per detail D24035-DET-02.
   - **Purpose:** To allow any water that collects at the B1 level to drain down to the B2 level, preventing water buildup and hydrostatic pressure.
5. **Floor to Wall Junction at B2 Level**
   - **Material:** Hydroduct CF20 (floor) linked with Hydroduct CF08 (walls)
   - **Installation:** Same method as B1 level, following detail D24035-DET-03.
   - **Purpose:** To maintain a consistent waterproof barrier that protects against water ingress at the critical floor-to-wall junctions.
6. **New Core Cut-Outs and Pile Caps**
   - **Material:** Hydroduct CF linked with Aquatek Super XA with Adprufe 100 Admixture in the concrete (Cores Only).
   - **Installation:** Link the Hydroduct CF with Aquatek Super XA where new cores are to be cut out, as per detail D24035-DET-09C.
   - **Purpose:** To ensure that the new core areas are integrated into the existing waterproofing system, maintaining overall integrity and protection.
7. **Sumps and Pumps**
   - **Material:** Triton AquaPump Pro BBPS (Single Pump, Single Outlet).
   - **Installation:** Within the slab as located, drop in the chamber and connect to sump to B2 Suspended building drainage by Novo 1no. of 1¼" PVC male threads on the outside of the chamber. We recommend that you use 1¼" Class E PVC Pressure Pipe
   - **Purpose:** To collect water and discharge it away from the building.
   - **Location**: 5 number as per detail D24035-PLA-01_A.
8. **Inspection Ports**

- Inspection port locations to be confirmed based on the final layout of finishes.

Monitoring and Quality Assurance:

- Conduct regular inspections during installation to ensure compliance with design details and manufacturer specifications.
- Perform post-installation testing to verify the effectiveness of the waterproofing system.
- Maintain documentation of all materials used and installation processes for future reference and maintenance.

By following this comprehensive waterproofing strategy, the Rylands Building will be effectively protected against water ingress, ensuring the longevity and integrity of the basement levels.

Waterproofing Design, Warranties and Product Installation

Waterproofing Design

SWC will coordinate aspects of the waterproofing design, incorporating a waterproofing product specification and a set of waterproofing detail drawings provided for review, based on appropriately detailed architect's and engineer's construction drawings.

Waterproofing Warranties

Installation warranty document following the successful completion of the waterproofing is to be provided by SWC as the installing contractor and manufacturers will issue product warranties for materials used.

Type B Watertight Concrete

A warranty will be issued that covers all aspects of the watertight concrete including the waterstops and other ancillaries provided they are supplied by the manufacturer. QA procedures are to be adhered to and are the responsibility of the appointed concrete contractor. SWC will assist Mayo Civils alongside GCP, the product manufacturer, to ensure appropriate protocols are met during placement where required.

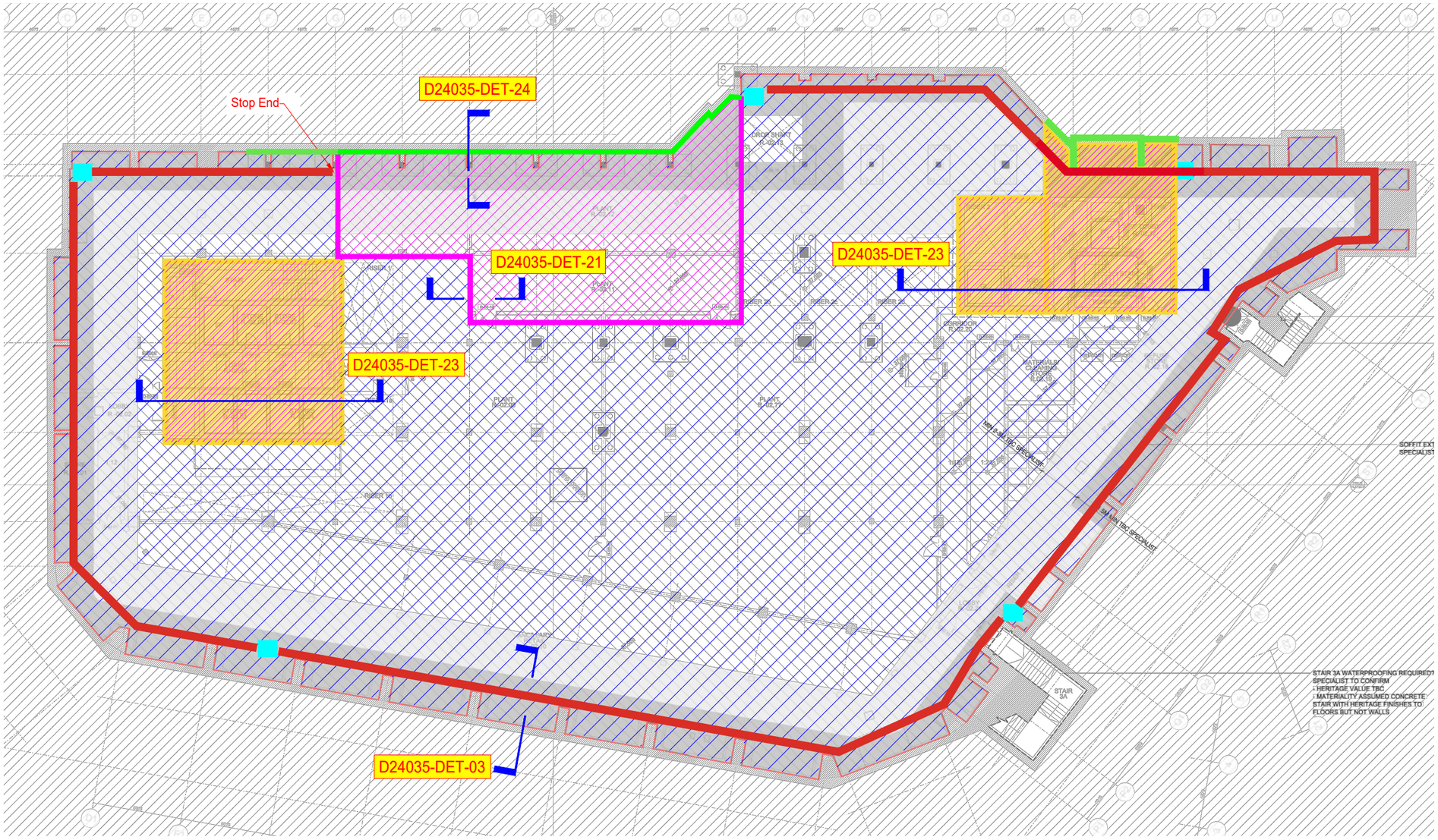
APPENDIX'S

APPENDIX 1

Detail Locator and Plan Layout

APPENDIX 2

Product Technical Data and Overview Details



Channels

SUMP CHAMBER LOCATIONS (SUPPLIED & INSTALLED BY SWC

Exact location of channels & flush points indicative, Can be moved to suit interior fit out if required. Positioning to building design team requirements. Not in GCP scope.

AQUATEK SUPER XA & ADPRUFE 100 (Grade 3)

HYDRODUCT CF 20 (Grade 2 Area)

AQUATEK SUPER XA (Grade 2

BETEC FLEX SYSTEM to walls

PROPOSED WATERPROOFING STATEGY SUB-BASEMENT SLAB LEVEL

Extract from Jeffrey Bell Architects
Drg No: 1526-AL(16)210

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
PLAN DRAWING SHEET 01
GCP PRODUCT APPLICATION TECHNIQUES

Originator:

GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

Rev:	Date:	By:	Description:
C	18-02-2025	TG	Waterproofing strategy / minor revisions
B	27-1102024	TG	Channel/sump removed. Grade 3 area added.
A	28-10-2024	TG	-

Status: PRELIMINARY - FOR DISCUSSION

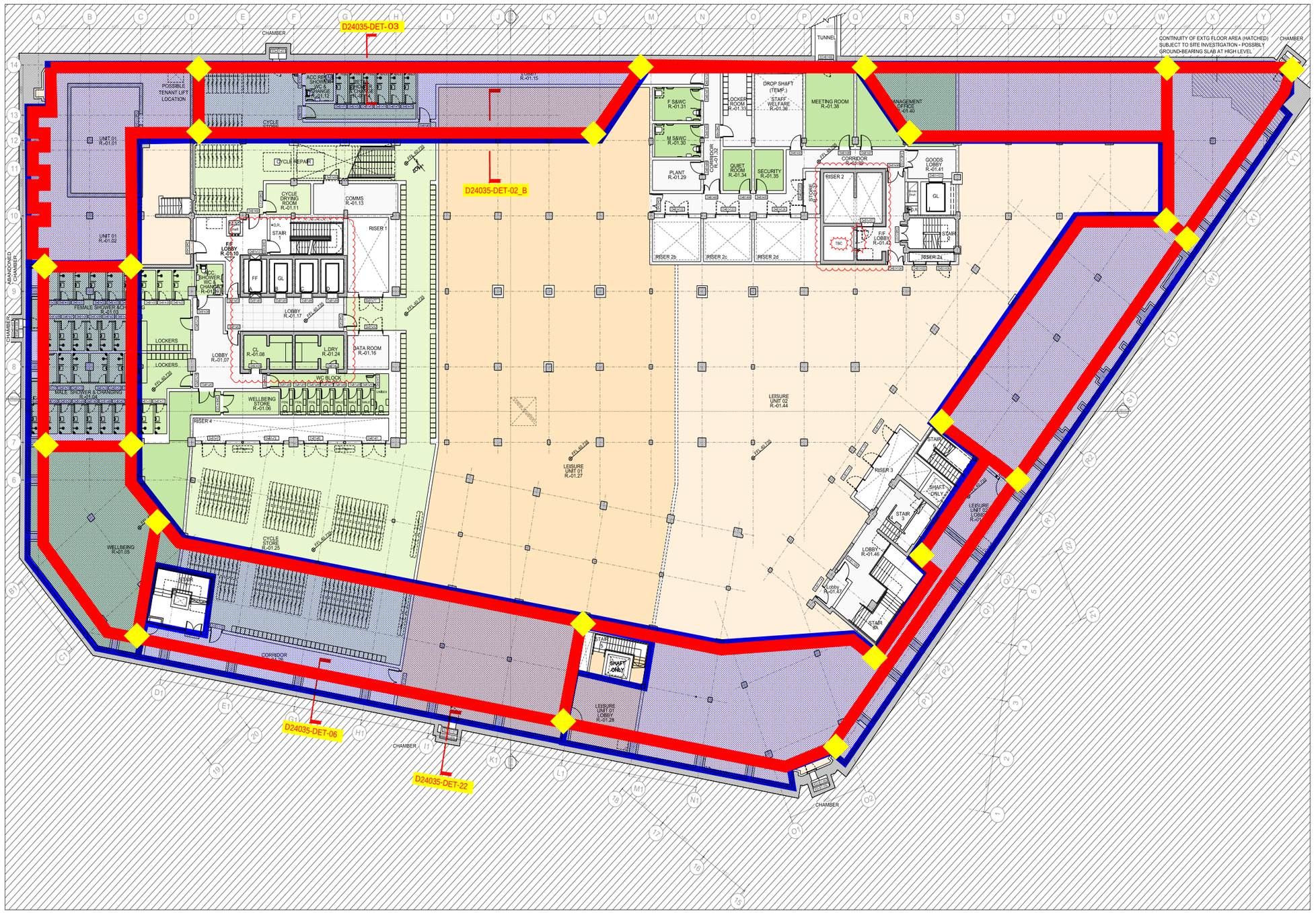
Code: -

GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	15-07-2024	KAJ	DMC	N.T.S

Drawing No: D24035-PLA-01

Rev: C

GCP_UKI_TitleSheet_A3_PRO_2024_v1



HYDRODUCT CF20

HYDRODUCT CHANNEL

PROPOSED WATERPROOFING STATEGY BASEMENT LEVEL B1

OUTLETS (subject to finishes)

Extract from Jeffrey Bell Architects
Drg No: 1526-AL[04]211

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
PLAN DRAWING SHEET 02
GCP PRODUCT APPLICATION TECHNIQUES

Originator:
GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

Rev:	Date:	By:	Description:
B	09-01-2025	TG	CF Channel termination notes changed.
A	08-01-2025	TG	CF Channel revised. Grid ref, A - D

Status: PRELIMINARY - FOR DISCUSSION
Code: -

GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	27-11-2024	TG		N.T.S

Drawing No: D24035-PLA-02
Rev: B

GCP_UKI_TitleSheet_A3_PRO_2024_v1



B2 | PROPOSED FOUNDATION LAYOUT
SCALE: 1 : 200

Aquatek Super XA

Aquatek Super XA + ADPRUFE 100

PROPOSED WATERPROOFING STATEGY FOUNDATION LEVEL

Extract from Wolgar Hunter Engineers
Drg No: 1RBM-WHL-XX-FN-DR-S-16-0996B P03

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
PLAN DRAWING SHEET 03
GCP PRODUCT APPLICATION TECHNIQUES

Originator:
GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

Rev:	Date:	By:	Description:
B	13-02-2025	TG	Waterproofing strategy revised
A	23-01-2025	TG	Waterproofing strategy revised

Status: PRELIMINARY - FOR DISCUSSION
Code: -

GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	13-12-2024	KAJ	DMC	N.T.S

Drawing No: D24035-PLA-03
Rev: B

GCP_UKI_TitleSheet_A3_PRO_2024_v1



General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
PLAN DRAWING SHEET 03
GCP PRODUCT APPLICATION TECHNIQUES

Originator:
GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

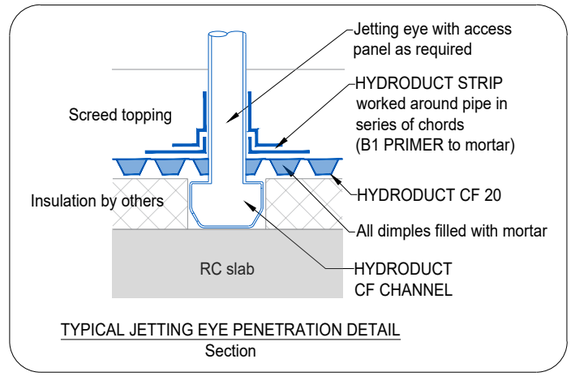
Rev:	Date:	By:	Description:
			-

Status: PRELIMINARY - FOR DISCUSSION
Code: -

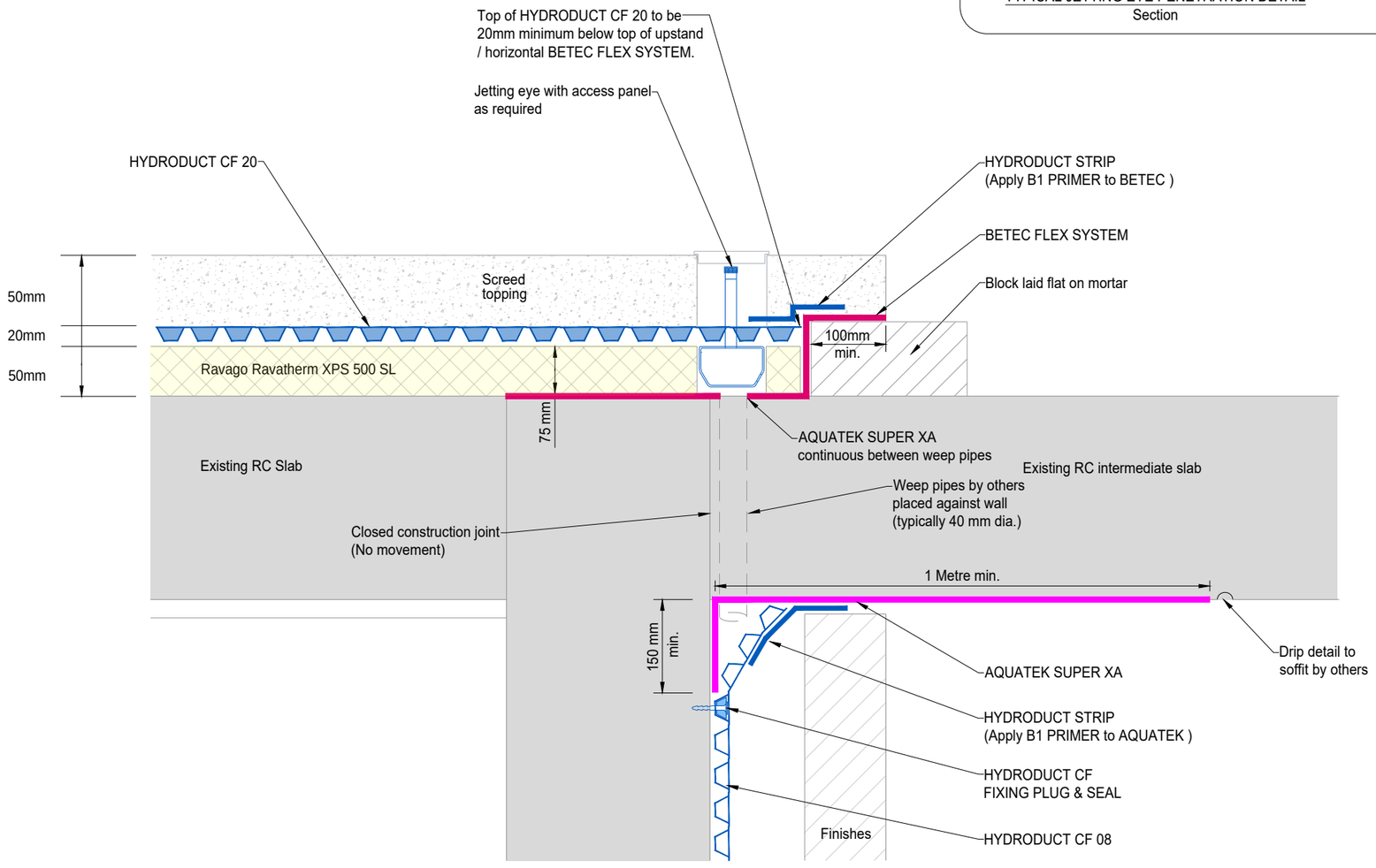
GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	18-12-2024	KAJ	DMC	N.T.S

Drawing No: D24035-PLA-04
Rev:

GCP_UKI_TitleSheet_A3_PRO_2024_v1



TYPICAL JETTING EYE PENETRATION DETAIL
Section



INTERMEDIATE SLAB / WALL JUNCTION
Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

BS 8102:2022
10.2.1.2 Leachates and free lime
Before a cavity drain membrane is laid or fitted on walls and floors constructed of new concrete, the concrete surface should be treated to reduce the risk of leaching of free lime or mineral salts so as to avoid the obstruction of the drainage system.

