



# ALUMASC ROOFING

## Proposed Specification

Project:  
Llwynderw Flats

Project ID: SP157083-S2  
Date of issue: 20/05/2026



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# Waterproofing Specification

Llwynderw Flats



The specification is based on the use of **Caltech QC** a two component, cold-applied, fast curing, polymethylmethacrylate (PMMA) based waterproofing resin. It cures to form a seamless, durable, and weather-resistant waterproofing solution.

Caltech QC and Balcony systems are the subject of BBA Certificate 17/5392, and its manufacture is registered to ISO 14001.

The works shall be executed by a Registered Contractor with experience in these products. The quality of workmanship is monitored on-site on an ongoing basis to ensure compliance with the warranty and current codes of practice.

Alumasc Building Products Ltd is registered as a Firm of Assessed Capability, in accordance with BSI Quality Assurance Standard BS EN ISO 9001:1994 – Registration Numbers Q06401 and FM35898.



**System Warranty**

The above specification/s shall be installed in accordance with the appropriate sections of all current relevant codes of practice, Building Regulations, and manufacturer's installation instructions for products supplied by the company. The works shall be installed by an Alumasc Registered Contractor, and, as agreed in the contract, the Alumasc Certificate of a 10 Year System Warranty shall be issued to the Building Owner from the date of final completion.

This warranty assures the building owner that, in the event that the roof fails to remain watertight as a consequence of latent defect in the waterproofing membrane supplied by Alumasc, details designed by Alumasc or faulty workmanship of the Alumasc Registered Contractor, Alumasc undertakes to reinstate the waterproof integrity of the roof.

This warranty is conditional upon the full system being purchased from Alumasc and installed in accordance with the above specification. Substitution of any products, or installation by means other than those described, will invalidate the warranty offered.

The warranty offered is subject to prevailing terms and conditions, available upon request.

### Project information

Project: Llwynderw Flats  
Location: Porthcawl  
Postcode: CF36 3DL  
  
Area: Roof Area Highlighted in Red  
  
Project ID: SP157083-S2  
  
Date of issue: 20/05/2026

### Client information

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Project Summary

AREA	
Project Information	
Building Type:	Residential
Roof Name	Roof Area Highlighted in Red
Slope	Min. 1:80
Height (Metres)	9
Exposure	High
	Concrete deck, liquid coating
Core Sample	No core samples have been taken as this is a residential block of flats that require access. The condition of the existing must be determined prior to commencement of works. This specification may be subject to change on confirmation.

Schedule of Products	
	QC PRIMER B
	QC PRIMER C
	QC METAL PRIMER
	CALTECH QC BALCONY
	QC RF110
	QC BALCOFLOOR RESIN
	QC BALCOFLOOR FILLER
	CALTECH QUARTZ
	QC FINISH
	CALTECH QC DETAIL
	QC RF110 DETAIL
	QC PASTE
	ALUMASC GRP DRIP TRIM



### Preliminaries

The details contained within this proposal are based on information available at the time of writing and/or the condition of the roof when the Alumasc Site Survey Report was undertaken. It covers the correct installation of Alumasc products, and the preparation work necessary to provide a suitable substrate to receive the proposed works.

These proposals relate to the roof waterproofing area only. They do not include associated work to be carried out by other trades, which may be required to complete a satisfactory refurbishment. This specification is valid for 12 months from the date of issue.

