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15th October 2020
Reference: WH-0235525B

RE: Walker Art Gallery

For the attention of Elgan Jones

Dear Elgan Jones

Further to the site visit on the 10 August 2020, this document has been compiled for your attention by Wayne Hughes MIoR of W H Coatings Ltd, it is based on the information gathered during recent discussions and is intended to provide details relating to the treatment of the asphalt roof area(s) in question.

Quality and innovation are just two of the characteristics replicated throughout Sika Liquid Plastics – visible in our products, manufacturing processes, and technical support.

For over 50 years we have produced an extensive range of high performance, technologically advanced coatings and membranes for the protection and waterproofing of roofs, walls and balconies, and for hygiene control. These products are leaders in their fields because of their unique properties and ability to outlast and outperform traditional counterparts. Also available is a complete range of cold applied built-up roofing systems including warm roofs, inverted roofs, and green roof finishes.

As a member of the Sika worldwide group of companies, the demand for Sika Liquid Plastics' products stretches across the globe and many successful projects have been completed in the Middle East, USA, and Europe.

We are leading the way with innovative products for the future, as the construction industry evolves towards safer applications and protection systems with design lives as long as the building itself.

For more information about our products and the wide range of approvals and accreditations we have achieved, please visit our website at www.liquidplastics.co.uk.

This specification should be read in conjunction with the relevant product data sheets and all named appendices.

This specification is valid for a period of 12 months, after which a further site survey should be carried out to ensure that the suggested solutions are still fit for purpose.

Any variations to this specification must be confirmed by Sika Liquid Plastics to ensure the suitability of the proposed change and any impact this may have on any guarantees offered or implied. As part of Sika Liquid Plastics' continuous product development, we retain the right to alter our product specifications in accordance

with relevant national and international standards without notice.

The specified system is designed utilising cold applied Sika Liquid Plastics products and intended to avoid the use of hot works.

However, should the installing contractor require use of any heat or hot works during installation for preparation or drying, care should be taken and all hot works must be carried out with the clients permission and in strict accordance with Health & Safety Guidelines with particular reference to Safe2Torch. A comprehensive guidance document can be found on the NFRC website: https://www.nfrc.co.uk/safe2torch.

We trust this is of assistance to you. If we can be of further help on this, or any other project, please contact me on 07714 424617.

Kind regards

Wayne Hughes MIoR

ATM - Roofing Refurbishment

John Moore

Technical Advisor

PROJECT PROPOSAL

DONALD INSALL ASSOCIATES - CONWY

PROJECT: **WALKER ART GALLERY**

PROJECT REF: **WH-0235525B**

DATE: **15 OCTOBER 2020**

Liquid Plastics

REVISION HISTORY

Date: 09 September 2020

Reason: ASM Request

Narrative: Add roof plan

CONTACT SHEET

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Date:	15 October 2020

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1. CDM REGULATIONS

The Construction (Design and Management) Regulations (CDM) are about the management of health and safety and apply to everyone associated with construction projects including the client. Regulations 4 and 5 state that it is the client's duty to make suitable arrangements for managing a project and maintaining and reviewing them for its duration so that it is carried out in a way that manages the health and safety risks involved. For projects involving more than one contractor, these regulations require the client to appoint a Principal Designer and Principal Contractor and to make sure that they carry out their duties. It is also the client's responsibility to engage a competent team that can include Contractors, Designers and Sub-Contractors and to provide all duty holders the appropriate information at the appropriate time.

For further information on the requirements of the CDM Regulations visit
http://www.hse.gov.uk/pubns/books/l153.htm for free guidance.

All construction projects will have to comply with the CDM Regulations, however Regulation 6 states that the HSE or other relevant enforcing authority, do not need to be notified about all of them. Notifiable projects are projects that:

- last longer than 30 working days and have more than 20 workers working simultaneously at any point in the project; or
- exceed 500 person days

The easiest way to notify any project to the HSE or other relevant enforcing authority is to use the online notification form F10 on the HSE's website. Further information on how to notify construction work can be found at:
www.hse.gov.uk/construction/cdm/faq/notification.htm.

Clients, Designers and Contractors still have responsibilities for those projects that the HSE does not require notification on.

Sika Limited does not fulfil the role of the Principal Designer and therefore preparation for the proposed specification and subsequent works should only commence when all parties involved with the design and execution of the works are satisfied the appropriate CDM regulations have been fulfilled.

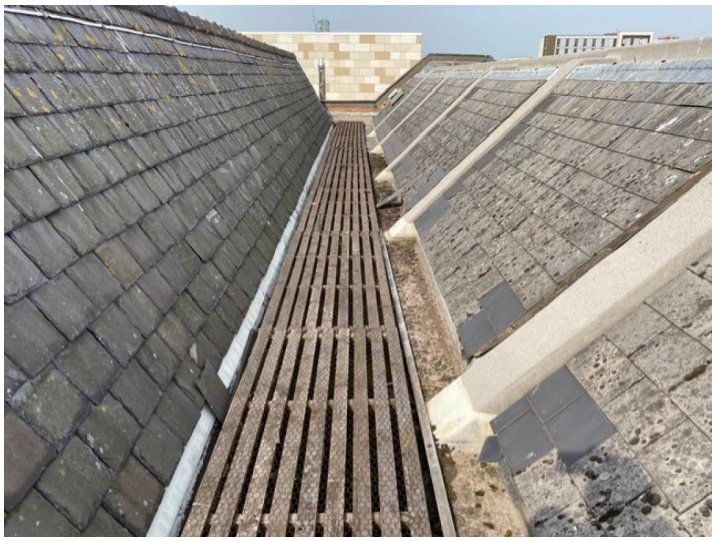
2. SPECIFICATION - ASPHALT ROOFS

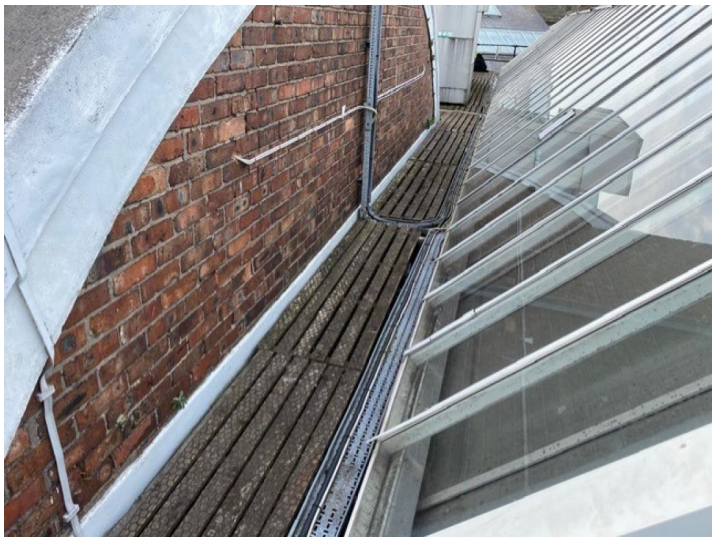
2.1 - CONDITION REPORT

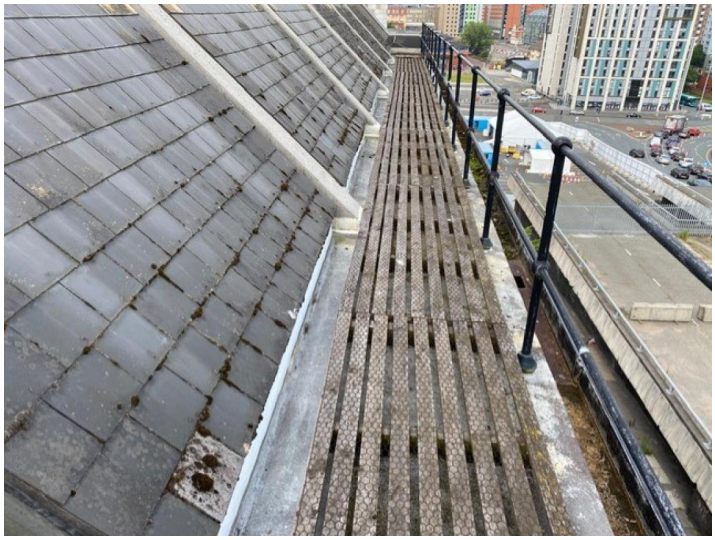
2.1.1 - PROJECT OVERVIEW

General Overview: Photograph's identify the asphalt roof areas located between the buildings pitched roofs.

The current pitched glazing sections are to be replaced with pitched zinc standing seam roofs, and all timber walkways removed and replaced with skid inhibiting designated walways.







Roof Surfaces & Internal Gutter Runs: The proposed **Sika Liquid Plastics** system is to be installed utillizing the existing falls.

Note: Should the existing falls not be corrected, standing water will remain following installation of the proposed system.

2.1.2 - CORE SAMPLE

Core Sample: A core sample was taken to assess the build-up and condition of the roof, this was found to be as follows...

20mm Asphalt

Concrete Screed and Deck

Core samples which are taken as a method of confirming the existing deck and waterproofing system construction. These samples give a clear indication of the general condition of the roof build-up in that specific location.

Please note: Findings are representative only of the particular location sampled and this is used to give general guidance as to the likely overall condition and deck and construction. Due to the limited number of core samples that can be practically taken on a roof, Sika Liquid Plastics cannot be held responsible for any changes in roof build-up in areas where core samples have not been taken.

Core Sample Moisture Result: No evidence of moisture was found at the core sample site.

2.1.3 - PONDING WATER

Ponding: Standing water is an issues in areas, and can be removed from the majority of the areas with an introduction of a tapered insulation scheme.

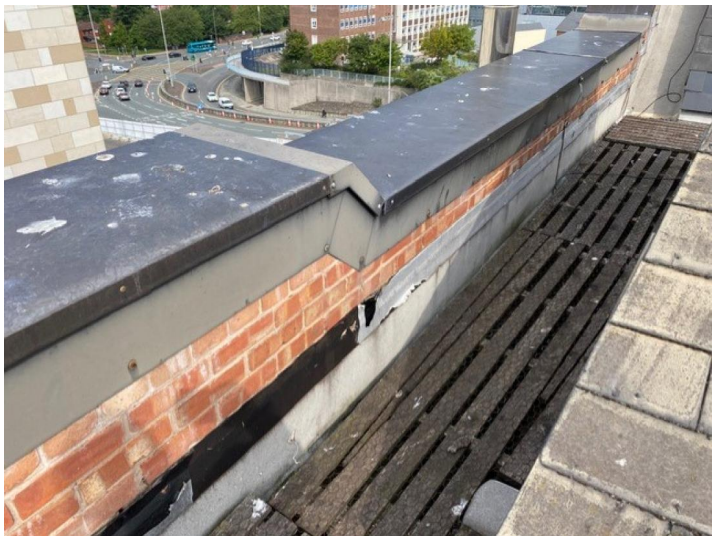
2.1.4 - PREVIOUS REPAIRS

Short Term Repairs: Repairs have been carried out to the existing waterproofing. Individual repairs should be assessed for integrity and removed where necessary.

2.1.5 - UPSTANDS

Low Upstands: Some of the upstand details are of an inadequate height thus creating a potential weakness in the waterproofing system. These details should be corrected.

Support Upstands: All upstands are to be suitably repaired, cleaned and primed prior to the waterproofing schedule.



2.1.6 - PERIMETERS

Existing Drip Trim: The existing waterchecks are in a poor condition and should be removed and replaced.

2.1.7 - MISCELLANEOUS (PLANT ETC)

Supports: Any supports resting on the existing waterproofing that cannot be raised are to be encapsulated with the new waterproofing system. This must be installed at a height of at least 150mm above the finished roof level and preferably sealed with a stainless steel jubilee clip at the exposed upward leading edge to protect.

The roof area located beneath the plant is not included in the current programme. A Sika LP Type D Decotrim shold be fixed as a termination detail above the change in level, and the D-Trim waterproofed in reinforced Decothane Ultra, lapping 500mm onto the plant covered roof until funding becomes available to complete the area.

Safety harness fixings are to be removed and the resulting holes made good prior to waterproofing.

2.2 - SYSTEM SCHEDULE

AREA	MATERIAL
Guarantee Level	Product Guarantee & Final Inspection Certificate
System Type	Warm
Substrate	Asphalt waterproofing
Air & Vapour Control Layer	Existing
Insulation	Sikatherm Tapered
Carrier Layer	S-Vap® HD SA (Carrier Membrane)
Coating	Decothane Ultra 25
Substrate Condition 1	Smooth
Surface Finish	Skid Inhibiting Finish - Walkways
Application Type	Roller

The following specification is to be read in conjunction with the project condition report, drawings and project specific documentation where included, and all points should be considered as part of the scope of works.

2.3 - PREPARATION

Structural Integrity: The existing structure is to be checked by a suitably qualified agent. Structural requirements are beyond the scope of this specification.

Surface Lying Debris: Prior to the initial cleaning of the roof, all surface lying debris should be removed by conventional methods.

Note: Outlet leaf grates and/or protection should be fitted, in all cases, to ensure that no debris enters the drainage system.

Initial Cleaning: All **deck surfaces** to be treated are to be thoroughly cleaned by conventional means. Ensure that surfaces are free from visible dampness and that surface lying dust, dirt, and other forms of contamination are removed.

Once all contamination has been removed, the substrate is to be stabilised with an application of **Primer 610** to the prepared, sound, cleaned surfaces- as detailed in the priming section of this specification.

Note: Once the **Primer 610** has been applied and cured, the new insulation is to be installed on the same day to avoid surface contamination.

Note: For associated roof areas where the coatings are to be applied directly, the substrate must be thoroughly cleaned. (Upstands, copings, etc.)

