ALUMASC
ROOFING SYSTEMS

Draft Specification

Roof Terrace - Canadian Embassy – Bucharest

Strada Tuberozler 1-3, Bucharest, 011411, Romania

Specification Ref: SP90751

Date: 8th January 2018

Alumasc Exterior Building Products Ltd, White House Works,
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www.alumascroofing.co.uk

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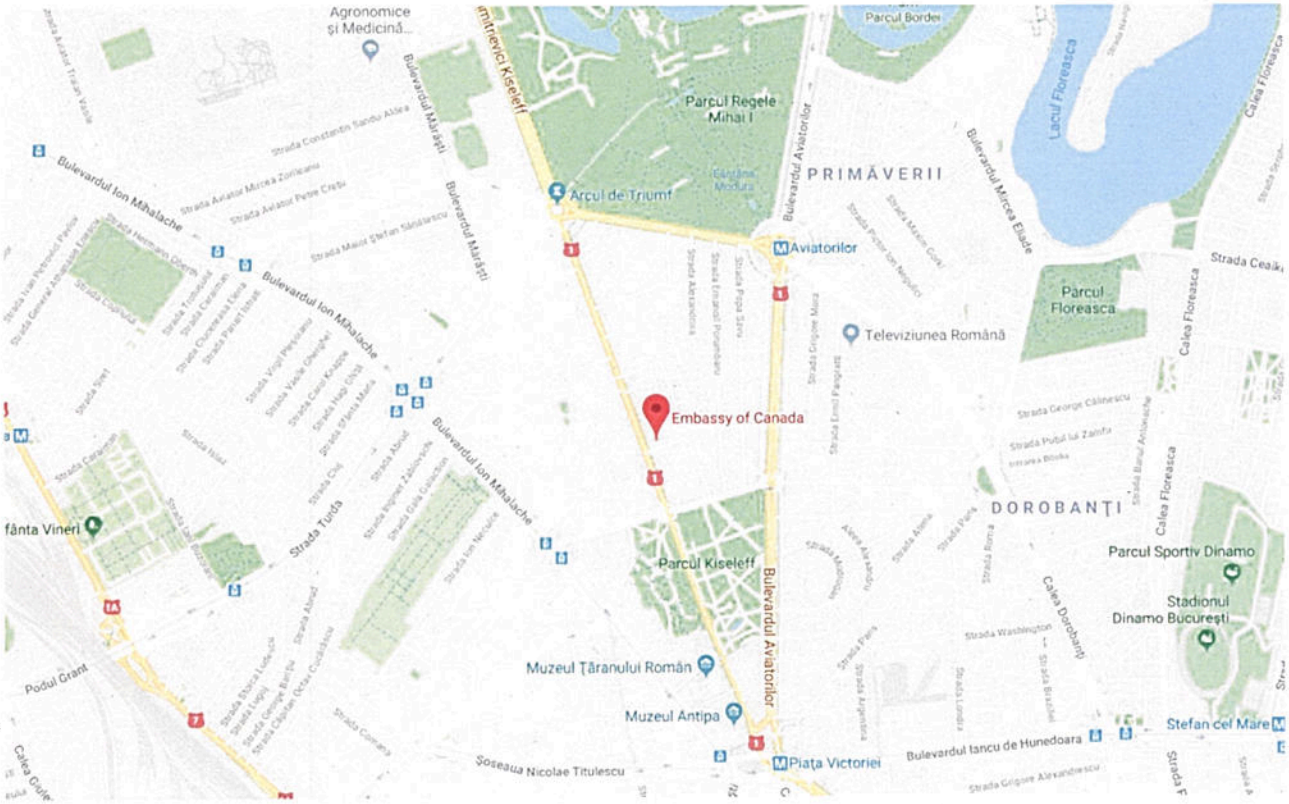

Prepared for: Ingleton Wood – Daniel Legg

Submitted by: Alumasc Exterior Building Products Ltd

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PRELIMINARIES

GENERAL

This specification has been written for application to the concrete deck. All screeds/Waterproof Concrete and Insulation is to be removed.

Further inspections by AEBP and the contractor/s are required with reference to the preparation works described below. Any discrepancies are to be highlighted to the contract administrator prior to the installation.

WARRANTY

The works described below are covered by an AEBP System Warranty for a period of 20 years. Only roofing contractors with 'EUROROOF' certified operatives registered and trained by AEBP may be used. The eligibility of proposed roofing contractors should be confirmed with **AEBP Ltd: Tel 07788 394116 Contact: Rob Smith**, prior to inviting tenders.

INFORMATION

Prior to installation, the Alumasc project specification, associated drawings, and manufacturer's installation instructions for all materials should have been studied and understood, and must be followed. 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.

LOADINGS

When re-roofing it is essential that the existing roof structure is capable of supporting the associated imposed and dead loads both during executing of the works and once completed. It is recommended that professional guidance be sought in this instance.

STATUTORY OBLIGATIONS

The contractor shall carry out the Works in accordance with all Statutory Requirements.

