



Jebb Avenue Management Company
Jebb Avenue
Brixton
GREATER LONDON
SW2 5XL

Date: July 7 2020

For the attention of MRS Sophie Hulm

Re: Specification for Jebb Avenue
Project Number: ~~38232~~ 10086543

We refer to our discussion on the 2nd July and our Roof Condition Report Survey and now have pleasure in submitting our suggested specification for waterproofing this project.

The following specification would be covered by our Icopal Insured Product Plus & Workmanship Guarantee Scheme for a period of 20 years provided that the work is carried out by an approved Team Icopal or IMA Contractor and subject to the guarantee offer enclosed within the specification.

The roof areas indicated in this specification are approximate and should only be used as a guide. For accurate tendering purposes the client or contractor should confirm exact areas.

We trust this specification is of assistance to you. If we can be of further help on this, or any other project, please do not hesitate to contact me on 07702 952 084.

Yours Sincerely

A handwritten signature in red ink, appearing to read 'RWELSH', with a long horizontal line extending to the right.

Ryan Welsh
Specification Manager
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Registered No 2472635, England



Client: Jebb Avenue Management Company
Project: Jebb Avenue
Project Ref:: ~~38232~~ 10086543



ICOPAL ROOFING SPECIFICATION



Project Address

Project Name	Jebb Avenue
City	Brixton
County	GREATER LONDON
Postcode	SW2 5XL
Date Prepared	07/07/2020

Client

Prepared on Behalf Of: Jebb Avenue Management Company



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1. INTRODUCTION / BACKGROUND

The specification provided below is not designed to be exhaustive and is given in good faith.

The purpose/extent of the enclosed model specification is to provide an indicative outline of the general processes required to complete a successful Icopal Built-up Roof. It is not the intent of this model specification to provide step by step guidance covering all aspects and issues that may be relevant to the installation of the specific project.

IMPORTANT NOTES:

This specification is based on current information available at the time of writing, if any aspects are revised prior to construction please contact Icopal Limited to review the specification and to amend or update the information provided.

For areas considered 'Safe2Torch' please refer to the accompanying Icopal Site Survey (where applicable). It is the roofing contractors responsibility however to assess all hazards and health and safety issues associated with work on combustible substrates to design out, or greatly reduce so far as is reasonably practicable, any risk involved in its implementation. For further guidance visit www.NFRC.co.uk/safe2torch

Installers must always follow Icopal's installation guidance (available at www.icopal.co.uk) or contact Icopal Limited's technical support team if in doubt.

The Specification is valid for a period of 12 months from the date of issue.

Client: Jebb Avenue Management Company
Project: Jebb Avenue
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2. CONTACT DETAILS

Client Details

Client Company Name	Jebb Avenue Management Company
Client Address	Jebb Avenue Brixton GREATER LONDON SW2 5XL
Contact Name	MRS Sophie Hulm
Tel	07776 132232
Email	Info@jamc.co.uk.

Project Details

Site Name	Jebb Avenue
Site Address	Jebb Avenue Brixton GREATER LONDON SW2 5XL

Icopal Contacts

Name	Ryan Welsh
Position	Specification Manager
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Email	ryan.welsh@bmigroup.com
Head Office	Icopal Limited BMI House 2 Pitfield, Kiln Farm Milton Keynes MK11 3LW
Tel	01908 015760

3. SYSTEM BENEFITS



BENEFIT

The specifications which follow confer the following benefits:

SYSTEM

Thermaweld Capsheets

The following Thermaweld RBM specification is based upon a highly SBS modified reinforced bitumen membrane technologies and offers superior performance waterproofing designed for use in a wide range of roof application and building types. Systems incorporating Thermaweld Capsheets provides a durable waterproofing system which when correctly installed and maintained may be expected to last in excess of 30 years.

Based on quality elastomeric SBS-modified bitumen blends, the system provides low temperature flexibility down to -20 °C and in conjunction with polyester and/or glass reinforcements provide excellent tear strength and dimensional stability.

Anderson bitumen membranes are manufactured to BS EN 13707 under a Quality Management System approved to ISO 9001 and an Environmental Management System approved to ISO 14001, by BSI Quality Assurance.

APPROVALS



Icopal reinforced bitumen membrane (RBM) roofing products are independently tested and approved by the British Board of Agrément (BBA). Torch On products are approved under certificate number 07/4409 and Thermically Activated products are approved under certificate number 09/4645. It is a mark of quality, safety and reliability that provides reassurance of the products' fitness-for-purpose.

The BBA have determined that Icopal Membranes modified with SBS polymer have a service life in excess of 35 years under normal climatic conditions.

TECHNOLOGIES

SBS modified bitumen is the backbone of our high performance bitumen waterproofing membranes. Modifying bitumen with a styrene-butadiene-styrene (SBS) polymer produces a highly durable elastomeric blend with exceptional elongation and recovery properties over a wide range of temperatures. This technology is the base formulation of our engineered RBM (reinforced bitumen membrane) products.

3. SYSTEM BENEFITS - CONTINUED

Groove Technology

Icopal capsheets with Groove Technology sets a new standard in bitumen roof coverings and is synonymous with Icopal's drive for more efficient application of reinforced bitumen membranes (RBM).

The underside of the modified RBM is manufactured with grooves prior to the application of the thermofusible backing film. This film is applied over the peaks of the grooves producing air channels between the film and the bitumen and increasing the surface area. On application of the gas torch, the heat is channelled along the grooves in a pre-melt effect thereby reducing the amount of heat required.

Groove technology offers benefits for the roofing contractor and the environment alike, saving time, costs and gas for faster melting and liquefying of the bitumen. Due to the lower heat required to the underside of the membrane during application the UV resistant mineral granules do not sink into the surface bitumen therefore prolonging UV protection.

APPROVED CONTRACTOR

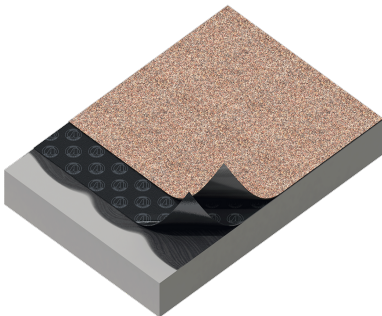
To ensure long term performance and to qualify for our range of roof waterproofing guarantees, all BMI roofing products supplied in the UK must be installed by a system approved contractor, and in accordance with the relevant British Standard Codes of Practice and our recommended design details.

Icopal gives approved status to roofing contractors who can demonstrate very high standards in working practice and professional integrity. This ensures that the quality chain is maintained from initial roof specification, through materials supplied and workmanship to the finished contract - and beyond if necessary.