For further guidance on surface preparation, installation, and maintenance, refer to BS 8102:2022 Section 10 - Type C (drained) protection.

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 02
GCP PRODUCT APPLICATION TECHNIQUES

Originator:
GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

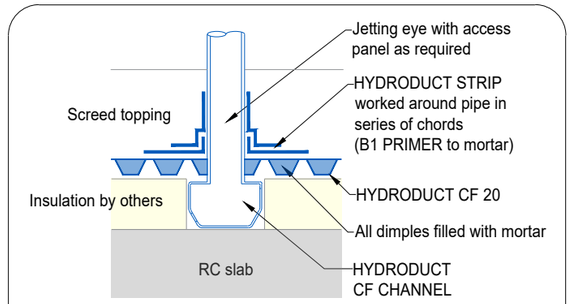
Rev:	Date:	By:	Description:
B	11-02-2025	TG	On slab, Aquatek now betec. Upstand now block
A	13-11-2024	TG	Major revisions to horizontal hydroduct application.

Status: COMMENT OR APPROVAL
Code: -

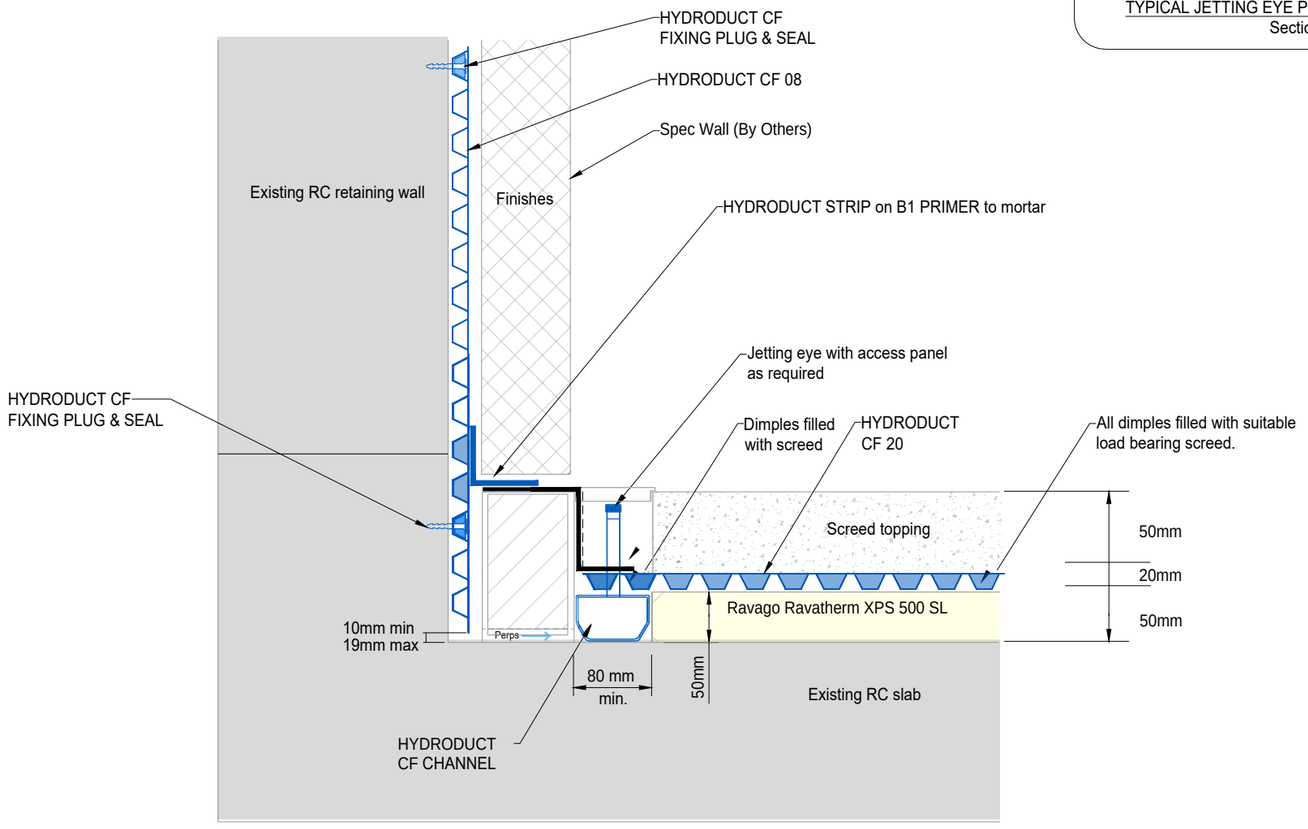
GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	15-07-2024	KAJ	DMC	N.T.S

Drawing No: D24035-DET-02
Rev: B

GCP_UKI_TitleSheet_A3_PRO_2024_v1



TYPICAL JETTING EYE PENETRATION DETAIL
Section



BASE SLAB / WALL JUNCTION AT B1 WALLS
Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

BS 8102:2022
10.2.1.2 Leachates and free lime
Before a cavity drain membrane is laid or fitted on walls and floors constructed of new concrete, the concrete surface should be treated to reduce the risk of leaching of free lime or mineral salts so as to avoid the obstruction of the drainage system.

For further guidance on surface preparation, installation, and maintenance, refer to BS 8102:2022 Section 10 - Type C (drained) protection.

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 03
GCP PRODUCT APPLICATION TECHNIQUES

Originator:
GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

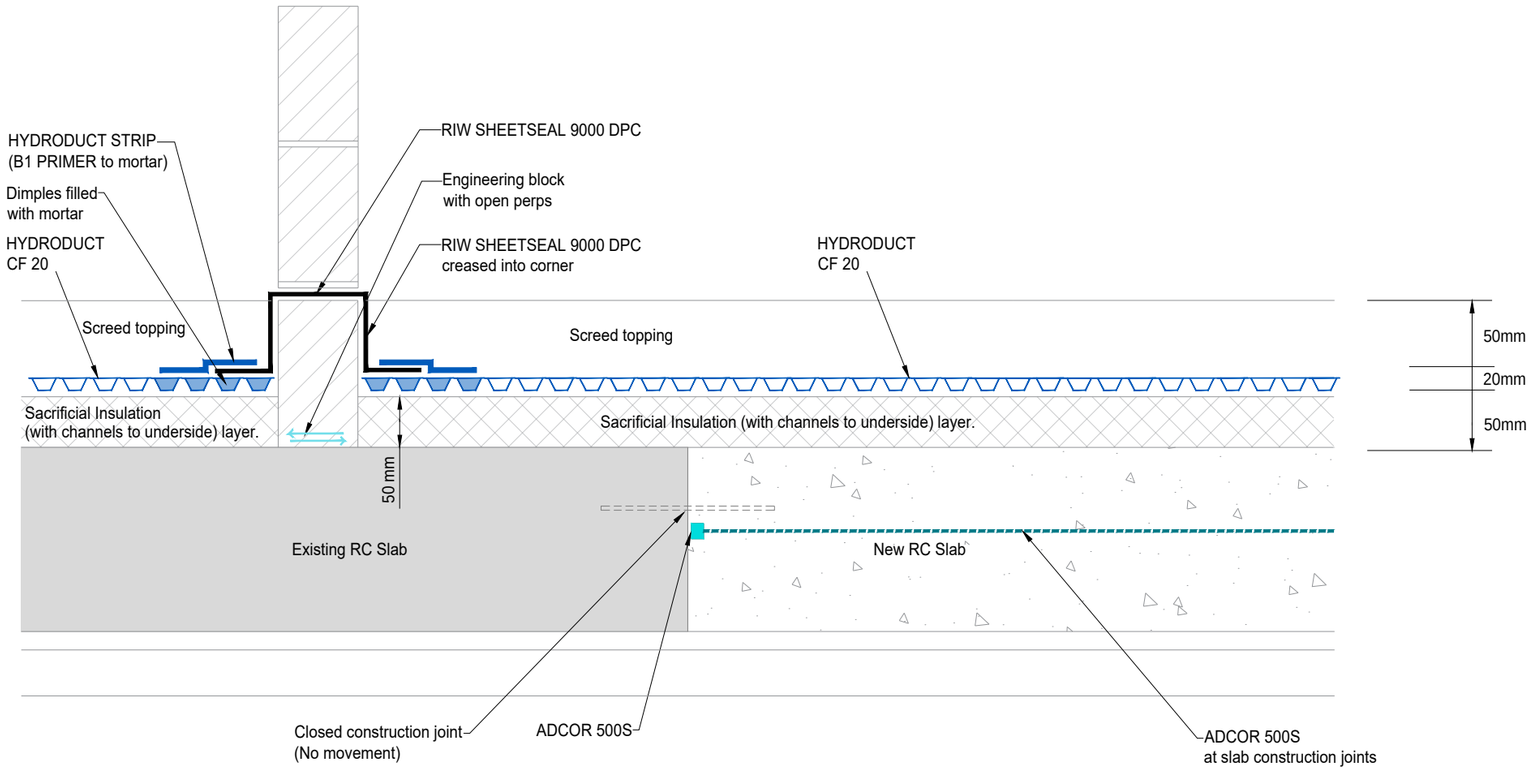
Rev:	Date:	By:	Description:
B	13-11-2024	TG	Major revisions to horizontal hydroduct application.
A	12-11-2024	TG	Insulation added. Mortar fill to Hydroduct added

Status: COMMENT OR APPROVAL
Code: -

GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	15-07-2024	KAJ	DMC	N.T.S

Drawing No: D24035-DET-03
Rev: B

GCP_UKI_TitleSheet_A3_PRO_2024_v1



NEW TO EXISTING SLAB INTERFACE
Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

BS 8102:2022
10.2.1.2 Leachates and free lime
Before a cavity drain membrane is laid or fitted on walls and floors constructed of new concrete, the concrete surface should be treated to reduce the risk of leaching of free lime or mineral salts so as to avoid the obstruction of the drainage system.

For further guidance on surface preparation, installation, and maintenance, refer to BS 8102:2022 Section 10 - Type C (drained) protection.

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 04
GCP PRODUCT APPLICATION TECHNIQUES

Originator:
GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

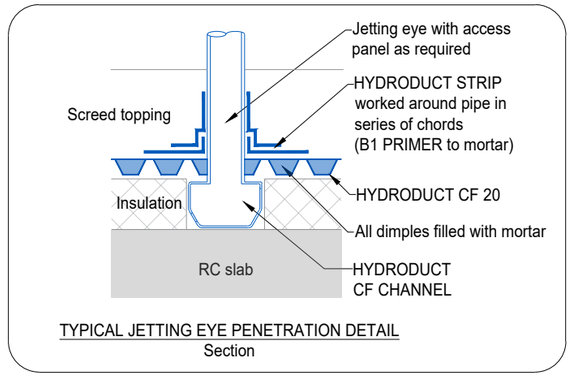
Rev:	Date:	By:	Description:
E	11-02-2025	TG	Screed changed to insulation.
D	23-01-2025	TG	Section rev. Omitted-PP, Aquatek, Betec
C	02-01-2025	KAJ	
B	16-12-2024	KAJ	
A	27-11-2024	TG	Channel removed

Status: PRELIMINARY - FOR DISCUSSION
Code: -

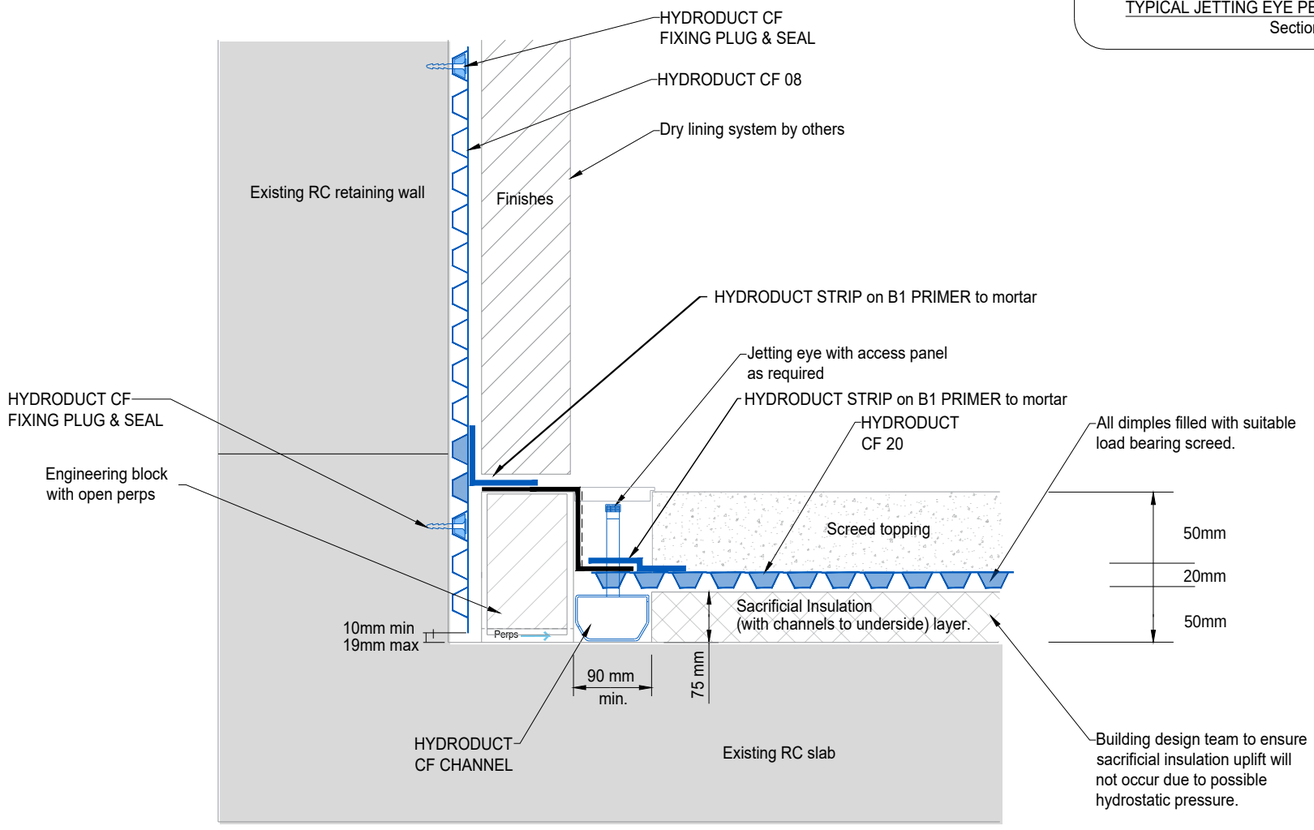
GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	15-07-2024	KAJ	DMC	N.T.S

Drawing No: D24035-DET-04
Rev: E

GCP_UKI_TitleSheet_A3_PRO_2024_v1



TYPICAL JETTING EYE PENETRATION DETAIL
Section



BASE SLAB / WALL JUNCTION
B2 AREA
Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

BS 8102:2022
10.2.1.2 Leachates and free lime
Before a cavity drain membrane is laid or fitted on walls and floors constructed of new concrete, the concrete surface should be treated to reduce the risk of leaching of free lime or mineral salts so as to avoid the obstruction of the drainage system.

For further guidance on surface preparation, installation, and maintenance, refer to BS 8102:2022 Section 10 - Type C (drained) protection.

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 05
GCP PRODUCT APPLICATION TECHNIQUES

Originator:
GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

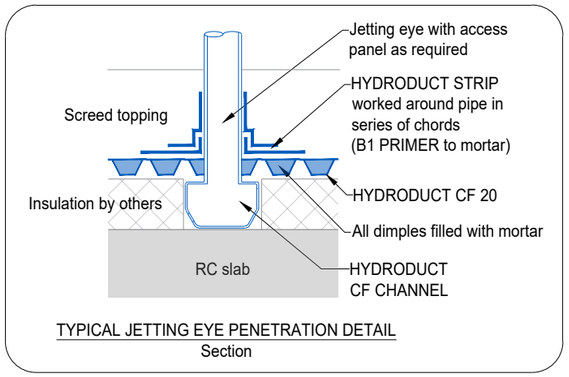
Rev:	Date:	By:	Description:
A	11-02-2025	TG	Screed changed to insulation.