Initial Power Wash: Only associated surfaces to be coated directly are to receive an initial power wash. This is in order to reveal a clean surface suitable for inspection and repair, where necessary. 1500-2000 psi is recommended for preparation. There is no specific maximum as this may vary according to the equipment used and the surfaces being cleaned. At no time should the pressure jet be so high as to cause damage to the substrate being cleaned. Adjust the pressure to clean away contamination and friable material from the surface.

Note: Exercise suitable precautions when using high pressure equipment, check for any roof leaks, and verify that the drainage provides for an adequate flow.

Asphalt: Inspect the asphalt and carry out as follows: any gas blisters must be flattened, slump or sag reinstated, damaged asphalt removed, and significant cracks filled. Use an appropriate polymer-modified mortar or other suitable compatible material. Repairs are to be allowed to cure prior to application. Lay **S-Vap HD SA** over these repaired areas, bonded as specified.

Vapour Control Layer: To be effective as a vapour control layer the asphalt must be continuous.

Solar Reflective Coating: Existing solar reflective coatings should be removed.

Cracks/Gaps: Cracks, gaps, holes, etc. are to be raked out, suitably prepared, cleaned, and made good using compatible materials prior to further treatment.

Brickwork: Inspect associated brickwork. If any spalling, flaking, or other damage is encountered then it is to be repaired using compatible materials to match surroundings, or it should be replaced as necessary.

Mortar Joints: Inspect the mortar joints, all hollow or defective areas are to be made good using compatible

2.3 - Preparation continues overleaf...

materials to match surrounding.

Repair Tape: Any self adhesive flashing tape which has previously been used as a means of repair is to be completely removed.

Note: Substrate defects may well be hidden by such tapes.

Previous Repairs: Inspect any previous repair materials, patches, etc. If any are loose or suspected to be loose then they are to be removed.

Exposed Metal Surfaces: Exposed metal surfaces to be included in the coating schedule are to be wire brushed or mechanically abraded to remove rust/scale or oxidation. Return to a clean, bright metal wherever possible.

Note: Use equipment with deference to safety and, where necessary, check suitability with the equipment provider.

2.4 - PRE-TREATMENTS

Suspected, Known, or Stubborn Growths – All Surfaces/Waterproof Membranes, Felt, Asphalt, Single Ply Membranes, Concrete, Blockwork, Masonry, etc: Visible growths or vegetation should first be removed. Treat remaining adhered growths (and/or where active spores are suspected) by liberally applying a water/domestic bleach solution (maximum dilution 7:1). Allow to act in accordance with the manufacturer's instructions before removing the affected material using the appropriate tools. Repeat the procedure if necessary. Thoroughly rinse off and allow the surfaces to dry before continuing with the application.

Note: Exercise care and wear necessary protective equipment when handling bleach, as directed by the provider.

Metallic Surfaces: Once metal surfaces have been cleared of all rust, degrease said metal surfaces using a proprietary solvent-based degreasant. Work well onto the surfaces and allow to react before thoroughly rinsing with fresh water. Allow surfaces to dry before continuing.

Note: Apply in accordance with the manufacturer's instructions and exercise any precautions issued by the manufacturer.

2.5 - PRIMING

General Priming: All relevant surfaces should be primed in strict accordance with product data sheets. These can be found on our website www.liquidplastics.co.uk.

Exposed Metallic Surfaces: Apply a full coat of **Sika Liquid Plastics Metal Primer** to all prepared, exposed metallic surfaces and allow it to dry for a minimum period of 6 hours before overcoating.

Note: Brush application is recommended for smaller areas or where airless spray application is impractical. Do not apply too thickly.

Aluminium Solar Reflective Paint/Acrylic Reflective Coatings: Apply a coat of **Sika Liquid Plastics Metal Primer** to all prepared, remaining coated areas/aluminium solar reflective paint/acrylic reflective coatings at a maximum spread rate of **6.5** square metres per litre (equivalent to a minimum quantity of **0.15** litre per square metre). This is to be applied by brush or airless spray and must be allowed to dry for a minimum period of 6 hours before overcoating.

Note: Brush application is recommended for smaller areas or where airless spray application is impractical. Do not apply too thickly.

Note: Where aluminium solar reflective paint and acrylic solar reflective coatings are identified or suspected, Sika Metal Primer must always be applied prior to application of the proposed waterproofing system.

A PC sum must be allocated for the inclusion of primers where these types of coatings are confirmed, and adhesion tested.

Refer to adhesion test paragraphs above.

Substrate Condition Tests - Concrete: Prior to the commencement of works, compatibility tests are to be carried out onto the concrete to confirm substrate suitability with the proposed system. Subject to this test, the following primer may need to be amended.

Concrete Surfaces: Subject to the above test, apply a coat of **Sika Concrete Primer LO** to the prepared, sound concrete surfaces. This should be applied by a brush or roller, at a maximum spread rate of **0.2kg/m²** (approximately **5m²** per litre), and must be left to dry for a minimum of 60 minutes before overcoating.

Note: On porous/open substrates, apply as two coats, each at a maximum spread rate of **0.2kg/m²** (approximately **5m²** per litre). Overcoat the primer between 60 minutes to 24 hours of the initial application. If more than 24 hours have passed, apply an additional coat of the primer before overcoating.

Roof Surfaces - Carrier Layer: Primers are not required directly onto the new **Sika Liquid Plastics S-Vap HD SA** surfaces prior to the application of **Decothane Ultra**.

2.6 - AIR AND VAPOUR CONTROL

The specified Air & Vapour Control Layer should be laid in accordance with the relevant Product Data Sheet.

Consideration should be given to BS 5250:2011+A1:2016 Code of Practice for control of condensation in buildings.

In accordance with BS 5250:2011+A1:2016 Code of Practice for control of condensation in buildings (Table D7), the specifier should ensure the existing roof covering is suitable to act as a vapour control layer, based on Humidity Class 3.

Should the specifier require a different Humidity Class to be used for this design, then Sika Liquid Plastics should be notified. A change of Humidity Class will probably require a change to the specification for the vapour control layer, involving an overlay or replacement of the existing roof covering.

Existing Vapour Control Layer: The existing waterproofing is to act as the vapour control layer. Where required at details and repairs in the existing waterproofing, ensure the continuity of the vapour control layer by fully bonding **Sika Liquid Plastics S-Vap HD SA**. The membrane must be extended 100mm minimum above the level of the insulation at upstand details to fully encapsulate the insulation and care must be taken at perimeter details to ensure full encapsulation in the insulation.

2.7 - INSULATION

Hard Edges: In order to avoid damage to the insulation at changes in levels, gutters, sumps etc, a continuous tanalised timber batten (insulation thickness minus 5mm) should be mechanically fixed at a minimum of 600mm centres.

Insulation: Prepare existing surfaces as above and install Decotherm tapered insulation in accordance with our scheme. Bond the insulation boards in **Sika Liquid Plastics Decostik Foaming Adhesive** at a maximum coverage rate of 0.11L/m² note: (14m² per 1.5L cartridge). Apply **Decostik Foaming Adhesive** directly to the properly prepared, clean and dry substrate using a ribbon pattern. The bead size should be a minimum of 6mm and the first bead should be no more than 150mm from the edge of the insulation board and then at maximum 300mm centres thereafter. As the adhesive is applied, immediately place the **Sikatherm GT Insulation** as speciï¬ed into wet adhesive. Do not allow the adhesive to skin over. Project requirements may require tighter bead spacing and higher material usage. All coverage rates are approximates and do not account for spillage, waste or irregular surfaces. Actual coverage rates may vary with application technique and temperature.

Installation of all stages of the system should be carried out strictly in accordance with our scheme, together with Manufacturer's recommendations, instructions and details included in the Liquid Plastics' Fixing Manual. This scheme reference number should be quoted on all future correspondence relating to this project.

Bonding Insulation Together: Before adhering the insulation together, both facings must be checked (clean without any surface contaminations, free of foreign objects and or surface toppings, oil and grease free, and dry). Bond the insulation boards together using **Sika Liquid Plastics Decostik SP.**

Applying the adhesive: In central zones apply 4 continuous beads of adhesive per metre in parallel straight lines with a liquid bead width of 10 – 20 mm (100 – 300 g/m²). In perimeter zones apply 6 continuous beads of adhesive per metre with a liquid bead width of 10 – 20 mm (150 – 500 g/m²). Do not apply more adhesive than can be covered in 5 minutes. The insulation boards must be laid and pressed into the adhesive beads before skin formation.

Note: Care should be taken when installing insulation boards that upstand heights and levels to walls, parapets, rooflights, flashings and trims are maintained at 150mm minimum from the finished roof level. This may be done by raising these details forming step-down gutter sections or similar. In instances where this is not possible, steps should be taken to completely seal open jointing, providing that sufficient allowance has been made for movement. The height of flue pipes must be maintained in accordance with current regulations.

Note: Once delivered to site, insulation materials should be stored inside a building and protected from mechanical damage. If outside storage is unavoidable, insulation should be stored off the ground and totally covered with a waterproof sheet. Packaging alone cannot under any circumstances be relied upon to provide protection from moisture.

Night joints should be sealed at the end of each working day.

Before beginning to adhere the **S-Vap® HD SA**, the substrate must be checked (clean without any surface contamination, free of foreign objects and or surface toppings, oil and grease free, and dry). To ensure an adequate bond the minimum substrate or ambient air temperature should be 10°c.

2.7 - Insulation continues overleaf...

Primer 600: Apply a coat of **Primer 600** to the prepared, sound insulation surface, by brush or roller and leave to dry for approximately 30 minutes or until it is no longer tacky. **Note:** Consumption depends on the roughness and absorbency of the substrate and ranges from 150g/m^2 (approx 6.6m^2/kg) to 500g/m^2 (approx 2.0m^2/kg).

Alternatively...

Priming of Insulation Boards: Apply a coat of **Primer 610** to the prepared, sound insulation surface, by spray application with a 25% overlap to ensure correct coverage and leave to dry for approximately 30 minutes or until it is no longer tacky. **Note:** Consumption depends on the roughness and absorbency of the substrate and ranges from 75g/m² to 125 g/m².

S-Vap® HD SA: Adhere **S-Vap® HD SA** (15m long x 1m wide), onto the primed substrate.

- Roll out and set in place the **S-Vap® HD SA**, roll back the **S-Vap® HD SA** ensuring the the roll has not moved out of position, using a Stanley knife or similar lightly cut through the plastic backing then peel off to expose the self-adhesive side, roll out ensuring the **S-Vap® HD SA** is fully compressed into the primed substrate, pleases ensure that no trapped air or wrinkles are present throughout the application.
- All side laps (min 100mm overlap onto the self adhesive edge) should be fully supported and continuously sealed. To achieve tightly sealed joints the laps must be rolled down firmly with a pressure roller (silicone roller) or by applying pressure. **Note:- the self adhesive overlap must be fully covered leaving no adhesive exposed**
- Any areas where an upstanding detail needs to be introduced directly onto the sanded surface other then a (self adhesive side lap) additional primer needs to be applied to ensure a good bond between the two (**Primer 600/610**), then roll flat with a silicone roller or similar to ensuring that there are no gaps, wrinkles or air pockets.

All flashings, upstands and penetrating elements must be fully adhered. Vent pipes or difficult details can be sealed with the reinforced liquid applied waterproofing membrane.

The full field area of **S-Vap® HD SA** must be pressed into place immediately after adhering, using a water filled pressure roller or similar.

Note: Where used on roof slopes greater than 5° all head laps shall be suitably mechanically fixed. Vertical application at upstands etc up to 250mm high above the finished roof level will not normally require additional mechanical fixing. Application greater than 250mm should be regarded as vertical work and mechanical fixing at the head or at head laps will be required.

Night joints should be sealed at the end of each working day.

Application Temperatures: Minimum application temperatures quoted in the Product Data Sheets should always be adhered to. Temporary localised arrangements for warming the substrate and/or the surface of the membrane with the use of warm air equipment is acceptable to keep the application surface at a reasonable working temperature - provided always that the methodology and equipment used do not heat the surface or material excessively and importantly are acceptable to the client for use in the area.

S-Vap® HD SA can be used as a temporary waterproofing layer for up to 4 weeks in accordance with the Product Data Sheet.

2.8 - PRE-WATERPROOFING

Final Cleaning: Immediately prior to application, ensure that all surfaces are free from visible dampness and that surface lying dust, dirt and other forms of contamination are removed.

2.9 - DETAILING

2.9.1 - UPSTANDS

Upstand Heights:- Upstands should conform to the recommendations of BS 6229:2018: Flat roofs with continuously supported coverings – Code of practice: Section 7.1 concerning the minimum height of upstands.

"The design of drainage falls should ensure that the continuity of the waterproof covering is maintained for a vertical height of 150mm above the finished roof level at all abutments, door openings and parapets. For inverted roofs, those overlaid with paving, or garden roofs, the finished roof surface is the upper surface of the ballast, paving slabs or growing medium."

Note: Where any upstand detail does not satisfy the above recommendations, Sika Liquid Plastics must be informed, advice/recommendations may then be provided by Sika Liquid Plastics. If this advice is not followed, the identified detail may be excluded from the guarantee.

Upstand - Lead Flashing:-

Remove any existing flashings.

Inspect and carry out all necessary maintenance work to the upstand details.

- If the existing chase is at least 150mm above the finished waterproofing level, rake out and re-cut if necessary to ensure that it is 25mm deep. If not, cut a new 25mm deep chase in all upstands, ensuring a minimum 150mm upstand above the finished level of the new waterproofing.
- Ensure that all chases are clean and dust free before coating.
- Apply primers to the upstands, where required.
- Dress the coating as specified onto the upstand and into the chase.
- Once the coating has fully cured, install new code 4 lead cover flashings dressed into the chase in accordance with LSA guidelines, current regulations and standards. Secure the flashings with lead wedges and then seal using **SikaHyflex-250 Facade.**

Note: Ensure that any cavity trays discharge above the finished level of waterproofing.