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4. SPECIFICATION SUMMARY

Roof Area Reference	Main Roof	
Roof Area(m2)	480 250	
Deck	Cast Concrete	
Substrate	Existing Mastic Asphalt (Dechipped)	
Primer	Icopal (Siplast) Primer	
Vapour Control Layer	Not Required	
Adhesive	Not Required	
Insulation	Not Required	
Baselayer	Not Required	
Underlay	Total Torch Vapour Dispersion Layer	
Capsheet	Thermaweld Mineral	
Type of System	TORCHON	

5. PRELIMINARIES

Health and Safety

The Work at Height Regulations 2005 apply to all work at height where there is a risk of a fall liable to cause personal injury. They place duties on employers, the self-employed and any person who controls work of others (e.g. facilities managers or building owners) to the extent that they control the work. The Construction (Design and Management) Regulations CDM states that it is the responsibility of the employer to ensure that any employee required to work at height must be suitably protected from any potential fall hazards. These regulations have been made to prevent the deaths and injuries caused each year by falls at work. A place is "at height" if (unless these regulations are followed) a person could be injured falling from it, even if it is at or below ground level. Therefore, in line with Health and Safety Executive codes of practice, adequate fall protection must be provided where access is required to a roof area. This could be for maintenance, inspection, repair work or retro-fitting of plant equipment.

In the preparation of this technical specification and subsequent advice, Icopal understands its responsibility as an additional designer under the requirements of the current issue of The Construction (Design & Management) Regulations. As a result, we have made every effort to obtain all relevant information by way of site survey and client consultation in preparing this document. It is assumed that the client has also carried out their legal duties with regard to the above regulations and other associated health and safety legislation. Further information may be obtained from <http://www.hse.gov.uk/construction/cdm.htm>

All work must comply with the requirements of the Health & Safety at Work Act and any additional requirements of the client. Method statements and appropriate risk assessments must be prepared in relation to the project.

All material safety data sheets relating to Icopal products are available on the company website or upon request from the technical services department. It is assumed that health and safety information for materials not supplied by Icopal will be obtained from the relevant manufacturer by the roofing contractor.

It is the contractors' responsibility to liaise with the client or building owner to identify any potential hazards that could affect safe working practices (eg. hazardous gases, noxious fumes, flammable fumes, transmitters and microwaves etc.).

Roofing products can be heavy. As a result, the correct control measures should be implemented to protect operatives and minimise risk when moving materials. Care should also be taken to avoid excessive point loading when storing and loading materials on a roof.

Adequate and appropriate fire fighting equipment must be provided and positioned adjacent to the work being carried out. All fire fighting equipment must be in good working order and have been inspected or approved by a competent person.

5. PRELIMINARIES - CONTINUED

Health and Safety

It is the client or building owner's responsibility to provide safe access and egress in line with Health and Safety Executive codes of practice, for personnel carrying out roof maintenance during its serviceable life. Provision of adequate fall protection must be provided for maintenance, inspection, repair work or retro-fitting of plant equipment. This should be considered at the design stage and our recommendations are contained within this specification. Further information regarding protection can be found in the NFRC Technical Bulletin 37: Edge Protection Guidance or from the Health & Safety Executive website <http://www.hse.gov.uk>.

Should the specification call for the removal and disposal of asbestos based roofing materials, all work must be carried out strictly in accordance with the guidelines provided by the Health and Safety Executive, Local Authority and any other official organisation concerned with the project. Guidance can also be found in the Flat Roofing Alliance Technical Bulletin 'Removal of Asbestos Based Roofing Felts'.

When using roofing torches, the contractor must take adequate precaution to eliminate all potential risk of fire hazard and ensure that no naked flames are left unattended at any time. Guidance on the use of torch applied roofing and equipment is available in 'Flat Roofing Alliance Information Sheet 12: Torch On Roofings'. Further information can be obtained at <http://www.fra.org.uk/technicalsheets.asp>.

Application

The roof waterproofing system is to be installed in accordance with the current recommendations of BS 6229 (Flat Roofs with Continuously Support Coverings: Code of Practice), BS 8217 (Reinforced Bitumen Membranes for Roofing), BS 8000 (Part 0: Workmanship on construction sites. Introduction and general principles), BS 8000 (Part 4: Workmanship on Building Sites. Code of Practice for Waterproofing), and Icopal's current application instructions.

Ensure that from completion of the waterproofing the roof is not used as a working platform unless fully protected to the satisfaction of the CA. No paint, solvents or other hydrocarbon volatile substances; or other substances which may be detrimental should come into contact with the waterproofing membrane.

Timber should be naturally durable or pre-treated against infestation and decay using preservatives which are compatible with bitumen based products over prolonged periods as recommended in BS 5268-5.

The recommended minimum finished fall for a flat roof with continually supported coverings shall be 1:80. To achieve this a design fall of 1:40 / 1:60 should be considered.

Following completion of the specified roofing works, provision should be given to the protection of all finished surfaces from damage by subsequent building operations. Additional work will be required to return the membrane to a warrantable condition if the membrane is damaged due to inadequate protection.

5. PRELIMINARIES - CONTINUED

Application

The building structure must be of sound condition and capable of accepting the imposed loading of the new roofing system and associated installation procedures. Third party assessments should be considered to ascertain its suitability.

All surfaces to receive the specified waterproofing system must be kept free from irregularities or sharp protrusions that could puncture the membrane during application or service life.

Any elements that may affect the future performance of the specified system shall be reported to the client and Icopal at the earliest possible opportunity.

The roof should comply with the requirements of the current revision of Building Regulations Approved Document L1 or L2 (England & Wales), Technical Handbook - Section 6 Energy (Scotland), or Technical Standards F1 or F2 (Northern Ireland). It is recommended that confirmation of individual project requirements is sought from the local Building Control Office before commencement.

Waterproofing membranes should be laid down the line of the fall and all membrane head and side laps to be offset to avoid excessive build up of thickness.

Fastener withdrawal resistance tests are recommended on certain refurbishment projects to determine the suitability of the roof deck.

The withdrawal resistance test may be conducted by an independent laboratory or the fastener manufacturer or their designated representative. The results of the pullout tests must be designated on a roof plan to indicate the areas at which the tests were conducted and forwarded to Icopal for review. On refurbishment projects, a core cutter should be used to remove existing roofing material prior to conducting the withdrawal resistance test (even if the existing roofing membrane is specified to remain). Existing roofing materials will contribute to a higher, misleading pullout value.

Drainage

All existing rainwater goods should be tested at the commencement and at completion of the work.

Preparation

Electrical or mechanical work to existing plant or equipment must be carried out by competent and qualified professionals.

All preparatory works including alterations to all detail items must be complete and satisfactory.

Roofing Contractor

All dimensions given in the descriptions and on drawings are approximate and the contractor must examine the existing buildings on site to ascertain the full extent of the works and take all necessary dimensions before preparing a tender.

5. PRELIMINARIES - CONTINUED

Roofing Contractor

The Contractor must visit the site and fully acquaint himself with all aspects of the work whether explicitly referred to in the specification or not. He must also satisfy himself as to the facilities for access and storage of materials, plant, etc., and other site conditions.

It is the responsibility of the roofing contractor to liaise with the client concerning the temporary disruption or suspension of existing services to the building during the works.

It is the responsibility of the contractor to acquaint themselves with all relevant codes of practice referred to within the specification. Icopal take no responsibility for misinterpretation or lack of knowledge for third parties.

The roofing contractor shall ensure the surfaces to receive the specified works are acceptable and conform to the requirements of the specification. If found to be different from the written specification, Icopal's technical department are to be notified at the earliest opportunity.

The roofing contractor shall co-ordinate all works to ensure the integrity of the roofing system is not compromised during installation. Works conducted during adversely wet weather conditions shall be suspended unless suitable temporary protection can be provided.

The roofing contractor shall ensure that all surfaces are free from solvents, hydrocarbons or any other incompatible materials.