Status: PRELIMINARY - FOR DISCUSSION
Code: -

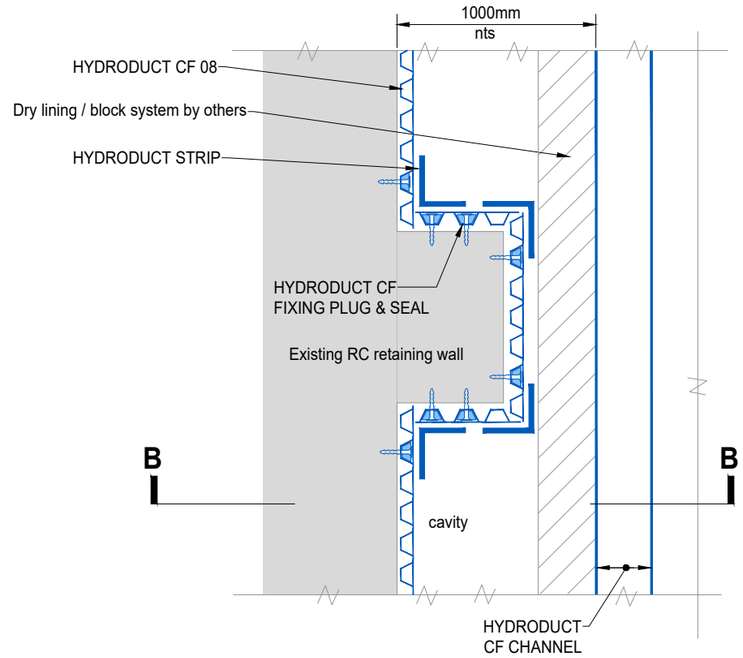
GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	27-11-2024	TG		N.T.S

Drawing No: D24035-DET-05
Rev: A

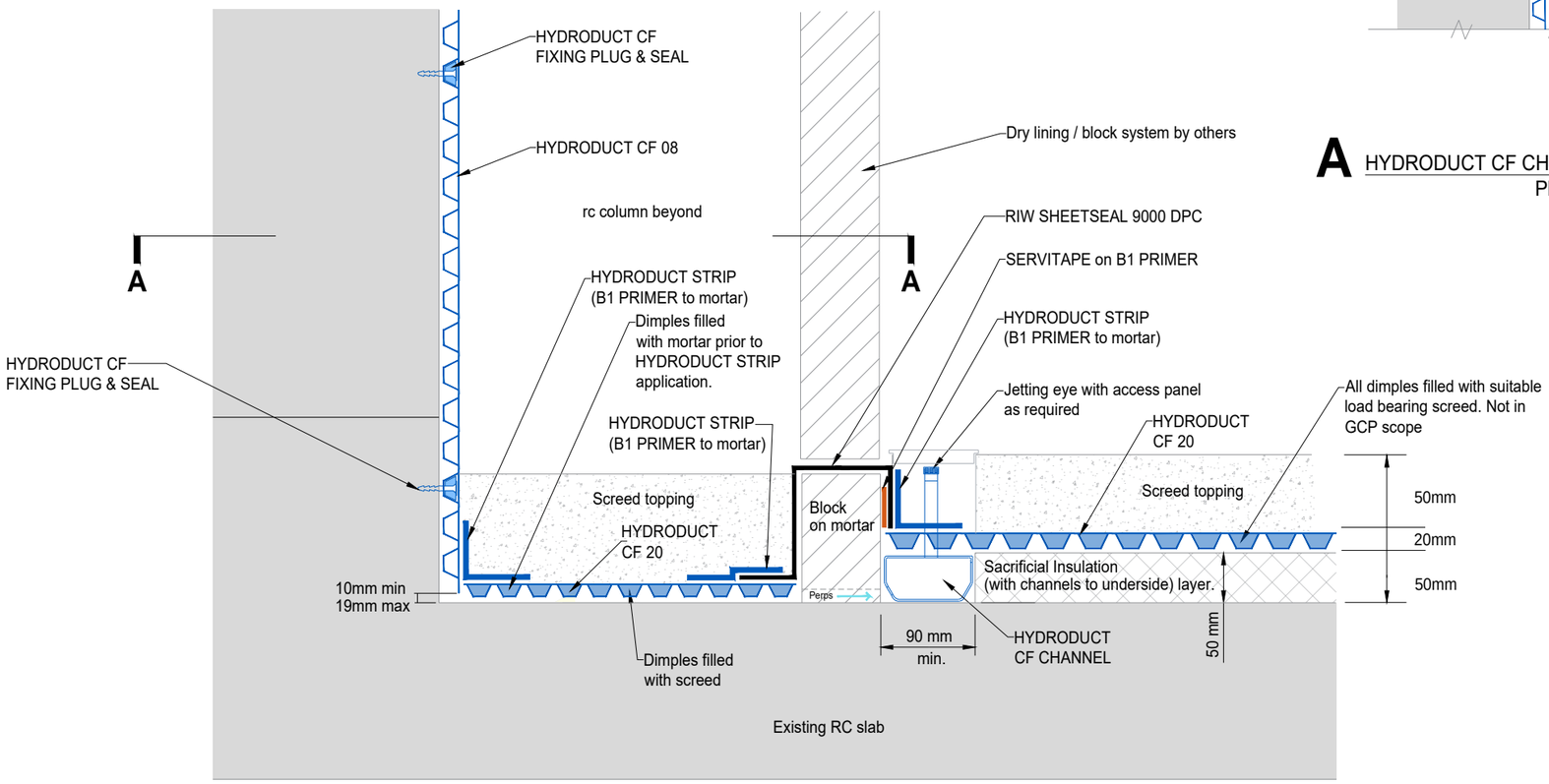
GCP_UKI_TitleSheet_A3_PRO_2024_v1



TYPICAL JETTING EYE PENETRATION DETAIL
Section



A HYDRODUCT CF CHANNEL AT RC COLUMN
Plan Section



B BASE SLAB / WALL JUNCTION FOR -02 BASEMENT LEVEL
Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

BS 8102:2022
10.2.1.2 Leachates and free lime
Before a cavity drain membrane is laid or fitted on walls and floors constructed of new concrete, the concrete surface should be treated to reduce the risk of leaching of free lime or mineral salts so as to avoid the obstruction of the drainage system.

For further guidance on surface preparation, installation, and maintenance, refer to BS 8102:2022 Section 10 - Type C (drained) protection.

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 06
GCP PRODUCT APPLICATION TECHNIQUES

Originator:
GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

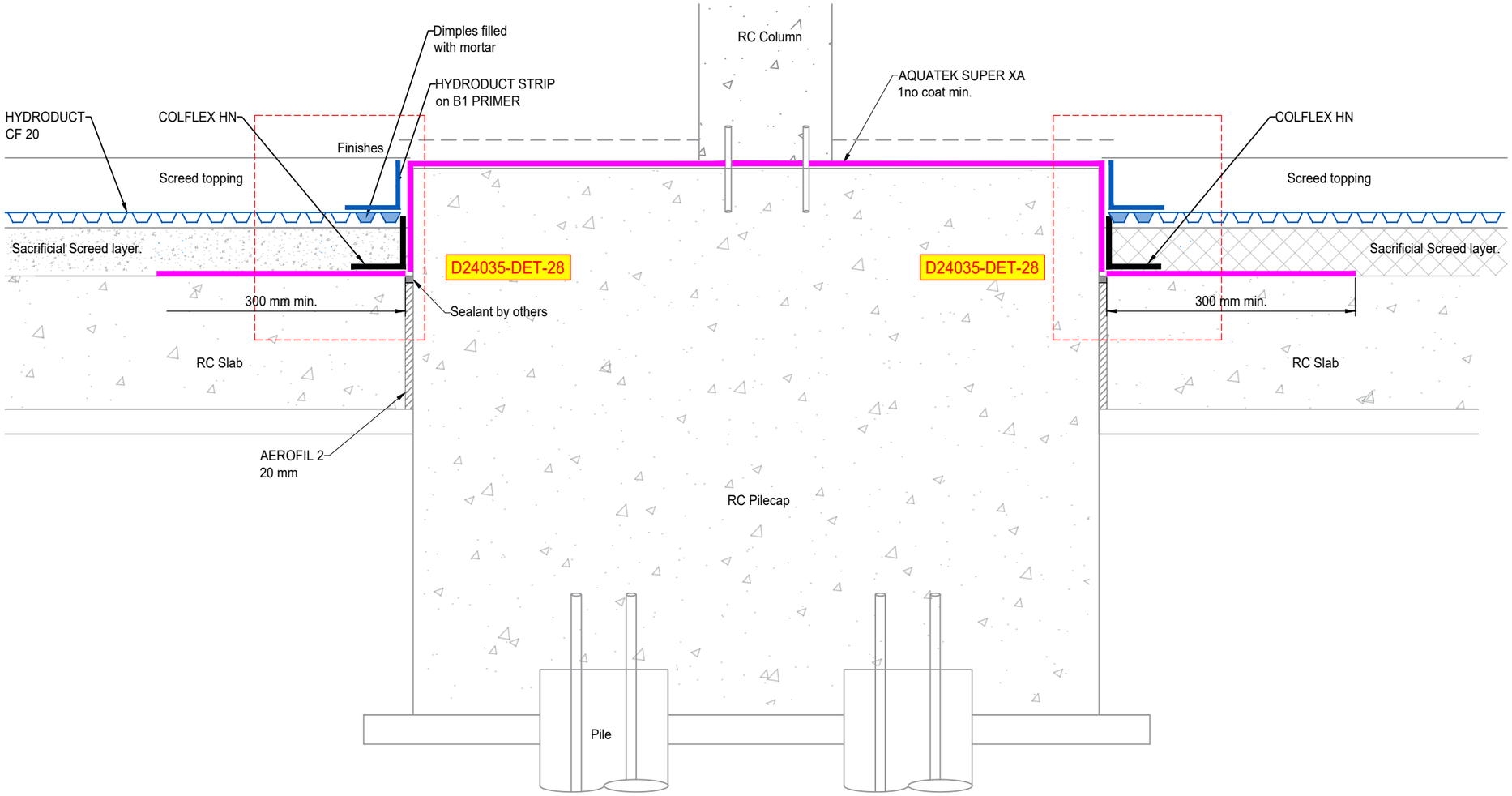
Rev:	Date:	By:	Description:
A	11-02-2025	TG	Screed changed to insulation.

Status: PRELIMINARY - FOR DISCUSSION
Code: -

GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	27-11-2024	TG		N.T.S

Drawing No: D24035-DET-06
Rev: A

GCP_UKI_TitleSheet_A3_PRO_2024_v1



TYPICAL PILECAP / CORE
Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

BS 8102:2022
10.2.1.2 Leachates and free lime
Before a cavity drain membrane is laid or fitted on walls and floors constructed of new concrete, the concrete surface should be treated to reduce the risk of leaching of free lime or mineral salts so as to avoid the obstruction of the drainage system.

For further guidance on surface preparation, installation, and maintenance, refer to BS 8102:2022 Section 10 - Type C (drained) protection.

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 07
GCP PRODUCT APPLICATION TECHNIQUES

Originator:
GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

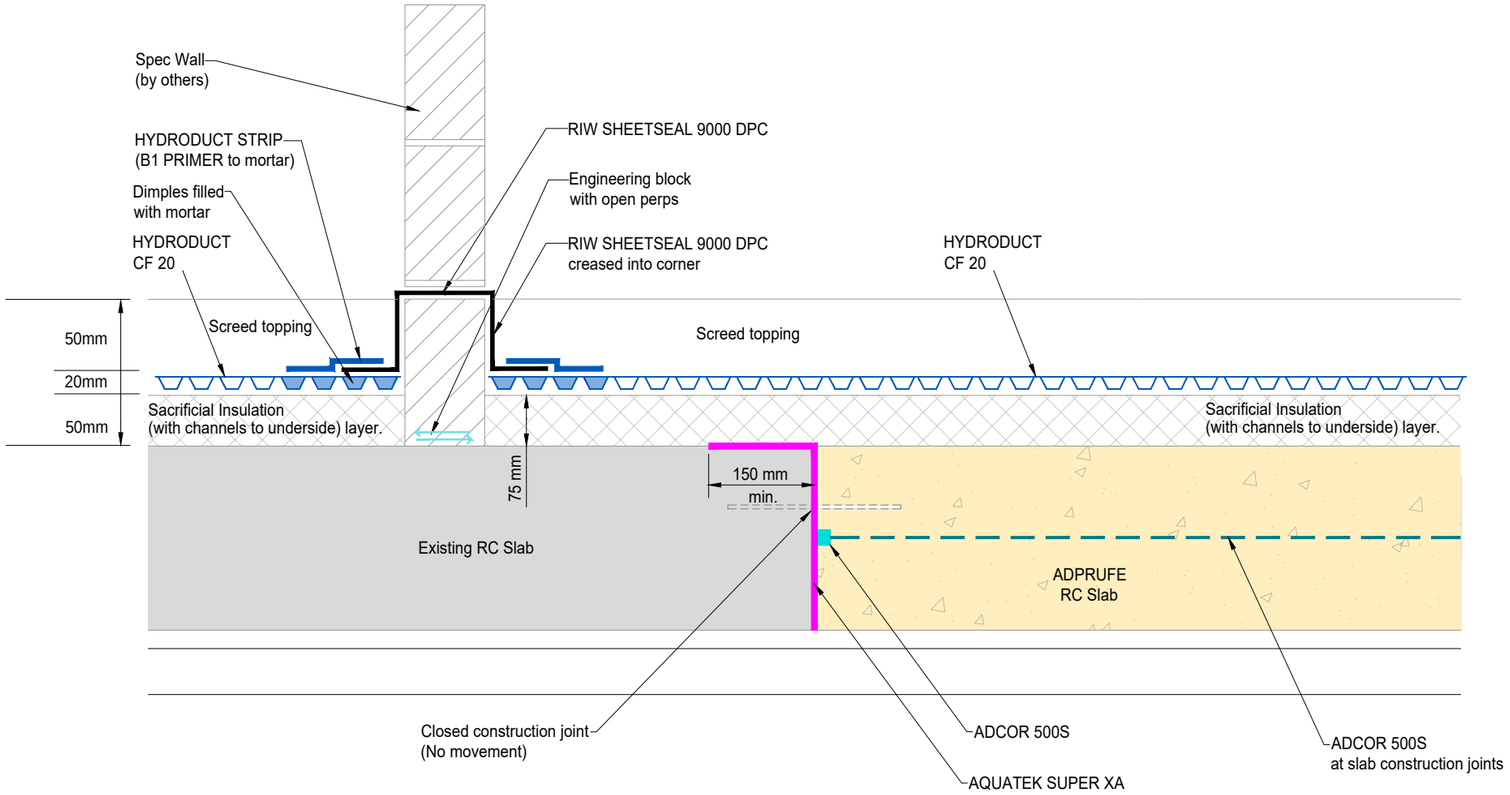
Rev:	Date:	By:	Description:
E	25-04-2025	KAJ	
D	22-04-2025	KAJ	
C	11-02-2025	TG	RC Column added
B	29-01-2025	DMC	Chamfers omitted
A	23-01-2025	TG	Omitted-PP, Added Aquatek, CF20

Status: PRELIMINARY - FOR DISCUSSION
Code: -

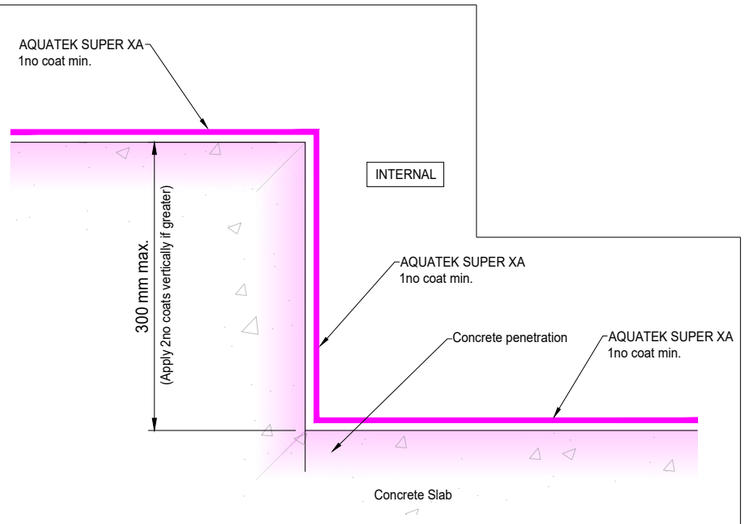
GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	27-11-2024	TG		N.T.S

Drawing No: D24035-DET-07
Rev: E

GCP_UKI_TitleSheet_A3_PRO_2024_v1



NEW TO EXISTING SLAB INTERFACE
Section



A TYPICAL - AQUATEK SUPER XA
INTERNAL & EXTERNAL CORNERS - HORIZONTAL APPLICATION
Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

BS 8102:2022
10.2.1.2 Leachates and free lime
Before a cavity drain membrane is laid or fitted on walls and floors constructed of new concrete, the concrete surface should be treated to reduce the risk of leaching of free lime or mineral salts so as to avoid the obstruction of the drainage system.

For further guidance on surface preparation, installation, and maintenance, refer to BS 8102:2022 Section 10 - Type C (drained) protection.

ADPRUFE Design Criteria
Concrete structures must be designed in accordance with BS EN 1992-1-1, BS EN 1992-1-2, BS EN 1992-3 and BS 8102, or a comparable code. Concrete containing ADPRUFE should be designed in accordance with the requirements of BS EN 1992-1-1 having a maximum crack width of 0.3mm;

Unless noted otherwise, ADPRUFE concrete minimum thickness to be 200mm.