Item	Description	Rate	Total
1.01	All works must comply with the requirements of the Health & Safety at Work Act and any additional requirements of the client. The contractor must liaise with the client or building owner to identify any potential hazards that could affect safe working practices prior to the commencement of works.		
1.02	A detailed method or work statement, design risk evaluation (Incl. RAMS), and program of works are to be provided by the roofing contractor and agreed by all relevant parties prior to commencing works.		
1.03	Employers and those in control of any work at height activity must assess the risk and put appropriate control measures in place by following a hierarchy of control measures such as making sure work is properly planned, supervised and carried out by competent people. This includes using the right type of equipment for working at height.		
1.04	<p>Alumasc Roofing is a registered member of the NFRC Safe2Torch initiative to significantly reduce the risks when using gas torches, either to dry out roofs or when used to install torch-on membranes.</p> <p>Whilst the specification herein promotes safety best practice to mitigate risk identified at roof survey stage, it is the responsibility of the contractor to carry out their own assessment of the potential risks on all aspects of the contract by using flame-free products to any combustible materials that may be present (whether visible or not), or otherwise where there is a potential hazard. Alumasc will accept no liability for any loss, damage, or injury attributable to the use of a gas torch application on or adjacent to combustible materials.</p> <p>To all areas considered a risk, the contractor must enforce a torch-free zone as dictated by their own insurers, however, it is recommended that this should be no less than 900mm.</p>		
1.05	If a naked flame is used for drying a roof surface, it is important that all operatives using a gas torch are familiar with and understand the principles of the Safe2Torch conditions as set out by the NFRC. Where the use of a naked flame is not permitted at any stage of the contract, drying the roof surface must be completed using hot air blowers, or a other suitable alternative method that does not involve using gas torches.		
1.06	Wherever a gas torch is employed, the contractor must observe the greater of a minimum one-hour fire watch, or the period dictated by their own insurers, after cessation of torching. Fire extinguishing equipment must be readily available in accordance with health and safety legislation.		
1.07	It is the responsibility of the client or building owner to ensure that the building shall be designed, constructed, or refurbished so that, in the event of a fire, the external envelope of the building has sufficient resistance to prevent fire spread across the relevant boundaries in accordance with all relevant sections of the Building Regulations. In the event of any doubt, further guidance should be sought from Building Control and/or a suitably qualified fire safety officer.		



Item	Description	Rate	Total
1.08	Where the Building Regulations and/or project design does not allow the use of combustible building materials such as timber, these elements are to be substituted for an A2-s1, d0 or A1 rated i.e. non-combustible alternative. If in doubt, consult with Alumasc technical services for further information and guidance.		
1.09	Safe and effective transport of materials to working level is to be determined by the contractor subject to on-site conditions and accessibility. Care must be taken when storing materials and equipment not to overload the deck or structure.		
1.10	<p>All roofing materials supplied must be stored carefully undercover and raised clear of the ground, on a clean level surface, away from excessive heat. Bituminous rolls must be stored on end. Ideally, insulation should be stored inside wherever possible. If outside storage is unavoidable, the shrink wrap packaging alone is not under any circumstances sufficient and must be covered with tarpaulin or heavy duty waterproof sheets at all times.</p> <p>All adhesives, liquid products, and self-adhesive rolls are to be stored in a temperature controlled space &gt;5°C. Containers which are opened must be carefully resealed and kept upright to prevent leakage.</p>		
1.11	The contractor is responsible for coordination, supervision and administration of the works and is to give notice of the anticipated dates of completion for inspection in accordance with Alumasc requirements.		
1.12	Roofs accessed for regular maintenance of plant, or parts of the building, should be given consideration in providing a predetermined route to and from the entry point to minimise potential hazards.		
1.13	It is suggested that a provisional sum is allowed for to cover unspecified items and unforeseen issues that may become apparent during the course of works.		





## Roof Area Highlighted in Red

Specification					
2.0	Preparatory Works				
Item	Description	Qty	Unit	Rate	Total
2.01	<p>STANDING WATER</p> <p>Standing water is present above the existing roof covering. Whilst the new proposed waterproofing system will be unaffected by limited areas of standing water, without rectification water may continue to hold as a consequence of the existing surface profile and inefficient falls present.</p>				
2.02	<p>CLEAR VEGETATION</p> <p>Vegetation, moss and lichen growths are to be carefully removed and cleared from site. The roof surface should then be cleaned using a fungicidal wash and pressure washed.</p>				
2.03	<p>POWER WASH ROOF</p> <p>All surfaces are to be power washed to ensure a clean surface suitable for inspection and any necessary repairs. A minimum of 1500 psi is recommended for power wash preparation. At no point should the power washer be operating at a high pressure whereby the substrate is being damaged during the cleaning process. Adjust the pressure if required to ensure all contaminants and friable materials are removed from the surface. Please note that suitable precautions must be made when working with high pressures to avoid high-risk areas of existing known failures.</p> <p>Ensure surface is fully dry before works commence.</p>				
2.04	<p>SOLAR REFLECTIVE COATING WHERE IDENTIFIED &amp; NEW CEMENTITIOUS REPAIR MATERIALS</p> <p>Where large cracks are present, the liquid coating is to be locally removed to repair the concrete substrate beneath.</p> <p>Remove loose or degraded coatings returning to a firm, feathered stable edge. The careful application of heat is an effective method of weakening the bond of the coating to the surface. Any remaining coating that is soundly bonded to the surface can be overlaid.</p> <p>Ensure materials used are sufficiently hydrated, have a sufficiently low moisture content and have sufficient hardness.</p> <p>Where applicable, for horizontal and vertical repairs, filling chases etc. install QC Paste at an approximate coverage rate of 2.00g/cm<sup>3</sup>, by trowel or spatula. Thickness per layer 1 to 30mm. Rainproof time approx. 30 minutes, next coat approx. 60 minutes.</p>				
	<b>Sub-total</b>				