The roofing contractor shall ensure that the decking materials and sub layers are dry prior to the application of the waterproofing system to prevent blistering, moisture entrapment, excessive movement and adhesion failure.

The Contractor is to ensure that the roofing work is left secure at the end of each working day and that equipment is left safe at the end of each work period.

It is the responsibility of the roofing contractor to ensure that the building remains watertight at all times. Areas of existing waterproofing removed within a single day should be done so ensuring the provision of appropriate night joints.

Suitable night joints should be formed at the end of each working day to provide a temporary waterproofing seal to the new installation. Materials used to create the joint which do not form part of the specified system shall be removed prior to continuation of the works.

The contractor should make adequate provision for the safe removal and disposal of all associated waste, including the existing waterproofing system if the roof is to be stripped.

5. PRELIMINARIES - CONTINUED

Roofing Contractor Where there is a requirement, it is the contractor's responsibility to provide an independent Electronic Leak Detection Test.

Materials Unless otherwise agreed with Icopal's Technical Department, all Icopal specified products within the specification must be used. Where alteration to the specification is required, Icopal's technical department are to be notified at the earliest opportunity.

All materials used on site shall be new and shall be inspected for manufacturer's markings to ensure the quality of finished roof so as to not invalidate any warranties issued. They shall be handled, stored and fixed so as to ensure that the materials are not damaged when incorporated into the works.

All reinforced bitumen membranes must be stored on end on a clean flat level surface, undercover and away from direct sources of heat.

Containers should be stored in a dry and cool environment on a flat, level, and clean surface away from sources of ignition, including pilot lights and sparks. Protect the product against moisture, direct sunlight and extremes of temperature. Keep containers tightly closed when not in use. Always consult product health and safety datasheets.

Bonding bitumen, if required, should be used in accordance with the current revision of BS 8000: Part 4, which states that the correct viscosity for bonding bitumen is at a temperature of 240°C and should not be heated above 260°C. The use of thermometers and / or thermostatically controlled boilers are also recommended.

6.1.1 SPECIFICATION - Main Roof

Enabling works

We believe the deck and substrate to be as described above. If this is found not to be the case please contact us immediately as the specification may need to be amended.

It is the responsibility of the roofing contractor to satisfy himself of the existing roof build before tendering.

The roof areas indicated in this specification are approximate and should only be used as a guide. For accurate tendering purposes the client or contractor should confirm exact areas.

A suitably trained operative should remove plant prior to project commencement to facilitate the installation of the waterproofing system and reinstate upon completion, the building occupier should be given sufficient notification of intent to temporally remove plant if removal will effect the building use or occupants.

Temporarily remove or divert existing cables/services to allow the roofing works to be carried out. All work should be carried out by a suitably qualified engineer and in conjunction with the building owner.

All redundant items of plant, cables, pipes and rooflights should be clearly identified with the client prior to commencement of the roofing works.

Inspect the existing masonry chases, ensure that they are a minimum 25mm deep.

Cut new 25mm deep chases in all masonry upstands and remove all superfluous debris. These should provide a minimum 150mm upstand above the finished level of the roof. If an existing damp proof course exists which is less than 150mm above the finished roof level, consideration shall be given to the insertion of a new DPC to the required height.

Remove any solar reflective paint from surface to bring back to original. Surface to be grit blasted, power washed, wire brushed or mechanically abraded as appropriate. Any damages to be filled / repaired.

Remove the existing trims and dispose.

Remove the coping stones from the parapet walls and lay aside for re-use. Replace any damaged items as necessary.

6.1.1 SPECIFICATION - CONTINUED - Main Roof

Enabling works

Inspect and carry out any necessary repair to the parapet, re-pointing or re-building any loose sections. Wire brush the surfaces to remove all loose dust or surface contamination and leave in a sound, clean and dry condition.

Areas subject to previous remedial works should be inspected. Repairs that are loose or unsatisfactory shall be removed and prepared in accordance with manufacturer's recommendations. Remove any past remedial treatments.

Rake out all major cracks in the asphalt and remove any dust or debris.

Remove all existing surface and past remedial treatments eg. solar reflective paint, coatings etc.. If total removal is not possible the Roofing Contractor should undertake a test bond to assess the suitability of the surface to be overlaid.

Repair all defects to the existing mastic asphalt by gentle warming and redressing, ensuring that the surface is suitable to receive an overlay.

Repair all defects to the existing asphalt waterproofing by gentle warming and redressing, or patch repair, ensuring that the surface is continuous and vapour tight, and suitable for use as a vapour check.

Where moss and lichen growth exist, clean all existing surfaces with a suitable fungicidal wash, in accordance with the manufacturers instructions, ensuring all health and safety instructions are correctly followed.

Remove all superfluous materials, dust and debris from the roof and leave in a clean and dry condition.

Preparation

Substrate: The substrate to receive the new waterproofing system is the existing dechipped mastic asphalt.

Apply Icopal Siplast Bitumen Primer to the appropriate substrates at the required coverage rate and allow to dry thoroughly.

6.1.1 SPECIFICATION - CONTINUED - Main Roof

Underlay

Apply a layer of Total Torch Vapour Dispersion Layer to the field area by careful torching ensuring the thermofusible film is completely removed from the underside stripes as work proceeds. Head laps to be 100mm and side laps 75mm minimum. Fully bond at all perimeter edges including roof lights and penetrations for a minimum of 500mm terminating at the base of the detail or angle fillet. All details to be formed in accordance with current codes of practice as separate items. Ensure a continuous 5mm bead of bitumen extrudes from all laps.

Important note; Torch-applied products are not suitable for direct application by torching to combustible substrates, or against details where there is a risk of fire due debris or other flammable hazards.

Capsheet

Apply a layer of Thermaweld Mineral capsheet, fully bonded to the underlay by careful torching ensuring the thermofusible film is completely removed from the underside as work proceeds. Head laps to be 100mm and side laps 75mm minimum. All details to be formed in accordance with current codes of practice as separate items. Ensure a continuous 5mm bead of bitumen extrudes from all laps.

Colour of mineral capsheet to be CHARCOAL. It is the responsibility of the Roofing Contractor to ensure that the membranes purchased for use in detailing are colour matched to the membranes used on the main roof areas.

The Icopal system shall be laid with the use of a rigid core and roll bar to ensure evenly distributed pressure during application.

6.1.1 DETAILING - Main Roof

Detail Waterproofing

All construction substrates are to be primed with the correct Icopal primer prior to the application of the waterproofing membranes, in accordance with current application instructions.

Icopal Siplast Bitumen Primer should be applied at the appropriate coverage rate, and allowed to dry thoroughly. Alternatively, where surfaces are to receive thermally activated T.A. products Icopal S.A. Bitumen Primer is to be used.

All detail work to be carried out as separate items, formed in accordance with current codes of practice, and comprise the following;

Underlay to be a layer of Anderson SBS Torch-on Underlay, fully bonded by careful torching ensuring the thermofusible film is completely removed from the underside as work proceeds. Head laps to be 100mm and side laps 75mm minimum. All details to be formed in accordance with current codes of practice. Ensure a continuous 5mm bead of bitumen extrudes from all laps.