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 09
GCP PRODUCT APPLICATION TECHNIQUES

Originator:
GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

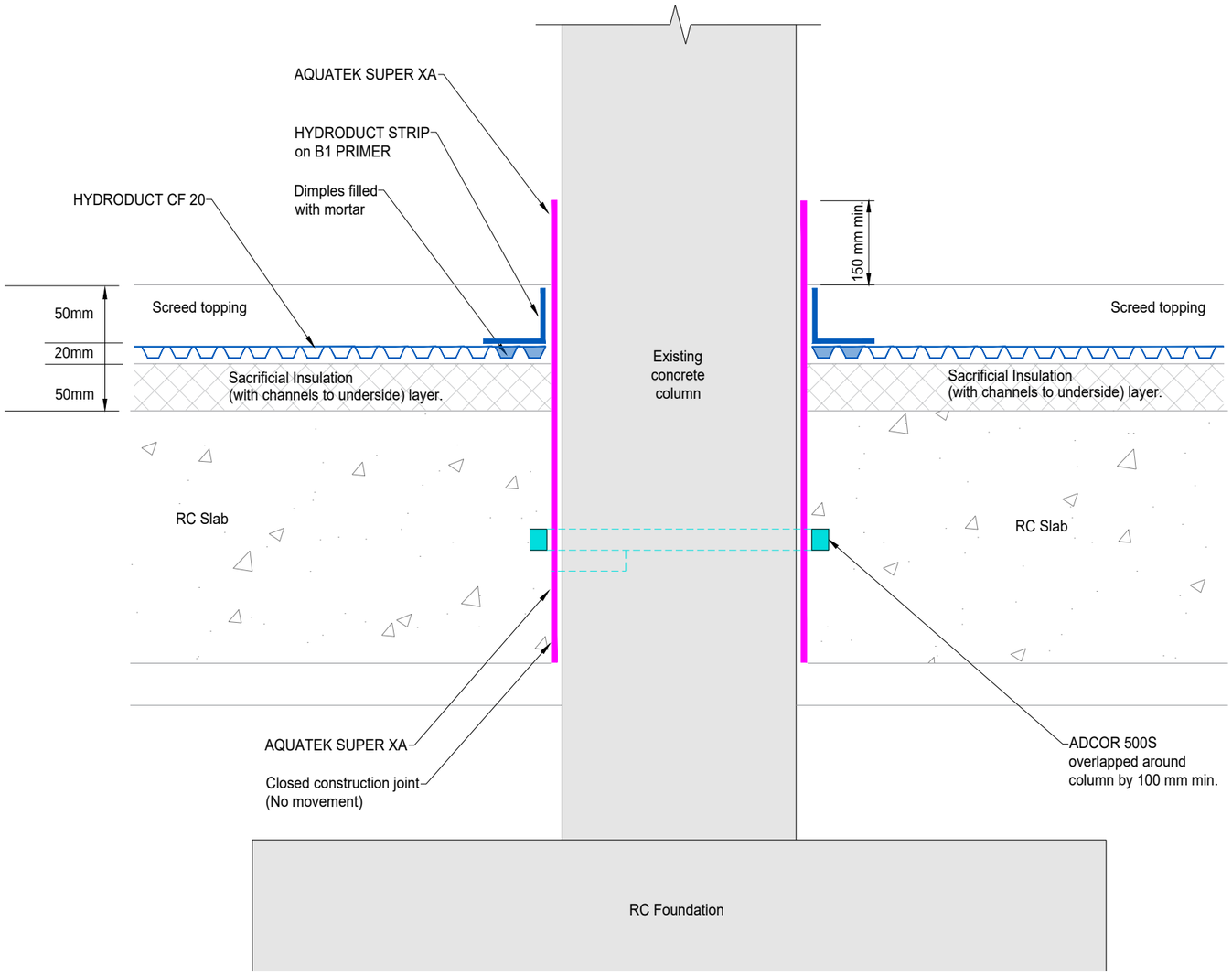
Rev:	Date:	By:	Description:
E	11-02-2025	TG	Screed changed to insulation.
D	29-01-2025	TG	Aquatek added
C	23-01-2025	TG	Section rev. Omitted-PP, Aquatek, Betec
B	02-01-2025	KAJ	
A	16-12-2024	KAJ	

Status: PRELIMINARY - FOR DISCUSSION
Code: -

GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	13-12-2024	KAJ	DMC	N.T.S

Drawing No: D24035-DET-09
Rev: E

GCP_UKI_TitleSheet_A3_PRO_2024_v1



TERMINATION AT NEW SLAB TO EXISTING CONCRETE COLUMN
Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

BS 8102:2022
10.2.1.2 Leachates and free lime
Before a cavity drain membrane is laid or fitted on walls and floors constructed of new concrete, the concrete surface should be treated to reduce the risk of leaching of free lime or mineral salts so as to avoid the obstruction of the drainage system.

For further guidance on surface preparation, installation, and maintenance, refer to BS 8102:2022 Section 10 - Type C (drained) protection.

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 11
GCP PRODUCT APPLICATION TECHNIQUES

Originator:
GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

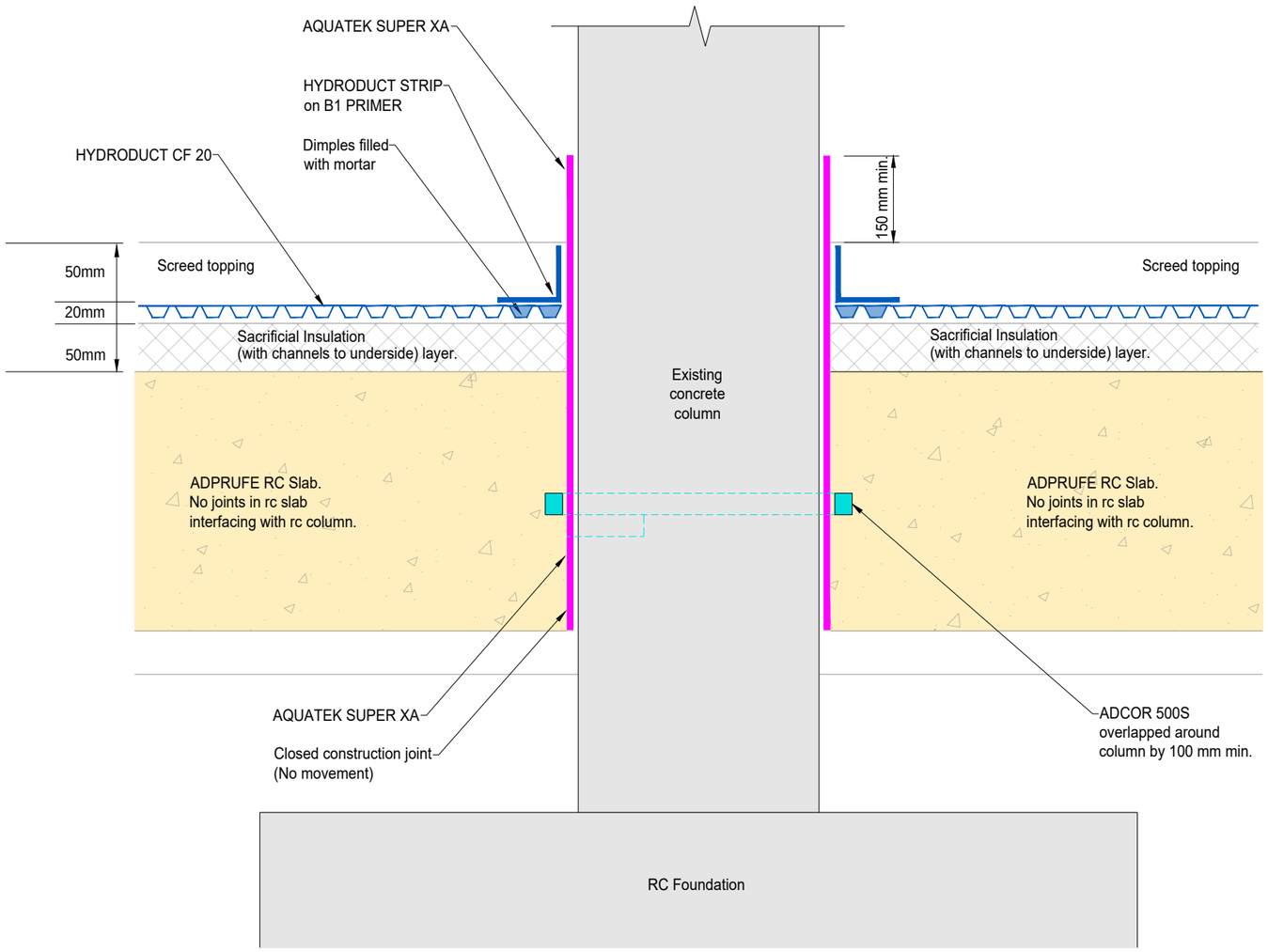
Rev:	Date:	By:	Description:
C	11-02-2025	TG	Screed changed to insulation.
B	29-01-2025	TG	Aquatek added
A	23-01-2025	TG	Omitted-PP, Aquatek. Added CF20

Status: PRELIMINARY - FOR DISCUSSION
Code: -

GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	13-12-2024	KAJ		N.T.S

Drawing No: D24035-DET-11
Rev: C

GCP_UKI_TitleSheet_A3_PRO_2024_v1



TERMINATION AT ADPRUFE SLAB EXISTING CONCRETE COLUMN
Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

BS 8102:2022
10.2.1.2 Leachates and free lime
Before a cavity drain membrane is laid or fitted on walls and floors constructed of new concrete, the concrete surface should be treated to reduce the risk of leaching of free lime or mineral salts so as to avoid the obstruction of the drainage system.

For further guidance on surface preparation, installation, and maintenance, refer to BS 8102:2022 Section 10 - Type C (drained) protection.

ADPRUFE Design Criteria
Concrete structures must be designed in accordance with BS EN 1992-1-1, BS EN 1992-1-2, BS EN 1992-3 and BS 8102, or a comparable code. Concrete containing ADPRUFE should be designed in accordance with the requirements of BS EN 1992-1-1 having a maximum crack width of 0.3mm;

Unless noted otherwise, ADPRUFE concrete minimum thickness to be 200mm.

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 12
GCP PRODUCT APPLICATION TECHNIQUES

Originator:
GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

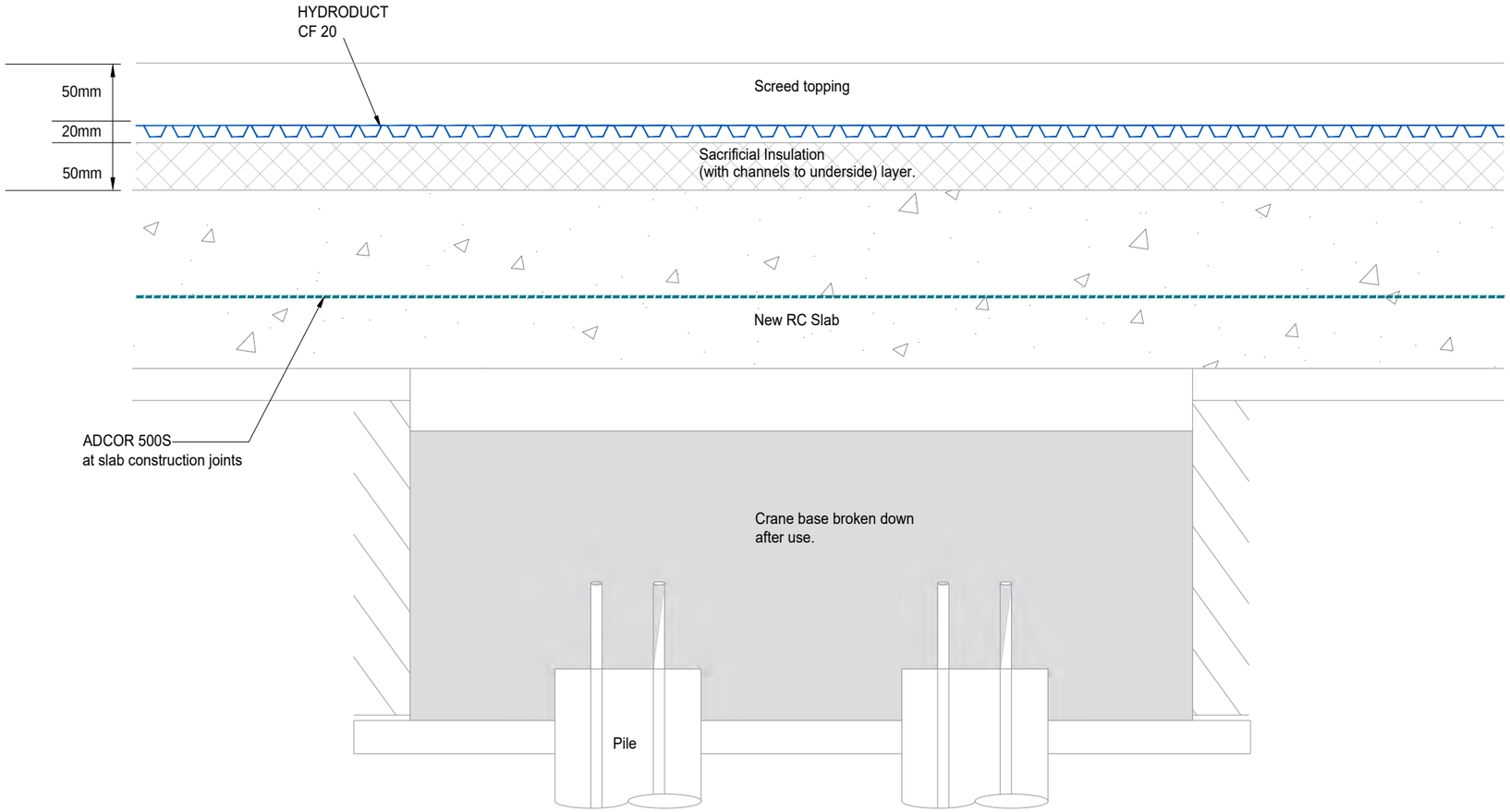
Rev:	Date:	By:	Description:
C	11-02-2025	TG	Screed changed to insulation.
B	29-01-2025	TG	Aquatek added
A	23-01-2025	TG	Omitted-PP, Aquatek. Added CF20

Status: PRELIMINARY - FOR DISCUSSION
Code: -

GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	13-12-2024	KAJ	DMC	N.T.S

Drawing No: D24035-DET-12
Rev: C

GCP_UKI_TitleSheet_A3_PRO_2024_v1



CRANE BASE PERMANENT CONDITION
Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

BS 8102:2022
10.2.1.2 Leachates and free lime
Before a cavity drain membrane is laid or fitted on walls and floors constructed of new concrete, the concrete surface should be treated to reduce the risk of leaching of free lime or mineral salts so as to avoid the obstruction of the drainage system.

For further guidance on surface preparation, installation, and maintenance, refer to BS 8102:2022 Section 10 - Type C (drained) protection.

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 13
GCP PRODUCT APPLICATION TECHNIQUES

Originator:
GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

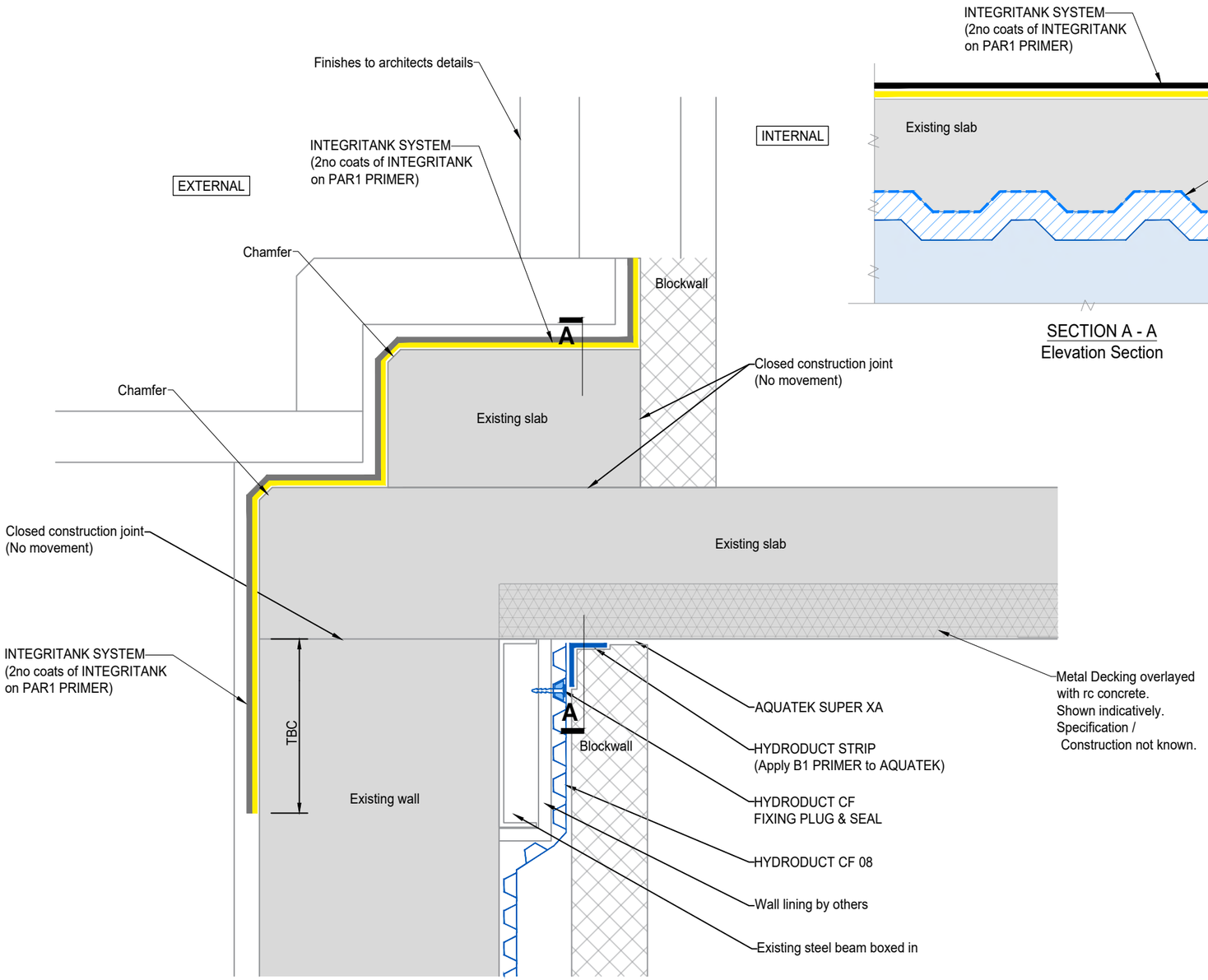
Rev:	Date:	By:	Description:
B	11-02-2025	TG	Screed changed to insulation.
A	23-01-2025	TG	General Revision

Status: PRELIMINARY - FOR DISCUSSION
Code: -

GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	13-12-2024	KAJ	DMC	N.T.S

Drawing No: D24035-DET-13
Rev: B

GCP_UKI_TitleSheet_A3_PRO_2024_v1



TERMINATION AT SOFFIT
Section

SECTION A - A
Elevation Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

Note 1
The building designer or third party responsible for the waterproofing should satisfy themselves that water cannot enter the protected structure by bypassing the detailed GCP system.