SAFETY - LEGISLATION

It is strictly the contractor's responsibility to ensure that all works are executed in accordance with current health and safety legislation. Guidance may be taken from HSE publication reference: HSG33 - Health and Safety in Roof Work.

SAFETY - USE OF TORCH

Whenever torch application is employed, the contractor must observe a minimum one-hour fire watch after finishing torch application each day. Fire extinguishing equipment must be readily available, in accordance with Health and Safety legislation.

SAFETY - FLAME-FREE ENCAPSULATION

Provision is to be made for flame-free detailing to encapsulate any combustible materials that may be present (whether visible or not) in the roof construction and particularly within 900mm of any abutment or perimeter details. It is the responsibility of the appointed contractor to assess the potential risk. Alumasc will accept no liability for any loss, damage, or injury attributable to non-flame-free detailing in such cases.

STORAGE - ADHESIVE PRODUCTS

Store all adhesive products (including self-adhesive membranes) as per the guidelines.

STORAGE - INSULATION

Packaging alone cannot under any circumstances be relied upon to provide protection from moisture. Replace any materials that become wet during storage.

PROTECTION

As soon as an area of waterproofing has been completed it should be inspected upon notification of completion by the contractor. Completed areas should not be used as a building platform or as an access route by other trades. If unavoidable, appropriate protection must be provided for the duration of the construction period. Care should be taken not to mark or dent the works while laying any additional protection. Inspection and/or leak testing must always take place after removal of such protection.

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.

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SPECIFICATION

PREPARATION WORKS

REF	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
1.01	**PAVING SLABS** Existing slabs, supports and drainage access panels are to be removed and set aside for re-fixing on completion.				
1.02	**PARAPET CLADDING** Remove panels to inner face of parapet and set side for re-fixing on completion.				
1.03	**GLAZING TRIMS** Closure trims below the glazing are to be removed to facilitate detailing works. Re-fix on completion.				
1.04	**CABLES** Existing cables/conduit and trays are to be carefully lifted and temporary recited above the roof level for the duration of the works. Penetrations through the substrates are to be re-routed prior to the application of the new waterproofing				
1.05	**EXISTING WATERPROOFING** Waterproof concrete, insulation and vapour barrier are to be removed and cleared from site. Exposed substrates are to be fully inspected for damage from water ingress.				
1.06	**PROVISIONAL ITEM – DE-WATERING/REPAIRS TO SUBSTRATES** 1. Drying out existing screeds/concrete. 2. Ad-hoc Repairs where loose or defective.				
1.07	**RAINWATER OUTLETS** Existing units and connecting pipes are to be **fully** cleared of blockages by a specialist and prepared to receive the new specified outlets. Openings are to be suitably protected for the duration of the waterproofing works.				

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REF	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
1.08	**PROVISIONAL ITEM - RECOVERY BOARD** **ALUMASC RECOVERY BOARD** Boards are to be bonded in 10mm continuous parallel beads of ALUMASC PU INSULATION ADHESIVE at a rate of 4 beads per metre at 250mm centres for central areas, and 6 beads per metre at 175mm centres for roof perimeters/detail and exposed areas. Firmly press the insulation into place to ensure full contact and adhesion. All joints are to be close butted and staggered. Boards must be in good condition, well-fitting and stable.				
1.09	**PRIME** **ALUMASC SA PRIMER** All substrates and details are to be primed and allowed to dry.				

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INSTALLATION TO FIELD AREA

REF	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
2.01	**SELF-ADHESIVE UNDERLAY** **EUROROOF SA VB** Ensure all surfaces to receive the Self-Adhesive underlay are free from any irregularities that may compromise the works/and or performance. All surfaces must be primed with the specified primer prior to installation. Undertake an adhesion test to establish a full bond can be obtained using the Self-Adhesive membrane to the primed substrate. Please contact Alumasc technical services for further guidance if the bond strength is unsatisfactory. Install the specified Self-Adhesive underlay, with 100mm side and 150mm end laps, by removing the release film and firmly pressure rolling the surface to achieve a continuous bond across the full width of the membrane. All laps are to be hot air welded. Ensure that the membrane is accurately aligned, including overlaps, before removing the release film, and that it does not move as the film is removed.				
2.02	**INSULATION BONDED IN PU INSULATION ADHESIVE –** **ALUAMSC GTF TAPERED INSULATION** Tapered insulation is to be bonded in 10mm continuous parallel beads of Alumasc PU Insulation Adhesive at a rate of 4 beads per metre at 250mm centres for central areas, and 6 beads per metre at 175mm centres for roof perimeters/detail and exposed areas. Firmly press the insulation into place to ensure full contact and adhesion. All joints are to be close butted and staggered. Boards must be in good condition, well-fitting and stable.				
2.03	**HARD EDGE** Timber edge protection is to be provided to the insulation at exposed edge. Timber should be of a reduced thickness (nominally 10mm) to the adjacent insulation to avoid creating a step in the waterproofing,				
2.04	**SELF-ADHESIVE UNDERLAY – 2 LAYERS BUTT JOINTED** **EUROROOF SA UNDERLAY** Ensure all surfaces to receive the Self-Adhesive underlay are free from any irregularities that may compromise the works/and or performance. All surfaces must be primed with the specified primer prior to installation. Undertake an adhesion test to establish a full bond can be obtained using the Self-Adhesive membrane to the primed substrate. Install the specified Self-Adhesive underlay, with butted ends and sides, by removing the release film and firmly pressure rolling the surface to achieve a continuous bond across the full width of the membrane. All laps are to be hot air welded. Ensure that the membrane is accurately aligned, including overlaps, before removing the release film, and that it does not move as the film is removed.				