Item	Description	Qty	Unit	Rate	Total
2.05	<p>REPAIR EXISTING WATERPROOFING &amp; SUBSTRATE</p> <p>Prepare the existing waterproofing where remaining and substrate to provide an acceptable base for re-roofing. Remove all debris and non-adherent areas of existing finish.</p> <p>The system will follow the profile of the substrate to which it is installed. Depressions and/or negative falls should be identified pre-works and brought to the attention of all relevant parties. If deemed unsatisfactory, correction would be recommended to ensure that all design parameters are sustained throughout the lifecycle of the roof in accordance with prevailing standards, regulations and codes of practice.</p> <p>The finished surface is to be even and free from any irregularities that may compromise the works/and or performance.</p> <p>It is the responsibility of the appointed contractor to ensure moisture content and stability of substrate does not impair roof integrity. Acceptable methods of drying roof areas, where required, must be agreed upon with the client prior to the commencement of works.</p> <p>Apertures must be protected from ingress of debris to prevent blockages. Protection should be removed during non-operating periods.</p>				
2.06	<p>REMOVE ALL WATERPROOFING FLASHINGS</p> <p>Remove existing waterproofing from skirtings, flashings, and all associated details.</p> <p>Any imperfections or damage to existing substrates, upstands etc. which are to receive new waterproofing must be made good with suitable repair materials prior to installation of the proposed works.</p>				
2.07	<p>BRICKWORK/MASONRY</p> <p>Inspect masonry and mortar joints which are not be covered by the proposed works for damage, make good with compatible materials where required.</p> <p>Mortar joints must be sound and preferably flush pointed.</p>				
2.08	<p>CUTTING CHASES</p> <p>Form a new 30mm deep chase to accommodate the increase in upstand height required by the installation of the new waterproofing system. Ensure that a minimum 150mm above the new finished roof level is achieved.</p> <p>Where the existing chases are to be utilised, they must be re-formed (if required) and cleaned.</p>				
	<b>Sub-total</b>				



Item	Description	Qty	Unit	Rate	Total
2.09	<p>RAISE EXISTING UPSTANDS</p> <p>Upstand details are likely to be compromised by the installation of the new waterproofing system. Where applicable, provision should be made to raise the upstand heights to achieve a minimum 150mm above the new finished roof level. Alumasc cannot take responsibility in the event of water ingress over and above the termination of our waterproofing.</p> <p>NB. The position of existing damp proof course/cavity trays must be considered. Care must be taken to ensure that termination of the new roofing system below, or appropriate rectification is made to ensure water cannot ingress behind the system.</p>				
2.10	<p>HANDRAIL</p> <p>Handrail is to be remain in situ. Any repairs or modifications are to be carried out as part of the scope of works. On completion of works, the handrail is to be tested by a specialist.</p>				
2.11	<p>REDUNDANT SUPPORTS</p> <p>Redundant steelwork beams and/or support plinths are to be removed and cleared from site. The disturbed surfaces are to be made good with suitable repair materials to finish level with surrounding area/s prior to installation of the proposed works.</p>				
<b>Sub-total</b>					