2.9.1 - Upstands continues overleaf...

Pitched Roof Interface:-

- Dress the coating onto the upstand and terminate beneath the eaves of the overhanging roof.

Note: Consideration must be given to the requirement of maintaining the existing natural eaves ventilation; do not obstruct condensation drip-trays or under-eaves ventilation where present.

Detailing - Upstands where fascia boards have been overlaid with asphalt should be cut out, prepared and detailed as a pitched roof interface.

2.9.1 - Upstands continues overleaf...

Pitched Roof -

- Remove a suitable number of course(s) of slates (store safely for re-use) to facilitate the following installation allowing for a finished upstand clearance of 150mm above the installed waterproofing membrane. Any damaged items should be replaced as necessary.
- Mechanically fix a layboard at the pitched roof interface using 9mm marine grade plywood or equivalent OSB board to provide continuity of the substrate.
- Install a Tanalised timber baton (top edge eased) at suitable dimensions to kick up the under eaves slate providing a stop end for the specified waterproofing membrane, install at a minimum height of 150mm above the finished roof level.
- Install **Primer 600/610** along with **S-Vap HD SA**as per the **Pre Waterproofing Section** of this specification to the entire layboard, lapping onto the existing substrate at the bottom of the layboard by 50mm.
- Install the fully reinforced liquid applied waterproofing membrane as specified finishing tight up to the tantalised timber baton.
- The existing sarking felt can now be reinstated over the cured membrane to protect, followed by the re-instatement of the roofing slates.

Localised areas will require the Decothane to be used as the waterproofing layer onto the layboard to ensure a minimum 150mm of vertical upstands is maintained.

2.9.1 - Upstands continues overleaf...

2.9.2 - PERIMETERS

All perimeter drip trims should be assessed for their integrity.

Existing Drips:-

- Repair existing drips. Coat over the existing drips.

Areas where the asphalt has slumped and damaged:

Drip Perimeters:-

- Remove or make good the existing drip perimeters.
- At the roof edge, install a continuous treated timber batten (insulation thickness minus 5mm) securely mechanically fixed.
- Finish drip perimeters with type 'D' **Sika Liquid Plastics Decotrim** edge trims.
- Apply the waterproofing system over the trim to finish on the full downward facing edge.

Note: The contractor is to confirm that the size of the specified **Decotrim** will suit this project and the correct fastener is used dependant on the substrate as above.

2.9.3 - DETAILING (CHANGES IN LEVEL)

Change In Level -

- Apply the primer as specified to the change in level upstand.
- Apply the coating system as specified up and over the change in level.

2.9.4 - PENETRATIONS

2.9.4 - Penetrations continues overleaf...

Existing Penetrations:-

- Inspect any roof protrusions, i.e., vents, pipes, etc., to ensure watertightness. Repair or replace defective materials as necessary and prepare each protrusion as required in order to accept the coating.
- Apply the primer as specified to the existing penetrations prior to coating.
- Dress the coating onto and up penetrations to finish a minimum 150mm above the finished roof level. Ideally protect the exposed coating edge with a collar or skirt. Alternatively, terminate the coating under a cable clamp/tie.

2.9.5 - MISCELLANEOUS

Raise Plant:-

Note: Wherever possible and where practical, existing plant should be raised to allow the new waterproofing system to be applied beneath in a seamless manner. Plant may be replaced once the coating has fully cured. Point loading onto the membrane must be avoided. If this action is not possible or practical, acceptable methods of waterproofing are to be discussed prior to coating commencing otherwise these areas may have to be excluded from the waterproofing guarantee.

Existing Plant Stanchion:-

- Inspect each stanchion and repair as necessary.
- Apply the primer as specified to the stanchions prior to coating.
- Bridge each bolt head/fixing with **Sika Flexistrip** (minimum 50mm squares) by first removing the backing paper and applying light pressure to the patch edges to fix.
- Encapsulate each fixing/joint detail using **Sika Reemat Premium** patches, cut to requirements and bedded in **Decothane Ultra**, applied at a minimum wet film thickness of 1000 microns. Allow to dry before continuing with the overall waterproofing.
- The coating should be taken up the stanchion detail and terminated beneath the integral cowl or similar.

Redundant Plant:-

- Redundant plant should be removed prior to application. Any resultant recesses are to be suitably repaired.

Sika Liquid Plastics Lightning Conductor Clips SA:-

- Once the new waterproofing has fully cured remove any debris and accumulated surface water which may lie in the path of the conductor.

2.9.5 - Miscellaneous continues overleaf...

- Ensure the surface area to be treated is thoroughly cleaned and dry.
- Install the new **Sika Liquid Plastics Lightning Conductor Clips SA** using **SikaBond AT Universal** to aid adhesion.
- Suggested conductor clip fixing centres on horizontal surfaces is 1000mm, this may need to be increased on vertical surfaces. This is with reference to a Faraday cage mesh forming the Lightning Protection network as per **BSEN62305**.
- Allow a 24 hour period to elapse before inserting the conductor tape into the clips, as this will greatly enhance the adhesive bond.
- Once the clips are secure, install the lightning conductor tape in accordance with **BSEN62305-3 Table E.1**.

Note: The clips and the coating around the clips should be carefully inspected as part of the annual maintenance agreement.

Water Discharge:-

- Where water discharges directly on to the waterproofing from down pipes etc, a pipe shoe should be fitted. The area where water discharges should be protected with a tile, slab or otherwise be reinforced to provide an extra wearing surface.

Cable Trays:-

- All cable trays should be lifted prior to the application of the new waterproofing system.
- Once the new coating has fully cured, the cable trays can be reinstated onto suitable supports.

DECOTHANE ULTRA 25 YEAR SYSTEM

Decothane Ultra Waterproofing System - 25 Year Guarantee

Higher solids, low odour, one component, UV-stable, versatile and easily applied liquid roof waterproofing

FEATURES AND BENEFITS

- Low Odour - Sika Liquid Plastics has created a patented high solids formulation that achieves scientifically proven lower odour.
- Cold Applied - requires no heat or naked flame during application.
- Seamless - eliminates the possibility of joint failure through poor workmanship
- Rapidly Rain Resistant - free from rain damage immediately after application
- Easy Installation - using glass fibre matting to allow simple application in detailed areas.
- High Elasticity – allows for greater thermal movement.
- British Board of Agrément (BBA) certified No. 14/5158 10 – 25 years
- European Technical Approval No. ETA – 14/0331
- External fire performance: BROOF (t4) & (t1) & classification under BS 476-3: 1958 EXT.F.AC.
- Odournet – Test Number 456- 2014
- Installed by a Sika Liquid Plastics Quality Assured Contractor

2.11 - TOP COATS

Roof Surfaces - Embedment Coat: Apply an initial embedment coat of **Decothane Ultra** by roller/power roller to the prepared, sound, surfaces, using a minimum quantity of **1.5** litres per square metre (equivalent to a maximum spread rate of **0.66** square metre per litre) and whilst wet, strengthen by inserting **Sika Reemat Premium** glass fibre matting, followed by rollering until the mat is completely embedded and thoroughly saturated. Overlap adjacent areas already laid by 50mm ensuring sufficient embedment material is applied to these areas. At this stage, check the coating for pinholes and/or exposed matting and apply further material to correct if necessary. Allow to dry before applying the next coat.

Top Coat: Apply a final coat of **Decothane Ultra** to these areas, again by roller (brushes may be used for detail work) and again using a minimum quantity of **1.0** litres per square metre (equivalent to a maximum spread rate of **1.0** square metre per litre) to achieve an approximate dry film thickness of 2.2mm (**2200** microns). Allow to dry.

Gutter Surfaces - Embedment Coat: Apply an initial embedment coat of **Decothane Ultra** by roller to the prepared, sound gutter surfaces, using a minimum quantity of **1.5** litre per square metre (equivalent to a maximum spread rate of **0.66** square metre per litre) and whilst wet, strengthen by inserting **Sika Reemat Premium** glass fibre matting, followed by rollering until the mat is completely embedded and thoroughly saturated. Overlap adjacent areas already laid by 50mm ensuring sufficient embedment material is applied to these areas. At this stage, check the coating for pinholes and/or exposed matting and apply further material to correct if necessary. Allow to dry before applying the second coat.

Gutter Surfaces - Mid Coat: Apply a coat of **Decothane Ultra** to these reinforced areas by roller (brushes may be used for detail work) using a minimum quantity of **0.75** litres per square metre (equivalent to a maximum spread rate of **2** square metres per litre) and allow to dry before applying the next coat.

Top Coat: Apply a coat of **Decothane Ultra** by roller/power roller to these reinforced areas by roller (brushes may be used for detail work) using a minimum quantity of **0.75** litre per square metre to achieve an approximate overall dry film thickness of 2.6mm (**2600** microns). Allow to dry.

Reinforcement: When embedding **Reemat** Glass Fibre Matting onto rough, uneven surfaces or internal angles, etc., tamping of the matting may be required. Use a soft nylon/bristle brush or small specialised roller, work the matting as required to give all round contact with the substrate.

Reinforcement: Following the embedment of **Reemat** Glass Fibre Matting, flatten any "wicks" or proud fibres by rollering with a loaded short pile roller.

Tenting: It is important to ensure that 'tenting' of the matting is avoided at all changes of angle by the sufficient application of the embedment membrane at these points.

Material Coverage: When applying materials, use volume to area calculations and/or wet film thickness readings where appropriate to ensure correct material coverage. Coverage rates may vary depending on substrate condition.

Completion of Waterproofing Works: On completion of waterproofing works, check the finish for pinholes, voids, damage etc. and spot treat to rectify.

Skid Inhibiting Finish - Walkways: In order to achieve a 'skid inhibiting' finish to designated areas, apply an

2.11 - Top Coats continues overleaf...

additional coat of **Decothane Ultra**, in a contrasting colour to the finished waterproofing, using a minimum quantity of **0.25** litre per square metre (equivalent to a maximum spread rate of **4** square metres per litre) and whilst wet, fully broadcast Sika Liquid Plastics **Skid Inhibiting Grit** at a minimum rate of approximately **2.5 kg** per square metre (or as required to meet specific requirements). This should be allowed to dry and any non-adhered particles brushed away. Finally, apply a further coat of **Top Coat,** at a minimum rate of **0.3** litre per square metre. Remove the masking tape/polythene sheeting whilst the coating is still wet. Allow the walkway to dry a minimum of 7 days before trafficking.

Note: Prior to commencing and where applicable, walkway borders should be masked either side with polythene sheeting to collect excess grit which may then be re-used if still dry and uncontaminated.

Completion of Works: The site should be left clean, tidy and free from spillage, waste or other residue and in a manner acceptable to the client or their representative.

Embedment Coat Colour: Cloud Grey (RAL 7045) has been choosen for this project.

Top Coat Colour: Slate Grey (RAL 7015) has been choosen for this project.

Note: Other non standard colours are available subject to a minimum order, details on request.

Note: The application of the system must be approached as one operation. Always plan for reasonable progress of each coat. Work only so far in advance that the existing surface can be overcoated as the next operation. Finish the coating system completely before progressing to the next area. The ideal time between coats is within 48 hours.

It is not good practice to plan breaks between coats of more than 14 days. Periods between coats longer than 14 days may affect the normal life term of the system –If this happens consult Sika Liquid Plastics for advice. Ensure each application/coat is clean and dry prior to overcoating.

At no stage should the Sika Liquid Plastics system or waterproof coating in its finished or intermediate stage be used as a workspace or access floor without adequate protection.

Decothane Ultra: Odournet are a team of independent consultants that develops, manages and delivers top level expertise on sensory analysis techniques and their application for product optimisation and material testing.

According to test data, Decothane Ultra was scientifically proven to be much lower odour when benchmarked against other single pack polyurethanes available in the market.

PLATINUM OFFER

PLATINUM GUARANTEE &
FINAL INSPECTION CERTIFICATE

Liquid Plastics

QA CONTRACTOR PROGRAMME

Product Guarantee and Final Inspection Certificate - Specified System

Summary of Guarantee

Premium guarantee – Premium Products
Should water ingress occur during the guarantee period due to defective materials, incorrect design or advice, or poor installation, we will repair the defect or at our option pay the reasonable cost of repair or replacement of the defective part or parts of the Materials together with any damage to the fabric of the roof directly caused by the defect.

What does it cover?

- All materials supplied by Sika Liquid Plastics with the exception of **SikaHyflex 250 Facade** which is a maintenence item.
- Any written design and specification or written advice supplied by Sika Liquid Plastics
- The suitability and attachment of the existing substrate
- Workmanship due to Contractor Insolvency
- Up to £500,000 direct loss for a successful claim

Workmanship

For this guarantee to be issued, the system must be installed by a fully trained Sika Liquid Plastics Quality Assured Contractor. The workmanship cover from Sika Liquid Plastics would come into effect should the installing contractor become insolvent, until this time, the workmanship is covered by the QA Contractor.

Guarantee Requirements

- A full Sika Liquid Plastics specification must be in place – in the case of a refurbishment project, this must include a condition report of the existing roof concluded from a site survey by the Sika Liquid Plastics Area Manager
- All products supplied by Sika Liquid Plastics have been paid for in full
- All branded products must be invoiced by Sika Liquid Plastics
- Project must be passed for guarantee by the Sika Liquid Plastics Applications Department
- Existing roof build-up analysis which may include core sampling, membrane analysis and pullout testing (where necessary)
- Deck analysis for new build projects (where required)

Duration of guarantee cover

2.12 - Guarantee continues overleaf...