All non-GCP products shown such as screeds, mortar, insulation and other finishes are to be designed by others, taking into consideration applied loadings, material crushing strength, other manufacturers recommendations, and current British standards (not in GCP scope).

BS 8102:2022
10.1 Structural Aspects
The external elements of the structure should be capable of controlling the rate of water ingress so as not to exceed the capabilities of the cavity drain system. Water entering a drained cavity system is regulated by the structure, so defects or elements that might result in unacceptable leaks should be remedied before the system is installed.

(Elements referred to above include construction joints, movement expansion joints, dry pack joints and service penetrations).

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 14
GCP PRODUCT APPLICATION TECHNIQUES

Originator:

GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

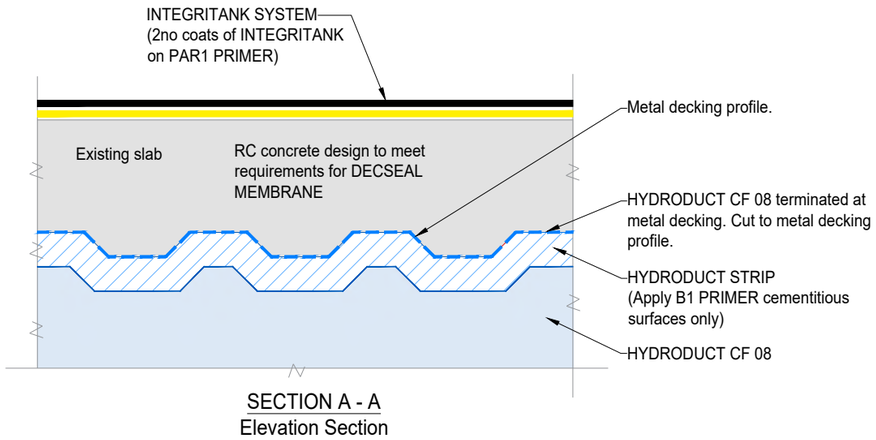
Rev:	Date:	By:	Description:
-	-	-	-

Status:	Code:
PRELIMINARY - FOR DISCUSSION	-

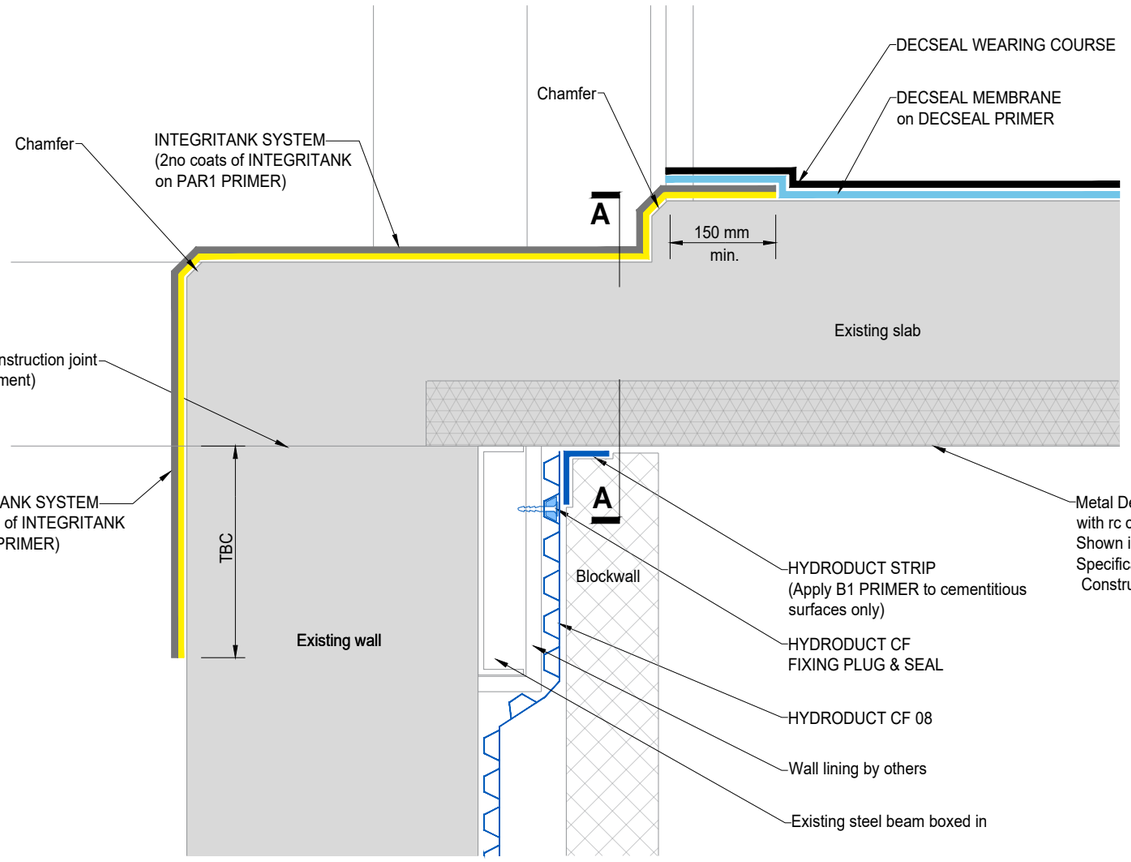
GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	18-12-2024	KAJ		N.T.S

Drawing No:	Rev:
D24035-DET-15	-

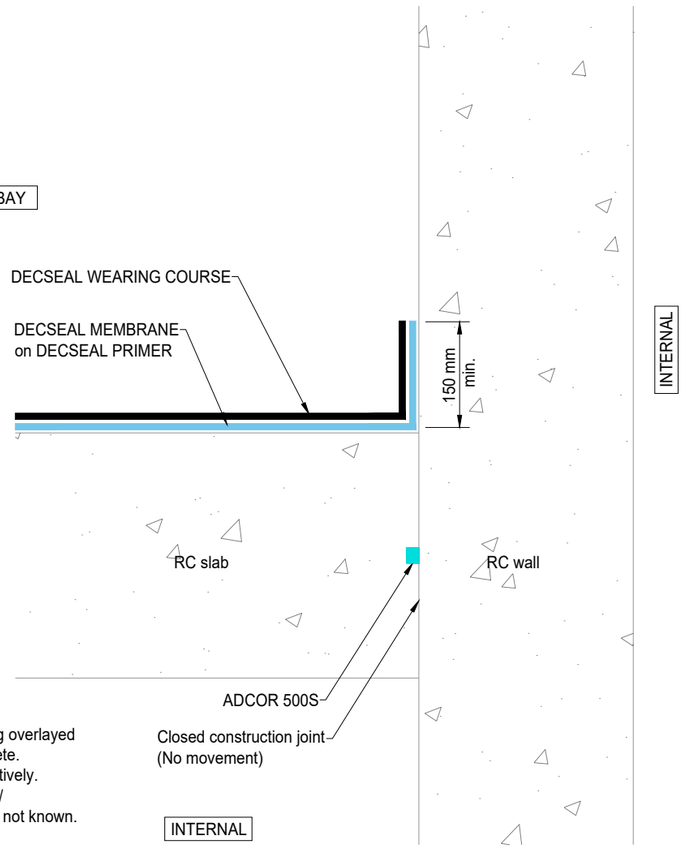
GCP_UKI_TitleSheet_A3_PRO_2024_v1



SECTION A - A
Elevation Section



TERMINATION AT SOFFIT OF LOADING BAY
Section



General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 14
GCP PRODUCT APPLICATION TECHNIQUES

Originator:

GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

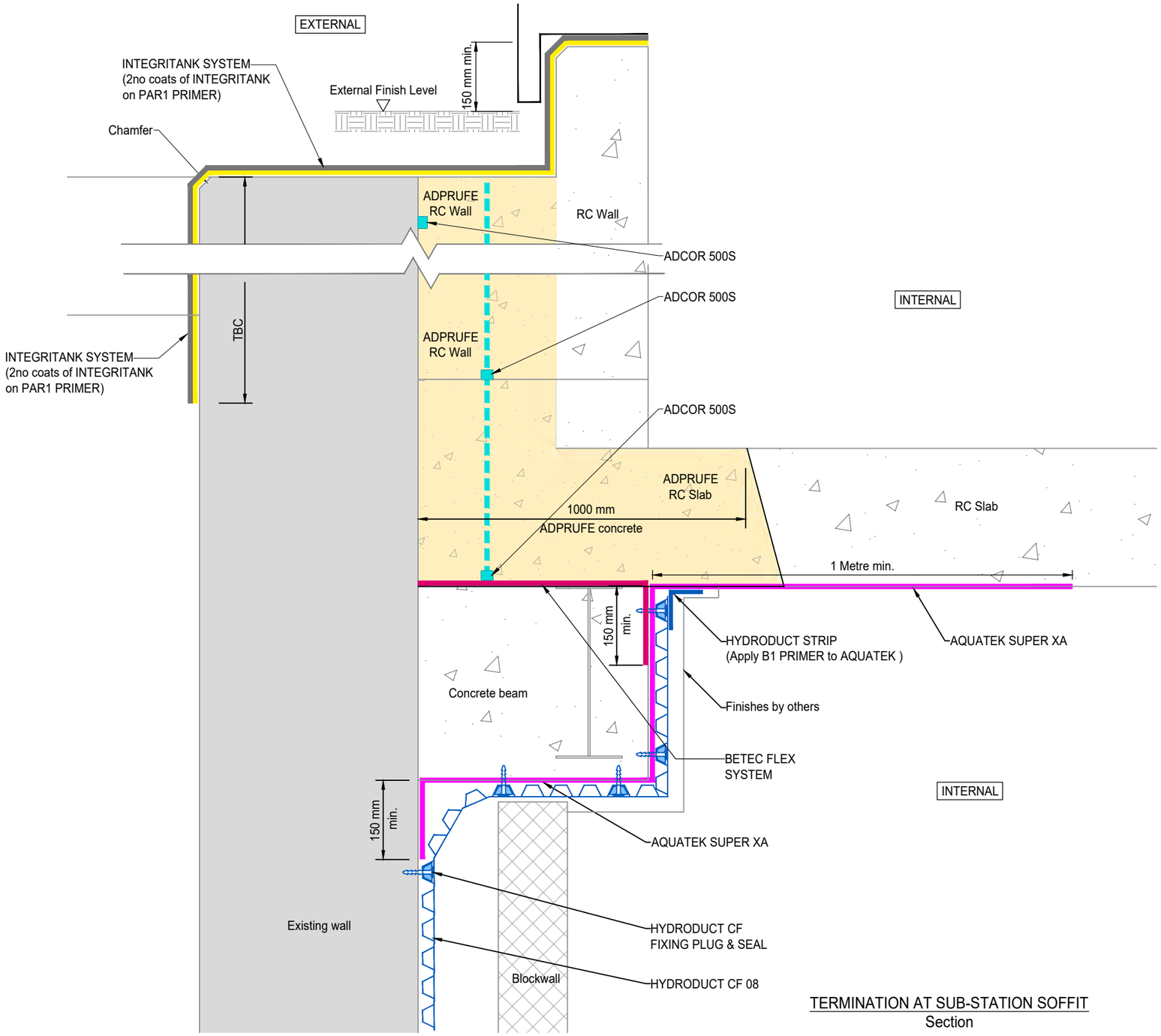
Rev:	Date:	By:	Description:
A	11-02-2025	TG	Metal deck and sec A added

Status: PRELIMINARY - FOR DISCUSSION
Code: -

GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	18-12-2024	KAJ		N.T.S

Drawing No: D24035-DET-16
Rev: A

GCP_UKI_TitleSheet_A3_PRO_2024_v1



TERMINATION AT SUB-STATION SOFFIT
Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

All non-GCP products shown such as screeds, mortar, insulation and other finishes are to be designed by others, taking into consideration applied loadings, material crushing strength, other manufacturers recommendations, and current British standards (not in GCP scope).

BS 8102:2022
10.1 Structural Aspects
The external elements of the structure should be capable of controlling the rate of water ingress so as not to exceed the capabilities of the cavity drain system. Water entering a drained cavity system is regulated by the structure, so defects or elements that might result in unacceptable leaks should be remedied before the system is installed.

(Elements referred to above include construction joints, movement expansion joints, dry pack joints and service penetrations).

ADPRUFE Design Criteria
Concrete structures must be designed in accordance with BS EN 1992-1-1, BS EN 1992-1-2, BS EN 1992-3 and BS 8102, or a comparable code. Concrete containing ADPRUFE should be designed in accordance with the requirements of BS EN 1992-1-1 having a maximum crack width of 0.3mm;

Unless noted otherwise, ADPRUFE concrete minimum thickness to be 200mm.

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 14
GCP PRODUCT APPLICATION TECHNIQUES

Originator:

GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

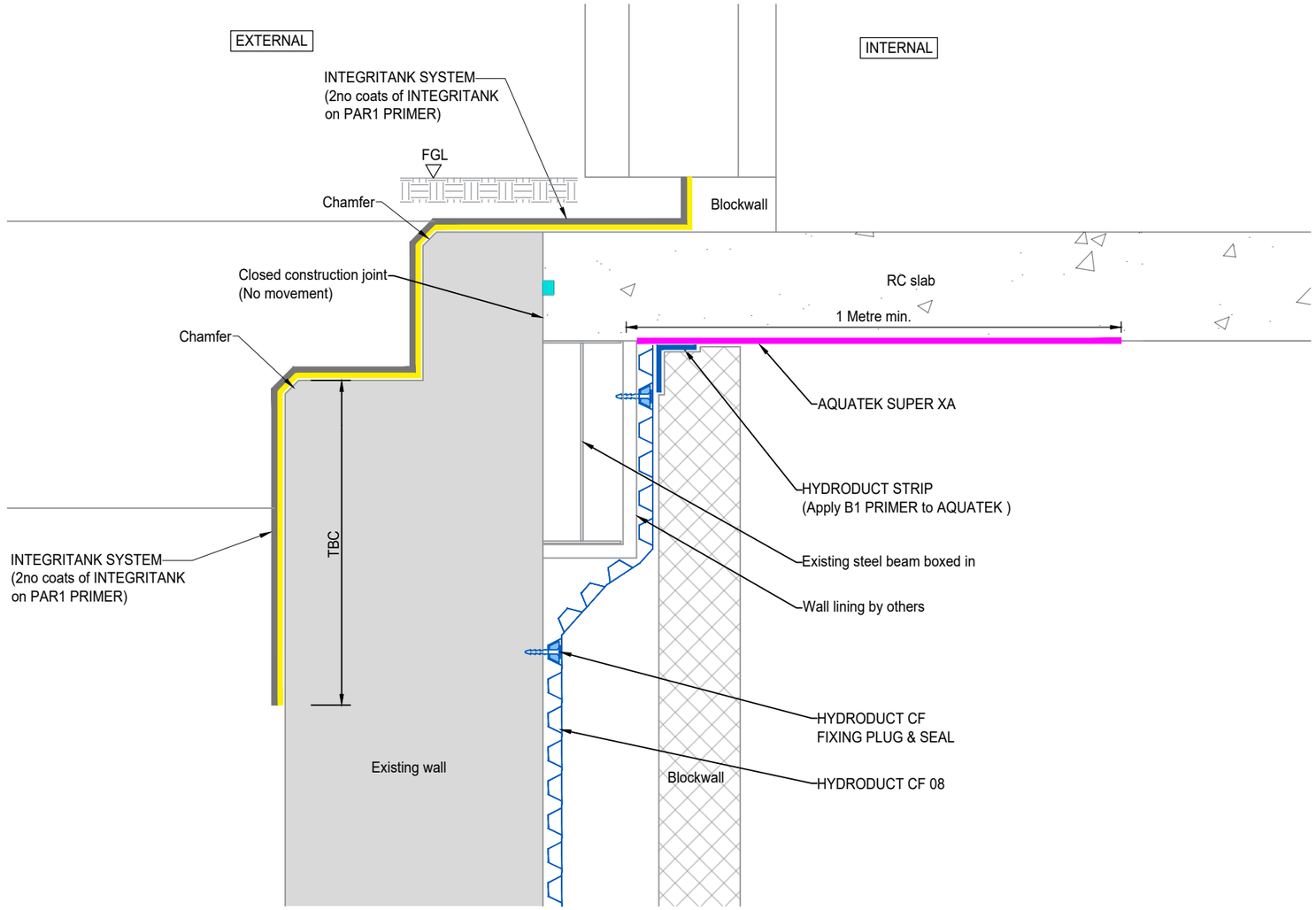
Rev:	Date:	By:	Description:
-	-	-	-

Status: PRELIMINARY - FOR DISCUSSION
Code: -

GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	18-12-2024	KAJ		N.T.S

Drawing No: D24035-DET-17
Rev: -

GCP_UKI_TitleSheet_A3_PRO_2024_v1



TERMINATION AT MARKET HALL SOFFIT
Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

Note 1
The building designer or third party responsible for the waterproofing should satisfy themselves that water cannot enter the protected structure by bypassing the detailed GCP system.