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REF	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
2.05	**TORCH APPLIED CAP SHEET** **DERBIGUM BLACK** Install the specified cap sheet by torch application to achieve a continuous bond across the full width of the membrane, **with butted ends and sides**. A minimum 5mm to 10mm continuous bead of bitumen must extrude from all laps. Excess compound at laps leave as continuous bead, do not spread or remove. All laps must be pressure rolled simultaneously with a long handled 15kg lap roller. - Always position the membrane starting from the lowest point. - Position the membrane sheets staggered, avoiding any overlaps against the roof fall. - Pre-cut the lower corner of the end of each roll at 45° where it will be overlapped by the end lap of the next roll. - The second layer of membrane will be applied astride and over the first one, always in the same direction, and approx. 1/4 of its length from the previous sheet.				
2.06	**NIGHT JOINTS** Progress of the works will be such as to maintain the waterproof integrity of the roof/s. At the end of each working day, all open laps and joints to be sealed in accordance with current codes of practice.				

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DETAILING

REF	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
3.01	**ANGLE FILLETS** Supply and fix PUR fillets, 50mm x 50mm, at all abutments.				
3.02	**TORCH ON UNDERLAY & CAP SHEET** MG3 UNDERLAYER MG4 CAPSHEET All membranes specified for the detailing are to be executed in two layers, the underlay & cap sheet fully bonded by torching.				
3.03	**SELF-ADHESIVE UNDERLAY & CAP SHEET FOR AREAS WHERE FLAME FREE DETAILING IS REQUIRED** SA PRIMER EUROROOF SA UNDERLAY EUROROOF SA CAPSHEET All membranes specified for the detailing are to be executed in two layers, the Self-Adhesive underlay, fully bonded to the primed substrate, and the cap sheet fully bonded to the primed underlay. Install a final flashing piece of the cap sheet, fully bonded to the upstand and overlapping onto the main horizontal sheet area by a minimum of 100mm. Please refer to the Alumasc Flame Free Detailing Installation Guide for further information.				
3.04	**FLASHING ONTO MINERAL SURFACES** Where overlaps or flashing pieces lap onto a mineral surfaced finish, warm and dress the granules into the pre-heated bitumen prior to sealing the overlap.				
3.05	**UPSTANDS WITH TERMINATION BARS (BEHIND CLADDING & BELOW WINDOWS)** Where required the existing detailing is to be removed to facilitate the works. Mechanically fix Alumasc Termination Bar, fixed at maximum 300mm centres placed at the top edge of the flashing detail, sealed with Derbitech HD Polymer Sealant.				
3.06	**INTERNAL RAINWATER OUTLETS** Roof drainage must comply with BS EN 12056-3. Supply and fix ROOF PRO PROSEAL REFURBISHMENT OUTLETS, including clamping ring to secure the waterproof covering. Type and size of outlet is to be confirmed by the appointed contractor. Outlets shall be set at a level to compensate for the thickness of the outlet flange and avoid any check against the flow of water. The waterproofing system must be fully bonded to the detail. Rainwater goods must be tested by the contractor upon completion of the works prior to handover.				

COMPLETION

REF	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
4.01	**REINSTATEMENT WORKS** As specified in section 1.0, where items have been temporarily removed, relocated, lifted, set aside, etc, ensure that all necessary allowances have been made to re-instate on completion 1. Slabs and supports 2. Cladding panels 3. Glazing trims. 4. Outlet inspection grilles				
4.02	**CLEANING** On completion of all works and at every stage during the striking of the scaffold, allow for all works to clean site and leave all surfaces free of dust and debris.				