15, 20 or 25 years depending on the specified finished membrane thickness.

SPECIFICATION REQUIREMENT

- To achieve the level of Guarantee provided in this specification it is the responsibility for those compiling the tender documents to ensure that the contractor pricing the project is a Sika Liquid Plastics Quality Approved Contractor.
- **Only a QA Contractor can apply for a Product & Final Inspection Certificate/Material & FIC (Platinum/Gold) level guarantee.**
- Product & FIC/Material & Final Inspection Certificate (Platinum & Gold) guaranteed projects are inspected by the Sika Liquid Plastics Application Department and signed off on completion.
- A list of QA Contractors can be obtained by contacting your Area Technical Manager, whose details are on the contact sheet of this specification.
- If the project is tendered by a Non QA contractor the guarantee will be reduced to a material guarantee, and therefore Sika Liquid Plastics will not guarantee the installation of the system specified.
- Any contactors attached to this specification are confirmed as Sika Liquid Plastics QA Contractor.
- Sika Liquid Plastics audit all potential new contractors as part of their application process. This ensures that only credible contractors join the programme.
- As part of the QA membership all contractors must agree to audit of their office and working practices. This ensures that the contractor remains credible.
- **Quality Approved Contractors are audited for;** Financial stability, Health and Safety compliance (including CDM regulations), Compliance with Code of Practice, Continuous training and development.

- **Inspection Process:** This level of guarantee is supported by our on-site inspection process which is carried out by the Sika Liquid Plastics Field Technician. As part of this process, coverage rates are monitored and, where appropriate, Dry Film Thickness cuts are taken to confirm the coverage achieved matches that which was specified, as a minimum requirement. These tests are random and are only indicative of the areas tested.

  Note: Covered under the Workmanship element of this guarantee, it is the responsibility of the installing contractor to ensure the application of the waterproofing system is installed achieving the minimum coverage rates specified consistently over the entire roof area(s).

2.12 - Guarantee continues overleaf...

The status of a QA Contractor can be verified by the ownership of the **QA Contractor Certificate**

All QA Contractors possess a valid QA Contractor Certificate (As shown Right)

SIKA LIQUID PLASTICS
QUALITY ASSURED CONTRACTOR

This is to certify that

is a Sika Liquid Plastics Quality Assured Contractor

Signed for and on behalf of Sika Limited

Rod Benson
Target Market Manager Roofing

Signed for and on behalf of Sika Limited

Pete Hollingworth
Head of Sales

QA CONTRACTOR PROGRAMME

Inspection Process: This level of guarantee is supported by our on-site inspection process which is carried out by the Sika Liquid Plastics Field Technician. As part of this process, coverage rates are monitored and, where appropriate, Dry Film Thickness cuts are taken to confirm the coverage achieved matches that which was specified, as a minimum requirement. These tests are random and are only indicative of the areas tested.

Note: Covered under the Workmanship element of this guarantee, it is the responsibility of the installing contractor to ensure the application of the waterproofing system is installed achieving the minimum coverage rates specified consistently over the entire roof area(s).

This Guarantee is awarded on the condition that the level of suitable insulation is enough to negate a risk of condensation. The insulation and ventilated void must be inspected regularly in order to ensure that they are performing correctly in accordance with all relevant British Standards. Any failure to the roof construction that is deemed to be caused by condensation will not be covered by this Guarantee.

3. CONDITIONS

1. The details contained within this proposal are based on information available at the time of writing. It covers the installation of Sika Liquid Plastics materials and the preparation work necessary to provide a suitable substrate. Sika Limited cannot be held responsible for unknown site conditions below the roof deck/structural joists or for the performance of new materials within the system other than those manufactured, supplied and branded as Sika products.

A detailed method of work statement and programme of works should be agreed with the Sika Liquid Plastics QA Contractor before the commencement of the works.

The requirements of all relevant British Standards, Industry Codes of Practice and current Sika Liquid Plastics guidelines should be complied with at all times. A bibliography is available upon request.

2. In accordance with BS 6229:2018 Flat Roofs with Continuously Supported Coverings – Code of Practice it is recommended that roofs should have a Design Fall of 1:40 to achieve a Minimum Finished Fall of 1:80. The specifier is advised that the Sika Liquid Plastics Agrément Certificate may be invalidated if no fall is provided, as this is in contravention of good practice – this will depend on the circumstances and the interpretation by Building Control.

If this cannot be achieved ponding may occur. However, Sika Liquid Plastics coatings are unaffected by slight ponding and this will have no detrimental affect on their waterproofing integrity, life expectancy or guarantee.

3. Where applicable, insulation boards should be stored undercover and on a dry platform. The insulation shrink wrapping is not adequate for weather protection.

4. Whilst Sika Limited endeavour to carry out BS 476 Part 3: 2004 fire tests for the most commonly specified Sika Liquid Plastics roof build-ups, not all permutations can be tested. It is the responsibility of the specifier to ensure that the roof construction complies with the building regulations and relevant insurance requirements.

5. Upstands should conform to the recommendations of BS 6229:2018: Code of Practice for Flat Roofs with Continuously Supported Coverings: Section 7.1 concerning the minimum height of upstands.

Please note that entry of water over any detail of less than 150mm in height, above the finished level, would not be covered by the Sika Liquid Plastics guarantee.

6. The application of some products within this specification, e.g. adhesives, primers, sealants and cleaners may be limited to temperatures above +5°C and therefore installation may be affected during colder months. Please observe information provided in the Sika Liquid Plastics Product Data Sheets, which can be found at www.liquidplastics.co.uk

7. Before tendering, the contractor should examine the drawings and specification documents, visit the site and ascertain all local conditions and restrictions, accessibility, the full extent and nature of the work, the supply and conditions affecting labour and the execution of the contract generally. The contractor

3. Conditions continues overleaf...

should then provide the client with a full description of the work to be executed, encompassing all aspects of the contract, including those items not contained herein. No claims arising from failure to do so will be considered.

8. If substrate defects/faults that could reasonably be expected to affect the finished roof system are discovered whilst work is in progress, they should be reported to the appropriate authority (including Sika Liquid Plastics) prior to proceeding with further work. In such circumstances, additions and/or amendments to the recommendations may be necessary.

9. As part of our Service Package, we offer CAD detail drawings. These drawings are carried out or approved by Sika Liquid Plastics at design or pre-tender stage. We are not responsible for preparing post-tender as built drawings.

4 CONTRACTORS

4.1 SELECTED CONTRACTORS

1. HOLLOWAY COOK ASSOCIATES LIMITED

Address:	Palmer Hill Building No2 Brindley Street Liverpool Merseyside L8 5SH
Contact:	Mike Holloway
Telephone:	01517099290
Email:	mike.holloway@hollowaycook.com
Website:	www.hollowaycook.com

2. WEATHERWELL ROOFING LIMITED

Address:	Unit 4b, M&G Industrial Park Gaerwen Industrial Estate Gaerwen Anglesey LL60 6HR
Contact:	Mr Kristian Lewis
Telephone:	01248421921
Email:	kristian@weatherwellroofing.co.uk

4.1 Selected Contractors continues overleaf...

3. OBR CONSTRUCTION LTD

Address:	Bryn Gwallen Llanffinnan Talwrn Ynys Mon LL77 7SL
Contact:	Mr Rhys Jones
Telephone:	07738 002806
Email:	rhys.jones@obrconstruction.com

4. LRL LIMITED

Address:	Irwell House The Grove Eccles Manchester M30 0ET
Contact:	Mr Robert Lomax
Telephone:	0161 660 4111
Email:	rob@liquidroofingltd.co.uk

5 APPENDICES

5.1 DISCLAIMER

The information, and, in particular, the recommendations relating to the application and end-use of Sika Liquid Plastics products, are given in good faith based on Sika Limited's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, unless from any written recommendations, or from any other advice offered by Sika Limited. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request.

5.2 DRAWINGS

Asphalt Roofs

A	Roof Plan	**VIEW**
B	Misc - Skid Inhibiting Walkway	**VIEW**
C	Perimeter - External Gutter - D Trim	**VIEW**
D	Change in Level	**VIEW**
E	Misc - Lightning Conductor Pads - Self Adhesive	**VIEW**
F	Penetration - Pipe	**VIEW**
G	Perimeter - Existing Welted Drip	**VIEW**
H	Upstand - Lead Flashing	**VIEW**
I	Upstand - Pitched Roof Abutment - Layboard	**VIEW**
J	Misc - Stanchion - Existing	**VIEW**
K	Upstand - Pitched Roof Abutment - Fascia	**VIEW**

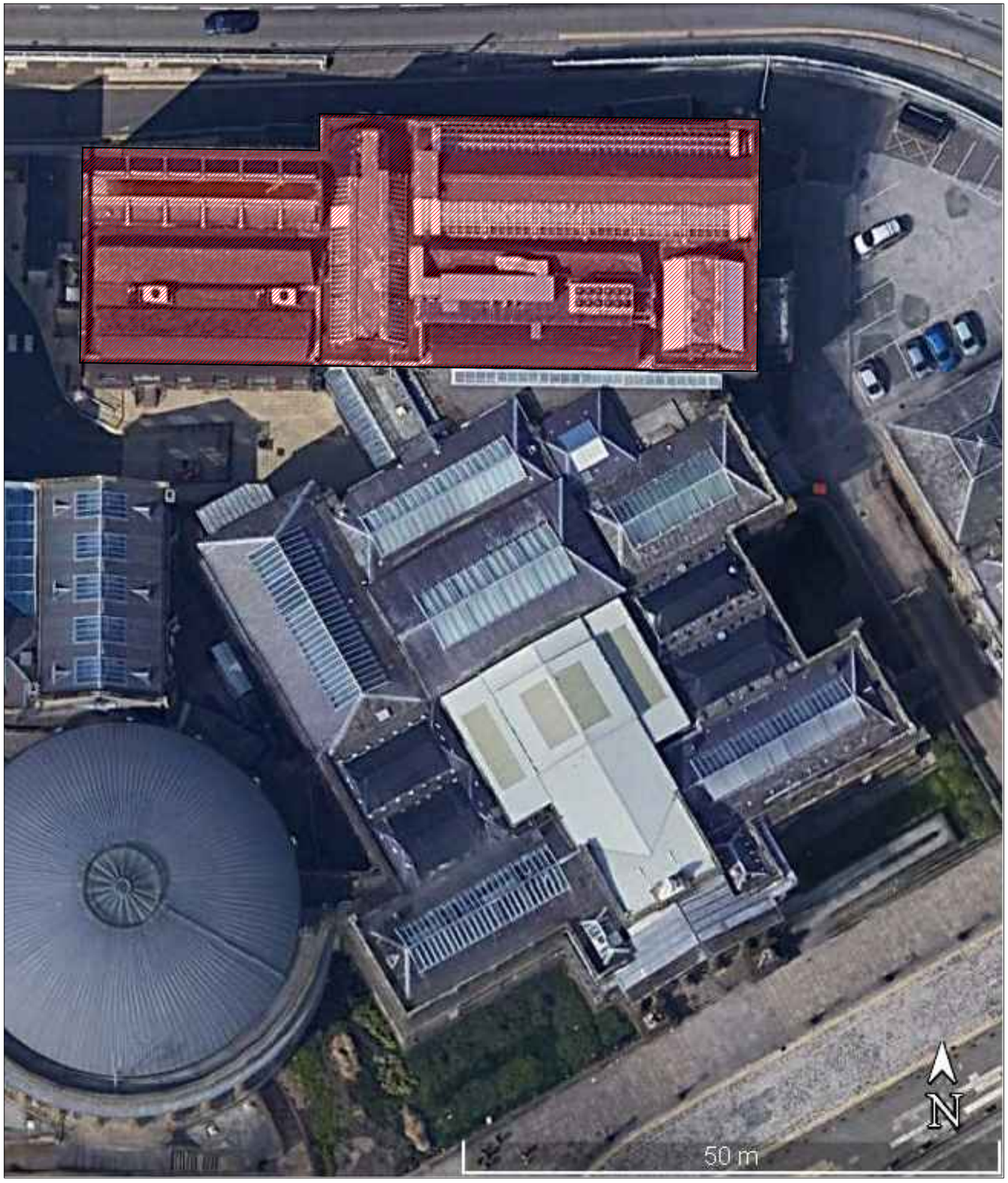
5.3 PROJECT RELATED DOCUMENTATION

Asphalt Roofs

Data Sheet - Decostik Foaming Adhesive	**VIEW**
Data Sheet - Sikatherm® PIR GT	**VIEW**
Data Sheet - SikaHyflexÂ®-250 Facade	**VIEW**
Data Sheet - Metal Primer	**VIEW**
Data Sheet - Lightning Conductor Clips SA	**VIEW**
Data Sheet - Decotrim	**VIEW**

Key

Asphalt Roofs



Drawing Status:	INFORMATION
Project №	WH-0235525
DWG № 001	Revision
Project:	Walker Art Gallery William Brown Street Liverpool, L3 8EL
Drawing Title:	Aerial View Showing Roofs Covered By Sika Liquid Plastics Specification
Scale: NTS @ A3	Drawn: RQ
Date: 8th September 2020	

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Liquid Plastics

Key

① Existing deck/substrate prepared and primed in strict accordance with Sika Liquid Plastics Project Specification

② **Sika Liquid Applied EMBEDMENT/BASE COAT** fully reinforced with **Sika Reinforcement** in strict accordance with Sika Liquid Plastics Project Specification