<b>3.0</b>	<b>Caltech QC Balcony Plus</b>				
Item	Description	Qty	Unit	Rate	Total
3.01	<p>PREPARATION TO SUBSTRATE</p> <p>Substrate preparation is crucial to ensure durability. The moisture content and stability of substrate must not impair roof integrity. Inspect all surfaces to assess soundness of substrate, it is the responsibility of the appointed contractor to verify and report any deficiencies so that they are corrected prior to commencing with the application.</p> <p>Where voids or capillaries are present near the surface following preparation to concrete there is an increased risk of concrete outgassing which may result in pin holes, or blisters in subsequent coatings. The concrete should be primed when the concrete and air temperature is cooling, when the concrete temperature is lower than the air temperature typically late afternoon or evening. If pin holes, or blisters occur, cease work immediately and consult Alumasc technical services.</p> <p>Surface is to be dry, clean, and free from all contaminants including oils, grease, laitance, dirt and debris.</p> <p>Adhesion tests are to be carried out where necessary to determine the preparation and priming requirements of the coating system. Alumasc technical must be notified where insufficient adhesion is achieved.</p>				
<b>Sub-total</b>					



Item	Description	Qty	Unit	Rate	Total
3.01	<p><b>PRIMERS</b> To all prepared surfaces apply the appropriate Caltech Primer to all required areas at the specified rate.</p> <p>QC Primer C (Catalyst Required) Suitable for concrete, masonry, fibre cement sheets. Apply one coat at an approximate coverage rate of 0.40 l/m<sup>2</sup>, by brush or short pile roller. Rainproof time approx. 25 minutes, next coat approx. 45 minutes.</p> <p>QC Primer B (Catalyst Required) Suitable for bituminous roofing, mastic asphalt, timber. Apply one coat at an approximate coverage rate of 0.40 l/m<sup>2</sup>, by brush or short pile roller. Rainproof time approx. 25 minutes, next coat approx. 45 minutes.</p> <p>Catalyst requirement for the above primers varies according to ambient temperature at time of installation:  0° to 5° = 6%  5° to 15° = 4%  &gt;15° = 2%</p> <p>QC Metal Primer For the priming of prepared/weathered, non-rusted steel, galvanised metal, aluminium etc. Not for use on heavily corroded metal, or non-ferrous metals such as copper, lead etc.</p> <p>Apply one coat at an approximate coverage rate of 0.09 l/m<sup>2</sup>, by brush or short pile roller. Ensure all exposed metal panel edges, cut ends, bolt heads and sharp angles etc. are fully primed. Rainproof time approx. 60 minutes, next coat approx. 60 minutes.</p> <p>Rough or highly porous surfaces will significantly reduce the coverage rates. Touch-in suspect areas where necessary.</p>				
	<b>Sub-total</b>				



Item	Description	Qty	Unit	Rate	Total
3.02	<p>CALTECH QC BALCONY PLUS LIQUID COATING</p> <p>Caltech Primer appropriate to substrate</p> <p>Caltech QC Balcony (2 coats)</p> <p>QC RF110</p> <p>QC Balcofloor Resin</p> <p>QC Balcofloor Filler</p> <p>Caltech Quartz</p> <p>QC Finish</p> <p>Caltech QC Detail</p> <p>QC RF110 Detail (recommended for detailing)</p> <p>Catalyst is required for all resins</p> <p><b>WORKING CONDITIONS</b></p> <p>In the event of rainfall, stop work immediately and do not resume until the surface is completely dry. Where a curing membrane is subjected to rainfall, the surface can become pitted. Where applicable, these areas should be topped off for aesthetic reasons.</p> <p>When applying Caltech under typical conditions, the movement of free air across the substrate will result in a rapid dispersion of vapours. Where air conditioning systems draw air from outside these should be switched off and intakes sealed. It is also recommended to ensure that all windows in close proximity to the works are closed for the duration.</p> <p><b>APPLICATION OF COATING</b></p> <p>Apply an initial even coat of Caltech QC Balcony to the prepared substrate at a coverage rate of 2.0 kg/m<sup>2</sup>, using a short to medium piled roller. Care should be taken to work only so far in advance that the material remains liquid.</p> <p>Whilst wet, immediately lay the QC RF110 fleece matting into the wet resin, pressing trapped air free using the roller. The overlap onto adjacent rolls is to be a minimum of 50mm (100mm if left over 12 hours), ensure overlaps are sufficiently wet to bond.</p> <p>Immediately apply by roller a further even coat of Caltech QC Balcony by roller at a coverage rate of 1.0 kg/m<sup>2</sup>, wet-on-wet, ensuring the reinforcement fleece is fully encapsulated. Allow to dry.</p> <p>Rainproof in 30 minutes, next coat where applicable 45 minutes, and able to withstand stress 2 hours at 20°C. Times are approximate and subject to ambient temperature and relative humidity at the time of installation.</p> <p>NOTE: All detailing must be completed prior to installation of the Balcofloor coat.</p>				
	<b>Sub-total</b>				