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GENERAL INFORMATION

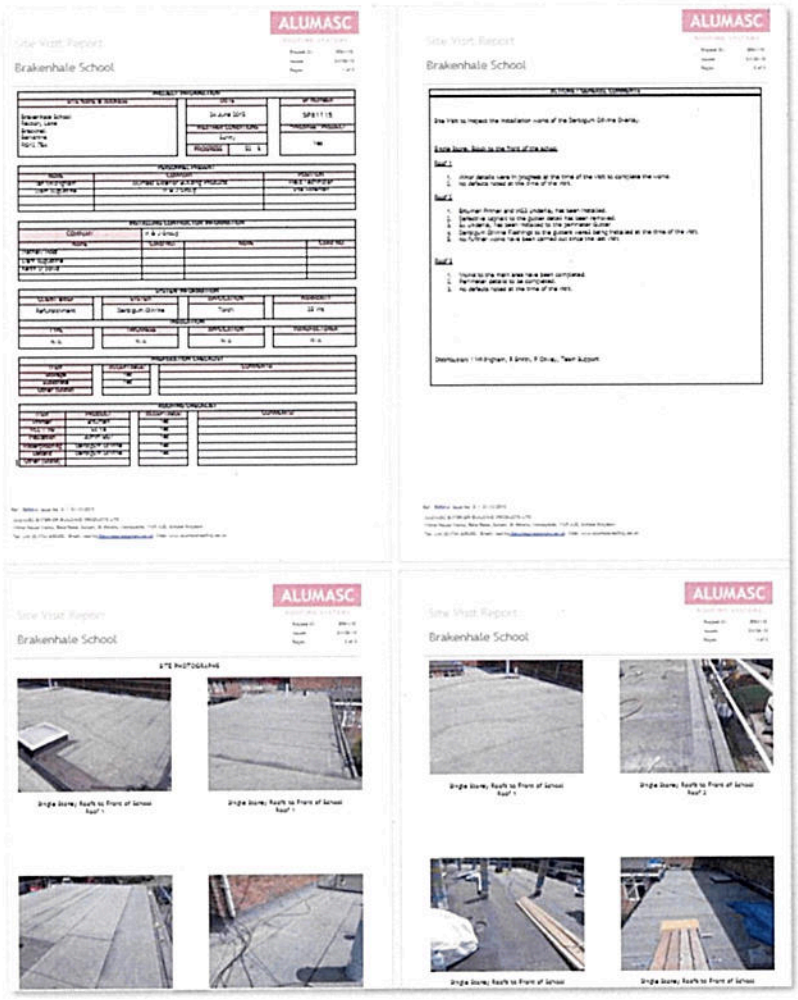
SITE INSPECTIONS

Site inspections will be made by Alumasc during the works to ensure that the installation is executed in accordance with the Alumasc warranty requirements and current codes of practice.

Alumasc will conduct a final inspection upon notification of completion by the contractor. The warranty will then be issued via the roofing contractor upon satisfactory rectification of any snags identified, or without undue delay, should all be satisfactory.

Failure to instigate a final inspection may jeopardise approval and/or warranty release.

All inspections/and or maintenance actions carried out at roof level must be in full compliance with the appropriate health and safety regulations, and particularly those specifically dealing with working at height.