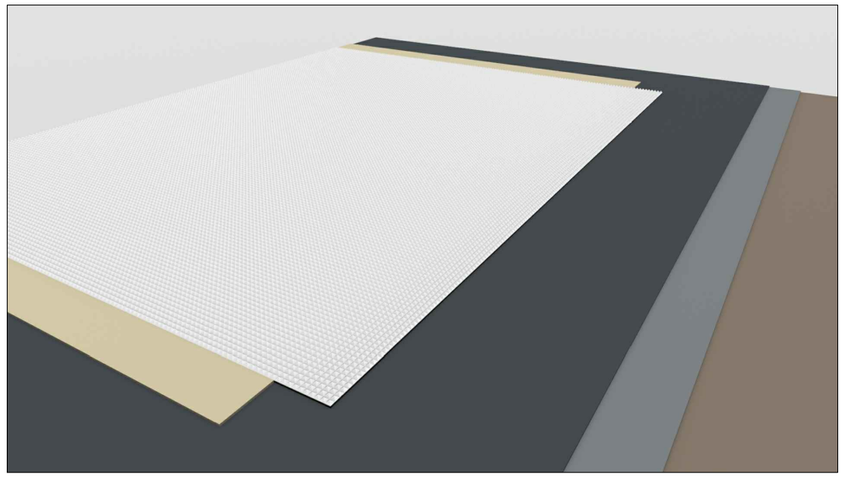
③ **Sika Liquid Applied TOP COAT** applied in strict accordance with Sika Liquid Plastics Project Specification

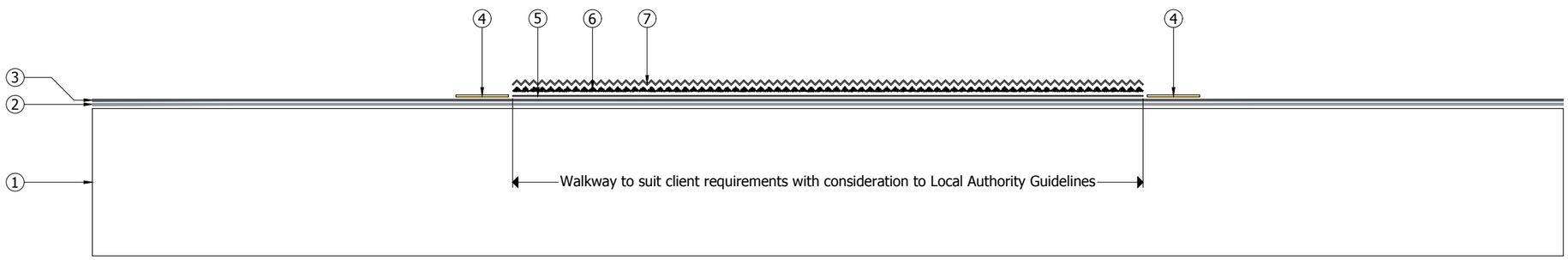
④ Temporary masking tape applied to the cured Sika Liquid Applied Membrane to demarcate the proposed walkway

⑤ Contrasting colour of **Sika Liquid Applied Mambrane** applied as a 'tack coat' at 0.25ℓ/m²

⑥ **Sika Liquid Plastics Skid Inhibiting Grit** broadcast in to the wet 'tack coat' [item No. 5] @ 3.0kg/m², and allowed to dry, remove all surplus unbonded grit with clean brushes etc. and providing it remains uncontaminated, the grit can be stored for re-use

⑦ Contrasting colour of **Sika Liquid Applied Membrane** applied at 0.25ℓ/m²





Drawing Status:	CONSTRUCTION
Project №	WH-0235525B
DWG №	B — Revision
Project:	Walker Art Gallery
Drawing Title:	Waterproofing Application typical maintenance access/low traffic Skid Inhibiting Grit Walkway
Scale: NTS @ A3	Drawn: GRW
Date: 15 OCTOBER 2020	

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Liquid Plastics

Key

① Existing deck/substrate prepared in strict accordance with Sika Liquid Plastics Project Specification

② **S-Vap 5000E SA** [as Vapour Control Layer (where required)] applied in strict accordance with Sika Liquid Plastics Project Specification

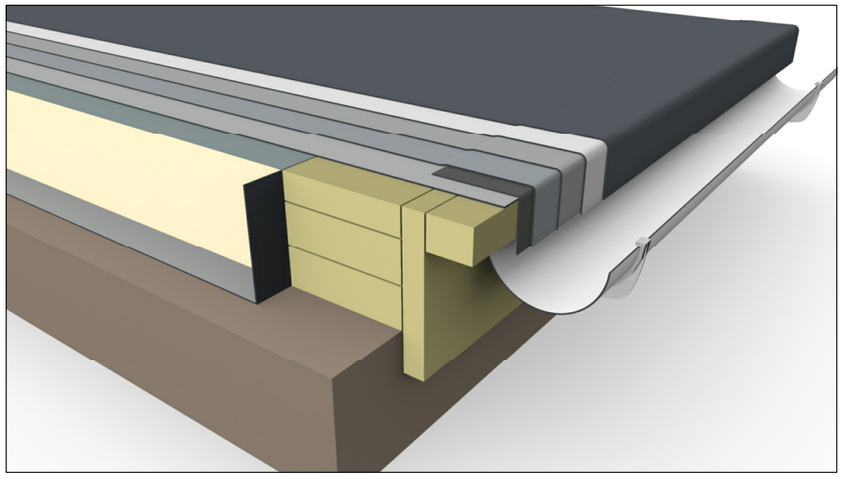
③ **Decotherm PIR Insulation** bonded in strict accordance with Sika Liquid Plastics Project Specification

④ **S-Vap 5000E SA** [as Carrier Membrane] applied in strict accordance with Sika Liquid Plastics Project Specification

⑤ **Decothane ULTRA Embedment Coat** fully reinforced with Sika Reemat Premium glass fibre matting applied in strict accordance with Sika Liquid Plastics Specification

⑥ **Decothane ULTRA Top Coat** applied in strict accordance with Sika Liquid Plastics Project Specification

⑦ Mechanically fixed **Type-D Decotrim** with fully reinforced Decothane Waterproofing System terminated on the external drip edge



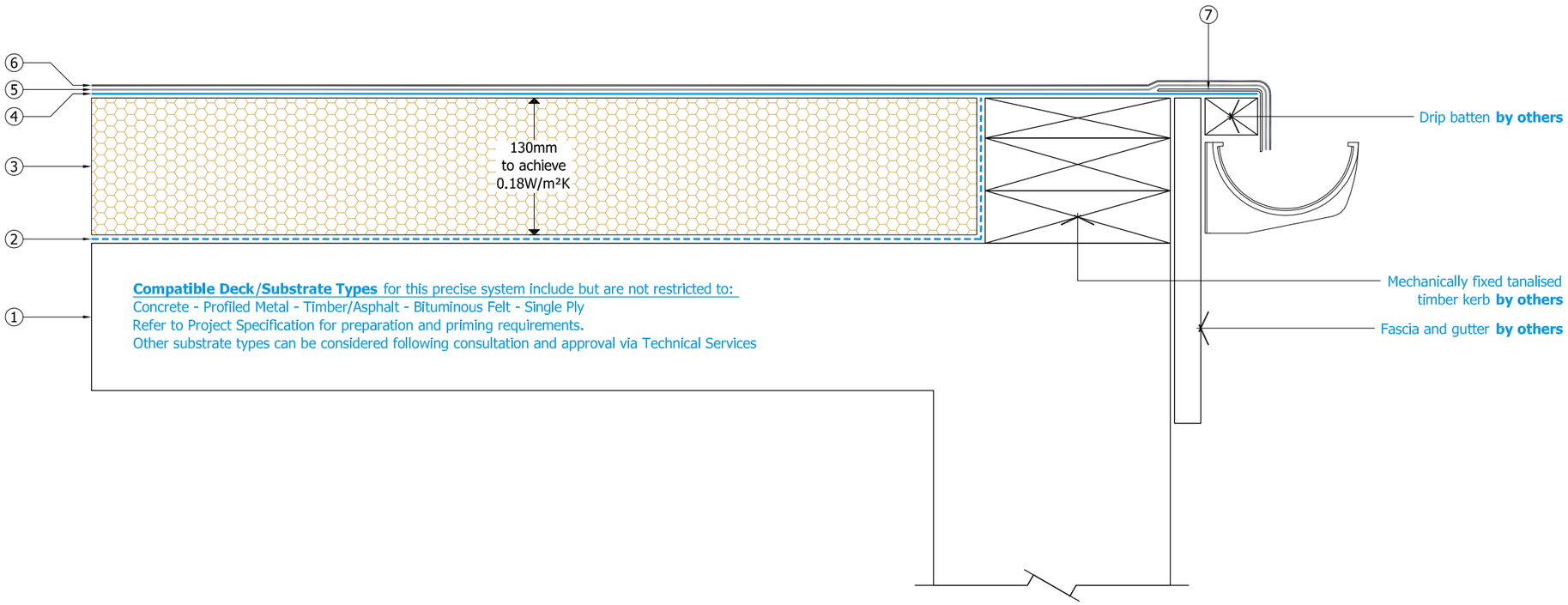
Decothane Ultra Top Coat Colour Options:

RAL 9016 - White

RAL 7015 - Slate Grey

RAL 000 85 00 - Shale Grey

RAL 7045 - Cloud Grey



Drawing Status:	CONSTRUCTION
Project №	WH-0235525B
DWG №	C
Revision	
Project:	Walker Art Gallery
Drawing Title:	Built Up Warm Roof Application to an external gutter with Type-D Decotrim
Scale:	1:5 @ A3
Drawn:	GRW
Date:	15 OCTOBER 2020

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Liquid Plastics

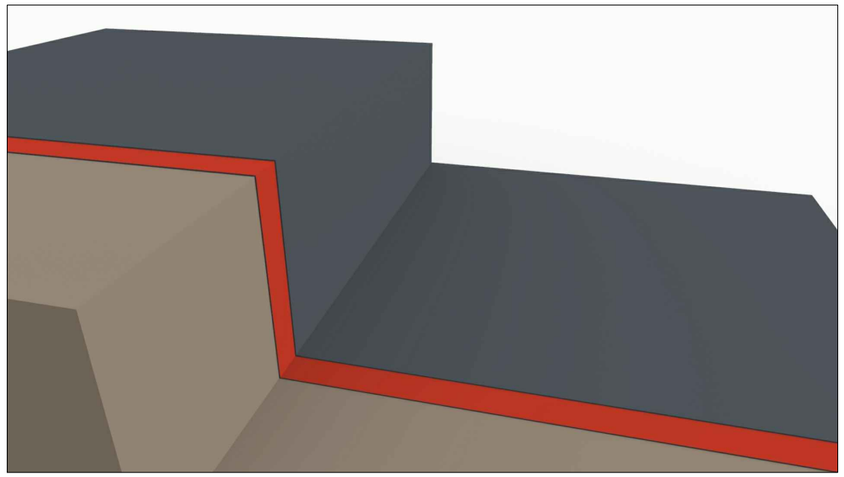
Key

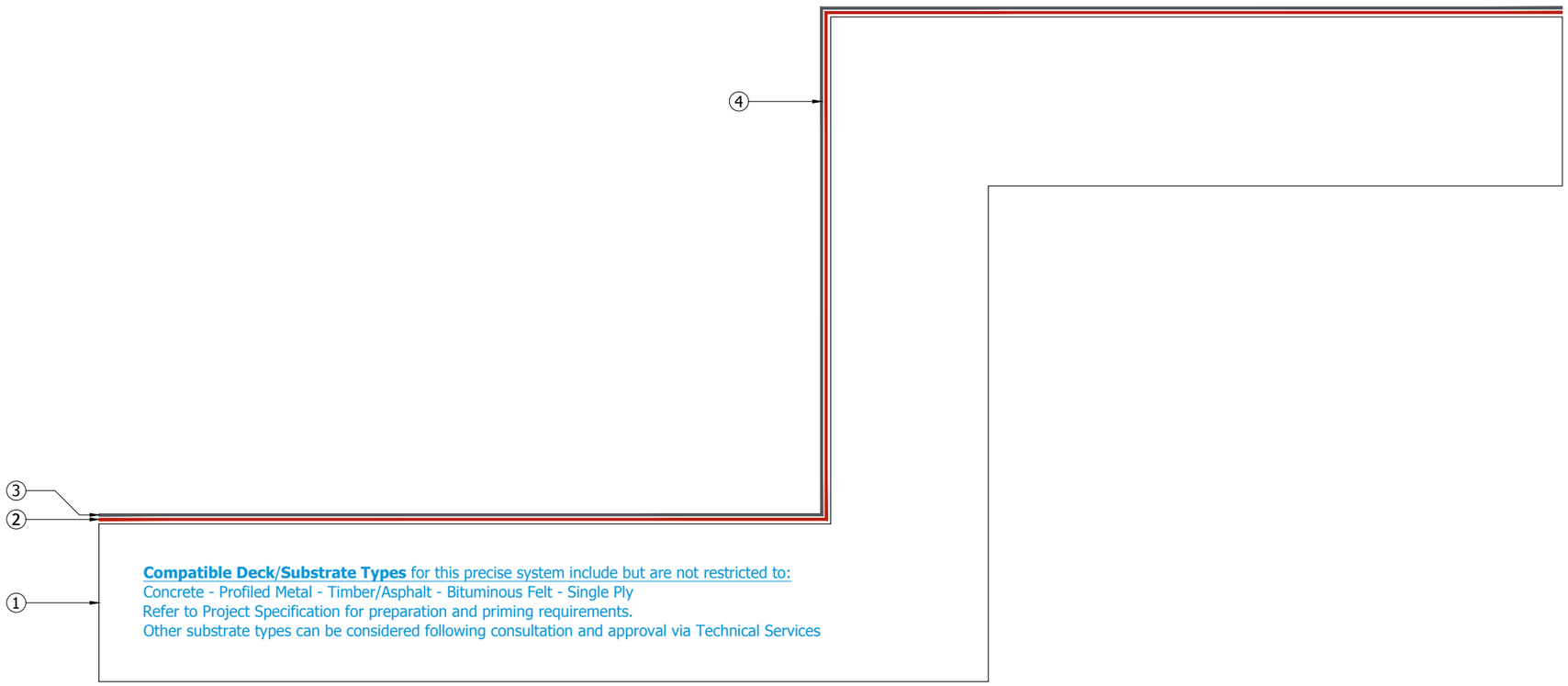
① Existing deck/substrate prepared and primed in strict accordance with Sika Liquid Plastics Project Specification