Important note; Anderson SBS Torch-on Underlay is not suitable for direct application by torching to combustible substrates, or against details where there is a risk of fire due debris or other flammable hazards. Ensure those substrates are protected or Anderson T.A. Detailing Underlay should be considered for these areas.

Capsheet to be a layer of Thermaweld Mineral capsheet, fully bonded by careful torching ensuring the thermofusible film is completely removed from the underside as work proceeds. Head laps to be 150mm and side laps to follow the mineral-free selvedge and be minimum 75mm. Ensure a continuous 5mm bead of bitumen extrudes from all laps.

Important note; Thermaweld Mineral capsheet is not suitable for direct application by torching to combustible substrates, or against details where there is a risk of fire due debris or other flammable hazards. Ensure those substrates are protected or use alternative detailing products.

Parapet- Abutments

Apply Icopal Siplast Bitumen Primer to the substrate at the required coverage rate and allow to dry thoroughly.

Apply a layer of Anderson SBS Torch-on Underlay to the upstand detail, ensuring any vulnerable substrates or other flammable hazards are protected against risk of fire. Fully bond the membrane by careful torching ensuring the thermofusible film is completely removed from the underside as work proceeds.ully bonded by careful torching ensuring the thermofusible film is completely removed from the underside as work proceeds. Head laps to be 100mm and side laps 75mm minimum. All details to be formed in accordance with current codes of practice as separate items. Ensure a continuous 5mm bead of bitumen extrudes from all laps.

6.1.1 DETAILING - CONTINUED - Main Roof

Parapet- Abutments

Apply a layer of Thermaweld Mineral capsheet to the detail, fully bonded to the underlay by careful torching ensuring the thermofusible film is completely removed from the underside as work proceeds. Capsheet to be installed in accordance with the main specification and as separate items. All details to be formed in accordance with current codes of practice. Ensure a continuous 5mm bead of bitumen extrudes from all laps.

At all upstands, the detail sheets should be installed so that continuity of the waterproofing system is maintained for a vertical height of not less than 150mm above finished roof level, in accordance with BS 8217.

When the waterproofing is taken up more than 225mm, secure the waterproofing to the upstand using a Fixing Restraint Bar. The bar must be mechanically fixed at 150mm centres through the membrane. Please note, where an independent cover flashing is omitted, the waterproofing should be instead secured with a Termination Bar, fixed at 150mm centres, and pointed with a suitable mastic sealant. The mastic pointing must be regularly checked and maintained to ensure compliance with guarantee terms and conditions.

Install new coping, or where appropriate reinstate old coping, suitably restrained and bedded in mortar. Ensure coping is of sufficient width to allow adequate overhang and cover to the parapet upstand detail.

When the waterproofing is taken up more than 225mm, secure the waterproofing to the upstand using a Fixing Restraint Bar. The bar must be mechanically fixed at 150mm centres through the membrane. Please note, where an independent cover flashing is omitted, the waterproofing should be instead secured with a termination bar and pointed with a suitable mastic sealant. The mastic pointing must be regularly checked and maintained to ensure compliance with guarantee terms and conditions.

Terminate the waterproofing to the upstand using a Termination Bar. The waterproofing can be fixed under the termination bar fixed through to the upstand. The bar must be mechanically fixed at 150mm centres through the membrane and pointed with a suitable sealant. Please note, where an independent cover flashing is omitted, the mastic pointing must be regularly checked and maintained to ensure compliance with guarantee terms and conditions.

Upstands

Apply Icopal Siplast Bitumen Primer to the substrate at the required coverage rate and allow to dry thoroughly.

Apply a layer of Anderson SBS Torch-on Underlay to the upstand detail, fully bonded by careful torching ensuring the thermofusible film is completely removed from the underside as work proceeds. Head laps to be 100mm and side laps 75mm minimum. All details to be formed in accordance with current codes of practice as separate items. Ensure a continuous 5mm bead of bitumen extrudes from all laps.

6.1.1 DETAILING - CONTINUED - Main Roof

Upstands

Apply a layer of Thermaweld Mineral capsheet to the detail, fully bonded to the underlay by careful torching ensuring the thermofusible film is completely removed from the underside as work proceeds. Capsheet to be installed in accordance with the main specification and as separate items. All details to be formed in accordance with current codes of practice. Ensure a continuous 5mm bead of bitumen extrudes from all laps.

At all upstands, the detail sheets should be installed so that continuity of the waterproofing system is maintained for a vertical height of not less than 150 mm above finished roof level, in accordance with BS 6229.

When the waterproofing is taken up more than 225mm, secure the waterproofing to the upstand using a Fixing Restraint Bar. The bar must be mechanically fixed at 150mm centres through the membrane. Please note, where an independent cover flashing is omitted, the waterproofing should be instead secured with a Termination Bar, fixed at 150mm centres, and pointed with a suitable mastic sealant. The mastic pointing must be regularly checked and maintained to ensure compliance with guarantee terms and conditions.

Install new Code 4 lead cover flashings dressed in the chases provided. These should be temporarily secured with lead wedges or FormFlash Fixing Clips at 400mm centres and every change of direction. Cut, joint and dress the new flashing neatly to provide a minimum 75mm cover to the upstand waterproofing. Complete the flashing detail by pointing with a suitable mastic sealant. All lead work should be in accordance with current Codes of Practice and the Lead Development Association recommendations, and should be carried out by competent tradesmen.

Outlets

Install suitably sized Roofgard Rainwater Outlet in accordance with current instructions ensuring a watertight seal is achieved between the outlet and downpipe by use of the rubber O rings to prevent water backing up and entering the building. The outlet has a high performance membrane flange that should be fully supported and bonded between the underlay and capsheet by careful torching or flame-free hot-air welding, as appropriate to the main specification. Ensure all outlets are free-flowing on completion of the contract. Complete the installation with Roofgard Universal or Turbine Leaf Grate securely located and tightened.

Roofgard Roof Outlet flow rates are designed and tested in accordance with European Standard DIN 19599. Refer to Icopal's technical literature for clarification of flow rates. Where existing outlets are to be retained, carefully check for damage and ensure all seals and joints are secure.

6.1.1 GUARANTEE - Main Roof

Guarantee

Icopal Limited hereby offer a 20 Year Insured Product Plus & Workmanship Guarantee on the above project, subject to satisfactory installation and completion of the waterproofing specification. All works completed should be carried out by an Icopal system approved installer, and be in accordance with relevant and current codes of practice or manufacturers instructions.

The Insured Product Plus & Workmanship Guarantee is a back to back guarantee whereby Icopal cover the materials element and the roofing contractor covers the installation.

Upon completion of the waterproofing element, Icopal Limited should be notified to make a final inspection of the works. An Icopal representative will attend site in conjunction with the approved contractor to carry out a final inspection and ensure that the recommendations set out in this specification have been observed and agree any necessary remedial works. All work by others necessary to provide a weathertight finish should be satisfactorily complete prior to the final inspection. Following the satisfactory signing off of the project, the contractor should complete and submit a guarantee application form to Icopals Technical Services Department within one month of the signing off date. All supporting test certificates where necessary should accompany the guarantee application. Upon receipt and verification of all documentation and subsequent payment of monies where applicable, the Icopal Guarantee will be despatched to the approved contractor.

The guarantee has inspections at each 5th anniversary of the practical completion date and these inspections must be carried out by the original approved contractor, in conjunction with Icopal.