All non-GCP products shown such as screeds, mortar, insulation and other finishes are to be designed by others, taking into consideration applied loadings, material crushing strength, other manufacturers recommendations, and current British standards (not in GCP scope).

BS 8102:2022
10.1 Structural Aspects
The external elements of the structure should be capable of controlling the rate of water ingress so as not to exceed the capabilities of the cavity drain system. Water entering a drained cavity system is regulated by the structure, so defects or elements that might result in unacceptable leaks should be remedied before the system is installed.

(Elements referred to above include construction joints, movement expansion joints, dry pack joints and service penetrations).

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 14
GCP PRODUCT APPLICATION TECHNIQUES

Originator:
GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

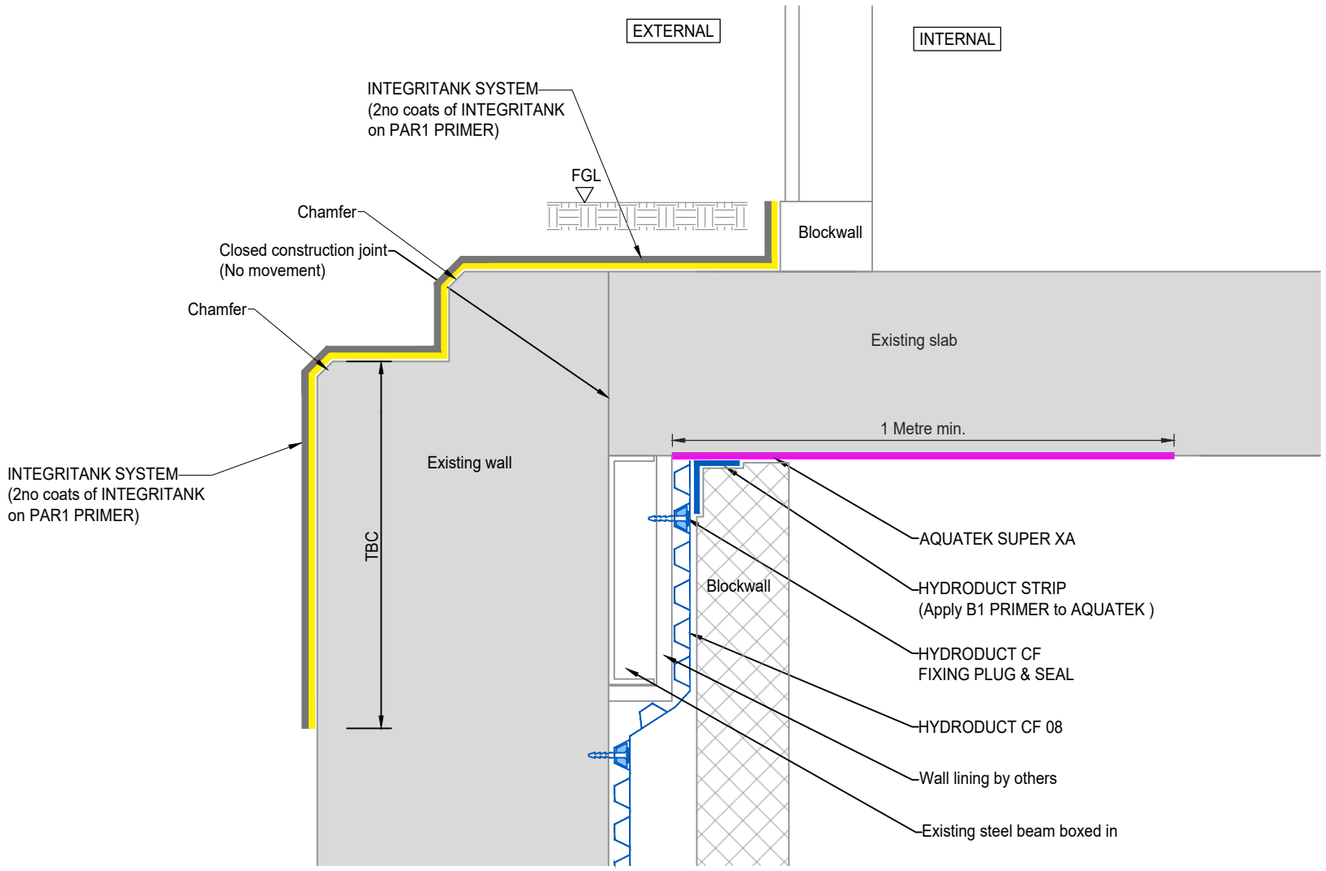
Rev:	Date:	By:	Description:
-	-	-	-

Status: PRELIMINARY - FOR DISCUSSION
Code: -

GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	18-12-2024	KAJ		N.T.S

Drawing No: D24035-DET-18
Rev: -

GCP_UKI_TitleSheet_A3_PRO_2024_v1



TERMINATION AT SOFFIT
Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 14
GCP PRODUCT APPLICATION TECHNIQUES

Originator:

GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

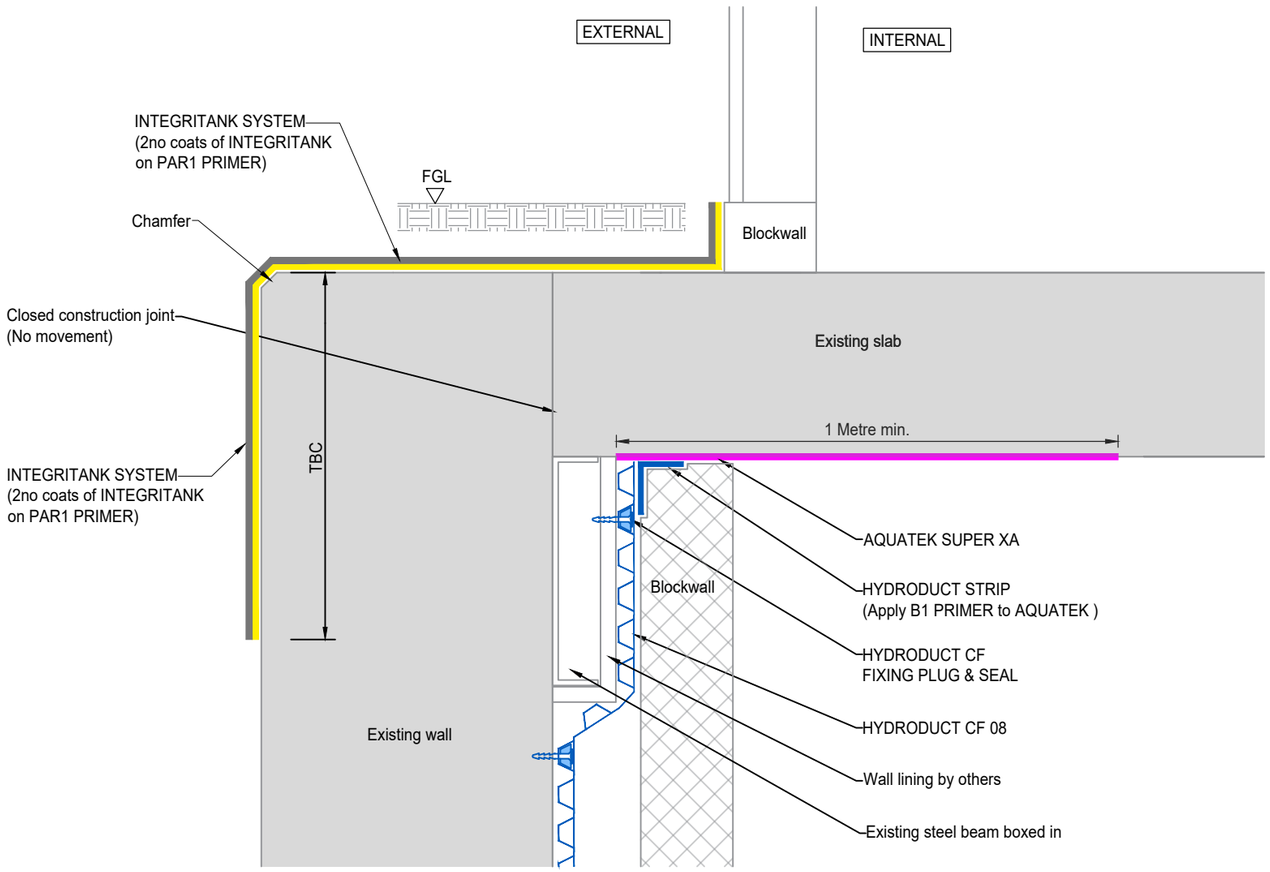
This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

Rev:	Date:	By:	Description:
-	-	-	-

Status: PRELIMINARY - FOR DISCUSSION
Code: -

GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	18-12-2024	KAJ		N.T.S

Drawing No: D24035-DET-19
Rev: -



TERMINATION AT PLANT AREA SOFFIT
Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

Note 1
The building designer or third party responsible for the waterproofing should satisfy themselves that water cannot enter the protected structure by bypassing the detailed GCP system.

All non-GCP products shown such as screeds, mortar, insulation and other finishes are to be designed by others, taking into consideration applied loadings, material crushing strength, other manufacturers recommendations, and current British standards (not in GCP scope).

BS 8102:2022
10.1 Structural Aspects
The external elements of the structure should be capable of controlling the rate of water ingress so as not to exceed the capabilities of the cavity drain system. Water entering a drained cavity system is regulated by the structure, so defects or elements that might result in unacceptable leaks should be remedied before the system is installed.

(Elements referred to above include construction joints, movement expansion joints, dry pack joints and service penetrations).

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 14
GCP PRODUCT APPLICATION TECHNIQUES

Originator:
GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

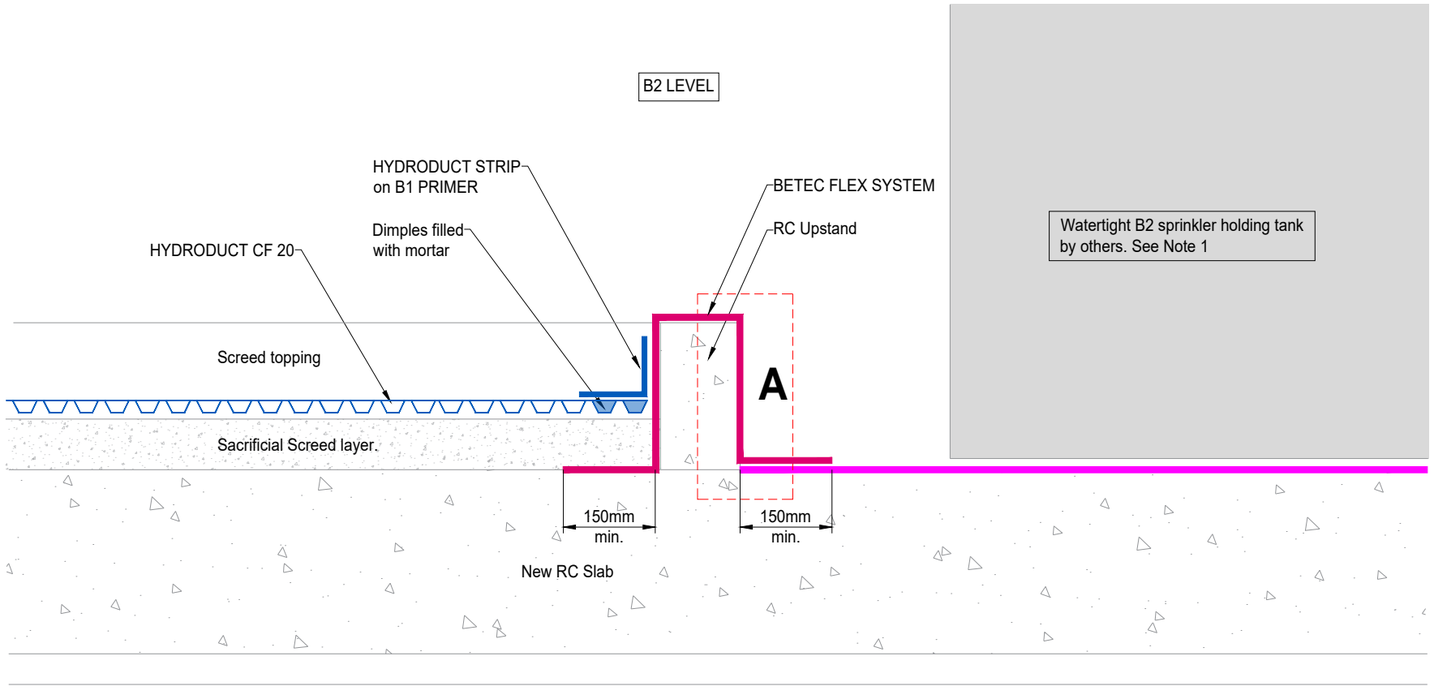
This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

Rev:	Date:	By:	Description:
-	-	-	-

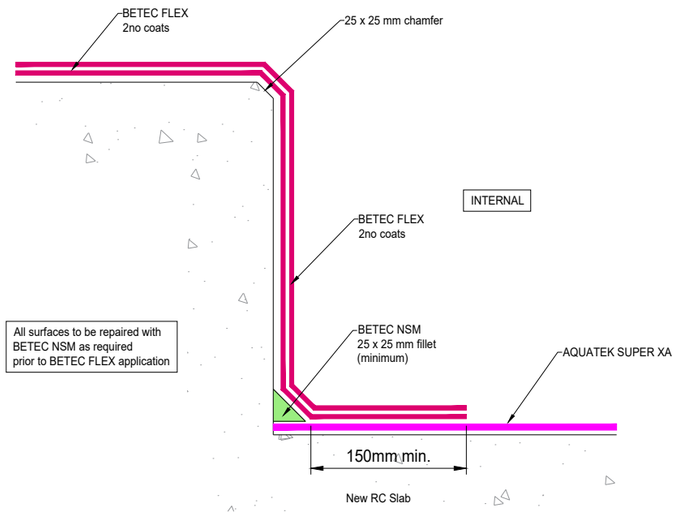
Status:	Code:
PRELIMINARY - FOR DISCUSSION	-

GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	18-12-2024	KAJ		N.T.S

Drawing No:	Rev:
D24035-DET-20	-



B2 SPRINKLER TANK ROOM
Section



A BETEX FLEX / AQUATEK SUPER XA
INTERNAL & EXTERNAL CORNERS - HORIZONTAL APPLICATION
Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

Note 1
GCP systems shown are detailed to prevent external ground water from entering the structure only, and not to retain liquid within the B2 sprinkler tank (by others- not in GCP scope).