② **Decothane ULTRA Base Coat** fully reinforced with **Sika Reemat Premium** glass fibre matting applied in strict accordance with Sika Liquid Plastics Specification

③ **Decothane ULTRA Top Coat** applied in strict accordance with Sika Liquid Plastics Project Specification

④ Fully reinforced Sika Liquid Applied Waterproofing Membrane dressed on to prepared and primed upstands, applied continuously between levels





Compatible Deck/Substrate Types for this precise system include but are not restricted to:
Concrete - Profiled Metal - Timber/Asphalt - Bituminous Felt - Single Ply
Refer to Project Specification for preparation and priming requirements.
Other substrate types can be considered following consultation and approval via Technical Services

Drawing Status:	CONSTRUCTION
Project №	WH-0235525B
DWG №	D
Revision	
Project:	Walker Art Gallery
Drawing Title:	Waterproofing Application Typical change in level
Scale: NTS @ A3	Drawn: GRW
Date: 15 OCTOBER 2020	

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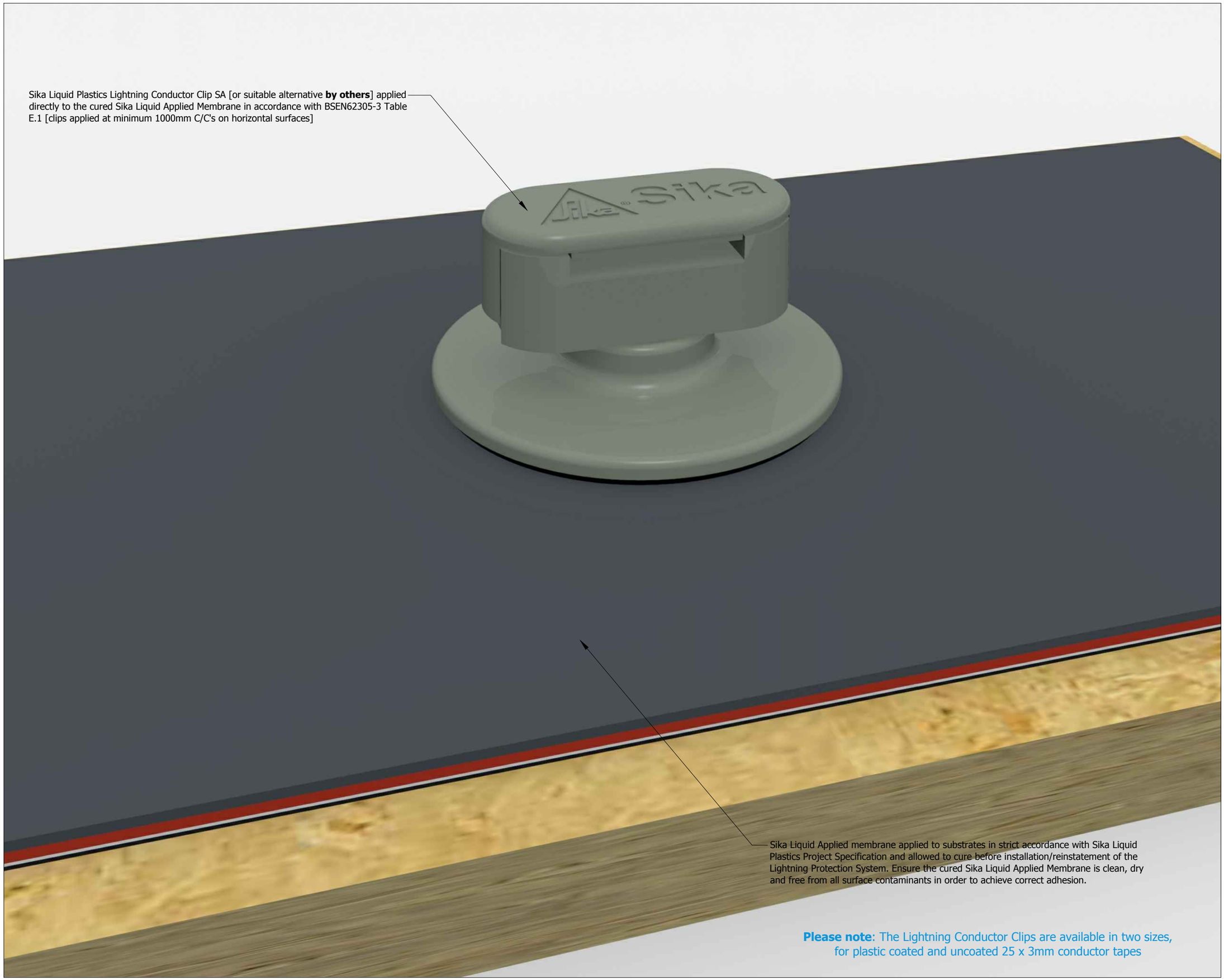
Liquid Plastics



Drawing Status:	CONSTRUCTION
Project №	WH-0235525B
DWG №	E
Revision	
Project:	Walker Art Gallery
Drawing Title:	Waterproofing Application Sika Liquid Plastics - Self Adhesive Lightning Conductor Clips
Scale: NTS @ A3	Drawn: GRW
Date: 15 OCTOBER 2020	

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Liquid Plastics

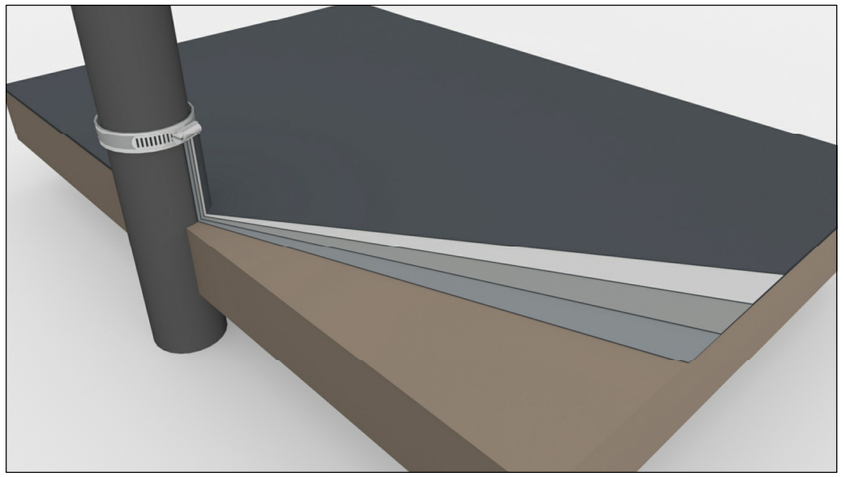
Key

① Existing deck/substrate prepared in strict accordance with Sika Liquid Plastics Project Specification

② **Decothane ULTRA Embedment Coat** fully reinforced with **Sika Reemat Premium** glass fibre matting in strict accordance with Sika Liquid Plastics Project Specification

③ **Decothane ULTRA Top Coat** applied in strict accordance with Sika Liquid Plastics Project Specification

④ Typical circular penetration; fully reinforced Decothane ULTRA Waterproofing Membrane dressed minimum 150mm on to prepared and appropriately primed penetrations. When fully cured install a heavy duty tie-wrap or proprietary O-clip [**by others**] to protect the exposed edge of the membrane



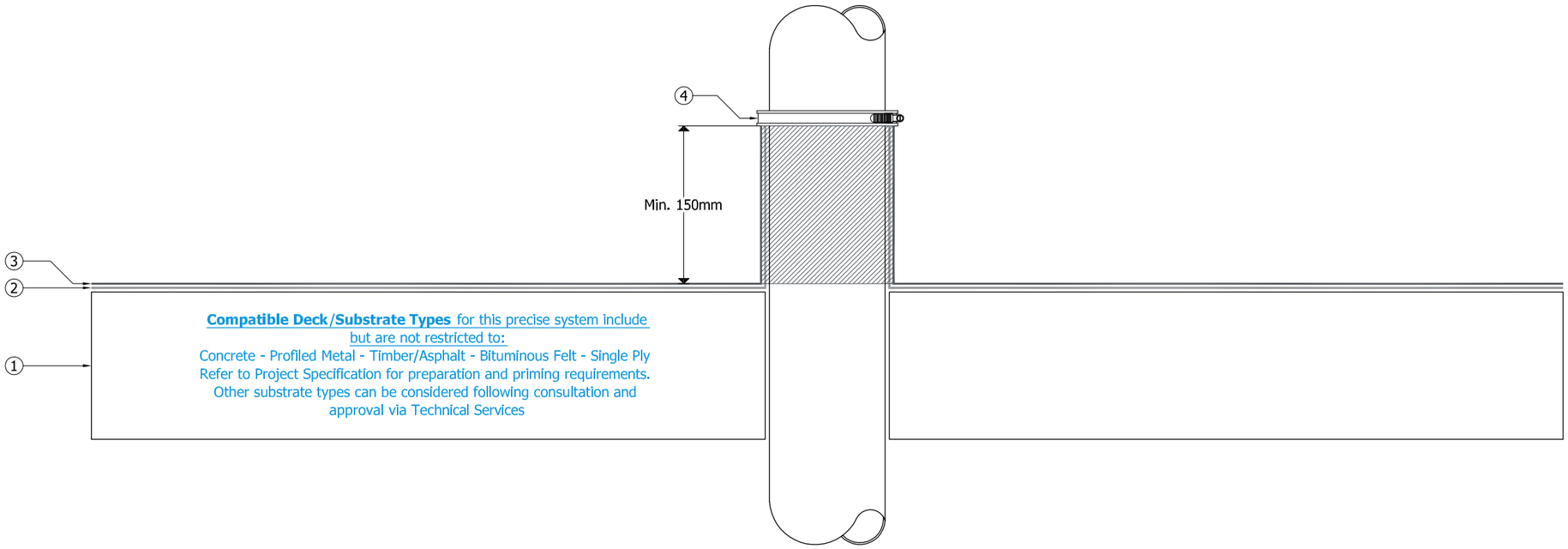
Decothane Ultra Top Coat Colour Options:

RAL 9016 - White

RAL 7015 - Slate Grey

RAL 000 85 00 - Shale Grey

RAL 7045 - Cloud Grey



Drawing Status:	CONSTRUCTION
Project №	WH-0235525B
DWG №	F
Revision	
Project:	Walker Art Gallery
Drawing Title:	Waterproofing Application to a typical circular penetration
Scale:	1:5 @ A3
Drawn:	GRW
Date:	15 OCTOBER 2020

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Liquid Plastics

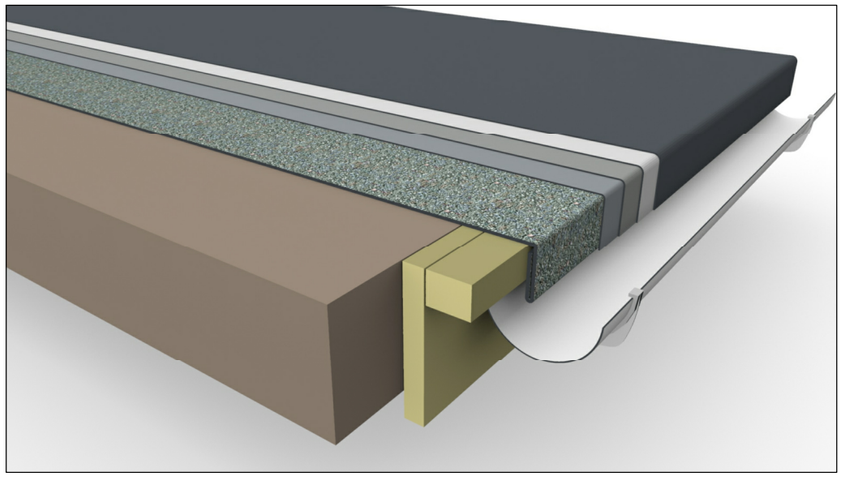
Key

① Existing deck/substrate prepared in strict accordance with Sika Liquid Plastics Project Specification

② Existing felt cap sheet prepared in strict accordance with Sika Liquid Plastics Project Specification

③ **Decothane ULTRA Embedment Coat** fully reinforced with **Sika Reemat Premium** glass fibre matting in strict accordance with Sika Liquid Plastics Project Specification

④ **Decothane ULTRA Top Coat** applied in strict accordance with Sika Liquid Plastics Project Specification