Item	Description	Qty	Unit	Rate	Total
3.02	<p>Thoroughly mix the QC Balcofloor Filler, QC Balcofloor Resin, and catalyst as per the instructions provided on the packaging, and apply an even coat at a minimum coverage rate of 4 kg/m<sup>2</sup>, using a trowel or stub roller.</p> <p>Immediately (within 2 minutes of application) broadcast Caltech Quartz at approx. 6 kg/m<sup>2</sup> into the wet coating ensuring there are no wet patches of resin visible. Allow to dry.</p> <p>Brush clear any excess minerals and vacuum clean.</p> <p>Apply an even coat of QC Finish at a coverage rate of 0.60 kg/m<sup>2</sup>, using a hard squeegee and immediately back roll using a wide roller to distribute material. Finally, using a wide, dry roller, finish in straight lines in one direction across the shortest width of the area being treated.</p> <p>APPLICATION TO DETAILING</p> <p>All detailing is to be completed in accordance with Alumasc recommendations, prevailing standards, regulations and codes of practice.</p> <p>Apply an initial even coat of Caltech QC Detail to the prepared substrate at a coverage rate of 2.0 kg/m<sup>2</sup>, using a short to medium piled roller. Care should be taken to work only so far in advance that the material remains liquid.</p> <p>Whilst wet, immediately lay the QC RF110 Detail fleece matting into the wet resin, pressing trapped air free using the roller. The overlap onto adjacent rolls is to be a minimum of 50mm (100mm if left over 12 hours), ensure overlaps are sufficiently wet to bond.</p> <p>Immediately apply by roller a further even coat of Caltech QC Detail by roller at a coverage rate of 1.0 kg/m<sup>2</sup>, wet-on-wet, ensuring the reinforcement fleece is fully encapsulated. Allow to dry.</p> <p>Catalyst requirement varies according to ambient temperature at time of installation.</p> <p>For Caltech QC Balcony and Caltech QC Detail  0° to 15° = 4%  &gt;15° = 2%</p> <p>For QC Balcofloor resin and QC Finish  0° to 5° = 6%  5° to 15° = 4%  &gt;15° = 2%</p>				
	<b>Sub-total</b>				





Item	Description	Qty	Unit	Rate	Total
3.02	<p>GENERAL NOTES</p> <ul style="list-style-type: none"> <li>- Application rates will vary dependent upon roughness and porosity of substrate, all coverage rates stated are quoted as a minimum and are dependent upon the nature of the substrate and other variable conditions.</li> <li>- QC RF110 Detail should be used for all detailing, available in a smaller roll size of 0.262m x 50m.</li> <li>- To existing cracks and day joints &gt; 1mm, apply a reinforced strip of Caltech QC Detail extending a minimum of 75mm either side of the day joint or crack (minimum 150mm wide) prior to the application of the reinforced membrane to the main area.</li> <li>- Should any detail arise where the treatment is not clear, consult Alumasc technical services for recommendations.</li> </ul>				
	<b>Sub-total</b>				