Ingleton Wood

1. West Elevation

2. West Elevation

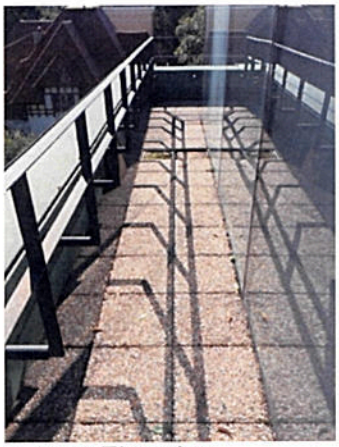
3. Opening up West Elevation

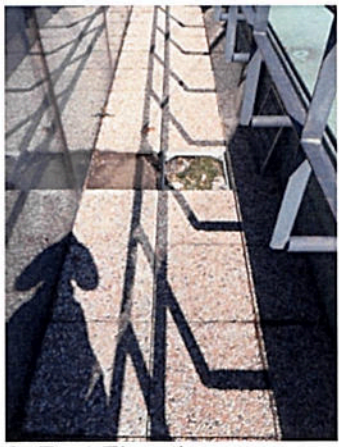
4. Upstand to West Elevation

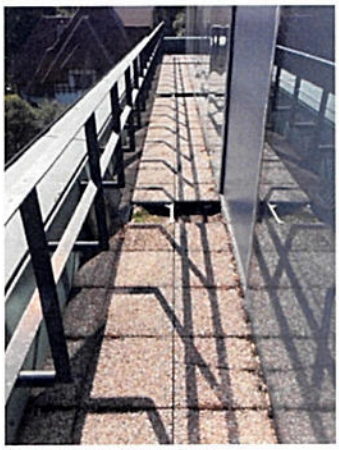
5. North Elevation

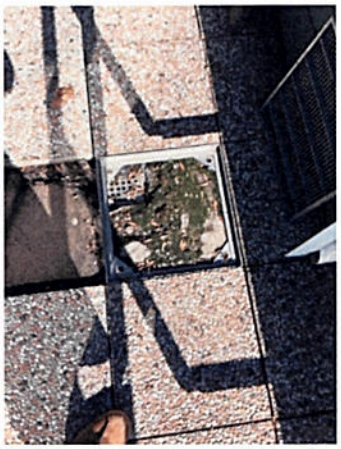
6. Opening up North Elevation

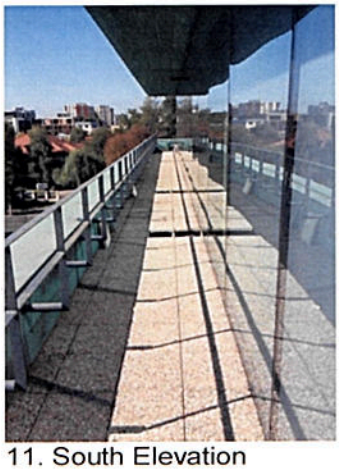
Ingleton Wood

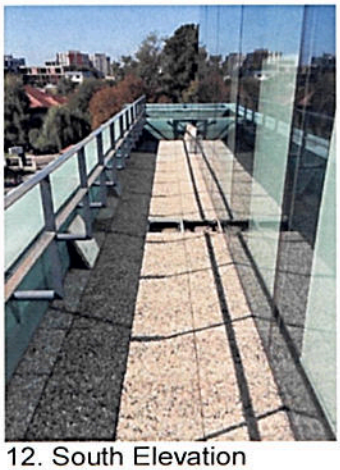

7. East Elevation


8. East Elevation

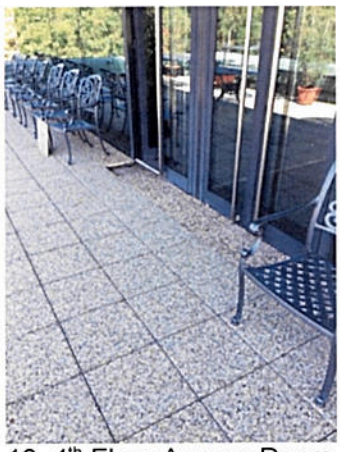

9. East Elevation


10. Outlet to East Elevation


11. South Elevation


12. South Elevation

Ingleton Wood


13. 4th Floor Access Doors

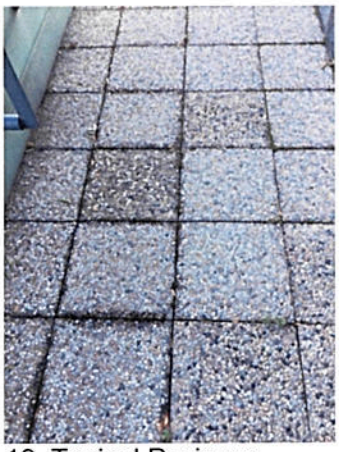

14. Debris Below Paving

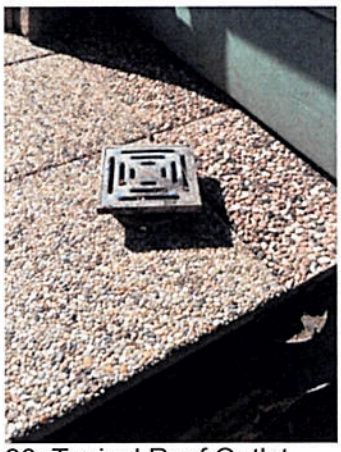