All Icopal Guarantees are subject to the Terms and Conditions which can be found on the reverse of the guarantee certificate.

All correctly installed Icopal Waterproofing Membrane Systems will require regular scheduled maintenance inspections. The provision of maintenance must be conducted in accordance with the recommendations given in the current revisions of BS 6229 and BS 8217. For further advice and guidance concerning flat roof maintenance, refer to Icopals Care & Maintenance of Flat Roofing Systems booklet. Failure to adequately maintain the roof can lead to unwanted problems and is a condition of the guarantee offer.

Cover flashings by others, mortar pointing and sealant pointing are maintenance items, failure of which are not covered by the waterproofing guarantee.

6.1 SAFE2TORCH PLAN -

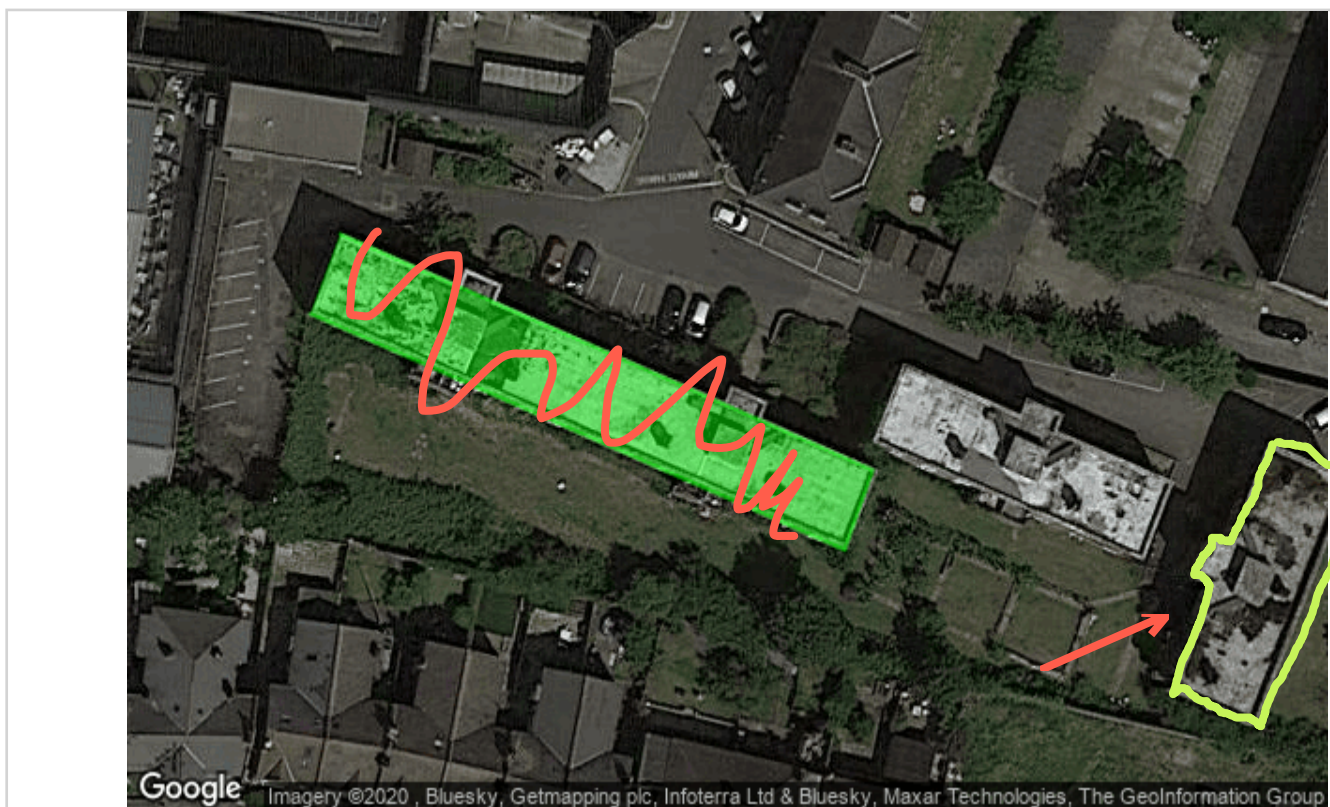
Icopal have pledged support to the National Federation of Roofing Contractors (NFRC) 'Safe2Torch' campaign. 'Safe2Torch' is an NFRC initiative, developed in partnership with contractor and manufacturer members of the NFRC, which seeks to significantly reduce the risk of roof fires when using gas torches, either to dry out roofs or when used to install torch-on membranes.

The roof plan below denotes the areas where naked flames are or are not permitted, a list of areas considered to be at risk under the Safe2Torch guidance may be found on

<https://www.nfrc.co.uk/safe2torch>

Plan View - Jebb Avenue

Visual impression of the areas where it is not Safe2Torch ■ No Naked Flames ■ Safe2Torch



This plan is offered in good faith and has been based on the findings of the Icopal roof survey, the installing contractor is to make their own assessment of the roof area prior to commencement of hot works to ensure all at risk areas have been identified. If any additional items of concern are identified please contact your Icopal representative prior to commencing works so the specification may be revised.

TBC

Client: Jebb Avenue Management Company
Project: Jebb Avenue
Project Ref:: ~~38232~~ 10086543



7. MATERIAL SCHEDULE

PRIMER

Icopal (Siplast) Primer

A high penetration solvent based quick drying elastomeric bitumen priming solution for the preparation of dusty and porous surfaces prior to the application of waterproofing membranes.

Application Rate: 0.1-0.35 litres/m².

UNDERLAY

Total Torch Vapour Dispersion Layer

A glass reinforced SBS-modified bituminous membrane with special vapour pressure release stripes.

Topside: Thermofusible PE film.

Underside: Low melt bitumen stripes/Sand finished with thermofusible PE film.

Roll Size: 8m x 1m.

Roll Weight: 32kg.

Rolls Per Pallet: 30.

Product Code: 2002780.

Anderson T.A. Detailing Underlay

A Thermically-activated self-adhesive SBS-modified bituminous membrane reinforced with a strong polyester reinforcing.

Topside: Red SYNTAN.

Underside: Thermically-activated self-adhesive bitumen with pull-off release sheet.

Roll Size: 10m x 1m

Roll Weight: 40kg

Rolls Per Pallet: 25

Product Code: 3005219

Anderson SBS T/O Underlay(Film/Film)

A Thermically-activated self-adhesive SBS-modified bituminous membrane reinforced with a strong polyester reinforcing for use in partial bond applications.

Topside: Red SYNTAN.

Underside: Thermically-activated self-adhesive bitumen with pull-off release sheet.

Roll Size: 10m x 1m.

Roll Weight: 40kg.

Rolls Per Pallet: 25.

Product Code: 3005219.

Client: Jebb Avenue Management Company
Project: Jebb Avenue
Project Ref:: ~~38232~~ 10086543



7. MATERIAL SCHEDULE

CAPSHEET

Thermaweld Mineral

A high performance SBS modified bitumen membrane with a strong polyester reinforcing fleece intended for use as a top sheet within a built-up roof waterproofing system.

Topside: Mineral Granules.

Underside: Thermofusible PE film.

Roll Size: 7m x 1m.

Roll Weight: 42kg.

Rolls Per Pallet: 25.