4.0	Caltech Detailing				
Item	Description	Qty	Unit	Rate	Total
4.01	<p>VERTICAL DETAILING</p> <p>In accordance with BS6229 Code of Practice for Flat Roofs, continuity of the waterproofing is to be maintained for a vertical height of 150mm above the finished roof level at all abutments. Alumasc cannot take responsibility in the event of water ingress over and above the termination of our waterproofing.</p>				
4.02	<p>UPSTAND WITH LEAD FLASHING</p> <p>Inspect and carry out any repairs to the upstand to ensure the substrate is suitable to receive the new waterproofing system.</p> <p>Install the waterproofing system to the upstand.</p> <p>Install Code 4 lead flashing chased into the upstand by a minimum of 25mm, secure in place with Hall Clips at 450mm centres and where flashing pieces overlap. Use appropriate Lead Pointing Sealant, or the more traditional method of mortar to point in the Lead. All lead work is to be executed in accordance with the Lead Sheet Association recommendations.</p>				
	<b>Sub-total</b>				



Item	Description	Qty	Unit	Rate	Total
4.03	<p>DRIP EDGE DETAIL</p> <p>The roof perimeter is to be completed by forming a drip detail.</p> <p>Where applicable, ensure treated timber edge protection is provided to the insulation.</p> <p>Install new Alumasc GRP Drip Trim to outer edge, fixed at 300mm centres over the first layer of waterproofing. All lengths should be close butt jointed.</p> <p>Alternatively, mechanically fix new aluminium metal angle to outer edge, cut and folded as required by the appointed contractor over the first layer of waterproofing. Allow a gap of 4mm between sheets for thermal expansion, and cover with masking tape.</p> <p>To either option apply a secondary layer of waterproofing to the trim, overlapping onto the underlying membrane by 100mm.</p> <p>Depth of trim/angle is to be confirmed by the appointed principal designer and/or contractor.</p>				
4.04	<p>STAIRCASE</p> <p>A provision for a safety trim/paint is to be allowed for by others to the staircase edge.</p>				
	Sub-total				



### Health & Safety

It is strictly the contractor's responsibility to ensure that all works are executed in accordance with current health and safety legislation. Work at Height Regulations 2005. Guidance may be taken from HSE publication reference: HSG33 - Health and Safety in Roof Work; INDG284 - Working on roofs & INDG401 - Working at Height.

It is imperative that safe access, egress, and edge/fall protection which complies with the Workplace (Health, Safety and Welfare) Regulations 1992 is in place for the duration of the works, inspection, and maintenance of the warranted Alumasc Roofing system throughout its life cycle.

Safety scaffolding, the location of rubbish skips, access ladders etc. should be agreed upon with the client and/or principal contractor and be in accordance with current Health and Safety regulations.

A COSHH assessment should be carried out for all materials used to adequately control, exposure to substances hazardous to health. Keeping a copy of the safety data sheet is not a COSHH assessment.

Product and Material Safety Data Sheets are available for all relevant products supplied by Alumasc; available for download from <http://www.alumascroofing.com>

### Inspection

Regular site inspections will be made by Alumasc Roofing during the works to ensure that the installation is executed to satisfy the warranty requirements and relevant standards. A report will be issued detailing the works observed during the inspection and will, where applicable, make recommendations for appropriate rectification which the contractor is to undertake.

**Final warranty inspection:** It is strictly the responsibility of the registered contractor to notify Alumasc to arrange an inspection upon completion of each stage of the works, and that the inspection takes place prior to the application of any surfacing above the waterproof covering.

Once the final inspection has been carried out, the warranty will be issued via the roofing contractor upon acceptable rectification of any snags as identified by Alumasc, or without undue delay should all be satisfactory.

All inspections and/or maintenance actions carried out at roof level must be in full compliance with the Work at Height Regulations 2005 Hierarchy of controls; Employers and those in control of any work at height activity must assess the risk and put appropriate control measures in place such as making sure work is properly planned, supervised and carried out by competent people. This includes using the right type of equipment for working at height.

### Maintenance

It is recommended that a flat roof be inspected at a minimum frequency of twice a year; in spring and autumn accounting for the effects of annual extremes of weather. Inspection should also be carried out following works on the roof by other trades, or following installation of new roof equipment.