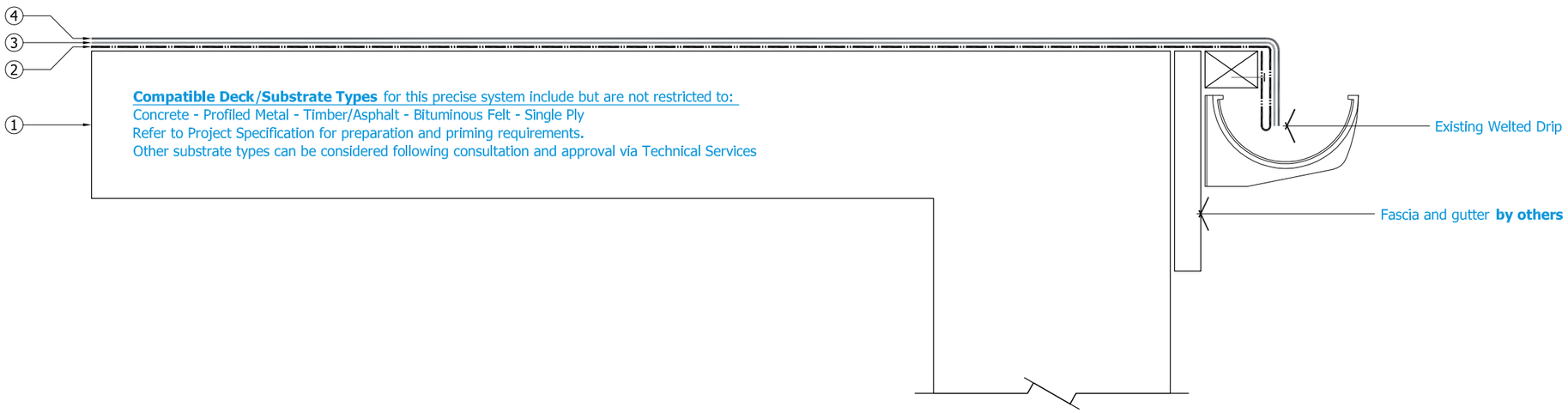
Decothane Ultra Top Coat Colour Options:

RAL 9016 - White

RAL 7015 - Slate Grey

RAL 000 85 00 - Shale Grey

RAL 7045 - Cloud Grey



Compatible Deck/Substrate Types for this precise system include but are not restricted to:
Concrete - Profiled Metal - Timber/Asphalt - Bituminous Felt - Single Ply
Refer to Project Specification for preparation and priming requirements.
Other substrate types can be considered following consultation and approval via Technical Services

Drawing Status:	CONSTRUCTION
Project №	WH-0235525B
DWG №	G
Revision	
Project:	Walker Art Gallery
Drawing Title:	Waterproofing Application to an existing welted drip with existing external gutter system
Scale: 1:5 @ A3	Drawn: GRW
Date: 15 OCTOBER 2020	

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Liquid Plastics

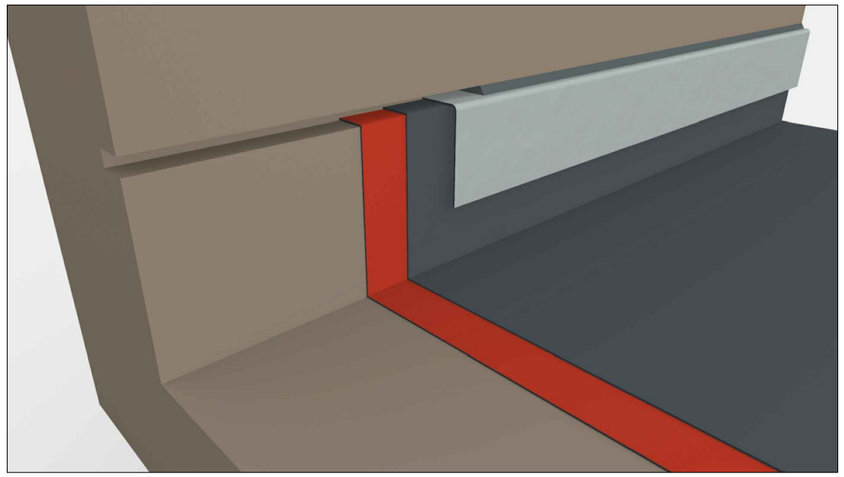
Key

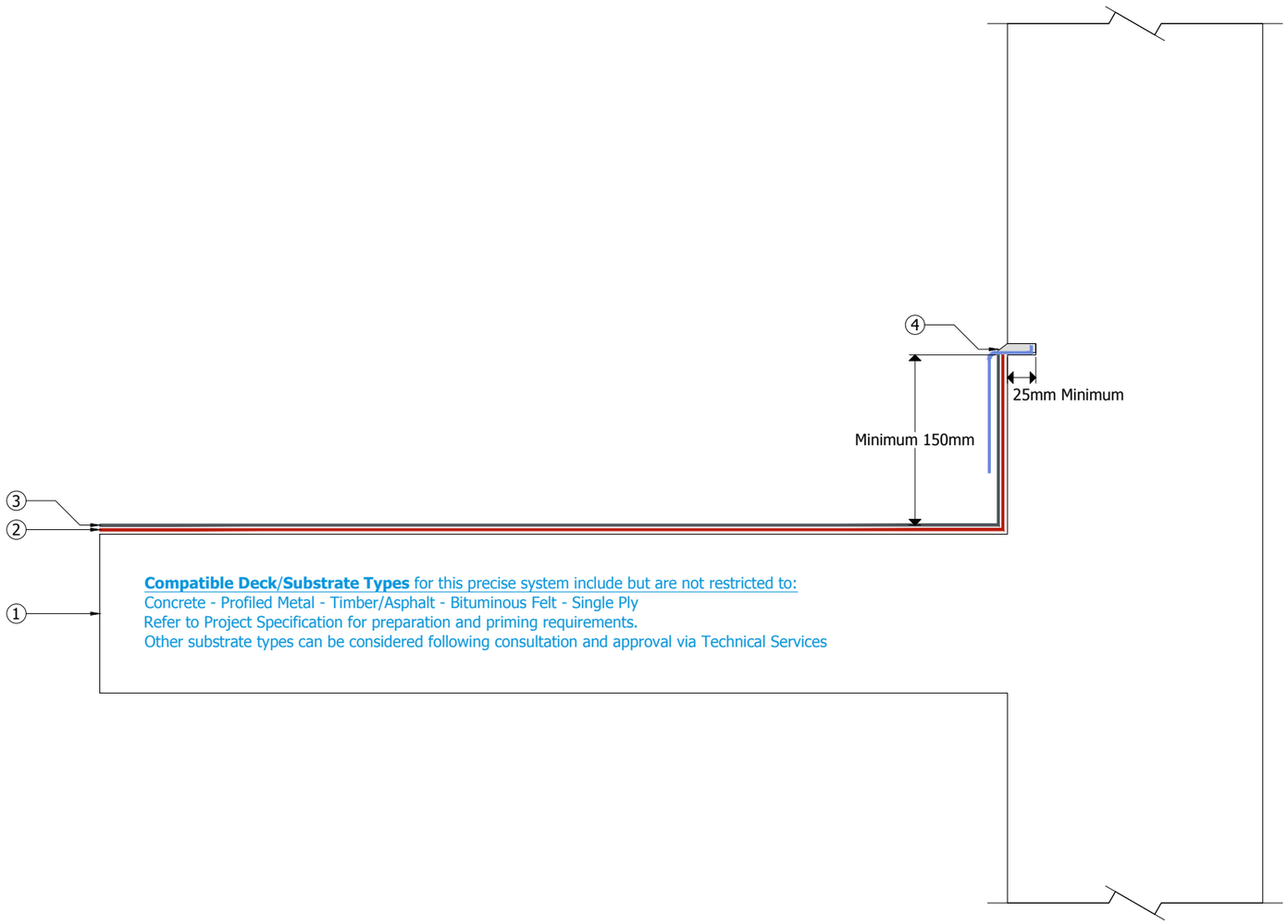
① Existing deck/substrate prepared and primed in strict accordance with Sika Liquid Plastics Project Specification

② **Decothane ULTRA Base Coat** fully reinforced with **Sika Reemat Premium** glass fibre matting applied in strict accordance with Sika Liquid Plastics Specification

③ **Decothane ULTRA Top Coat** applied in strict accordance with Sika Liquid Plastics Project Specification

④ New Lead Flashings installed in strict accordance with BS6915:2001 and LSA guidelines; existing lead flashings should be inspected for their waterproofing integrity [flashings should be intact and weather pointed, installed in lengths not exceeding 1500mm, with overlaps to adjacent flashings not less than 150mm,and show no signs of fatigue/wear/splitting/cracking]





Drawing Status:	CONSTRUCTION
Project №	WH-0235525B
DWG №	H
Revision	
Project:	Walker Art Gallery
Drawing Title:	Waterproofing Application to an upstand containing an existing/new lead flashing
Scale:	NTS @ A3
Drawn:	GRW
Date:	15 OCTOBER 2020

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Liquid Plastics

Key

① Existing deck/substrate prepared in strict accordance with Sika Liquid Plastics Project Specification

② **S-Vap 5000E SA** [as Carrier Membrane] applied in strict accordance with Sika Liquid Plastics Project Specification

③ Mechanically fixed exterior grade WBP plywood [or similar approved] layboard providing continuity of substrate; primed with **Sika Primer 600**

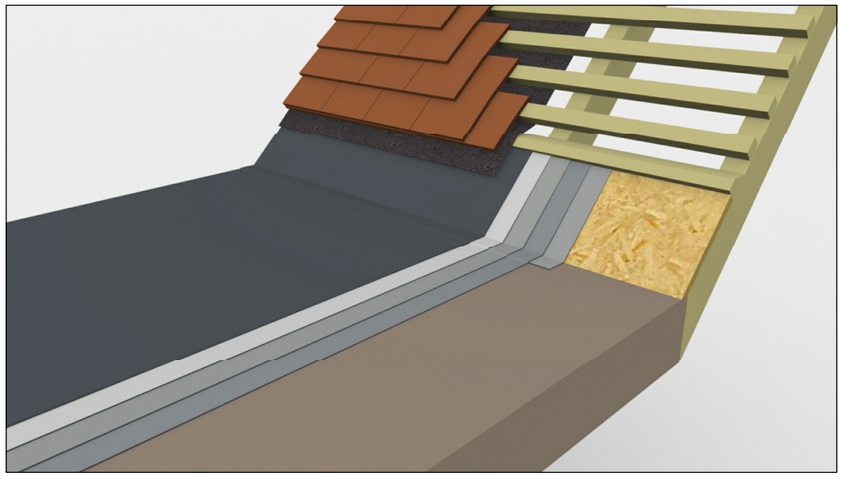
④ Tanalised timber batten [top-edge eased] dimensioned so as to kick-up the under-eaves tile/slate and provide a stop-end for the Decothane ULTRA Waterproofing System

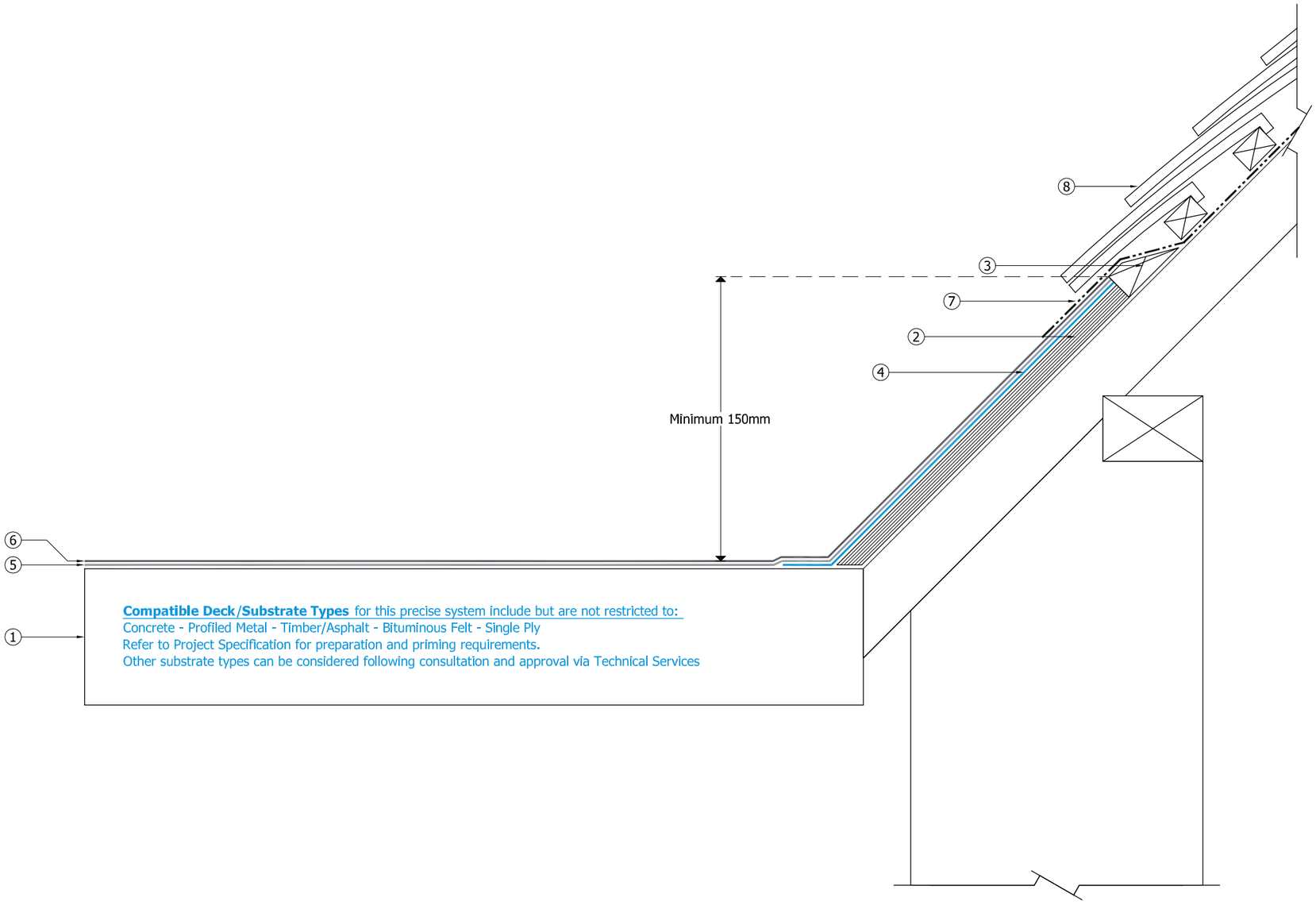
⑤ **Decothane ULTRA Embedment Coat** fully reinforced with **Sika Reemat Premium** glass fibre matting in strict accordance with Sika Liquid Plastics Project Specification