15. Grill Removed Exposing Outlet


16. Poor Drainage Outlet


17. Roof Outlet at Screed Level


18. Typical Grill Above Outlet


19. Typical Paviours

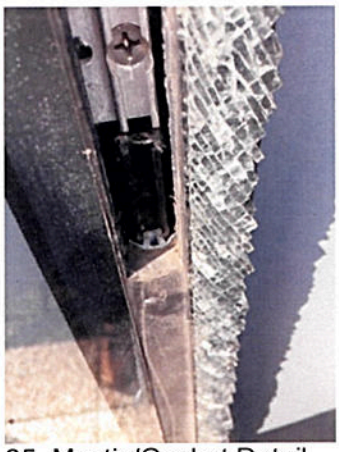

20. Typical Roof Outlet


21. Water Found Beneath Insulation


22. Upstand Detail to Glazed Screen


23. Screed Abutting Upstand


24. Damaged Glazing

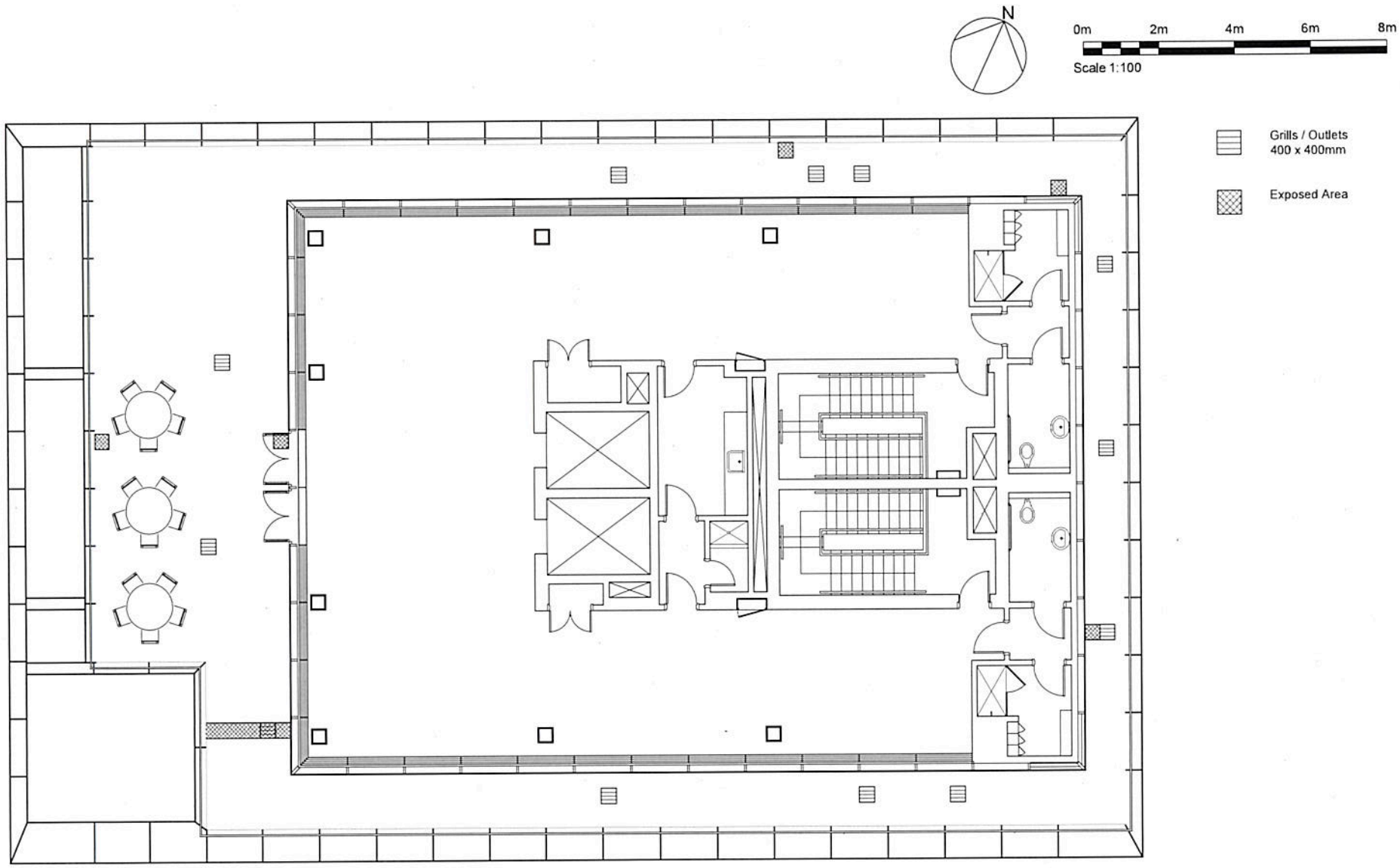


25. Mastic/Gasket Detail

26. Missing Gasket

27. Missing Mastic Joint

28. Removed Section of Mastic



Rev	Description	Date	Chk	Apr
-	-	-	-	-

Project No: 811395 | Scale @ A3: As Indicated | Drawn By: MD

Project:
1-3 Tuberozelor Street
Bucharest
Romania

Client:
Canadian Embassy

Title:
Fourth Floor Roof Terrace Plan

Drawing Number:
811395-IW-XX-XX-DR-B-01