Product Code:

2004512 Thermaweld Green.

2004513 Thermaweld Brown.

2004511 Thermaweld Blue-Grey.

2004514 Thermaweld Charcoal.

2004515 Thermaweld Noxite.

ACCESSORIES

Roofgard Outlets (Bitumen)

Roofgard Outlets are a range of roofing outlets to compliment Icopal built up roof systems. The outlet is manufactured from a stainless steel downspout with a modified bitumen membrane flange which can be bonded by torching or by hot-air welding and is incorporated into the builtup roof system to allow continuity of the waterproofing.

3007336 Roofgard Universal Outlet 50mm.

3007332 Roofgard Universal Outlet 62mm.

3007334 Roofgard Universal Outlet 80mm.

3007335 Roofgard Universal Outlet 90mm.

3007333 Roofgard Universal Outlet 95mm.

3007337 Roofgard Universal Outlet 145mm.

3005272 Roofgard Leaf Grate.

Client: Jebb Avenue Management Company
Project: Jebb Avenue
Project Ref:: ~~38232~~ 10086543



8. DRAWINGS -

Drawing Reference Number** Description of Drawing

Main Roof

S-W-02-102	Single Layer Waterproofing Upstand with Termination Bar To Parapet Wall
T-C-01-101	Uninsulated System Upstand To Abutment Wall with Cover Flashing
T-C-01-102	Uninsulated System Upstand To Abutment Wall with Termination Bar
T-C-05-101	Uninsulated System To Roofgard Outlet

**Please refer to the Drawings at the end of this Specification using the Reference number(s) quoted above

Notes:

1. Anderson reinforced bitumen mineral cap sheet.
2. Thermazone insulation, as specification.
3. Anderson vapour control layer, as specification.
4. Substrate, prepared in accordance with current instructions.
5. Thermazone insulation fillet, as specification.
6. Anderson vapour control layer, at details; as specification.
7. Thermazone Insulation, as specification; at details.
8. Anderson reinforced bitumen underlay, at details.
9. Anderson reinforced bitumen mineral cap sheet, at details.
10. Angle fillet.
11. Termination Bar, mechanically fastened, and pointed with suitable mastic sealant.
12. Coping; stone, or metal capping where specified.

Preparation Notes:

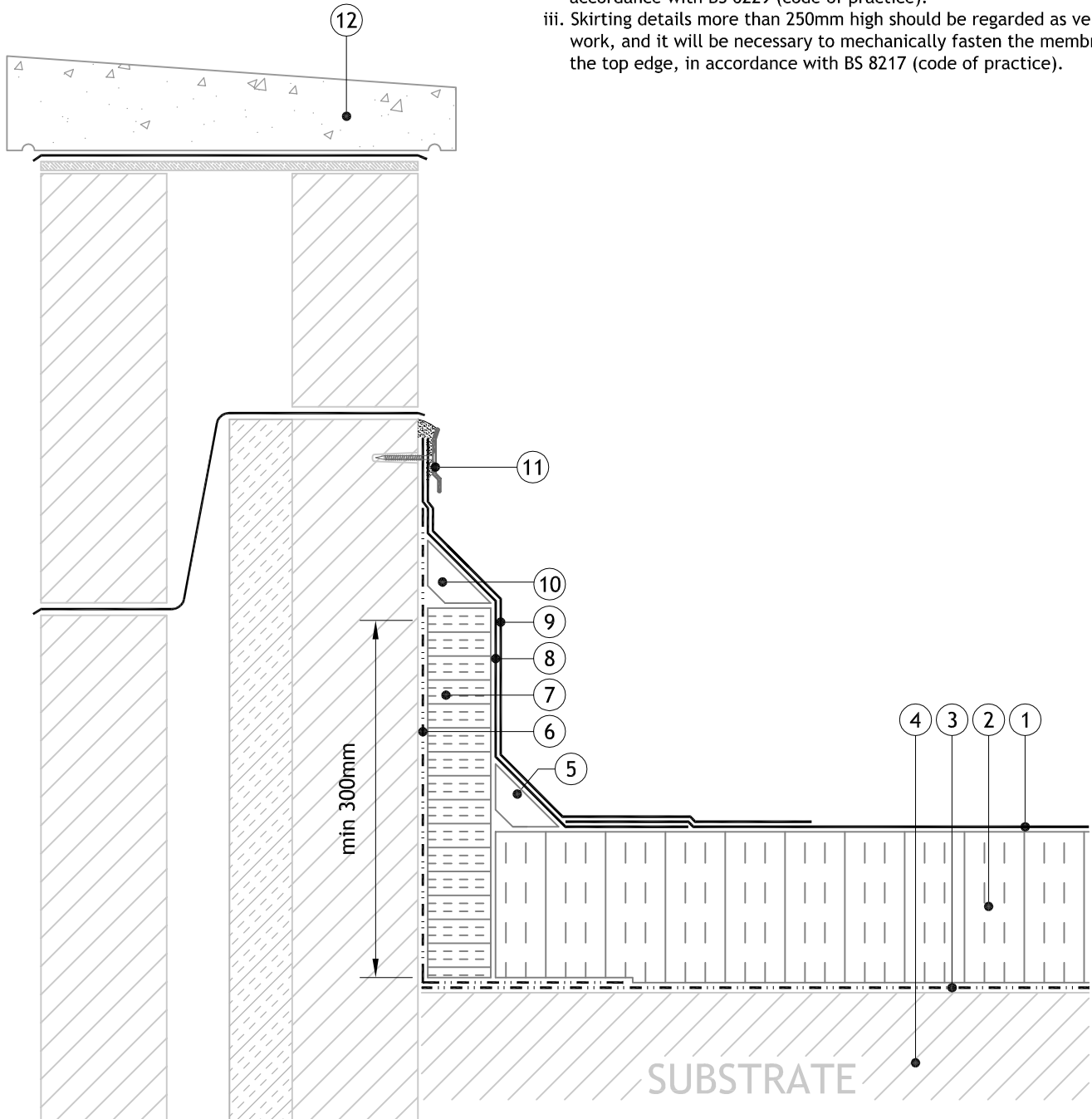
- i. Substrate to be prepared in accordance with current instructions, and is dependant upon nature of substrate and specification of vapour control layer. See Icopal project specification, or consult Icopal Limited's Technical Services Department for guidance.

Construction Notes:

- i. This drawing is intended to demonstrate the methods and recommended detailing of Icopal waterproofing membranes and systems.
- ii. Building details shown are intended to be an indication of typical construction only and may vary to actual site and project conditions.

Notes:

- i. For roofing product references please see Icopal specification.
- ii. Continuity of the waterproof covering must be maintained for a minimum vertical height of 150mm above finished roof level, in accordance with BS 6229 (code of practice).
- iii. Skirting details more than 250mm high should be regarded as vertical work, and it will be necessary to mechanically fasten the membrane at the top edge, in accordance with BS 8217 (code of practice).



Drawing Title: Warm Roof Upstand with Termination Bar To Parapet Wall

System: Reinforced Bitumen Membranes - Single Layer System

Dwg. No: S-W-02-102

Rev.