⑥ **Decothane ULTRA Top Coat** applied in strict accordance with Sika Liquid Plastics Project Specification

⑦ Existing sarking dressed over the newly introduced layboard arrangement

⑧ Existing slates/roof tiles removed [and stored] to enable full installation of layboard and stop-end batten arrangement
NOTE: exercise due caution during exposed periods to prevent water ingress





Compatible Deck/Substrate Types for this precise system include but are not restricted to:
Concrete - Profiled Metal - Timber/Asphalt - Bituminous Felt - Single Ply
Refer to Project Specification for preparation and priming requirements.
Other substrate types can be considered following consultation and approval via Technical Services

Decothane Ultra Top Coat Colour Options:

- RAL 9016 - White
- RAL 7015 - Slate Grey
- RAL 000 85 00 - Shale Grey
- RAL 7045 - Cloud Grey

Drawing Status:	CONSTRUCTION
Project №	WH-0235525B
DWG №	I
Revision	
Project:	Walker Art Gallery
Drawing Title:	Waterproofing Application Flat roof abutment to an adjacent tiled pitched roof using a layboard
Scale:	1:5 @ A3
Drawn:	GRW
Date:	15 OCTOBER 2020

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Liquid Plastics

Key

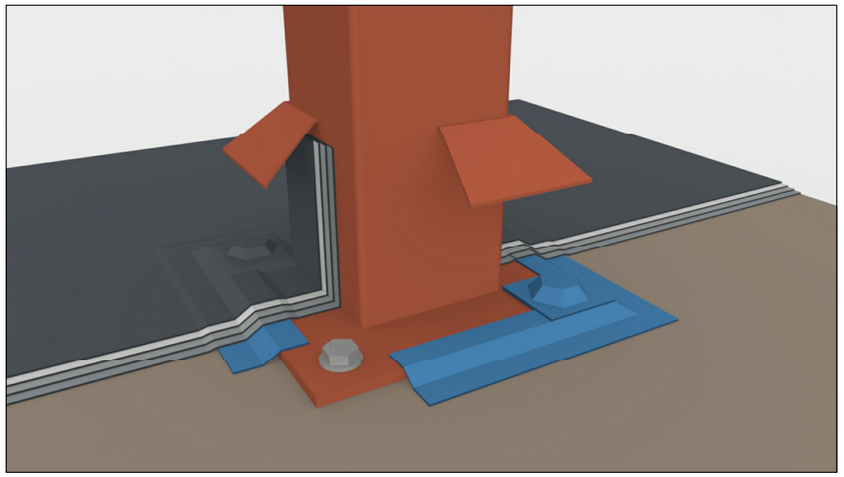
① Existing deck/substrate prepared in strict accordance with Sika Liquid Plastics Project Specification

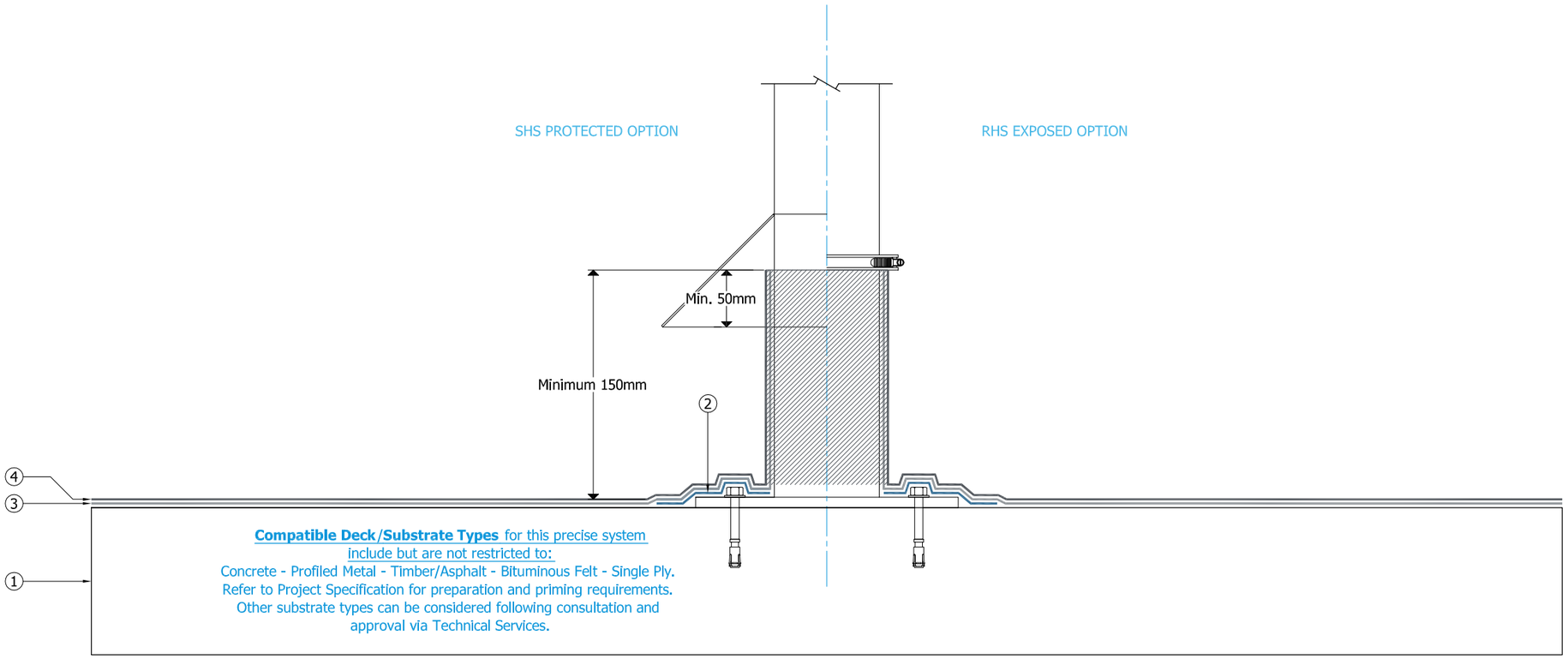
② **Sika Flexistrip** [or suitable alternative **by others**] applied to bolt heads to simplify embedment of **Sika Reemat Premium**

③ **Sika Liquid Applied EMBEDMENT COAT** fully reinforced with **Sika Reemat Premium** glass fibre matting in strict accordance with Sika Liquid Plastics Project Specification

④ **Sika Liquid Applied TOP COAT** applied in strict accordance with Sika Liquid Plastics Project Specification

⑤ Fully reinforced Sika Liquid Applied Membrane applied to prepared and appropriately primed steelwork





Drawing Status:	CONSTRUCTION
Project №	WH-0235525B
DWG №	J
Revision	
Project:	Walker Art Gallery
Drawing Title:	Waterproofing Application to a typical plant support stanchion
Scale: 1:5 @ A3	Drawn: GRW
Date: 15 OCTOBER 2020	

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Liquid Plastics

Key

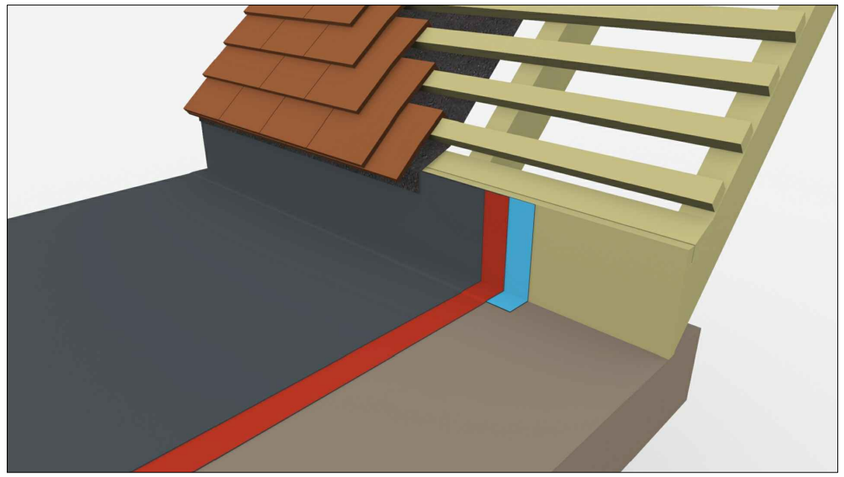
① Existing deck/substrate prepared and primed in strict accordance with Sika Liquid Plastics Project Specification

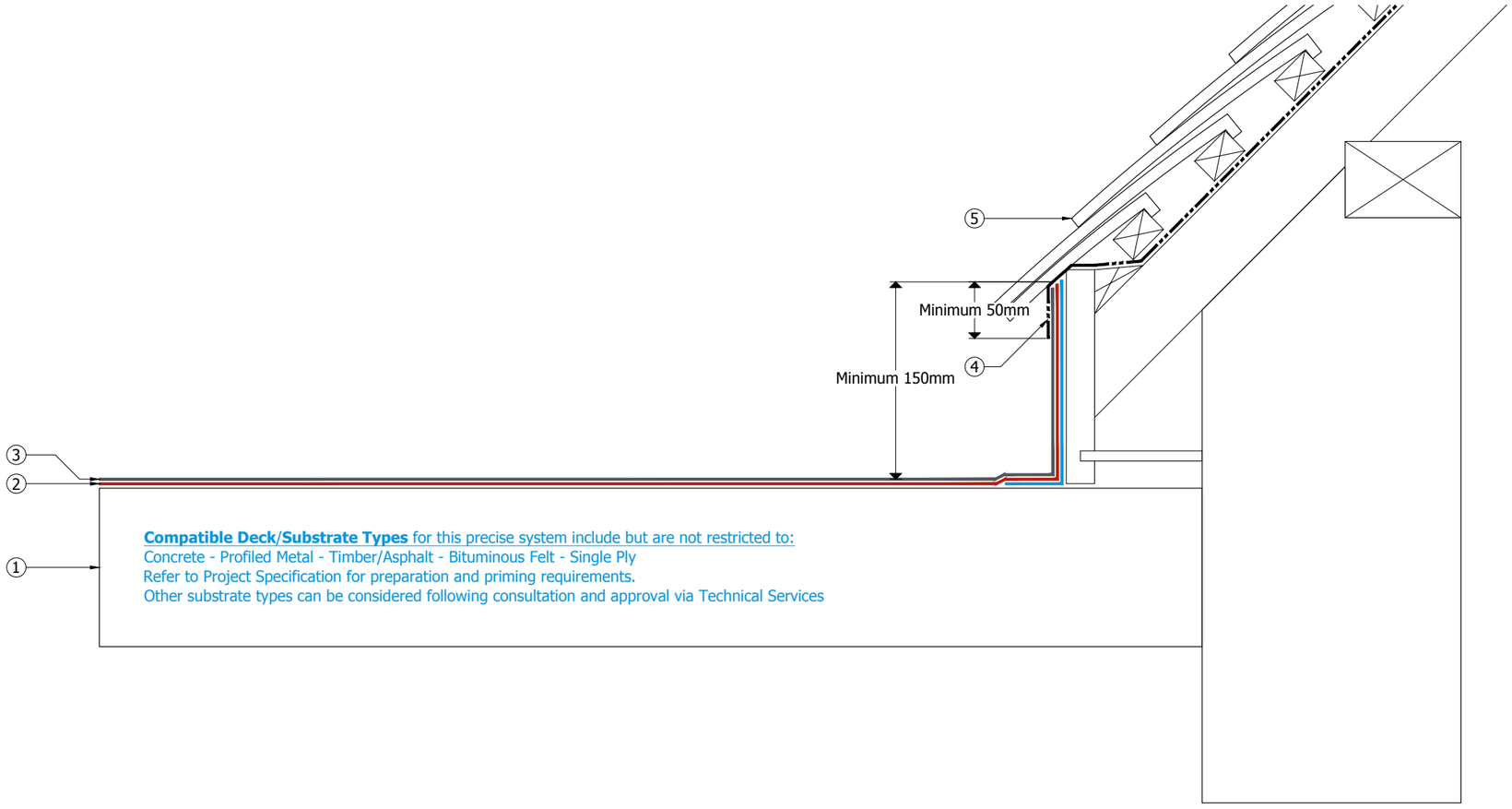
② **Decothane ULTRA Base Coat** fully reinforced with **Sika Reemat Premium** glass fibre matting applied in strict accordance with Sika Liquid Plastics Specification

③ **Decothane ULTRA Top Coat** applied in strict accordance with Sika Liquid Plastics Project Specification

④ Existing sarking dressed over the termination position of the fully reinforced Sika Liquid Applied Membrane

⑤ Existing roof tiles/slates and existing sarking felt must be checked by a competent person to guarantee the roof waterproofing integrity, as forced-entry rainwater ingress must be eliminated from the pitched roof





Compatible Deck/Substrate Types for this precise system include but are not restricted to:
Concrete - Profiled Metal - Timber/Asphalt - Bituminous Felt - Single Ply
Refer to Project Specification for preparation and priming requirements.
Other substrate types can be considered following consultation and approval via Technical Services

Drawing Status:	CONSTRUCTION
Project №	WH-0235525B
DWG №	K
Revision	
Project:	Walker Art Gallery
Drawing Title:	Built Up Warm Roof Application Flat roof abutment to the fascia board of an adjacent pitched roof
Scale:	NTS @ A3
Drawn:	GRW
Date:	15 OCTOBER 2020

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Liquid Plastics