Status:	Purpose of Issue:	Revision:
-	Information	-

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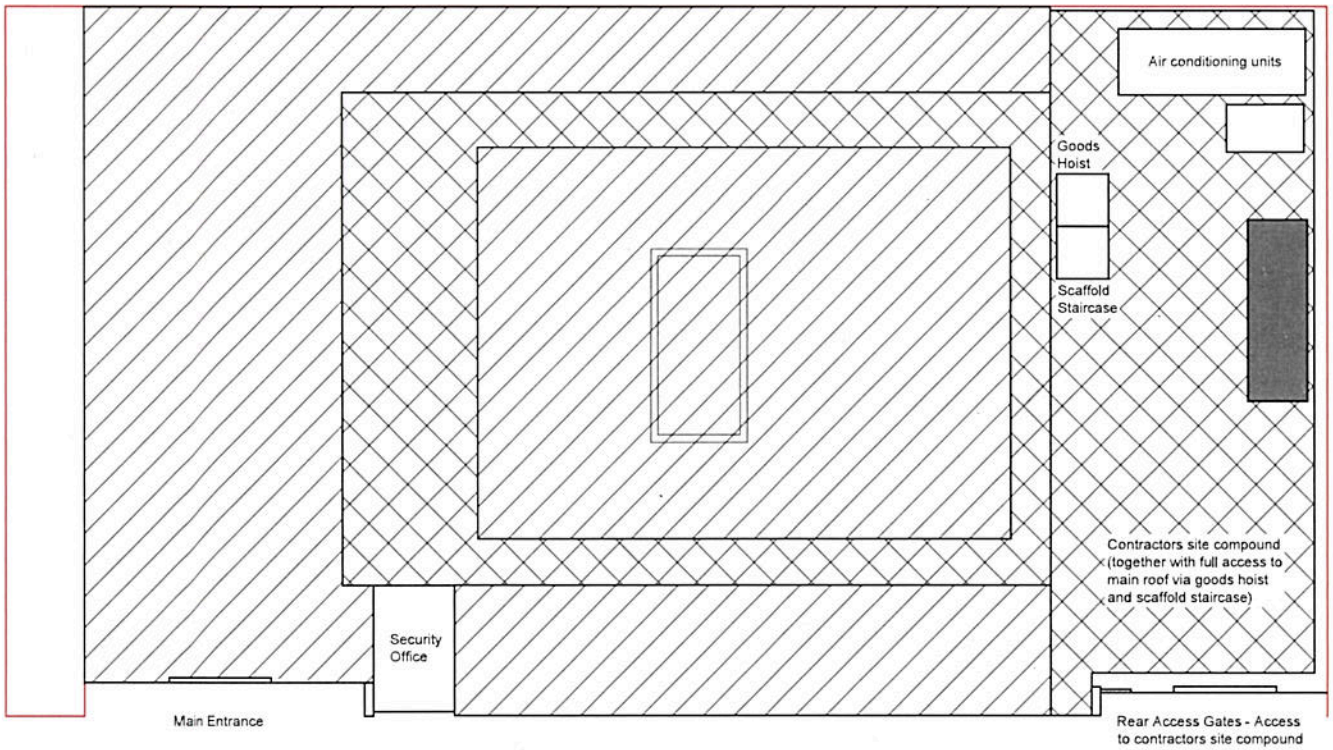
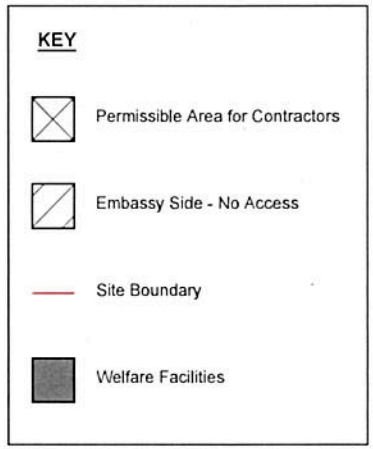
Vision, form and function





			Project: Canadian Mission Chancery Building	Title: Site Logistics & Welfare Facilities Plan	
				Drawing Number: 811395-IW-XX-XX-DR-B-001	
Rev | Description		Date | Chk | Apr	Client: Canadian Embassy	Status: -	Purpose of Issue: Information | Revision: -
Project No: 811395	Scale @ A4: NTS	Drawn By: MD			

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Vision, form and function

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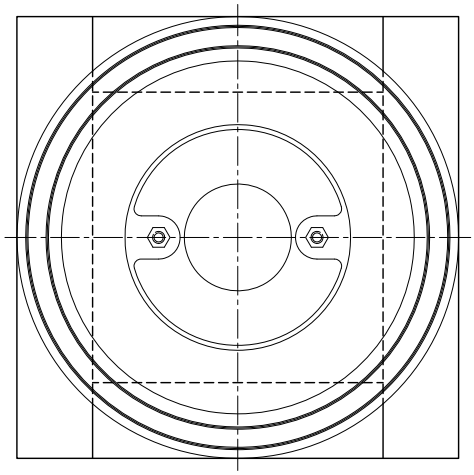
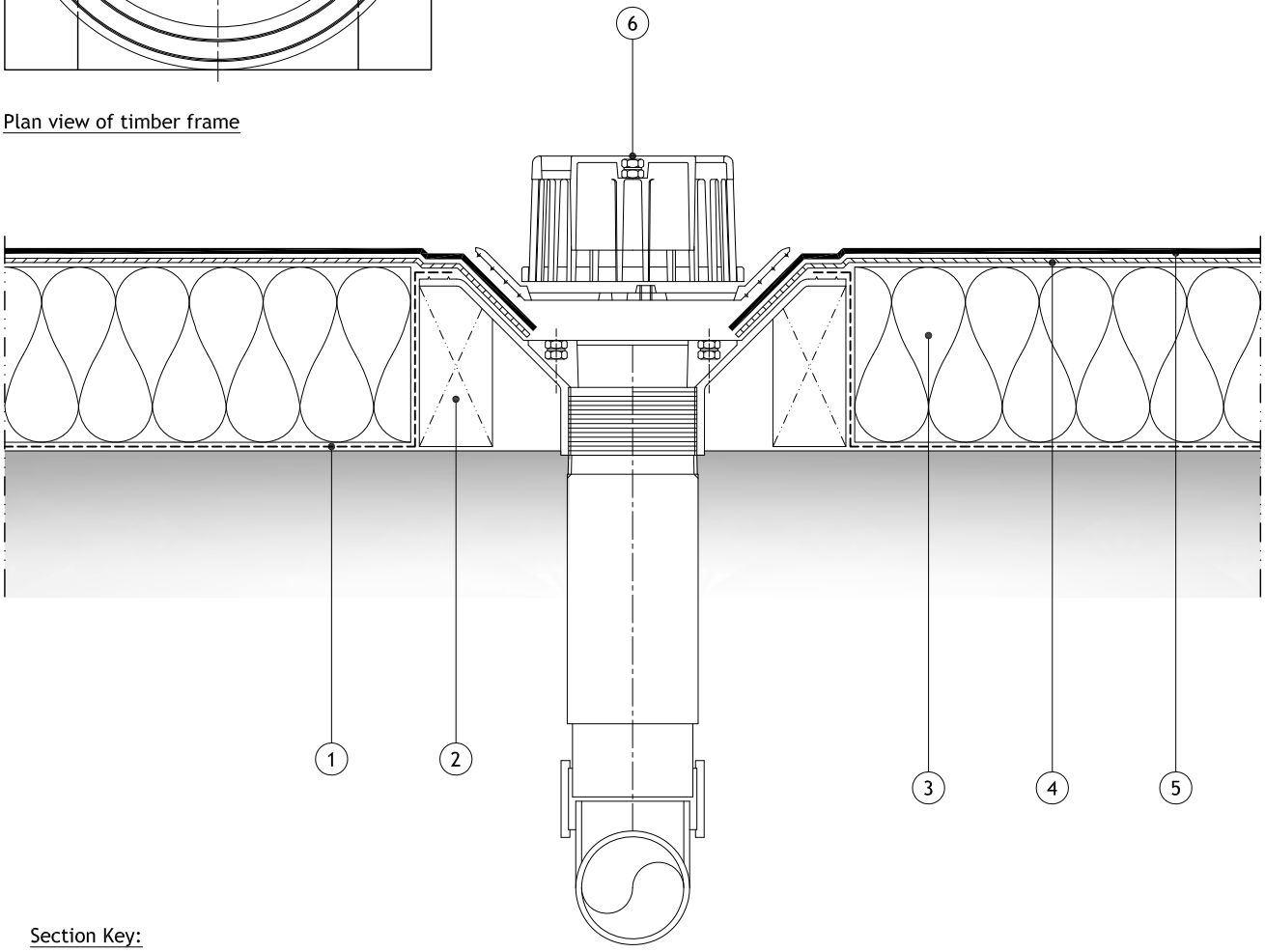