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 21
GCP PRODUCT APPLICATION TECHNIQUES

Originator:
GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP
T: +44 (0)1753 944200
E: info-gb@gcpat.com
www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

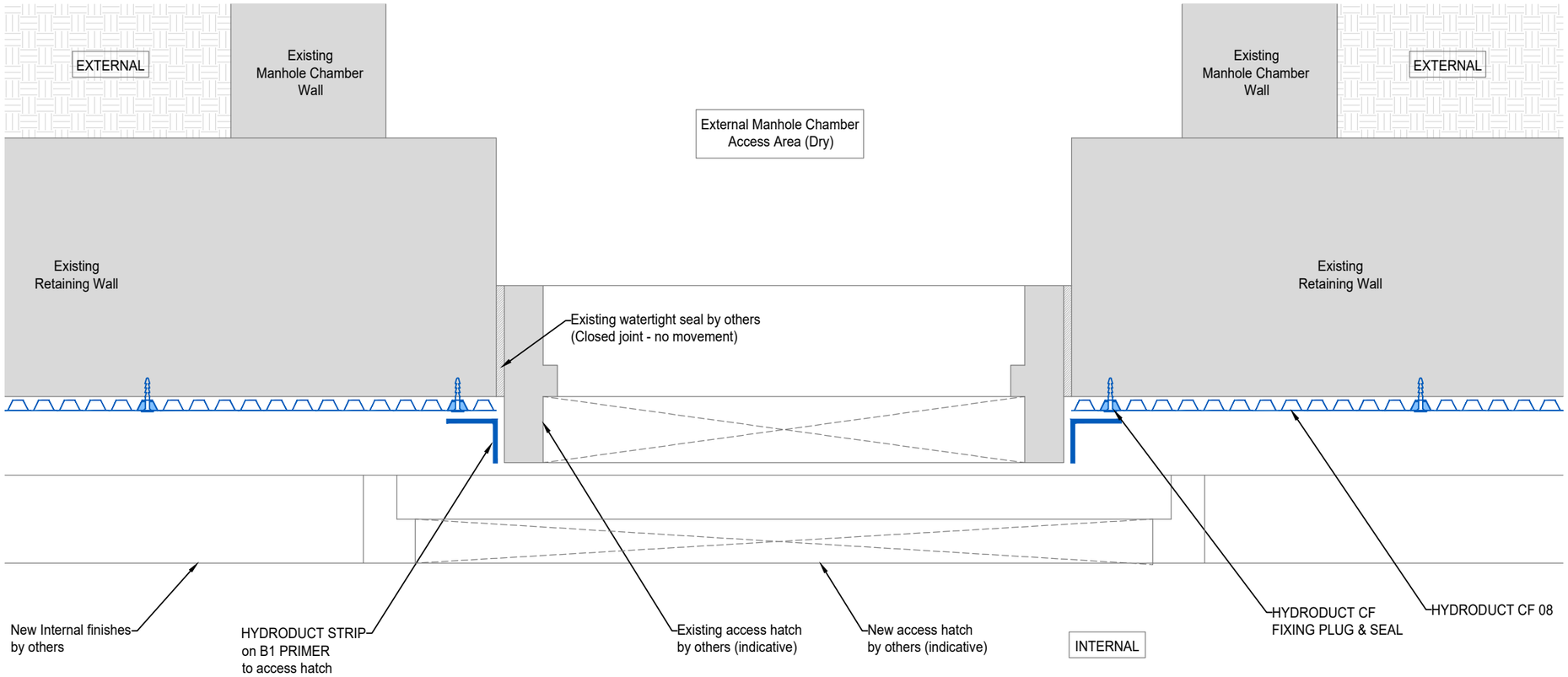
Rev:	Date:	By:	Description:
A	28-02-2025	KAJ	-

Status: PRELIMINARY - FOR DISCUSSION
Code: -

GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	29-01-2025	TG		N.T.S

Drawing No: D24035-DET-21
Rev: A

GCP_UKI_TitleSheet_A3_PRO_2024_v1



EXTERNAL MANHOLE CHAMBER ACCESS HATCH
Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 22
GCP PRODUCT APPLICATION TECHNIQUES

Originator:

GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

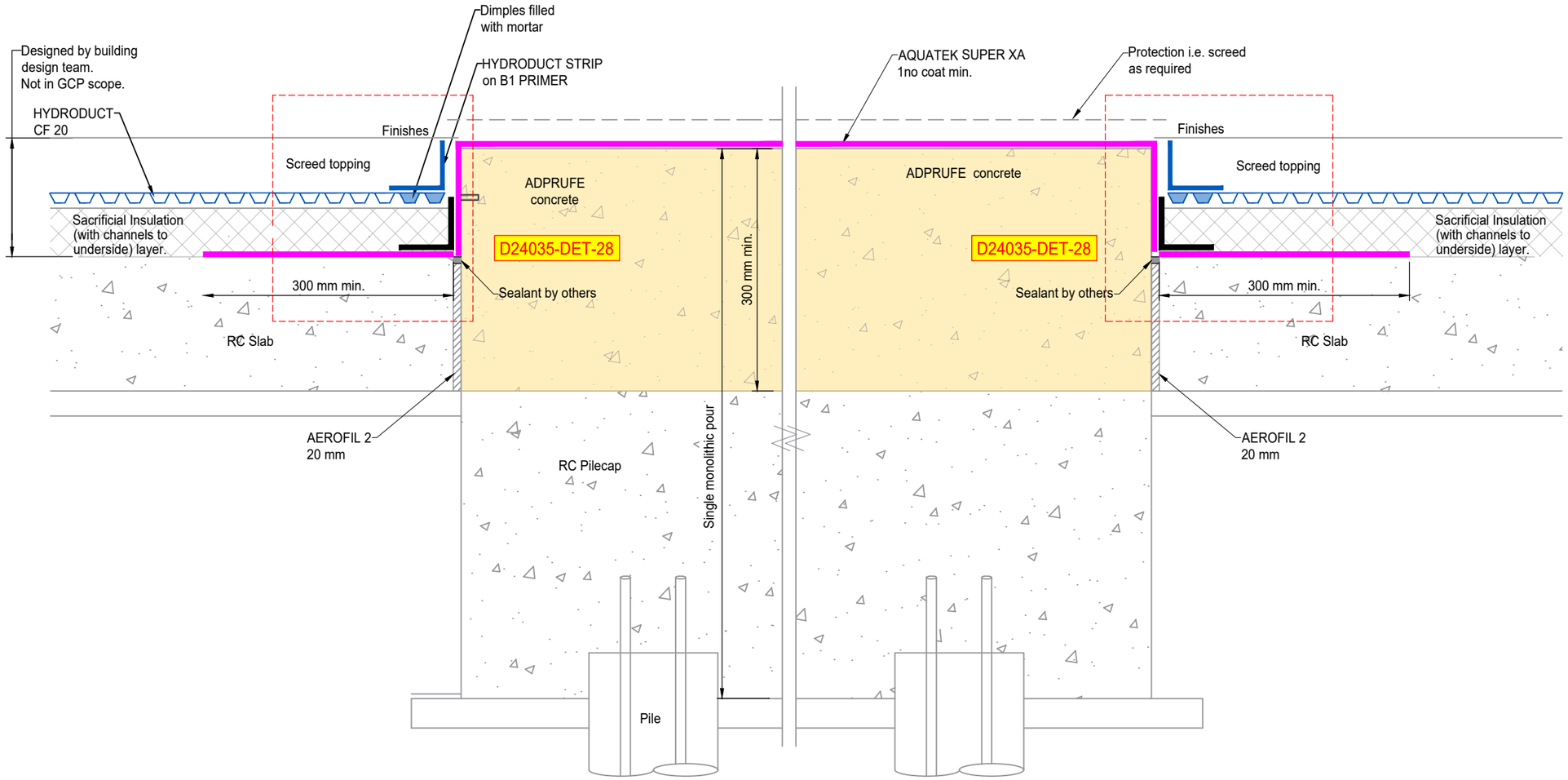
Rev:	Date:	By:	Description:
-	-	-	-

Status: PRELIMINARY - FOR DISCUSSION
Code: -

GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	03-02-2025	DMC		N.T.S

Drawing No: D24035-DET-22
Rev: -

GCP_UK1_TitleSheet_A3_PRO_2024_v1



TYPICAL PILECAP / CORE
Section

General Notes & Guidance

ADPRUFE Design Criteria
Concrete structures must be designed in accordance with BS EN 1992-1-1, BS EN 1992-1-2, BS EN 1992-3 and BS 8102, or a comparable code. Concrete containing ADPRUFE should be designed in accordance with the requirements of BS EN 1992-1-1 having a maximum crack width of 0.3mm;

Unless noted otherwise, ADPRUFE concrete minimum thickness to be 200mm.

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

BS 8102:2022
10.2.1.2 Leachates and free lime
Before a cavity drain membrane is laid or fitted on walls and floors constructed of new concrete, the concrete surface should be treated to reduce the risk of leaching of free lime or mineral salts so as to avoid the obstruction of the drainage system.

For further guidance on surface preparation, installation, and maintenance, refer to BS 8102:2022 Section 10 - Type C (drained) protection.

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 23
GCP PRODUCT APPLICATION TECHNIQUES

Originator:
GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

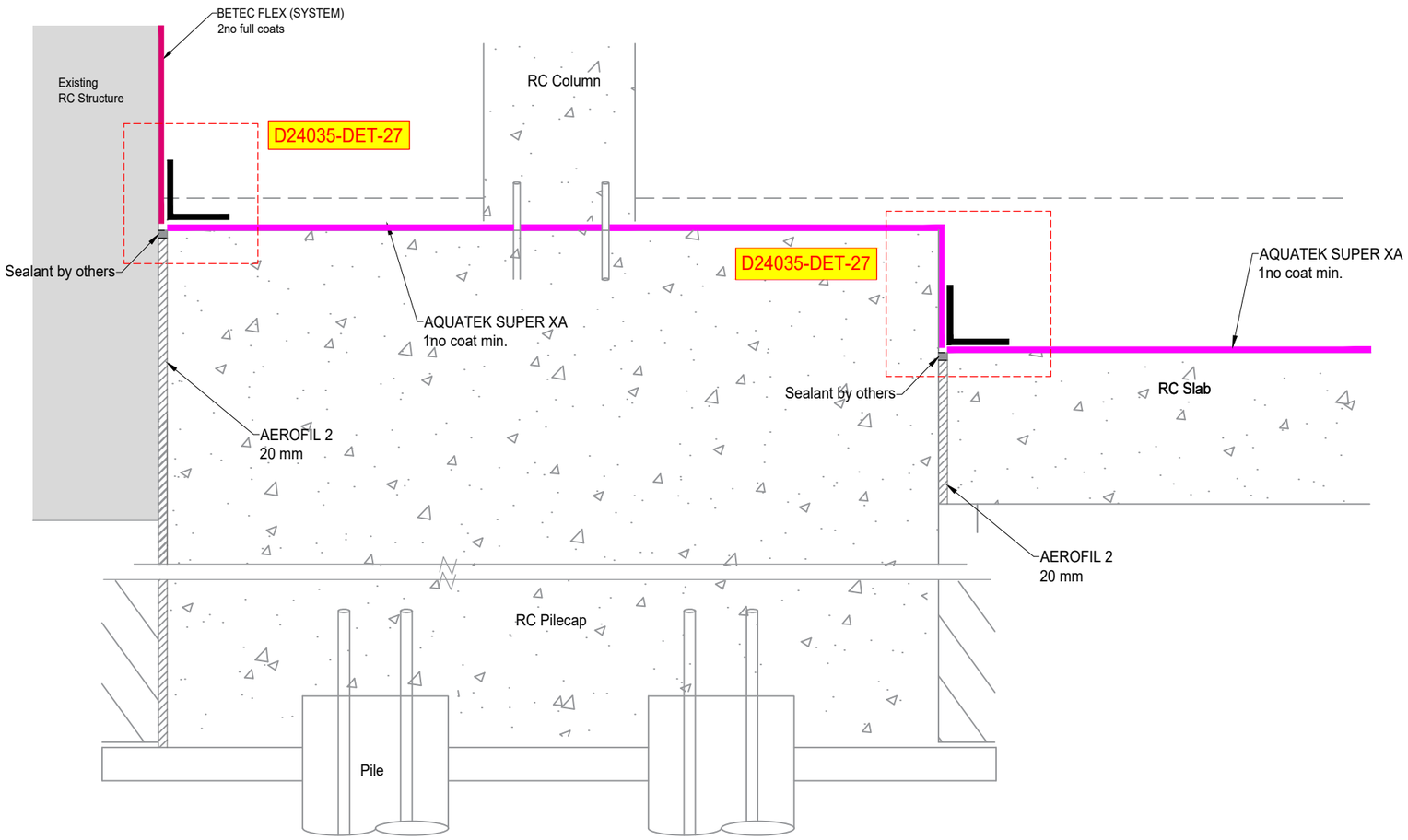
Rev:	Date:	By:	Description:
B	25-04-2025	KAJ	
A	22-04-2025	KAJ	-

Status:	Code:
PRELIMINARY - FOR DISCUSSION	-

GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	11-02-2025	TG		N.T.S

Drawing No:	Rev:
D24035-DET-23	B

GCP_UK1_TitleSheet_A3_PRO_2024_v1



TYPICAL PILECAP / CORE
Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

All non-GCP products shown such as screeds, mortar, insulation and other finishes are to be designed by others, taking into consideration applied loadings, material crushing strength, other manufacturers recommendations, and current British standards (not in GCP scope).

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 24
GCP PRODUCT APPLICATION TECHNIQUES

Originator:

GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

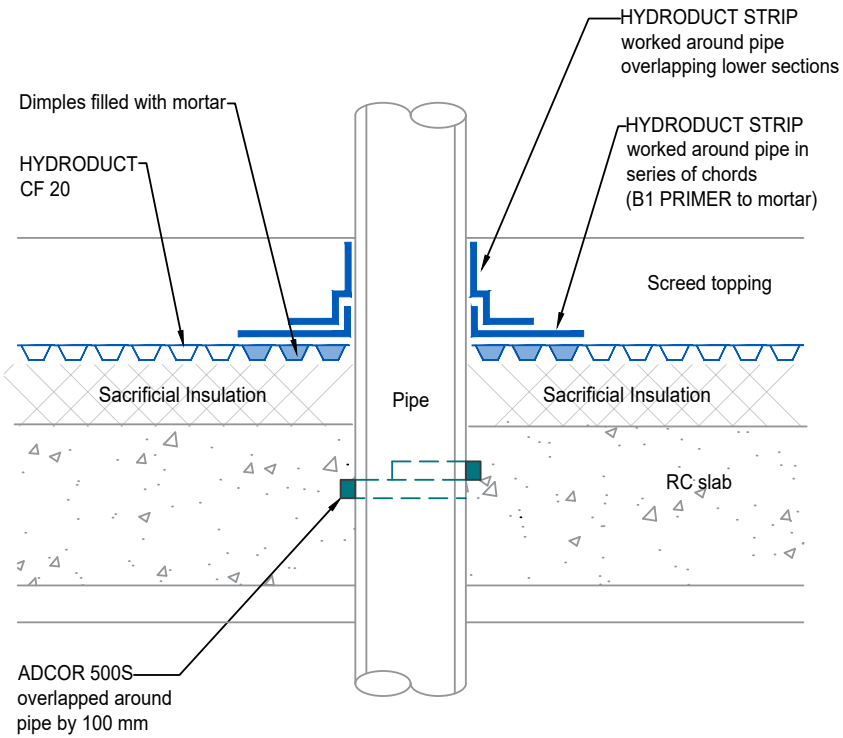
Rev:	Date:	By:	Description:
A	22-04-2025	KAJ	-

Status: PRELIMINARY - FOR DISCUSSION
Code: -

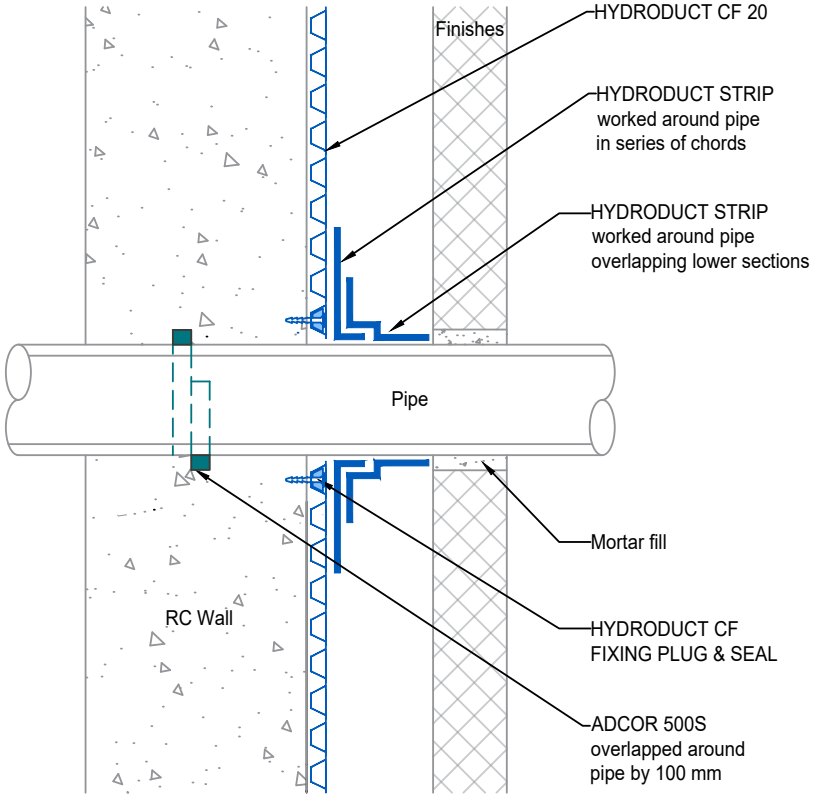
GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	11-02-2025	TG		N.T.S

Drawing No: D24035-DET-24
Rev: A

GCP_UKI_TitleSheet_A3_PRO_2024_v1



PIPE PENETRATION THROUGH SLAB
Section



PIPE PENETRATION THROUGH WALL
Section

General Notes & Guidance:

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes:

10.2.1.2 Leachates and free lime
Before a cavity drain membrane is laid or fitted on walls and floors constructed of new concrete, the concrete surface should be treated to reduce the risk of leaching of free lime or mineral salts so as to avoid the obstruction of the drainage system.

For further guidance on surface preparation, installation, and maintenance, refer to BS 8102:2022.