Scale: NTS

Date: 01/07/2015

Drawn By: WF

Checked By: NHA

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Notes:

1. Anderson reinforced bitumen mineral capsheet.
2. Anderson reinforced bitumen underlay.
3. Substrate, prepared in accordance with current instructions.
4. Thermazone angle fillet, as specification.
5. Anderson reinforced bitumen underlay, at details.
6. Anderson reinforced bitumen mineral capsheet, at details.
7. Cover flashing, as specification; chased and pointed.
8. Fixing Bar, mechanically fastened to upstand; on waterproofing upstands over 250mm high.

Preparation Notes:

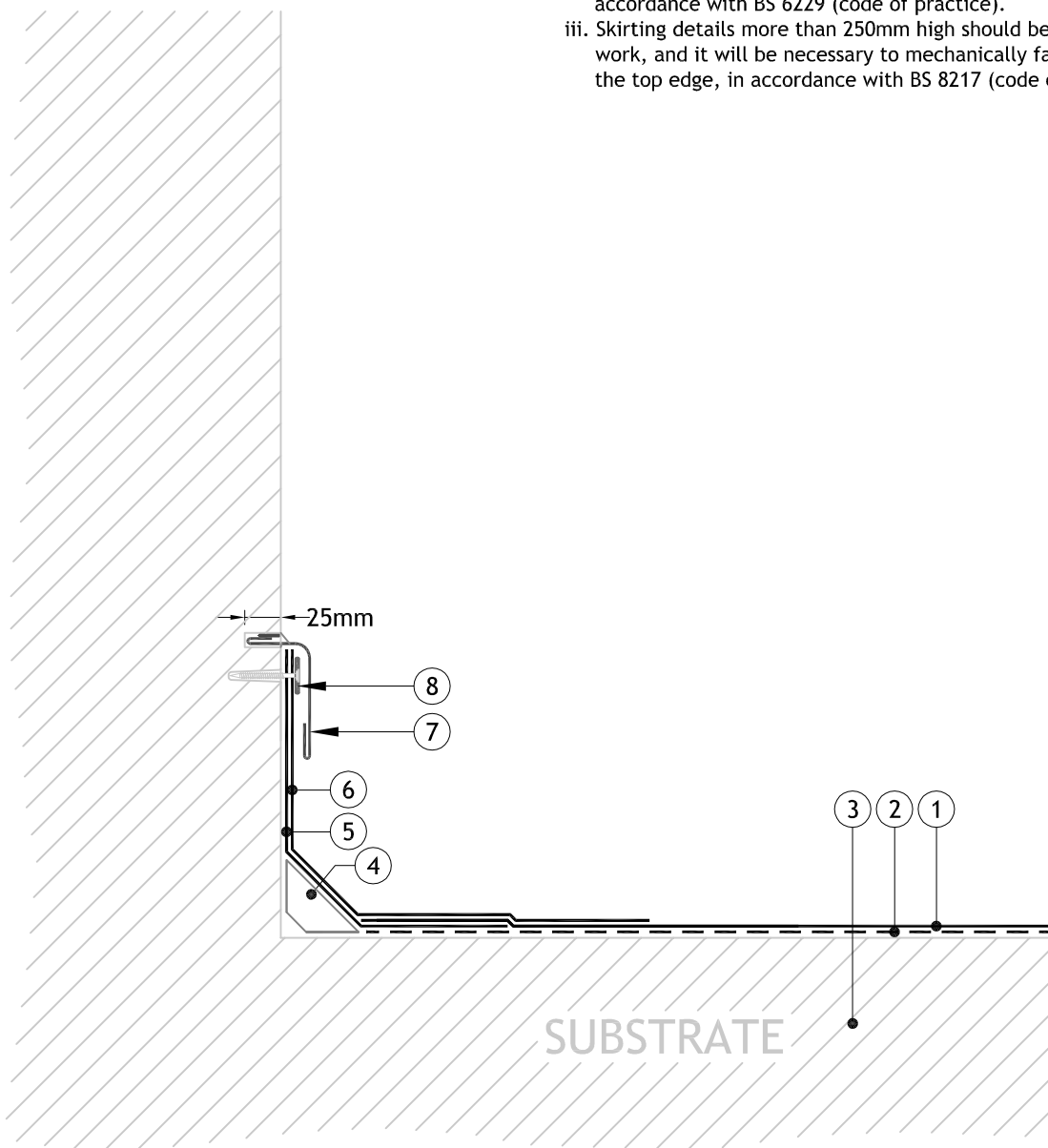
- i. Substrate to be prepared in accordance with current instructions, and is dependant upon nature of substrate and specification of vapour control layer. See Icopal project specification, or consult Icopal Limited's Technical Services Department for guidance.

Construction Notes:

- i. This drawing is intended to demonstrate the methods and recommended detailing of Icopal waterproofing membranes and systems.
- ii. Building details shown are intended to be an indication of typical construction only and may vary to actual site and project conditions.

Notes:

- i. For roofing product references please see Icopal specification.
- ii. Continuity of the waterproof covering must be maintained for a minimum vertical height of 150mm above finished roof level, in accordance with BS 6229 (code of practice).
- iii. Skirting details more than 250mm high should be regarded as vertical work, and it will be necessary to mechanically fasten the membrane at the top edge, in accordance with BS 8217 (code of practice).



Drawing Title: Uninsulated System Upstand To Abutment Wall with Cover Flashing

System: Reinforced Bitumen Membranes - Two Layer System

Dwg. No: T-C-01-101

Rev.

Scale: NTS

Date: 01/07/2015

Drawn By: WF

Checked By: NHA

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Notes:

1. Anderson reinforced bitumen mineral capsheet.
2. Anderson reinforced bitumen underlay.
3. Substrate, prepared in accordance with current instructions.
4. Thermazone angle fillet, as specification.
5. Anderson reinforced bitumen underlay, at details.
6. Anderson reinforced bitumen mineral capsheet, at details.
7. Termination Bar, mechanically fixed and pointed with a suitable sealant.

Preparation Notes:

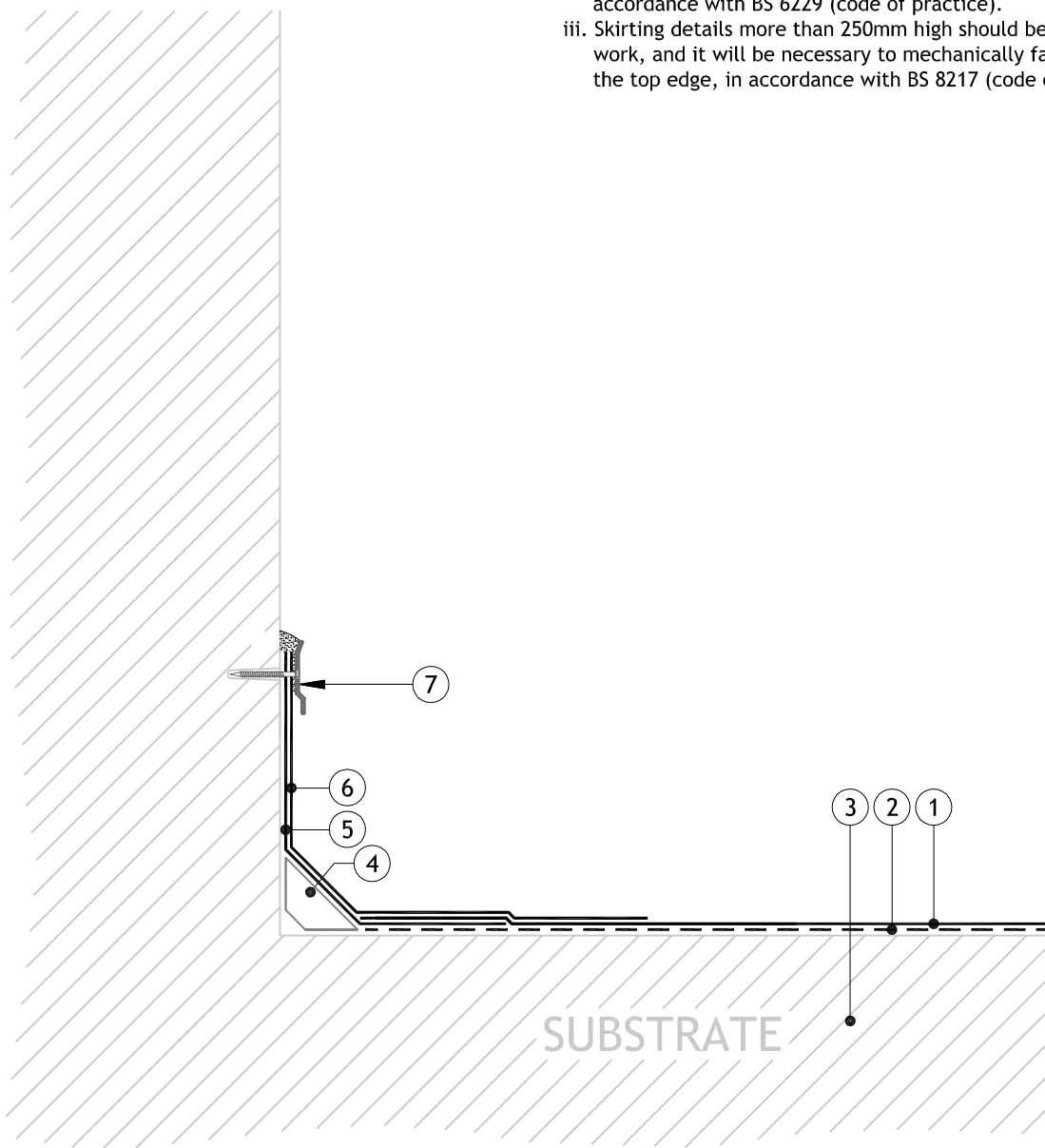
- i. Substrate to be prepared in accordance with current instructions, and is dependant upon nature of substrate and specification of vapour control layer. See Icopal project specification, or consult Icopal Limited's Technical Services Department for guidance.

Construction Notes:

- i. This drawing is intended to demonstrate the methods and recommended detailing of Icopal waterproofing membranes and systems.
- ii. Building details shown are intended to be an indication of typical construction only and may vary to actual site and project conditions.

Notes:

- i. For roofing product references please see Icopal specification.
- ii. Continuity of the waterproof covering must be maintained for a minimum vertical height of 150mm above finished roof level, in accordance with BS 6229 (code of practice).
- iii. Skirting details more than 250mm high should be regarded as vertical work, and it will be necessary to mechanically fasten the membrane at the top edge, in accordance with BS 8217 (code of practice).



Drawing Title: **Uninsulated System Upstand To Abutment Wall with Termination Bar**

System: **Reinforced Bitumen Membranes - Two Layer System**

Dwg. No: **T-C-01-102**

Rev.

Scale: **NTS**

Date: **01/07/2015**

Drawn By: **WF**

Checked By: **NHA**

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Preparation Notes:

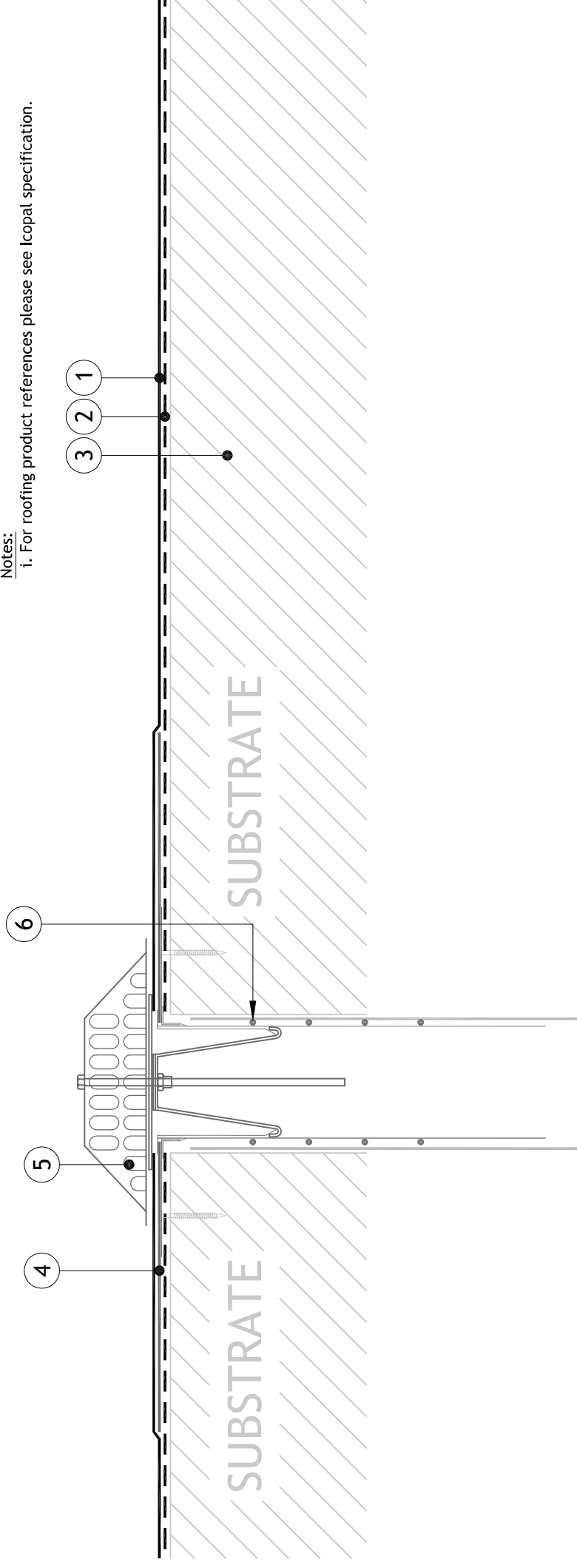
- i. Substrate to be prepared in accordance with current instructions, and is dependant upon nature of substrate and specification of vapour control layer. See Icopal project specification, or consult Icopal Limited's Technical Services Department for guidance.

Construction Notes:

- i. This drawing is intended to demonstrate the methods and recommended detailing of Icopal waterproofing membranes and systems.

Notes:

- i. For roofing product references please see Icopal specification.



Drawing Title:	Uninsulated System To Roofgard Outlet				
System:	Reinforced Bitumen Membranes - Two Layer System				
Dwg. No:	T-C-05-101	Date:	01/07/2015	Drawn By:	WF
		Scale:	NTS	Rev.	
This detailed drawing is to recommend the correct procedures for installing ICOPAL products. All other building details are thus shown indicatively and are not to be used for building construction					
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