- ✓ Check the exposed membrane for any signs of mechanical or chemical damage.
- ✓ Remove any unnecessary debris from the roof area (especially objects which could cause damage).
- ✓ Clear any blockages to outlet gratings/drainage points/gutters (e.g. leaves, litter, and sediment).
- ✓ Cut back overhanging trees where applicable.
- ✓ Check visually for any loosened flashings at perimeters and penetrations.
- ✓ Check soundness of pointing and any mastic sealants at terminations.
- ✓ Ensure continuity of surface protection e.g. ballast covering where present.
- ✓ Inspect rooflights and other penetrations for any damage (e.g. cracks to glazing, missing vent tops), which could result in leakage and/or condensation.
- ✓ Check for any other building components for soundness (e.g. patent glazing, parapet walls etc.)
- ✓ Keep records of your inspections for future reference.

Further guidance can be taken from BS6229 Flat Roofs With Continuously Supported Coverings - Code of Practice.



### General Information

- Prior to execution the Alumasc project specification, associated drawings, and installation instructions for all materials must be studied, understood and followed. These proposals relate to the roof waterproofing area only. They do not include associated works which are to be carried out by appropriately trained tradesmen as part of the works.
- Installation may only be carried out by Alumasc registered operatives, who have sufficient training for each specialist system and awareness to work safely, under the direction of qualified supervisors. The contractor must ensure they have "trained & carded" operatives for the relevant Alumasc Waterproofing System prior to works. Additionally, at least one carded and trained operative must be on site at all times during the installation.
- A physical inspection is required by the contractor to verify the condition of the roof prior to commencement of works. It is the contractor's sole responsibility to fully acquaint themselves with the extent of the works and the conditions under which they are to be executed. Any discrepancies found between the specification and/or site report provided are to be highlighted by the contractor to the contract administrator prior to installation.
- The contractor shall carry out the works in accordance with all statutory requirements and "Best Practice". Should any detail arise where it is not clear how this can be achieved, the contractor is to seek advice and approval for all proposals from Alumasc before completing the works.
- The contractor must ensure satisfactory aesthetic appearance of the completed works is achieved.
- The design must take account of all structural factors to ensure that the waterproof covering is able to accommodate the effect of movement to avoid stress or deformation under these conditions. It is the responsibility of the client and/or their appointed design professional to notify Alumasc accordingly if applicable so that appropriate measures can be considered.
- Where applicable, in accordance with current legislation provision is to be made for insulation to minimise the effects of thermal bridging e.g. roof/wall abutment etc. to be determined by the appointed design professional and/or Building Control.
- Unless otherwise calculated and/or notified the specification proposal will assume a wind load figure of no greater than 3.6 kN/m<sup>2</sup> for a fully bonded application and 2.4 kN/m<sup>2</sup> for a partially bonded application. Alumasc must be notified where the wind load is known to exceed these parameters to confirm suitability.
- Where applicable, all roof services and plant, access walkways, platforms, pipes etc. are to be mounted on suitable support systems e.g. as supplied by Roof-Pro, providing at least 500mm clearance above the roof membrane, in order to facilitate access for future inspection/maintenance or repair.
- The waterproofing components' resistance to dead and imposed loading must be assessed to avoid failure of the component/and or reduction in performance. Where resistance is deemed inadequate, suitable measures to mitigate load intensity will need to be considered.
- The building owner or their appointed design professional must have satisfied themselves that the roof structure and deck are suitable to receive the dead load of the proposed specification.
- Where applicable, all work on fragile roofs must be carried out in accordance with current Health and Safety legislation, with specific reference to the Working at Height Regulations 2005, HSG33 Health & Safety in Roof Work and HSE Document INDG284: Working on Roofs. A risk assessment must be carried out by the relevant parties prior to any works being undertaken. The Health & Safety Executive should be contacted for further information if guidance on this matter is required.
- It is strictly the responsibility of the client and/or their appointed design professional to ensure compliance of the proposed specification with all relevant Building Regulations by consultation with Building Control. In the event of any doubt about the interpretation or application of the Building Regulations in relation to any of the works, clarification must be sought directly from Building Control.
- The substitution of any products (or installation by means other than those described) is strictly prohibited unless agreed in writing, in advance, with Alumasc Building Products Ltd.
- Alumasc Building Products Ltd will not accept any liability arising from unauthorised variations or un-notified changes in circumstances relating to the application or performance of Alumasc products or systems. We reserve the right to make alterations in keeping with technical developments or improvements.