Plan view of timber frame



Section Key:

1. Alumasc vapour control layer.
2. Treated timber batten, by others, to be of reduced thickness to avoid creating a step in the waterproofing.
3. Alumasc thermal insulation, thickness determined to meet the U-value and dew point of the structure.
4. Alumasc base layer.
5. Euroroof Mastergold cap sheet, fully bonded by gas torch.
6. Harmer AV outlet with screw thread adaptor (Product Ref: AV300T shown) incorporating clamping ring & domical grate.

Notes:
1. This detail was prepared to serve as a guideline representing typical detailing conditions and illustrate the correct application of Alumasc products only. It may be necessary to modify this detail in whole or in part in accordance with specific project conditions, design or requirements.
2. Refer to the Alumasc project specification for product description and method of application.
3. Where applicable, any venting layer is not shown for clarity reasons.
4. Product data and COSHH documents are available for download from http://www.alumascroofing.co.uk for all relevant Alumasc products.

alumasc
EXTERIOR BUILDING PRODUCTS

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Title:
Canadian Embassy, Bucharest
Rainwater outlet

Drawing No: HPR MA 01 01

Scale: Not to Scale

Revision:

Date: March 2012

Descriptions de Annexe
Les photos

1 Élévation ouest
2 Élévation ouest
3 Ouverture de l'élévation ouest
4 Résiste à Élévation ouest
5 Élévation Nord
6 Ouverture de l'élévation Nord
7 Élévation est
8 Élévation est
9 Élévation est
10 Ouverture de l'élévation est
11 Élévation Sud
12 Élévation Sud
13 4me Étage Portes d'accès
14 Débris sous le pavage
15 Gril enlevé exposant la sortie
16 Mauvaise sortie de drainage
17 Sortie de toit au niveau de la chape
18 Grill typique au-dessus de la sortie
19 Pavés typiques
20 Sortie typique
21 L'eau se trouve sous l'isolation
22 Détail impeccable de l'écran vitré
23 Chape en appui contre le rebord
24 Vitrage endommagé

Transductions pour dessins

4th Floor Roof Terrace Plan	**Plan de terrasse sur le toit au 4e étage**
Exposed areas	Zones exposées
Site Logistics & Welfare Facilities Plan	**Plan des installations de logistique et de bien-être du site**
Permissible area to contractors	Zone autorisée aux entrepreneurs
Embassy side, no access	Côté ambassade, pas de limite de site d'accès
Site Boundary	Limite du site
Welfare facilities	Installations de bien-être

Rainwater outlet HPR MA01 01 **Sortie d'eau de pluie**

1. Barrière pare-vapeur Alumasc
2. D'épaisseur réduite pour éviter une étape d'imperméabilisation
3. Épaisseur d'isolation thermique en Alumasc déterminée pour répondre à la valeur u et au point de rosée de la structure
4. Couche de base en Alumasc
5. Capuchon Euroroof Mastergold entièrement corsé par une torche à gaz
6. Sortie AV Harmer avec adaptateur de filetage AV 300T illustrée avec bague de serrage et grille domique