SWC
STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 04
GCP PRODUCT APPLICATION TECHNIQUES

Status: PRELIMINARY - FOR DISCUSSION
Code: -

GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035				N.T.S

Drawing No: D24035-DET-25
Rev:

Originator:

GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP

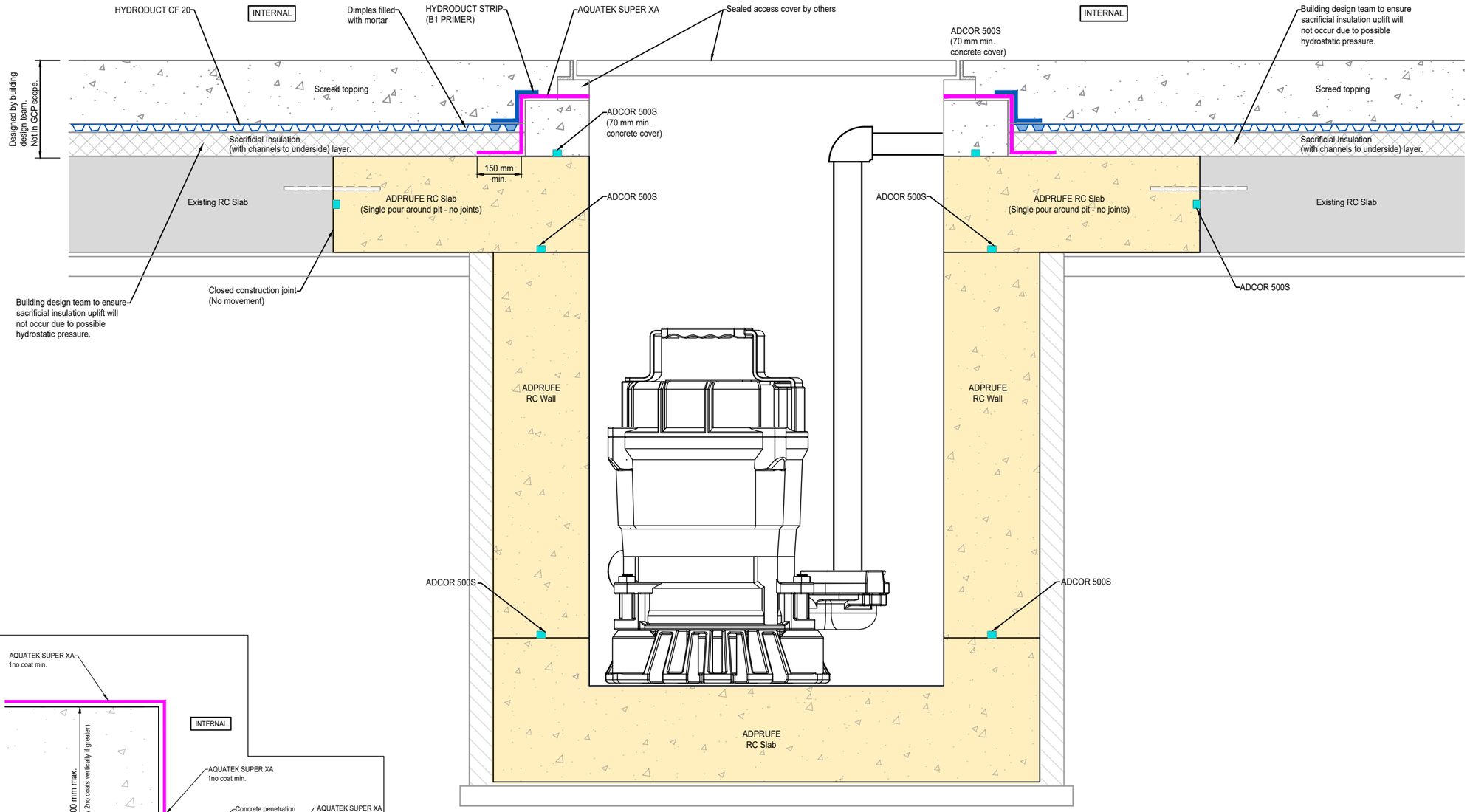
T: +44 (0)1753 944200
E: info-gb@gcpat.com

www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

GCP_UKI TitleSheet_A3 PRO_2024 v1



TYPICAL SUMP CHAMBER DETAIL
Section

A TYPICAL - AQUATEK SUPER XA
INTERNAL & EXTERNAL CORNERS - HORIZONTAL APPLICATION
Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

ADPRUFE Design Criteria
Concrete structures must be designed in accordance with BS EN 1992-1-1, BS EN 1992-1-2, BS EN 1992-3 and BS 8102, or a comparable code. Concrete containing ADPRUFE should be designed in accordance with the requirements of BS EN 1992-1-1 having a maximum crack width of 0.3mm; water retaining structures should be designed in accordance with BS EN 1992-3 having a maximum crack width of 0.2 mm, when the hydrostatic Pressure/wall thickness is ≤ 5.

Unless noted otherwise, ADPRUFE concrete minimum thickness to be 200mm.

The building designer or third party responsible for the waterproofing should satisfy themselves that water cannot enter the protected structure by bypassing the detailed GCP system.

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 26
GCP PRODUCT APPLICATION TECHNIQUES

Status:	Code:
PRELIMINARY - FOR DISCUSSION	-

GCP Ref:	Date:	Drawn:	Check:	Scale@A2:
D24035	18-03-2025	KAJ	DMC	N.T.S

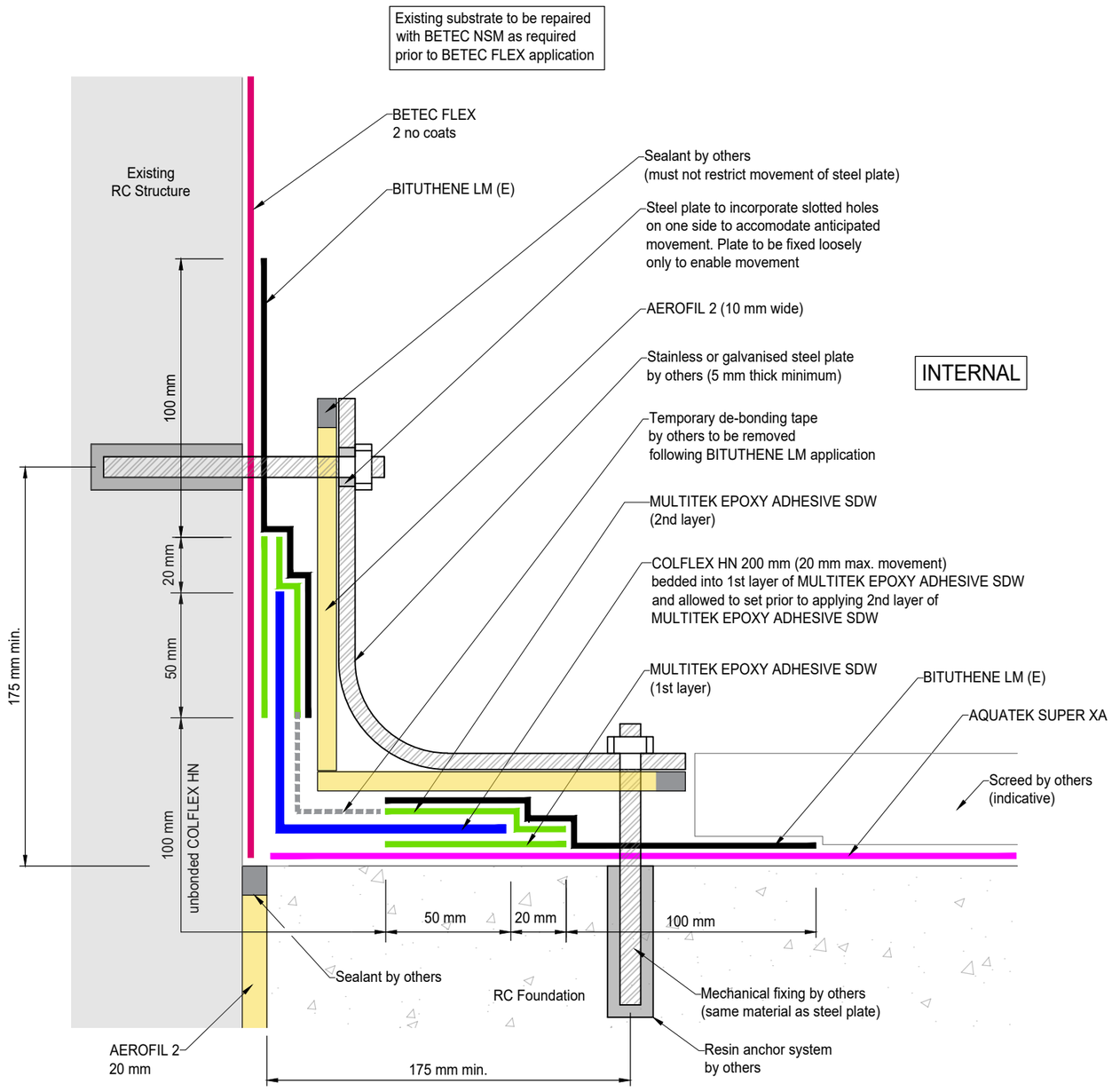
Drawing No: D24035-DET-26
Rev: -

Rev:	Date:	By:	Description:
-	-	-	-

Originator:
GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road, Slough,
Berkshire, SL1 4EP, UK
www.gcpat.uk
T: +44 (0)1753 944200
E: info-gb@gcpat.com

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.



A MOVEMENT JOINT AT EXISTING WALL - COLFLEX HN
Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

All non-GCP products shown such as screeds, mortar, insulation and other finishes are to be designed by others, taking into consideration applied loadings, material crushing strength, other manufacturers recommendations, and current British standards (not in GCP scope).

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 27
GCP PRODUCT APPLICATION TECHNIQUES

Originator:
GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road,
Slough, Berkshire, SL1 4EP
T: +44 (0)1753 944200
E: info-gb@gcpat.com
www.gcpat.uk

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

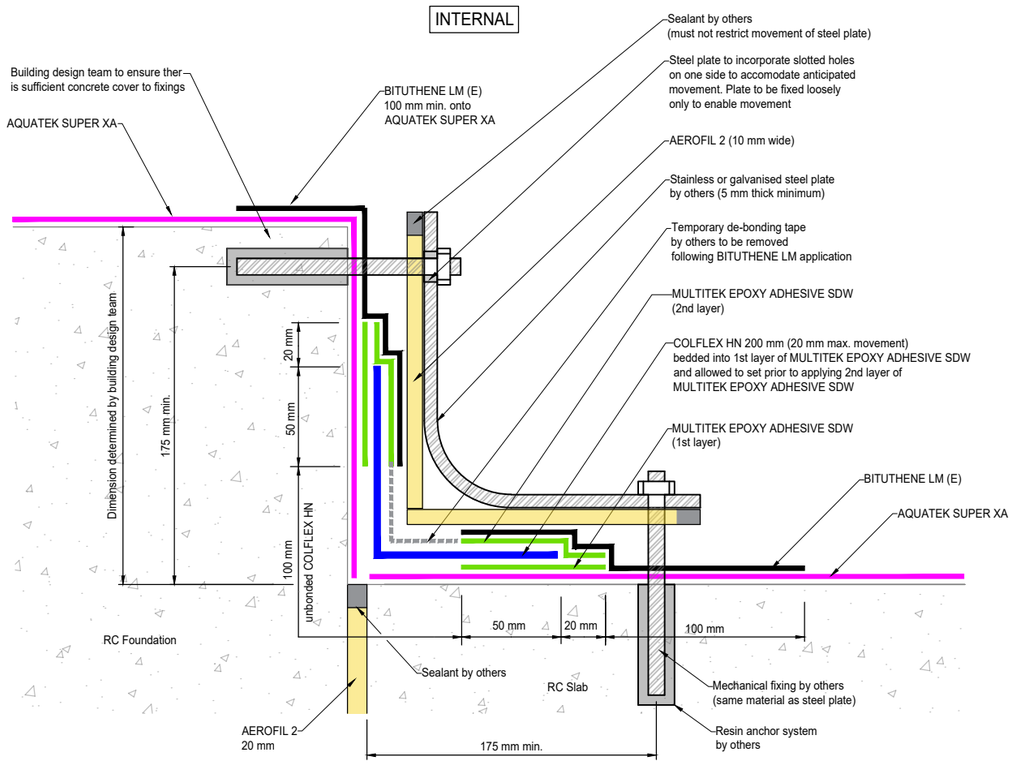
Rev:	Date:	By:	Description:
-	-	-	-

Status:	Code:
PRELIMINARY - FOR DISCUSSION	-

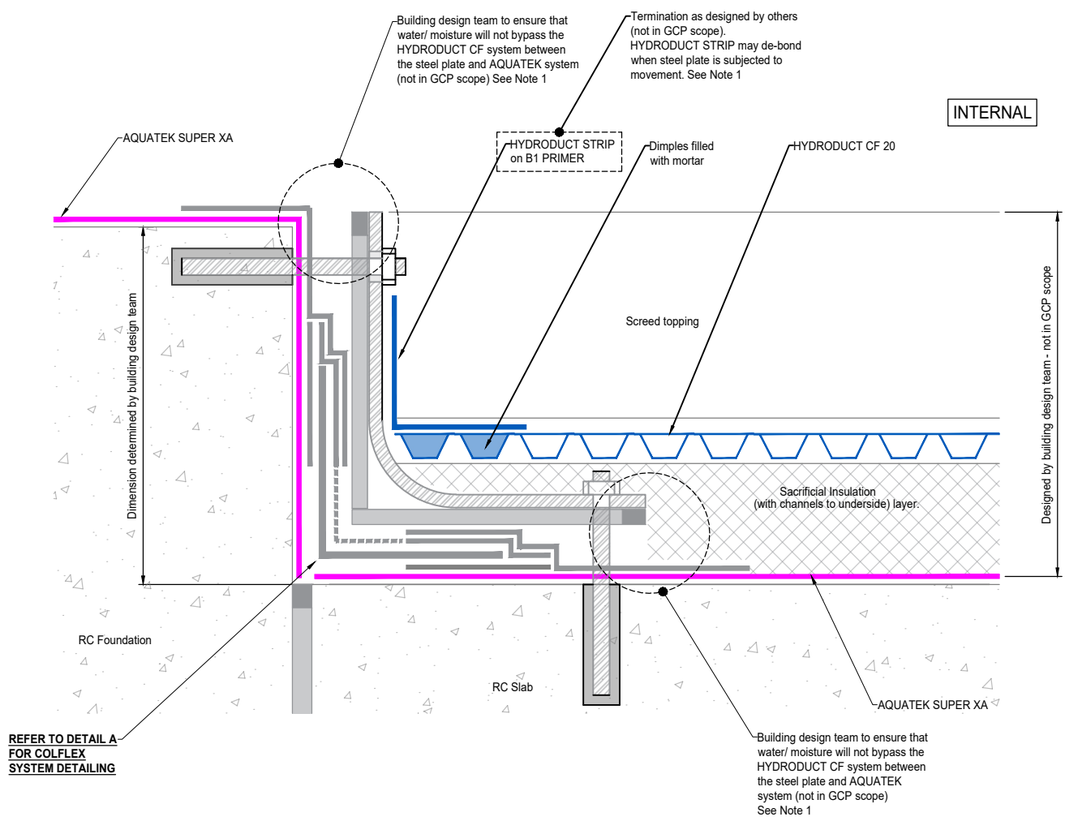
GCP Ref:	Date:	Drawn:	Check:	Scale@A3:
D24035	22-04-2025	KAJ	DMC	N.T.S

Drawing No:	Rev:
D24035-DET-27	-

GCP_UK1_TitleSheet_A3_PRO_2024_v1



A MOVEMENT JOINT BETWEEN FOUNDATION AND SLAB - COLFLEX HN
Section



B MOVEMENT JOINT BETWEEN FOUNDATION AND SLAB WITH FINISHES
Section

General Notes & Guidance

For those third parties responsible for the design of the waterproofing system, such parties must ensure the proposed system and details shown herein are brought to the attention of those responsible for the overall design of the structure, to ensure compatibility of the waterproofing system and detailing with all elements of the structural design. Final decisions, acceptance and any recommendations must be approved in writing between such responsible parties.

For product installation, this drawing is to be read in conjunction with all relevant product data sheets and application guidelines.

Drawing Notes

STRUCTURAL WATERPROOFING CONTRACTS

Project Name:
RYLANDS BUILDING

Client:
DOMIS CONSTRUCTION

Description:
DETAIL DRAWING SHEET 28
GCP PRODUCT APPLICATION TECHNIQUES

Originator:
GCP APPLIED TECHNOLOGIES
487/488 Ipswich Road, Slough, Berkshire, SL1 4EP, UK
www.gcpat.uk
T: +44 (0)1753 944200
E: info-gb@gcpat.com

Products referenced are trademarks which may be registered in the United States and/ or other countries, of GCP Applied Technologies Inc. This is based on available published information as of the publication date and may not accurately reflect current trademark ownership or status. These products may be covered by patents or patents pending.

This drawing is Copyright 2024 of GCP Applied Technologies. Permission for copying is granted only to employees, authorised representatives, customers, and specifiers to support the sale or use of GCP Applied Technologies products. All other rights are reserved.

Rev:	Date:	By:	Description:
A	25-04-2025	KAJ	-

Status:				Code:
PRELIMINARY - FOR DISCUSSION				-
GCP Ref:	Date:	Drawn:	Check:	Scale@A2:
D24035	22-04-2025	KAJ	DMC	N.T.S
Drawing No:				Rev:
D24035-DET-28				A

GCP_UKI_TitleSheet_A2_PRO_2024_v2